

Sterling Multi-Channel Selling Solution

Administration Guide

Release 8.0

Sterling Commerce
An IBM Company

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Preface

Welcome to the Sterling Multi-Channel Selling Solution. This *Administration Guide* provides step-by-step information for administering the Sterling Multi-Channel Selling Solution. Before reading this guide, verify that the system is up and running and has passed the basic connectivity tests outlined in the *Sterling Multi-Channel Selling Solution Implementation Guide*.

Audience

You should be familiar with information systems and with basic network and database concepts. Channel administrators, user administrators, storefront administrators, and partner administrators should have a basic understanding of the Sterling Multi-Channel Selling Solution before starting their tasks.

Availability

This guide is also provided as online help. Click the Sterling Multi-Channel Selling Solution **Help** button to view this guide using your web browser.

Conventions

Throughout this guide, we will use the following conventions shown in Table 1, "Conventions", on page viii:

TABLE 1. Conventions

Type	Convention
File names	Sample.txt
Paths and directory names	/top_level/next_level/next_level/destination_directory/
Sample code	<code>public void method(String s)</code>
Values to be provided	<i><value supplied by developer></i>

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This guide provides a comprehensive manual for administering the Sterling Multi-Channel Selling Solution. This chapter covers the following topics:

- "Managing the Sales Channel" on page 3
- "Using Storefronts" on page 8
- "Users, Roles, and Functions" on page 14
- "Administering the Product Catalog" on page 20
- "Guided Selling" on page 21
- "Using the Visual Modeler" on page 21
- "Setting Prices for Products" on page 22
- "Shipping Charge Administration and Calculation" on page 31
- "Service Contracts" on page 34
- "Sales Contracts" on page 37
- "Product Reviews" on page 38
- "Payment Processing and Gift Card and Credit Card Transactions" on page 38
- "Using Carts" on page 40

- "Serving Promotions" on page 41
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- "Mailing Lists Management" on page 56
- "Program Management and Payment Accounts" on page 57
- "Task Management" on page 59
- "Inventory and Demand" on page 60
- "Internationalizing the Sterling Multi-Channel Selling Solution" on page 60
- "Franchise Model and Suppliers" on page 61
- "Configuring the Sterling Multi-Channel Selling Solution" on page 62

Terminology

Two types of users access the Sterling Multi-Channel Selling Solution:

- *enterprise users* manage enterprise data such as products, price lists, and partner profiles. Enterprise users belong either to the tenant enterprise or to the storefront partner of a storefront.
- *customer users* buy products from the enterprise. Customer users belong to customer partners of the tenant enterprise or to customer partners of a storefront.

The Sterling Multi-Channel Selling Solution supports creating storefronts. A storefront is a fully functional e-commerce site that is a child enterprise of the main (tenant) enterprise. The users of a storefront partner are the enterprise users for that storefront. In general, employees of the storefront organization log in as storefront enterprise users.

The tenant enterprise and its storefront partners are enterprises within the Sterling Multi-Channel Selling Solution.

Managing the Sales Channel

Your sales partners are the heart of the sales channel and so it is important to maintain partner information as accurately as possible. At least one employee of the enterprise, known as the *channel administrator*, is responsible for managing your sales partners information.

Partner Profiles

CHAPTER 7, "Channel Administration" describes the tasks you use to manage your channel partners.

The *channel administrator* uses the Partner Profile pages to provide the information required to integrate the partner with your Sterling Multi-Channel Selling Solution. The information is maintained using the **Sterling Commerce Activity** application and the information is stored in the Knowledgebase.

The information you provide includes:

- whether the partner is a distributor, reseller, Original Equipment Manufacturer (OEM), Retailer, systems integrator, or system partner,
- the customer type,
- whether the partner is gold, silver, or platinum level.

This information becomes important when you define your price lists. For example, when you define a price list, you can define pricing rules that enable special prices for partners who have a particular level or customer type. See "Making Price Lists Available to Customers" on page 28 for more information.

Profile Hierarchy

Partner companies may be divided into complex organizational structures. For example, a partner may comprise management companies, divisions, locations, and departments, or complex structures such as franchises and retail outlet chains. You can mirror these complex structures by creating a hierarchy belonging to a partner.

For example, in the following figure, Partner A comprises four divisions: three immediately below it in the hierarchy and a fourth division that is a child of Division A3.

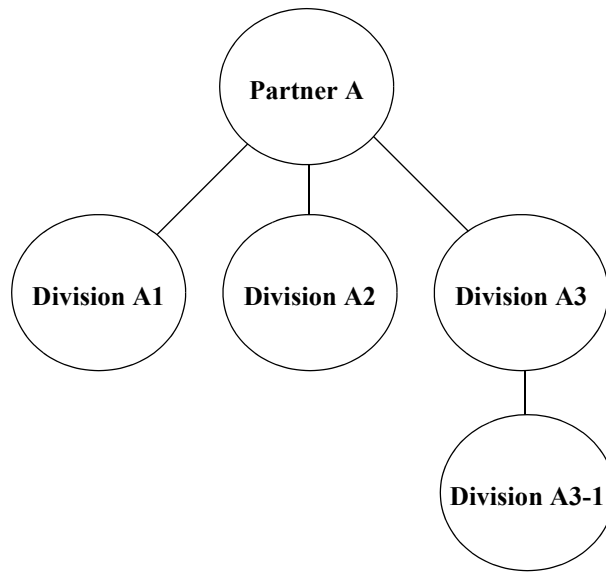


FIGURE 1. Partner Hierarchy

You can set up a profile for each of these entities that reflects the hierarchy. Create the Partner A profile first. Within the Partner A profile, use the **Hierarchy** tab to create a profile for each of Partner A's divisions: A1, A2, and A3. Use the Hierarchy tab for Division A3 to create a profile for its division, Division A3-1.

The hierarchy structure supports an unlimited number of nodes.

See CHAPTER 7, "Channel Administration" for a step-by-step description of the tasks involved.

Partner Users

In addition to creating and maintaining profiles for each partner in the sales channel, the *channel administrator* creates one partner user with the profile administrator function for each customer partner. This partner user is the partner administrator who creates the other customer partner users for their organization.

Partner administrators can log into the enterprise site to maintain partner information. They can create customer partner users and modify their partner profile as necessary.

In addition to the *User* user type, partners can be assigned another user type: *ProcurementUser*. The *ProcurementUser* user type is assigned to a user that is created to facilitate punchin from an external system. See the *Sterling Multi-Channel Selling Solution Implementation Guide* for more information about punchin from an external system.

Profile Statuses

Every profile and every partner user has a status: they determine what partner users can do. See "User Statuses" on page 19 for more details about user statuses.

Profile statuses are as follows:

- **Open:** no restrictions on the activities of a partner user.
- **On Hold:** partner users can log in, but they cannot place orders.
- **On Credit Hold:** partner users can log in, but they cannot place orders on account. They can still place orders on credit cards.
- **Closed:** partner users cannot log in. If a business relationship ends, then you can set the partner status to Closed.

Functionally, On Hold and On Credit Hold have the same effect, but the intention is that you use On Credit Hold to manage issues associated with orders being bought on account whereas On Hold should be used for more general business issues.

Inheriting Status

When a partner is a child of another partner, the effective status of the child partner is inherited from the profile status of the parent. For example, suppose that Partner B is the child of Partner A, and that the status of Partner B is Open. If you set the status of Partner A to On Credit Hold, then even though you have not changed the status of Partner B, the effective status of Partner B is inherited to be On Credit Hold. Consequently, Partner B users cannot place orders.

The profile status of a parent overrides a the profile status of a partner if the profile status of the parent is more restrictive: In the example above, if the profile status of Partner A is set to Closed, then the effective profile status of Partner B is also Closed, irrespective of the profile status of Partner B.

Order Approvals

You can set a business rule that sets spending limits for partner users. Along with the limits, you define approvers for these users who can approve orders above the

spending limit. For the approver name, you must enter a valid username within the same hierarchy as the user for whom you are establishing the spending limit.

Note: You must enter both a spending limit and an approver for the approval process to take effect.
--

These users, in turn, have their own spending limits and their own approvers. See "To Create a User" on page 237 for instructions on creating a partner user.

When a user places an order whose value is above their spending limit, the designated approver can accept or reject the order. If the approver accepts the order, but if the order value is above their spending limit, then the order moves to the designated approver for that person, and so on until an appropriate level is reached. At that point, the order is finally placed.

Proxy for Approvals

When you create or modify a user, you can designate that user as being a proxy for approvals for certain users. You enter the usernames in a Proxy for Approvals field in the user profile. When you do so, you are designating that the user defined by the profile can approve any orders for which the users listed in the Proxy for Approvals field are approvers.

Moving Users Between Levels in a Partner Hierarchy

Occasionally, in a partner hierarchy, a user belonging to a partner needs to be moved between levels in a hierarchy. For example, a user in one division is transferred to another division. Typically, this is something a partner administrator would do. If necessary, however, the enterprise administrator can perform this function. See "To Move Users Between Levels in a Profile Hierarchy" on page 193.

Functions Assigned to a Moved User

If you move a user between two node levels of a partner hierarchy, then the functions assigned to the user before the move are retained. If you move a user from the partner level to a node level (or the reverse), then the functions assigned to the user revert to the default functions assigned at the destination.

Carts and Orders

Moving a user does not move any carts, orders, and so on, associated with the user. When you move a user to another level in the partner hierarchy, notify the administrator for the level from which the user has been moved. The administrator for that level can recover these carts, orders, and so on, using the steps described in "To Recover Carts" on page 259.

Associating Products with Partners

The users associated with a partner must be able to order products in the product catalog. Price lists enable users to order products. A price list consists of a list of products and is assigned to one or more partners. In this way, the user sees the products in the price lists assigned to the partner.

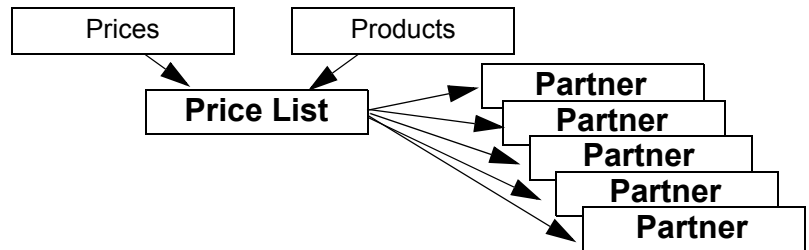


FIGURE 2. Products, Prices, and Partners

See "Setting Prices for Products" on page 22 for a more detailed discussion about price lists and pricing.

Applying Discounts and Special Prices to Partners

The price list assignment to partner also enables you to maintain special prices for certain partners. You use conditional rules to define certain prices depending on certain qualities of the partner (for example, membership level, and so on.). See "Setting Prices for Products" on page 22 for a more detailed discussion of conditional pricing.

Viewing Quote Activity for a Partner

You can get an idea of the products that customers are buying by examining the business activity on your Sterling e-commerce site. After the *channel administrator* adds partners to the Sterling Multi-Channel Selling Solution, you can search for one or more partners and view the carts created by their customers. See "To View Cart Activity for Selected Profiles" on page 202.

Exporting Partner Information

From within Sterling Profile Manager, you can also search for one or more partners, then select them for downloading to a tab-delimited text file. This enables you to open the files in a spreadsheet application, or even email the information as necessary.

Account Limits

You can set up a partner so that its users can place orders on account. See "Payment Options" on page 175. You can also set an account limit on a partner. Initially, their outstanding credit is set to the same amount. When users of this partner place orders on account, the amount of their order is subtracted from the outstanding credit of their partner. If the outstanding credit falls below zero, then the current order is placed on hold, and subsequent orders placed on account are also placed on hold.

Orders placed on hold can be approved by users that have been assigned the Finance function. Partner users can continue to place orders by credit card, but they cannot place any more orders on account until the outstanding credit is increased above zero again.

The outstanding credit amount can be increased by posting XML messages into the Sterling Multi-Channel Selling Solution. Contact your Sterling Commerce representative for details.

Using Storefronts

Some of your selling partners may not have the infrastructure to maintain their own e-commerce Web site. You can create storefronts for your partners. The storefronts provide a complete e-commerce environment within which your partner can do almost all of the same things that you can do within the enterprise. Storefronts have their own URLs, look-and-feel, administrator users, customers, and so on. Storefront administrators manage their customers and partners, price lists, promotions, orders, define and administer customer segments, access customer service functions, and so on, just as tenant enterprise administrators can. Storefront product data can be shared with the enterprise product catalog and orders placed at the enterprise can be brokered from the enterprise to child storefronts.

Each storefront is created with a "storefront partner": this is the partner that represents the enterprise running the storefront. For example, suppose you want to create a storefront for an organization called Anderel. When you create the storefront, you provide details for the Anderel partner profile within the storefront. Anderel employees can log in as users of this storefront partner: when they do so, they act as enterprise administrators within their storefront. We refer to these users as storefront administrators.

Storefront Administrator Tasks

Administrators of each storefront perform administration tasks to manage their sites. These tasks correspond to the equivalent enterprise administration tasks and so the chapters in this guide that cover general enterprise administration are also applicable to storefront administrators.

Storefront administrators can perform nearly all of the same tasks for their storefront that tenant administrators can perform for the enterprise, including:

- Managing business rules for their storefront
- Performing user administration for their storefront
- Creating and managing storefront partners for their storefront
- Setting prices for their storefront
- Managing system properties for their storefront
- Assigning and unassigning feature types to feature categories that they manage for their storefront
- Assigning and unassigning features to the products that they manage for their storefront
- Defining customer segments for marketing campaigns for their storefront
- Defining acceptable payment methods for their storefront such as credit cards and gift cards

Storefront administrators cannot modify parts of the product catalog or perform catalog administration tasks that affect the entire enterprise. This means that they cannot perform the following tasks:

- Managing features with Sterling Product Manager
- Setting up guided selling with Sterling Advisor
- Performing product import/export
- Performing search administration
- Creating or modifying models using the Sterling Visual Modeler

Storefront Hierarchy

Storefront administrators at any level can create child storefronts beneath them. Over time, a hierarchy of storefronts can develop: the tenant storefront, the storefronts that tenant administrators create, the storefronts that storefront

administrators of these storefronts create, and so on. With the exception of the tenant storefront, each storefront has one *parent* storefront, and may have zero or more child storefronts.

- When we refer to the ancestors of a storefront, we mean the parent storefront of the storefront, the parent of that parent, and so on up the hierarchy up to and including the tenant storefront.
- When we refer to the descendants of a storefront, we mean the child storefronts of the storefront, the child storefronts of these children, and so on.

Skins

A skin is a way to determine the look-and-feel of a storefront. The skin comprises a logo (a GIF file), and a cascading stylesheet. Together, these determine some aspects of the user experience as users access the storefront. One skin is created when an enterprise administrator creates the storefront: they specify the string for the URL and this becomes part of the URL that is used when users access the storefront.

Users access a storefront using a URL such as the following:

```
http://server:port/Sterling/en/US/enterpriseMgr/matrix
```

The last component of the path (“matrix” in this case) is used to determine which skin of which storefront the user is accessing.

A storefront administrator can create more than one skin for their storefront: they must specify the URL string, and optionally a GIF image and cascading stylesheet, for each skin they want to create. For example, the enterprise administrator creates a storefront for Anderel, and they specify the URL string as “anderel”. To begin with, Anderel storefront administrators and end-users will access the Anderel storefront using a URL that looks like this:

```
http://server:port/Sterling/en/US/enterpriseMgr/anderel
```

If an Anderel storefront administrator logs in, and creates a new skin with the URL string “anderelStore” for their storefront, then both storefront administrators and end-users can access the Anderel storefront using:

```
http://server:port/Sterling/en/US/enterpriseMgr/anderelStore
```

Depending on the differences between the cascading stylesheets used for the two skins, users will experience a different look-and-feel depending on which of the two skins they use to enter the Anderel storefront.

Storefront Data

In general, any data that is created within a storefront (either by storefront administrators or by storefront end-users) is separate from data of the enterprise storefront. In particular, data created within a storefront cannot be seen from any other storefront. However, note that the following data is "shared" between the enterprise and storefronts:

- **Product data:** Enterprise product data is visible as read-only data to storefront administrators. Storefront administrators can view enterprise product details and add enterprise products to storefront price lists. Storefront end-users can buy enterprise products provided that they meet the standard access criteria (using product entitlements and price lists defined at the storefront level).

Enterprise administrators can open a product category to one or more storefront partners (see "To Enable Access Control" on page 369) immediately below them. When they do so, storefront administrators who have been granted access can create products and child product categories within this product category.

- Products created will be visible as read-only to storefront administrators of any ancestor storefronts, and will be visible as read-only to storefront administrators of any descendant storefronts.
- Product categories created will be visible as read-only to the storefront administrators of any ancestor storefronts. The storefront administrators at this level can open the product category to child storefront partners immediately below them in the storefront hierarchy.

This same principle is applied to product data that child storefronts of a storefront create. At any level within a hierarchy of storefronts, storefront administrators have full access to product data created at their level, and they have read-only access to product data created at ancestor and descendant storefronts.

- Enterprise administrators can see storefront price lists. This is so they can assign storefront price lists to enterprise partners for the purposes of supplier order-brokering.

Storefront Partners

Storefronts are created by an administrator of either the enterprise or an existing storefront. When an enterprise administrator creates a storefront, they provide

profile information for the "storefront partner" and a URL that will be the access point for all users entering the storefront.

Legacy Storefront Partners and Partner.com Partners

This section describes how earlier releases managed partner storefronts. Partners are enabled for Sterling Partner.com either as a Partner.com Partner or as a Storefront Partner.

The Partner.com Partner gains the same advantages of e-business as other partners in the Sterling Multi-Channel Selling Solution. End-users can log into the enterprise site, select products, and then be able to select the Partner.com Partner for price and availability checks or cart transfers. With the ability to create their own partners called customers, the Partner.com Partner can give special prices and access to additional products to users belonging to these customers. When a partner is enabled for Sterling Partner.com, their customers can log into a dedicated location to obtain order information.

Storefront Partners support the same capabilities as Partner.com partners, and, in addition, they can operate a storefront for their customers. End-users created for these customers can access the storefront URL, defined when the Storefront Partner is enabled, and order products directly from the storefront. In addition, the Storefront Partner can participate in the selling experience described for the Partner.com Partner, providing special pricing and products to end-users belonging to their customers.

Storefront administrators can manage the emails that are sent to their customers when they place orders so that the email messages are customized for their storefront.

Customers and Their Users

A customer is any partner created by an enterprise administrator (tenant or storefront). As described earlier ("Managing the Sales Channel" on page 3), the enterprise administrator creates customer partners in their sales channel.

- Tenant administrators create a partner administrator for each customer partner who, in turn, creates partner users. These users log in to the enterprise tenant site using the usernames and passwords assigned to them by the partner administrator.
- Similarly, storefront administrators create customer partners in *their* sales channel. They create a partner administrator for each such partner who, in turn, creates partner users. These users log in to the storefront site using

the usernames and passwords assigned to them by their partner administrator.

Products, Pricing, and Product Availability

Storefront partners must keep their product and pricing information current in the Sterling Multi-Channel Selling Solution. Storefront administrators create products through Sterling Product Manager. When they create a product, they assign a product ID that will be a reference in the enterprise product catalog. Through Sterling Pricing, they create and maintain price lists for these product IDs as well as for enterprise product IDs. The storefront administrator identifies partners of the enterprise to whom the storefront administrator wants to assign the price lists (that is, to whom the storefront administrator wants to make the products on those price lists available). Since only the enterprise administrator can assign price lists to enterprise partners, the storefront administrator notifies the enterprise administrator to assign the lists to these enterprise partners.

Once the storefront administrator has done this, we recommend that partners identify the availability of the product for their own product IDs ("Product Availability File" on page 13). Partners can also provide a file that maps the enterprise product IDs to their own product IDs ("Product Mapping File" on page 14).

Product Availability File

Once storefront administrators have created the products and price lists, then ensured that their price lists have been assigned, we recommend that they provide product availability information for their own product IDs.

Note:	A product for which no availability information is provided is displayed to the end-user with an available quantity of zero.
--------------	--

Storefront administrators provide availability by creating a file with the availability information, then uploading it. As described in "Product Availability File Format" on page 1128, the file includes such information as warehouse location, availability, and restock quantity. Storefront administrators can create an availability file using their preferred text editor. Alternatively, if they create the data using a spreadsheet other than Microsoft Excel, they can export the data as a tab-delimited file. Follow the instructions provided by the spreadsheet application for further details.

Once the file is uploaded, partners can modify the availability information in one of two ways:

- Download the file, modify the current entries or add new ones, then upload the modified file.
- Update individual availability information from within the Sterling Multi-Channel Selling Solution.

Product Mapping File

Partners can create a product mapping between the enterprise product ID and their own product ID. Product mappings may be uploaded to the Sterling Multi-Channel Selling Solution in a product mapping file. The format of the file is a tab-delimited file as described in "Product Mapping File Format" on page 1127. They can use their preferred text editor to create or modify the file. Alternatively, if they create the data using a spreadsheet other than Microsoft Excel, they can export the data as a tab-delimited file. Follow the instructions provided by the spreadsheet application for further details.

Note:	Providing a Product Mapping file is optional. The product ID of the partner displays to the end-user along with the enterprise product ID. If no mapping is provided, only the enterprise product ID is displayed.
--------------	--

Once the file is uploaded, partners can modify the mapping information in one of two ways:

- Download the mapping file, modify the current entries or add new ones, then upload the modified file.
- Update individual mapping information from within the Sterling Multi-Channel Selling Solution.

Users, Roles, and Functions

Users perform functions within the Sterling Multi-Channel Selling Solution. To perform their functions, users must have appropriate access privileges. First, assign the functions within your organization to administer the various parts of your e-commerce site. Next, create the users that perform these functions and assign appropriate access privileges to those users.

The tasks for this purpose are presented in CHAPTER 6, "User Administration".

Organizational Functions

Assign the following functions in your organization:

- *Accounts Receivable Representative*: Manages invoices for the e-commerce site.

- *Business Rules Manager*: Controls the business rules for the e-commerce site.
- *Channel Administrator*: Creates and maintains the profiles for each partner and creates a partner administrator for each profile. The partner administrator is an employee of a partner who is responsible for creating and maintaining their own partner users.
- *Commerce Administrator*: Monitors all cart activity at the e-commerce site or Sterling Partner.com partner site.
- *Customer Service Representative (CSR)*: Creates and updates orders on behalf of customers, monitors orders, and monitors any product return requests. Typically, products returns have internal rules that guide whether to approve or reject a return. When a decision must be made manually, the CSR has the authority to make that decision.
- *Enterprise Lead Administrator*: Creates and assigns leads to one or more partners. The enterprise lead administrator also closes the lead.
- *Promotion Administrator*: Manages promotions.
- *Product Administrator*: Manages all the products at the enterprise site: sets the correct prices for the products and associates them with the appropriate partners.
- *Sales Manager*: Manages the sales representatives and delegates leads to them.
- *Sales Representative*: Handles leads that are delegated to them.
- *System Administrator*: Maintains the system configuration using the System Administration module.
- *User Administrator*: Creates and maintains all the users at the e-commerce site.

Creating Users

The *user administrator* is the person at the Sterling Multi-Channel Selling Solution installation responsible for adding users to the system and giving them access to the areas appropriate for them to perform their function. In general, user administrators do not have any privileges associated with partners. In particular, they cannot create partner users. (The only enterprise employees who can create partner users is the *channel administrator*.)

When you create users, you must assign them a username and password. The username you assign must be unique. Each username is checked for uniqueness when the user is created: if the username is already in use, then the user administrator must choose a different username. When a user is deleted from the Sterling Multi-Channel Selling Solution, their username is not: once a username is in use, it can never be reused.

As you create users, you must also assign access privileges by assigning one or more functions.

You can also set a preferred locale for each user. See "Internationalizing the Sterling Multi-Channel Selling Solution" on page 60 for more information.

Assigning Functions

In the Sterling Multi-Channel Selling Solution, *entitlement functions and roles* explicitly define the access that users have to business objects and the functions they can perform such as updating users or creating price lists. These functions and roles are listed in the **Entitlements.xml** configuration file which is read by the Sterling Multi-Channel Selling Solution server on startup. The file comes with several entitlement functions and roles pre-defined (see "Pre-defined Functions" on page 17), but you can customize access by editing this configuration file to create more roles and edit the privileges of existing roles.

Roles are grouped into functions: functions are intended to correspond quite closely to the business functions within an organization: finance, sales, and so on. Each function has a label: the label displays in the browser when you perform user administration.

It is important to distinguish these *entitlement functions* from the *organizational functions* described earlier. Any person in your organization may have one or more organizational functions that they perform to complete their job responsibilities: system administrator, product manager, sales manager, and so on. These may or may not correspond to the entitlement functions defined in the Sterling Multi-Channel Selling Solution.

Consequently, the entitlement functions defined in your implementation of the Sterling Multi-Channel Selling Solution may serve as "umbrella" roles that cover more than one organizational function. For example, to provide them with the proper access, you may need to assign the same entitlement function to the *channel administrator* and the *user administrator*. At implementation time, your system integrators determine appropriate groupings of organizational functions into entitlements functions. These entitlement functions are defined in the **Entitlements.xml** configuration file.

However, note that only those roles present in the access policies and access control lists (ACLs) or in the **Entitlements.xml** file have any effect on the privileges users have. Refer to the *Sterling Multi-Channel Selling Solution Reference Guide* for more information.

Pre-defined Functions

The **Entitlements.xml** configuration file that is implemented with the Sterling Multi-Channel Selling Solution comes with the following pre-defined functions:

TABLE 1. Pre-defined Enterprise Functions

Function/Label	Description of Access
EnterpriseProgramManagement/ Program Management	Includes Pricing, Product, Model, Coupons, Service Contracts, Advisor, and Promotion Management. Also includes reporting, job scheduling, and editing of system properties and business rules.
EnterpriseFinancials/Financials	Includes the ability to remove Credit Holds from Partners, Users and Orders. Also includes the ability to view and edit invoices.
EnterpriseCommerce/Commerce	Includes the ability to create carts, place orders, create quotes and manage service contracts on behalf of customers.
EnterpriseSales/Sales	Includes the ability to work with opportunities and proposals as well as being able to create carts, quotes, and orders.
EnterpriseSalesExecutive/ Sales Executive	Adds the ability to act as sales manager to the EnterpriseSales function. Sales managers assign opportunities to other users and can also work opportunities themselves.
EnterpriseLeadAdministratorSales/ Lead Administration	Can manage leads for the enterprise.
EnterpriseBasicAdministration/ Basic Profile Maintenance	Performs limited user and profile administration at or below their node. Can only assign functions to other users that they have.
EnterpriseAdministration/ Profile Administration	Performs full user and profile administration at or below their node. You must ensure that at least one enterprise user has the EnterpriseAdministration function.

For partners, the following table summarizes their functions:

TABLE 2. Pre-defined Partner Functions

Function/Label	Description of Access
PartnerProgramManagement/ Program Management	Includes Pricing, Product, Promotion Management. Also includes creation of email templates, SKU and availability management.
DirectFinancials/Financials	The ability to view and edit invoices.
DirectCommerce/Commerce	Includes the ability to create carts, place orders and create quotes.
DirectCommerceExecutive/ Commerce Executive	Includes the ability to create carts, place orders, perform order approvals, and create quotes.
Commerce	Includes the ability to create and transfer carts.
DirectSales/Sales	Includes the ability to work with leads and opportunities apart from being able to create carts, quotes, and orders.
DirectSalesExecutive/Sales Executive	Includes the ability to work with opportunities apart from being able to create carts, quotes, and orders.
Sales	Includes the ability to work with leads and opportunities as well as being able to create and transfer carts.
Sales Executive	Includes the ability to work with leads and opportunities apart from being able to create and transfer carts.
PartnerBasicAdministration/ Basic Profile Maintenance	Performs limited user and profile administration at or below the node.
PartnerAdministration/ Profile Administration	Performs full user and profile administration at or below the node.
StorefrontCustomerBasicAdministration /Basic Profile Maintenance	Performs limited user and profile administration at the node. Can only assign functions to other users that they have.
StorefrontCustomerAdministration/ Profile Administration	Performs full user and profile administration at the node.

Managers

Users can be marked as managers. Managers are entitled to navigate to child nodes of their node to perform the same tasks as they can at their own node. They can also view and modify the activity of other users at their node. For example, an enterprise user with the Commerce function and marked as a manager can navigate to a child node in the enterprise hierarchy and view the orders created by EnterpriseCommerce users at the child node.

An enterprise user who is a manager can access all the accounts assigned to their enterprise node and nodes below this node. That is, managers do not have to explicitly draw accounts from the pool of accounts assigned to their node: they can work on any account assigned to their node.

User Statuses

Every user has a status. The status of the user and the profile status of their partner determine what the partner user can do. See "Profile Statuses" on page 5 for more details about partner profile statuses.

The following are the possible user statuses:

- Open: no restrictions on the activities of a user.
- On Credit Hold: users can log in, but they cannot place orders on account. They can still place orders on credit cards.
- On Hold: users can log in, but they cannot place orders.
- Closed: users cannot log in.

When you set a user status to closed, or if their effective status becomes closed because you close their partner, this does not affect the carts, orders, returns, and other objects that the user has been working on. These remain in their current status until another partner user or enterprise user changes them.

Note that only partner users can be assigned the On Credit Hold and On Hold statuses. Only enterprise users with the Financials function can set partner users on On Credit Hold status. An enterprise user can re-open an On Hold partner user, but only enterprise users with the Financials function can re-open On Credit Hold partner users.

Inheriting Status

Each user belongs to a partner, and the effective status of a user is inferred from their user status and the effective status of their partner. For example, suppose that User 1 is a partner user of Partner B and that the effective status of Partner B is

Open. If the status of User 1 is Open, there is no restriction on the activities of the user. If you change the profile status of Partner B to On Hold, then even though you have not changed the status of User 1, their effective status changes to On Hold, and so they can log in, but they cannot place orders.

Suppose that Partner B is the child of Partner A, and that the status of Partner B is Open. If you set the status of Partner A to On Credit Hold, then even though you have not changed the status of Partner B, the effective status of Partner B is inherited to be On Credit Hold. Consequently, the effective status of Partner B users is On Hold, and so they cannot place orders.

The status of a partner overrides the status of a user if the partner status is more restrictive: In the example above, if the status of Partner B is set to Closed, then the effective status of User 1 is also Closed, irrespective of the status of User 1.

User Preferences

Partner users have *user preferences*: these are properties that influence the user experience as they use the Sterling Multi-Channel Selling Solution. In general, users will manage their own preferences through their user profile, but it is possible for their partner administrators to manage preferences for a user.

User preferences include:

- Cart view: offers a choice between a simple and a complex view of each shopping cart.
- Cart mode: offers a choice between a single cart or multiple carts. If a multiple cart user switches his preference to single cart, all his existing carts are hidden.

User preferences are set up as part of the implementation of the Sterling Multi-Channel Selling Solution, and so your installation may have more user preferences.

Administering the Product Catalog

Your product catalog organizes all your products into product categories that reflect the way in which you want to present your products to your customers. Grouping your products into categories can help customers find products quickly.

Products can be of the following types:

- Hard goods: physical products such as cell phones and appliances.
- Soft goods: conceptual products such as software, warranties, service plans, maintenance contracts, and license agreements.

Soft goods can be duration-based, meaning that they are in effect for a specific period of time. For example, a cell phone service plan might have a 2-year duration, or an extended warranty might be valid for a period of 5 years after purchase.

Products may include components of various types. For example, a cell phone product bundle might include the cell phone and a choice of service plans.

Products may include fixed-price gift cards. Storefront administrators enable gift card transactions from the **Commerce** tab of their Organization Profile page by setting up a gift card payment gateway, then enabling gift cards as a payment method. You define gift cards as products in your product catalog in the same way that you define other types of products.

You can define a product as an assembly and provide a parts diagram to help customers learn what your product provides. You can define a product as a service item and provide options to help customers choose the service contract that best meets their needs. You can assign features and resources to products to help product comparison and to provide additional information such as data sheets and product photographs. In addition, you can enable customers to search for products by their product ID, name, and other attributes.

See "Administering the Product Catalog" on page 65 for a complete introduction to the concepts involved in administering the product catalog.

Guided Selling

If your catalog is large or complex, then you want to help customers select products that most exactly meet their needs. Using the Sterling Multi-Channel Selling Solution, you can create a series of pages that interactively ask customers about the sorts of products they are looking for: for example, the usage they plan for the product, the performance characteristics they require, or specific features that they need. As customers respond to these questions, you can ensure that each customer sees only those products that meet their requirements and at any time customers can compare products to see which best fits what they are looking for.

See CHAPTER 4, "Introduction to Sterling Advisor" for a complete overview of Sterling Advisor.

Using the Visual Modeler

Complex products may need to be configured before they can be bought by customers and they have optional components that customers can configure based on their needs. The Sterling Multi-Channel Selling Solution provides the ability for

you to create models that define the configurable options of a product and to associate the products with these models. In doing so, you can provide a seamless experience for customers between selecting and configuring their product selections.

See "Using the Sterling Visual Modeler" on page 82 for a complete introduction to the Visual Modeler and its concepts.

Setting Prices for Products

An integral part of an e-commerce system is to display accurate and up-to-date prices to customers as they select products on your Web site. The Sterling Pricing application provides a graphically intuitive user interface to maintain prices for products through your Web browser. See CHAPTER 19, "Pricing Administration" for the tasks associated with pricing.

All products have a one-time price: the price that the user pays when the product is ordered or shipped. If the product is a service contractible item, there may be additional, or auxiliary, prices as well, such as a monthly fee for a service plan or a charge for a maintenance contract or extended warranty. Product bundles that include both hard and soft goods, such as a cell phone package that includes a service plan, might include a one-time price for the phone as well as auxiliary prices for activation, a recurring monthly service charge, late fees, overage fees, and cancellation charges. Auxiliary prices can be defined during implementation of your Sterling Multi-Channel Selling Solution, before you create the knowledgebase (the preferred method), or they can be added to an existing knowledgebase. See the *Sterling Multi-Channel Selling Solution Implementation Guide* chapter Customizing Sterling Pricing for more information.

Bear in mind the distinction between list prices and extended prices:

- List price: this is the unit price for an item. It does not take into account volume discounts, special pricing rules, or anything else that may affect the price that the user pays.
- Extended price: this is the price that the user pays for a given line item. It depends upon the list price, quantity bought, and pricing rules.

For example, in the following line item, the first price displayed is the list price (\$9.95), and the second price is the extended price.

Product ID	List Price	Quantity	Extended Price
MXWS-1000	\$9.95	120	\$1194.00

The precision to which prices are displayed is controlled by system properties. See "Application Settings" on page 1081 for more information.

Price Lists

The Sterling Multi-Channel Selling Solution uses price lists to manage the access that customers have to products and to display appropriate prices to each customer. A price list is a combination of products and prices. The process for creating price lists is as follows:

1. Create products.

See "Administering the Product Catalog" on page 20.

2. Create the price list and assign products to the list.

Enter basic information about the price list such as effectivity dates, and so on. During creation, you decide which products you want to assign to the price list, depending on criteria such as customer type, and so on. See "To Create a Price List" on page 676.

Each price list has a supplier ID associated to it. The supplier ID is used to determine how price lists are used when calculating the price to be displayed to a user as follows:

- If you associate a supplier ID of "1", then the price list is an *enterprise price list*: it is used to price products when users access the enterprise as direct commerce users.
- If you associate a supplier ID of a partner, then the price list is used to price products if the partner is selected as the supplier of the product, or if a cart is transferred to the storefront of a supplier, or when a storefront customer user logs into the storefront.
- If a product is on price lists that belong to more than one supplier, then no price is displayed until the user has selected which supplier they want to supply the product. Instead, a range of prices is displayed. The user is prompted to select a supplier in order to get a firm price from the price lists of that supplier.

If a partner administrator creates a price list, the supplier ID is pre-populated as a read-only field. If an enterprise administrator creates a price list, then they can accept the default supplier ID which is "1". They can choose to enter the partner key of any partner: if they do this, then the price list is used when the partner is selected as the supplier for a product.

3. Set prices for the products.

You can set the prices by category or by individual product. You can also set special prices by creating special pricing rules for product categories or for individual products. These rules make a price conditional on qualities belonging to a partner or order. See "Conditional Pricing" on page 687.

4. Assign the price list to one or more partners.

This is how you enable customers to see products. When users log into the Web site, they see only the products on price lists associated with their partner. See "To Assign a Price List to a Profile" on page 196.

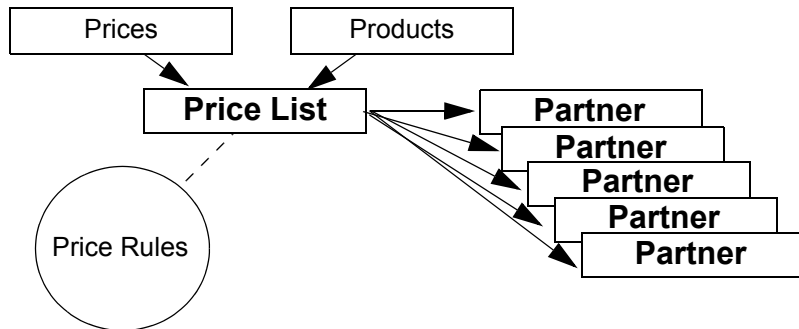


FIGURE 3. Products, Prices, and Partners

Price List Line Item Effectivity Dates

You can set effectivity dates at the line item level. By default, the price of a line item is effective for the effective period of the price list. However, if you override the price list effectivity dates by specifying effectivity dates at the line item level, then you can specify a special price for a particular period. This means that the same product ID can be present more than once on the same price list. If a product ID shows up more than once, then its price is derived by taking the lowest of the effective prices.

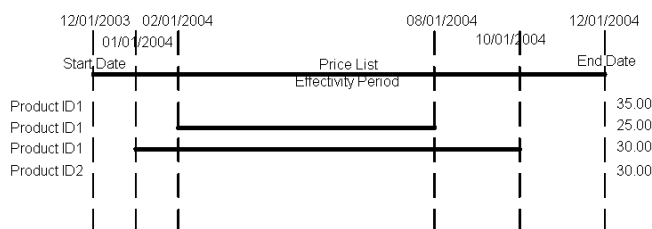


FIGURE 4. Price List Line Item Effectivity Dates

In an example, illustrated by the Figure "Price List Line Item Effectivity Dates" on page 25, a price list is effective from 12/01/2003 through to 12/01/2004. One product ID, ProductID1, is listed three times:

- the first entry defines a price of \$35.00 and does not define effectivity dates and so its effectivity dates are taken to be the same as the price list effectivity dates.
- the second entry defines a price of \$25.00 and effectivity dates from 02/01/2004 to 08/01/2004.
- the third entry defines a price of \$30.00 and is effective from 01/01/2004 to 10/01/2004.

The following table provides prices for ProductID1 on various dates.

TABLE 3. Price List Line Item Effectivity Dates Example

Date	Price
11/15/2003	Price not available from this price list: the price list is not effective
12/02/2003	\$35.00: only the first entry is effective
01/03/2004	\$30.00: the first and third entries are effective and the third provides the lowest price
05/16/2004	\$25.00: all three entries are effective and the second provides the lowest price
09/20/2004	\$30.00: the first and third entries are effective and the third provides the lowest price
11/02/2004	\$35.00: only the first entry is effective

Note that throughout this time period, ProductID2 continues to be priced at \$30.00.

How Prices are Calculated

This section describes how prices are calculated when they are displayed to a user.

1. First, the list of appropriate price lists is determined:
 - a. Start with the list of all active, effective price lists.
 - b. Reduce this set to the price lists that are assigned to the user's partner.
 - c. If the user is shopping at a storefront, reduce this set to only those whose supplier ID is the storefront's partner key.
 - d. Reduce this set by considering only price lists that match the user's current selection of customer type and currency.
2. Using this list, calculate the lowest available price taking into account price list line item effectivity dates and any conditional pricing rules on each price list. If more than one price list contains the same lowest available one-time price for a given supplier and product, then compare the associated auxiliary prices for that product and return the one-time price for that product from the pricelist that contains the lowest associated auxiliary prices.

Entitlement and Pricing

If your company uses its own pricing engine to determine prices, instead of the Sterling Multi-Channel Selling Solution pricing engine, then you can set a business rule to "Entitlement Only" instead of "Entitlement and Pricing". When you set the rule for entitlement only, you still add products to price lists. You still assign the price lists to partners, but only as a means of determining which products the partner is entitled to view and purchase. You do not use the price lists to assign prices to the products since the prices are derived from your company's own pricing engine. See the *Sterling Multi-Channel Selling Solution Implementation Guide* for information about configuring your system to get prices from an external source.

Price Lists and Products

You create and maintain price lists from within the Price List Detail page in the Pricing Administration module. The first step is to populate the list with products. You must decide what kind of products should be included in this list.

You add products to the list by moving through a product hierarchy of product categories and products. You can either select a category and assign all the products to the list, or you can select individual products from the category. When you are done adding products from one category, you can move on to another category, and so on until you have added all the products you want.

The Product List Detail frame (where your selections are displayed) displays one category of products at a time. As you click another category, the frame will refresh itself. If the price list already contains products from that category, then the products will appear in the Product List Detail frame.

Assigning Prices

The previous section described how products are assigned to price lists. Once you have assigned products to lists, you assign the prices to the products. You assign prices in two ways: a default price that applies if none of the conditions are met, and a price applied by determining if certain conditions are met.

Note: The number of decimal places supported by Sterling Pricing is a configurable parameter. See "Setting Prices for Products" on page 682 for more information.

Assigning Default Prices

You assign default prices in the Price List Detail frame using one or both of the following methods:

- You assign category price information. In this case, you assign all the products in the category on the price list the same category price information.
- You assign price information to individual products within each category on the price list.

The price information includes a list price, auxiliary prices (if any), a +/- discount percentage, and a +/- absolute amount. You can use one or both of the above-named methods. For example, an easy way to assign prices might be to assign category price information, then modify individual products in the category as necessary.

Creating Conditional Prices

In addition to the default prices, you can create conditional prices dependent on one or two factors relating to partners or orders. For example, you can set price information that applies only if the partner's membership level is gold and the order quantity is between 5 and 10 units.

You can create rules that apply to all the products on the price list within a product category. You can create rules that apply only to a specific product within a category. You can create multiple rules for a category or product. In a case where a customer satisfies more than one rule, the lowest price applies.

Making Price Lists Available to Customers

Once you have created the price lists, making them available to customers is a two step process. The first step is to make the price list “active” by checking the Active box on the Price List Detail page. Once you have done that, the second step is to assign the price list to one or more partners. "To Assign a Price List to a Profile" on page 196 describes the step-by-step process for making price lists available.

You can assign zero or more price lists to each partner. When a customer belonging to the partner enters your Web site, the price lists determine (a) the products that the customer is able to view and (b) the prices that are displayed when the customer adds products to a cart.

You can assign an inactive price list to a customer. That is, you can assign a price list whose Active box is not checked. Inactive price lists have no effect on the customer's buying experience until you activate them by checking the Active check box.

Each price list has a unique currency associated with it and a unique customer type. Using the price lists, you can determine that not all products are available in a particular currency. Similarly, not all products are sold to a particular customer type.

When a customer first logs in, they are assigned an initial customer type and currency based on their partner. You can let customers change either the currency or customer type or both as they navigate through your Web site. If you do so, then bear in mind that the prices that they see can change.

Making Price Lists Sharable with Child Profiles

If one of your profiles is a parent in a hierarchy of profiles, then you can assign price lists to the parent so that those price lists are automatically assigned to any profiles below the parent in the hierarchy. For example, in Figure 5 on page 29, Partner A is parent to Partner B and Partner C. Partner C is parent to Partner D and Partner E. If you assign a price list to Partner A and mark that price list as sharable, then that price list is automatically assigned to Partner B and Partner C and, in addition, to Partner D and Partner E.

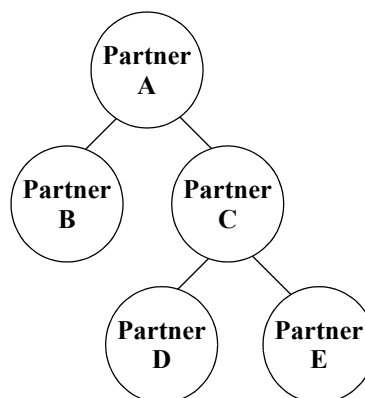


FIGURE 5. Sharable Price Lists

When assigning price lists to the child partner of a parent, you will notice a dollar sign (\$) next to any list that is shared with the parent (and therefore automatically assigned to the child). However, you can still assign that price list to the child and mark it as sharable. This guarantees that the price list will still be assigned to the child (and to its children), even after the assignment is removed from the parent.

Assigning Price Lists to the AnonymousUserPartner

The AnonymousUserPartner is a partner profile that comes predefined with the Sterling Multi-Channel Selling Solution. The existence of this partner enables anonymous users to "log in" and select products. Note that the user does not realize that they have been logged in: this happens invisibly to the user so that session can be maintained as they navigate through the Sterling Multi-Channel Selling Solution.

When an anonymous user logs in, they see prices and products determined by the price lists assigned to the AnonymousUser Partner. If an enterprise administrator changes the assignment of price lists to the AnonymousUserPartner, then the changes take effect immediately. As new anonymous users "log in", they see prices determined by the new assignment. Existing anonymous users, that is users already browsing the product catalog anonymously at the time the assignment is changed, will continue to see the old prices.

Price Lists Managed by Partners

Partner administrators can also create and maintain price lists for any products to which their partner has access. These products include products maintained by the partner (see "Categories and Products Managed by Partners" on page 76) as well as products created by enterprise administrators

Note:	Partner administrators can create price lists, but cannot assign price lists to partners. When a partner administrator creates a price list, it is automatically assigned a supplier ID whose value is the partner key. Only enterprise administrators can assign the price lists to partners. When they have created a price list, partner administrators should notify an enterprise administrator.
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See CHAPTER 9, "Administration Performed by Partner Users" for more information.

Enterprise Master Price List

When you implement the Sterling Multi-Channel Selling Solution, an Enterprise Master Price List is automatically created and automatically assigned to the enterprise. This price list provides prices for reporting purposes, but it can also be assigned to profiles just like any other price list.

Use the Enterprise Master Price List to contain all the products in your product catalog. When you create a new product, or when you import new products into your catalog, add these new products to the Enterprise Master Price List (in addition to any other assignable price lists). Using a single price list also simplifies reporting: you do not have to determine the correct price list to use for reporting purposes.

The currency of the Enterprise Master Price List is referred to as the *Enterprise currency*. If it is being used as the reporting price list, it is used in reports in which values are calculated, but where no currency has been specified.

Determining Currency and Price For A Customer

At any moment that an end-user is accessing the system, the system uses the fact that there is a current currency and customer type associated with the user's session. This combination of current currency and customer type determines the prices that the user sees as they browse the product catalog, as well as the currency and customer type that are associated with a commerce object such as a cart, wish list, registry, and so on, when it is created by the user. A user can change their current currency and customer type at any time from their home page.

The following describes the logic that determines the currencies and customer types that are available to a user:

1. The system retrieves the effective price lists that are assigned to the user's partner.
2. From the list of effective price lists, the system identifies all of the currencies that are on at least one of the price lists, and identifies all of the customer types that are on at least one of the price lists.
3. These currencies and customer types are displayed to the user for selection when the user navigates to their home page or when they wish to change settings in one of their commerce objects.

Note: Some commerce objects do not allow you to change their customer type once they have been created.
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The following describes the logic that determines the currency and customer type that are current when a user first logs in:

1. The system retrieves the effective price lists that are assigned to the user's partner.
2. From the list of effective price lists, the system takes the first price list retrieved and sets the user's current currency and customer type to match the currency and customer type of this price list.

Note: The retrieval of price lists is not fully sorted, and so the identity of the first price list may change from one login to the next.

Shipping Charge Administration and Calculation

You can create and manage rules and coupons to associate shipping charge discounts with cart order total tiers, and to associate shipping surcharges with specific line items within a cart. You access shipping charge administration functionality from the Pricing Administration panel of the home page. You assign shipping charge rules and coupons at the storefront level: the rule and coupon names must be unique within each storefront.

The following types of shipping rules govern shipping charge discounts and surcharges:

- **Shipping Charge Order Total:** these rules operate at the cart level to provide discounts on shipping charges based upon order total. Discounts can be a fixed amount, a percentage, or a flat fee shipping charge. You can

attach the Shipping Charge Order Total rule to customer segments, and specify the shipping types, products, or product categories.

- **Item Shipping Surcharge:** these rules operate at the line item level to associate a shipping surcharge with items with a specified feature. Surcharges apply only to items that are shippable and are not flagged for in-store pickup.

For example, suppose that you want to charge an additional flat fee for shipping oversized items such as refrigerators. You can create a feature type called **Oversized**, then create an **Oversized: refrigerators** feature and associate it with all the refrigerators. When you create the item shipping surcharge rule, you attach the surcharge by selecting the **Oversized: refrigerators** feature.

When the rule applies to a product in the cart, the system multiplies the surcharge by the quantity of the product being purchased and adds the resulting amount to the shipping charge.

Shipping Price Calculation

Shipping rates can be modified by shipping charge rules and coupons, so the Sterling Multi-Channel Selling Solution pricing engine performs the shipping rate calculation separately from the cart pricing calculation after the cart pricing calculation is complete.

The general steps are as follows:

1. Obtain the basic shipping charge:
 - a. If the order is split among several suppliers or the cart/order has no total price, do not calculate a shipping charge.
 - b. Calculate the shippable order total: deduct the extended prices of all line items that are not shippable, or that are flagged for in-store pickup, from the original order total.
 - c. Calculate the displayed shipping charge, which is the value that displays as the shipping cost in the cart. (Other amounts display as adjustments.) Use the order address state to look up the shipping charge percentage. If there is no shipping charge percentage, set the charge to zero. If there is a shipping charge percentage, calculate that percentage of the shippable order total.

- d. Add item-level shipping charges to the displayed shipping charge. Add information about each surcharge applied to the Item Level Adjustments list.

You now have the basic shipping charge.

- 2. Factor in shipping charge rules and coupons.
 - a. Deduct the extended price of all those items flagged as "Not eligible for shipping discounts" from the original order total. This is the order total rule base.
 - b. Calculate the percentage of the order total that the order total rule base represents, then calculate that percentage of the basic shipping charge. The result is the discountable shipping charge. The remainder of the basic shipping charge is the undiscountable shipping charge.
 - c. Determine if any shipping charge order total rules or coupons in the cart are triggered by the order total rule base. If more than one rule is triggered, apply each in turn to the discountable shipping charge to determine which one produces the lowest shipping charge. The resulting lowest shipping charge is the discounted shipping charge. Add the information about the selected rule/coupons to the Order Level Adjustments list.

Note that if there are multiple non-exclusive coupons in the cart, they can be combined, but the coupons cannot be combined with rules. It is possible to use *either* multiple non-exclusive coupons, *or* a single exclusive coupon *or* a single rule, but no other combinations.

- d. Add together the undiscountable shipping charge and the discounted shipping charge. The result is the calculated shipping charge.
- e. Compare the calculated shipping charge with the basic shipping charge obtained earlier. If the basic shipping charge is less than the calculated shipping charge, return the displayed shipping charge plus the Item Level Adjustments. If the calculated shipping charge is less, return the displayed shipping charge plus the item Level Adjustments plus the Order Level Adjustments.

See CHAPTER 20, "Advanced Pricing Administration" for information about shipping charge administration.

Service Contracts

You can create and manage service products using the Sterling Multi-Channel Selling Solution. Service products comprise components that enable the maintenance and tracking of service contracts. For example, a cell phone service product might comprise:

- A cell phone associated with a one-time price.
- A choice of duration-based service plans with options such as the number of anytime minutes, night and weekend minutes, and features such as call forwarding, 3-way calling, text messaging, and music downloads.
- Auxiliary prices for the service plans such as activation fees, recurring monthly service fees, overage and late charges, and cancellation fees.

Products created as service items in the Product Master and associated with a maintenance model are referred to as service contractible items.

Detailed information about service contracts is available in CHAPTER 21, "Managing Service Contracts".

Creating Service Products

The following are general steps for creating service products.

1. In the Visual Modeler, create at least one maintenance model. The maintenance model will be used to manage the maintenance of service contracts after an order has been placed. The service maintenance model may be shared among several service contractible items.
2. Create a product using the Product Master. Check the Service Item checkbox and attach a maintenance model to the product.

Note:	Checking the Service Item checkbox and attaching a maintenance model distinguish service contractible items from other products.
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3. Assign the one-time price and (optionally) auxiliary prices to the product.
You can assign prices using either the **Prices** tab of the Product Master or using Sterling Pricing.
4. Optionally create the selling model in the Visual Modeler. If the product is simple (for example, it does not require configuration by the user) it requires only a maintenance model.
 - a. Create rules and constraints for the service product options, as applicable.

- b. Attach service contract properties to the appropriate model objects. For information about service contract properties, see "Service Contract Properties" on page 720.
 - c. Set auxiliary price types if appropriate. You can also set auxiliary price types using Sterling Pricing. See "Managing Price Lists" on page 676 for more information.
- 5. Associate the maintenance and, if the service product is configurable, the selling model(s) with the service product.
- 6. Make the service product available:
 - a. In the Product Master, assign the Released status and rebuild the product indexes.
 - b. In the Visual Modeler, compile the model.

See "Product Administration Tasks" on page 372 for more information about creating service products. See CHAPTER 19, "Pricing Administration" for more information about assigning prices to products using Sterling Pricing. See CHAPTER 12, "Product Administration" for more information about creating products and assigning one-time and auxiliary prices using the Product Master.

Purchasing Service Products

The following are the general steps for ordering service products.

- 1. The user shops for a product or service such as a cell phone or cell phone service plan.
- 2. In the Configurator, the user chooses options and, when finished, adds the service product to their shopping cart.
- 3. The user clicks Checkout. The order confirmation screen displays. The user optionally edits the header information, then clicks Place Order.
- 4. The cart is turned into an order. After the order passes any interim steps such as credit approval, the state of the order becomes Order Submitted.
- 5. Once the order is in the Order Submitted state, the service contract is generated and the state of the service contract becomes Pending.

One service contract is created for each instance of a service contractible product in the order.

- 6. The service contract remains in the Pending state until at least one service contractible item has shipped.

7. The service contract is submitted to the backend ERP system for verification. After verification is complete, the service contract is placed in the Verify Submitted state.
8. Once the service contract is accepted, it becomes Active. End users and customer service representatives can make changes to the service contract while it is in the Active state.

Accessing Active Service Contracts

End users and customer service representatives can access and, in some cases, make changes to service contracts that are in the Active state. Activities can include:

- Viewing the service contract details or history.
- Modifying service contract contents. The service product modeler may have created rules that restrict the modifications that end users can make to a contract, for example, preventing end users from changing service contract prices or changing the service contract end date or duration.
- Modifying the service contract state. The service product modeler may have created rules that restrict the users who can modify the state of a service contract. For example, only customer service representatives can place a service contract on hold, or reactivate or cancel a service contract.

See "Creating Tasks From Commerce Objects" on page 987 for more information about accessing service contracts.

Administering Service Products

Enterprise administrators can run cron jobs to send email notifications and create CSR tasks for service contracts at certain events:

- The Service Contracts Task Notification job creates a CSR task when a service contract nears expiration. You can configure the number of days prior to expiration that the job should be run. The default is 30 days.
- The Service Contracts Expiration Job searches for service contracts for which the latest end date is past, moves these service contracts to the Expired Submitted state, and updates the header level NextEndDate and FinalEndDate dates.
- The Service Contracts to ERP job retries the transmission of failed service contracts-related messages to the backend ERP system.

Enterprise administrators can recover service contracts from deleted users and transfer service contracts from the Service Contract Workspace Tab.

See CHAPTER 40, "Job Scheduling Administration", for more information.

Sales Contracts

You can create *sales contracts* for your partners. Sales contracts are pre-approved carts which specify prices and quantities for customers. When you create a sales contract, you specify the partner for which it is intended, and users from this partner can make use of the contract while the contract is effective. See "Sales Contracts" on page 1049 for details on sales contract-related tasks.

Workflow to Manage Sales Contracts

The following describes the basic sales contracts management flow:

1. An enterprise user creates a sales contract. Enterprise users must be assigned the Commerce function to be able to create sales contracts. As the enterprise user creates the sales contract, they specify the target partner, and this is saved as part of the header information of the sales contract. The header information also determines the start and end dates for the sales contract, some other contractual information, and the offer expiry date: this is the date by which the partner must accept the sales contract.
2. Having created the sales contract header, the enterprise user then builds up the line items of the sales contract. These comprise product IDs, quantities, and prices. Each line item is a commitment that the designated partner can buy that product ID for the specified price.
3. Once the sales contract is created, the enterprise user submits the contract to the designated partner. The contract is in the Pending state: orders cannot yet be placed from the contract, but the designated partner now has access to the contract.
4. Before partner users can use the contract, it must be accepted by the partner. Only partner users who have been assigned the Financials function can accept contracts. A Financials partner user must accept the sales contract before the offer expiry date. Once a sales contract is accepted it is in the Active state.
5. Once the sales contract has been accepted, then any Commerce partner user from the designated partner can use the contract to create orders.

Product Reviews

End-users can submit product reviews to provide feedback to you and other customers about their experience with a product and its capabilities. End-users must be assigned the Product Reviewer function to write reviews.

A product review comprises:

- Title
- Rating: A numerical rating from 1 (bad) to 5 (good).
- Pros: a summary of what is good about a product.
- Cons: a summary of what is bad about a product.
- Review: a detailed description of the user's experience of the product.

After a user submits a product review, the review is visible to other end-users who view the product's detail page.

Product Review Administrators are enterprise users who are assigned the Product Review Administration function. Product Review Administrators can hide reviews from end-users and reject inappropriate reviews.

Payment Processing and Gift Card and Credit Card Transactions

Sterling Multi-Channel Selling Solution supports credit card and gift card transactions. Storefront administrators define the acceptable payment methods for their storefront and set up payment gateways to handle the transactions.

Consumers can split their payments among multiple payment methods. For example, they can specify one or more gift cards to pay for a purchase, then specify one or more credit cards to cover any remaining amount. Consumers can specify up to seven payment methods. When customers specify a mix of gift cards and credit cards for payment, the payment amount is charged against the gift cards first, then the credit cards.

The customer can check their gift card balance before they submit payment.

The charge sequence is:

1. Gift cards in the order entered, using the available balance of each gift card

2. Credit cards and accounts in the order entered, using the specified maximum charge amount

Note that the maximum charge amount is different from the credit limit on a credit card.

The charge sequence continues until the full value of the order is charged. The last non-gift card specified receives the charge for the balance of the order, even if the balance exceeds the specified maximum charge amount. If the Sterling Multi-Channel Selling Solution handles the credit card authorization and the amount charged on a credit card exceeds the credit card limit, credit card authorization fails.

Payment Gateways

To support credit card and gift card transactions, you must specify the payment gateways to use to process each transaction. Authorization of credit cards and gift cards is processed outside the Sterling Multi-Channel Selling Solution. A payment processor such as CyberSource provides the external service through which the credit card or gift card information is passed to capture transactions and to pass back authorization and transaction codes.

Each partner, including the enterprise and storefront partners, can set up a payment gateway for credit cards and a payment gateway for gift cards. This includes specifying the payment processor, the merchant ID for the partner, and the location of the merchant key (used to identify the merchant with the payment processor). Out of the box, the Sterling Multi-Channel Selling Solution provides the following gift card gateway options:

- None: no gift card payment processor
- Test Gateway: a stub for testing purposes

See "To Set Up a Credit Card Payment Gateway" on page 200 for information about setting up a credit card payment gateway. See "To Set Up A Gift Card Payment Gateway" on page 201 for information about setting up a gift card payment gateway. See the *Sterling Multi-Channel Selling Solution Implementation Guide* for information about creating custom credit card and gift card payment gateways.

Payment Transactions

Enterprise users can review payment transactions, and they can make manual adjustments. See CHAPTER 35, "Payment Transactions" for more information.

Using Carts

Carts

A cart is the basic unit of e-commerce. Customers and partner employees purchase items by placing them into a cart and then either placing the cart as an order or transferring the cart to a storefront for processing or ordering. Multiple items can be placed in a cart, and items can be added and removed from a cart before transferring it. Depending on the capabilities of the distributor site, a cart can be modified on the storefront even after the transfer has occurred.

Customers and partner employees can purchase items by directly adding them from the product catalog to a cart or by selecting items from a wish list, template, or registry and then adding them to a cart.

Each line in the display of a cart is a cart line. *Parent lines* are displayed for items that carry prices whereas *child lines* display subsidiary items. Both parent and child line items are priced for configured products. However, the child line items are not priced for assemblies.

Enterprise users of the Sterling Multi-Channel Selling Solution can view information about the cart activity on their system. By doing so, they can monitor commerce activity on their Web site.

Item List Types

Users can create and maintain the following types of lists of items:

- **Wish List:** A wish list is a list of items that a user wants someone else to purchase for him. A wish list can be shared among users.
- **Template:** A template is a list of items that a user purchases frequently. Templates cannot be shared among users. Users can purchase items only from their own templates and to do so, they must first copy the items to their cart and then place the order.
- **Registry:** A registry is a list of items that a user may want someone else to purchase for him for special occasions, such as the birth of a baby or a wedding. Registries can be of two types: Baby Registry and Wedding Registry. Users can have more than one registry of each type but not more than one active registry of each type at any given time. Registries can be shared among users.

Department Sorting of Items

Customers and partner users can sort the items in a wish list, template, or registry, by the features assigned to the items. To enable this, the enterprise administrator must create features under the Department feature type and assign the features to items. When a user selects **Department** from the **Sort On** drop-down list in the Wish List, Template, or Registry Detail page, the items in the list are sorted according to the features assigned to them. For more information about creating and assigning features, see "Working with Features" on page 786.

Life Cycle of a Cart

A cart goes through the following process during its lifetime.

1. A user creates a cart and places items in it. Once a cart is created it is referred to as an *active* cart.
2. Individual items may be configured while in an active cart. Users can duplicate an active cart to create another cart. You can also delete an active cart.
3. Users can save carts as quotes: the prices saved with a quote are valid for a time that can be configured as part of system configuration. Users can also make requests for price negotiation: that is, they can submit the cart with requested prices to see if one of your customer service representatives approves the request.
4. The user can place the cart as an order. Registered users are asked to verify shipping information, while unregistered (anonymous) users are asked to register.

Serving Promotions

The Sterling Promotions application enables you to serve promotions to customers as they select products for their cart, or as they obtain price and availability information from your site. By associating promotions to products (through their product IDs), you are able to take advantage of "up-sell" or "cross-sell" opportunities that are closely related to products that the customer has selected already. The *promotion administrator* manages all information related to promotions.

Promotions Served by an Enterprise

When your installation of the Sterling Multi-Channel Selling Solution is serving as an enterprise site, it can provide cart functionality for your e-commerce site. Users can create carts in their workspace and place products in their carts prior to

obtaining price and availability information or transferring the cart to a partner or ordering from your site.

You can enhance the cart environment by adding promotions. When a customer adds a product to a cart, the enterprise server can display a "sale" icon next to the item to indicate that a promotion is available for this line item.

Promotions Served by a Partner

When the Sterling Multi-Channel Selling Solution is installed at an enterprise that responds to price and availability requests, it can respond to price and availability requests received from enterprise servers. Typically, the response to the request is a price and availability reply message that provides a price element and an availability element for each line item in the request. You can, however, enhance a price and availability reply message by associating promotions with certain products. When the enterprise site displays the price and availability information to the customer, a "sale" icon indicates that a promotion is available for this line item.

Promotions as Viewed by a Customer

Promotions are served up dynamically: they are not tied to particular pages or templates in the Sterling Multi-Channel Selling Solution. As soon as you create and configure a promotion (by associating it with products), then the promotion is available to be served up to a customer. Similarly, any changes that you make to a promotion can take effect immediately. Alternatively, you may specify a range of effectivity dates so that a promotion is served only for some pre-defined period of time.

In addition, promotion controls are used to determine which promotion(s) (if any) are to be displayed as part of a cart display. Promotion controls associate a promotion with one or more products and determine when a particular promotion is served.

Each promotion is indicated by a "sale" icon next to a product ID in a customer's cart. By moving the mouse over the icon, a small piece of text is displayed describing the promotion.

Clicking the icon opens a new browser window showing the promotion to the customer. The customer can click on **Previous** and **Next** to view additional promotions associated with the products contained in the customer's cart.

In addition, for promotions served by an enterprise server, the customer can click **Add to List** and immediately add the promotion item to the cart. This functionality is available if you have configured the promotion with the optional properties: Add

to List Product and Add to List Quantity. See "To Create or Duplicate a Promotion" on page 765. This button is not available on partner promotions.

Promotions Implementation

A promotion comprises three general parts: promotion content, promotion control, and promotion event.

Promotion Content

The content of a promotion is principally a promotion identifier, the promotion URL or an image file that displays the promotion, and the short description of the promotion.

Promotion Control

Promotion controls are used to determine which promotion is to be displayed in response to a price availability request line item. Each promotion control includes a priority level, a date range, the product with which to associate the promotion, and a flag that indicates whether or not the promotion is enabled.

The Sterling Multi-Channel Selling Solution determines at runtime which promotion, if any should be associated with each line item. The Sterling Multi-Channel Selling Solution selects promotions based on the following rules.

For the Enterprise Site:

1. The Sterling Multi-Channel Selling Solution selects the enabled promotion controls whose Product ID field matches the Product ID of the cart line item, and for which the current date falls within the date range of the promotion controls.
2. The system filters those promotions that do not apply to the customer. The system considers only those promotions that match customers who belong to segments that are associated with the promotion.
3. The system filters out all promotions that do not match the customer's current presentation locale.
4. From these promotion controls, the system selects the promotion(s) with the highest priority.
5. If this choice results in multiple promotions, the system selects one promotion at random from the matching promotions.
6. The Sterling Multi-Channel Selling Solution serves the selected promotion.

Promotion Event

A promotion event is one of the following types:

- A hit is defined as when a promotion is available to be viewed. For example, when a customer add a product to the cart and that product has a promotion associated with it, a promotion icon appears with the line item.
- A view is a promotion event where the customer clicks on the promotion icon next to a line item in either a cart or in Sterling Advisor and actually displays the promotion.
- An Add to List promotion event involves a customer clicking **Add to List** in the promotions window.

For an implementation of the Sterling Multi-Channel Selling Solution installed at a partner site, a promotion event is created each time a promotion is served in a price and availability reply. Principally, this comprises the date, the identity of the recipient of the promotion, and the promotion identifier.

Customer Service

Customer service representatives are enterprise users that have been assigned the EnterpriseCommerce function. This function is designed to let enterprise users help customers with tasks such as placing orders, modifying or cancelling orders, requesting returns, and approving submitted quotes.

Note that enterprise users can be assigned this function in addition to other functions too, and so, for example, it is possible for an enterprise user to act as both a profile administrator and as a customer service representative.

Once a customer has placed an order, the customer service representative monitors order activity and monitors any line item returns and evaluates them as necessary.

Order Management

Customer service representatives can create carts and place orders on behalf of customers. Once a customer has placed an order, the customer service representative can display and modify information about the order. This includes line item information (such as quantities and prices), service contract information, and addresses. For example, the original order quantity might have warranted a price break; a change in quantity might mean the price break is no longer relevant.

The representative can also define specific information for a line item, for example a shipping address for a specific line item. The customer service representative can add line items to an order. See CHAPTER 29, "Customer Service" for a description

of the tasks. The customer service representative can also view the history for the line items on a specific order.

Sometimes customers are unable to place orders for products, for example, their computer system is down. Customer service representatives can create orders on behalf of registered users. From the Sterling Multi-Channel Selling Solution home page, they can see the products, price lists, address books, and so on, from the standpoint of the customers for whom they are creating the orders.

Account Management

You can manage customer service representatives and their managers so that each customer service representative manages a specified set of partners, known as their accounts. Before a user at a node of the enterprise hierarchy can be assigned an account, the account must be assigned to that node. Customer service representatives can assign themselves accounts from their available pool of accounts or they can be assigned accounts by their manager.

When a user is assigned an account, they can view the commerce activity of all users who belong to the account. If they have the appropriate functions (such as Finance and so on), then they can view the corresponding activity, such as invoices and so on, of all their account users. However, if they have not been assigned the account, then they cannot see this activity.

Managers at an enterprise node can automatically see all of the commerce activity of account users of accounts assigned to that node, but other enterprise users can only see the activity if they have been explicitly assigned the account. By default, all partners are assigned to the root node of the enterprise hierarchy. Consequently, any manager at the enterprise node can view the commerce activity of any partner.

Returns Management

Whenever a customer returns items from an order, the Sterling Multi-Channel Selling Solution has internal rules that decide automatically whether the return request will be approved or not. Where a decision cannot be made automatically, the customer service representative can access a list of return requests and review the return requests manually. See CHAPTER 29, "Customer Service" for a description of the tasks.

Quotes Management

When partner users create a cart, they can either place the order with the prices as supplied by the price lists, or they can enter their own, requested prices and submit this for price negotiation.

The customer service representative can display a list of quotes, and view the submitted quote detail. The customer service representative can reject the requested prices, or they can modify the quantity and price as necessary and then accept the quote, at which point the quote becomes an orderable quote that can be turned into an order. Once the submitted quote has been converted to an orderable quote, the end user can either remove the quote or convert the quote to an order.

See "Working with Quotes" on page 894 for the tasks involved.

Service Contracts Management

Service contracts provide the means for tracking and managing duration-based items such as license agreements, maintenance agreements, service agreements, and warranties. After a customer buys a product that is associated with a duration-based item, both the customer service representative and the customer can view the details of the service contract, its history, and, if the service contract is active, modify it. The customer service representative can also place the service contract on hold (suspend service), re-activate the service contract, and extend an expired contract.

See "Creating Tasks From Commerce Objects" on page 987 for a description of the tasks.

Invoice Management

Invoices are created by posting XML messages to the Sterling Multi-Channel Selling Solution. See the *Sterling Multi-Channel Selling Solution Implementation Guide* for information about how to implement invoice management. CHAPTER 37, "Invoice Administration" covers all the enterprise tasks associated with invoice management and "Invoice Administration by Partners" on page 281 covers the partner tasks associated with invoices.

Each invoice may or may not be associated with an existing order in the Sterling Multi-Channel Selling Solution. If there is an associated order, users can view the invoice from the order page and can navigate to the order from the invoice (if their entitlements permit this: see "Access to Invoices" on page 47).

A single order can have more than one associated invoice: for example, the enterprise may generate one invoice for each line item in an order.

Two groups of users work most closely with invoices:

- Financials enterprise employees: these users work for the enterprise and are responsible for ensuring that invoices are paid by their customers and

that disputes regarding invoices are handled quickly. These users can view and modify all invoices in the Sterling Multi-Channel Selling Solution. Typically, these users are referred to as accounts receivable users.

- Financials customer employees: these users work for partners of the enterprise and are responsible for ensuring that invoices are paid by the customers and to initiate any disputes regarding the payment of invoices. These users can view and modify all invoices owned by users that belong to their partner. Typically, these users are referred to as accounts payable users.

Invoice Statuses

Each line item of an invoice has two statuses: the customer's view of the status, and the enterprise's view of the status, as shown in the following table.

TABLE 4. Invoice Line Item Statuses

Customer Status	Enterprise Status
New	New
Paid	Payment Received
Disputed	Disputed

The entire invoice has a status that provides a summary of the line item statuses, as shown in the following table:

TABLE 5. Invoice Status

Invoice Status	Combination	
	Customer Status	Enterprise Status
New	New	New
Partially Paid	Paid, but not for all lines	Payment Received, but not for all lines
Paid	Paid for all lines	Any
Disputed	Disputed on at least one line	Any

Access to Invoices

Invoices created in the Sterling Multi-Channel Selling Solution can be viewed by appropriate users of both customers and the enterprise, as described in this section.

Invoice Ownership

- The ownership of invoices associated with an order in the Sterling Multi-Channel Selling Solution is inferred from the associated order.
- The ownership of invoices not associated with an order in the Sterling Multi-Channel Selling Solution is set to the user key of the ERPAdministrator user (used to authenticate the inbound post). Enterprise Financials employees can view and modify the invoice, but no customer users can view or modify the invoice.

Viewing and Modifying Invoices

The owner of an invoice can always view an invoice.

Financials employees of the customer may view an invoice to verify or modify its customer status at the enterprise or to contest some aspect of its payment.

Financials employees of the enterprise may view any invoice for any customer to verify or modify its enterprise status or customer status.

Credit and Debit Memos

You can associate *memos* with invoices: these are financial adjustments to invoices. Typically, you use these to record changes made to invoices as a result of negotiations made between invoice parties (the enterprise and the partner to whom the invoice has been submitted).

A credit memo is used to reduce the amount owed on an invoice. A debit memo is used to increase the amount owed. See "Memo Administration" on page 1073 for more information on the tasks associated with invoice memos.

Leads Management

You can manage sales leads that become available to your company. Using Sterling Leads, you can create a lead and assign the lead to one or more of your partners as well as possibly to your own sales team. Using the Sterling Multi-Channel Selling Solution, sales representatives work the lead and can convert their opportunities into orders. CHAPTER 30, "Sterling Leads" covers all the tasks associated with lead management and "Opportunity Administration by Partners" on page 264 covers all the tasks associated with opportunities.

Users must be assigned the Sales function to work as sales representatives. Users must be assigned the SalesExecutive function to work as sales managers: that is, to delegate opportunities to other sales representatives.

Opportunity

When an enterprise lead administrator creates a lead (see "To Create a Lead" on page 989), they provide contact information (such as the contact's name, address, and so on) and they can indicate what products the contact is interested in. Having created the lead, the lead administrator can assign the lead to one or more partners: each partner is free to work the lead as they see fit. It is also possible to assign a lead to the enterprise partner: this gives enterprise sales managers and sales representatives the opportunity to work the lead.

When a lead administrator assigns a lead to a partner, an opportunity is created. An opportunity contains all the contact information from the lead and the list of products that the contact has expressed interest in. Partner users work on opportunities as follows:

- First, the partner sales manager accepts the opportunity.
- The sale manager then delegates the opportunity to one of their sales representatives.
- Then the sales manager or delegated sales representative works on the opportunity. When a partner sales representative works on an opportunity, they do not change the lead itself, only their opportunity copy of it.

The enterprise lead administrator can view partner activity for each lead by viewing each of the opportunities generated from the original lead. One opportunity is created for each assignment of a lead to a partner, and so if a lead is assigned to five partners, then five opportunities are created. Each of the partner sales representatives who works on an opportunity cannot see the other opportunities for that lead and so they work independently of each other.

Functions

The following entitlement functions are relevant in lead management:

- `EnterpriseLeadAdministratorSales`: this is an enterprise function. Enterprise users assigned this function can create leads and assign leads to partners (including the enterprise itself).
- `EnterpriseSalesExecutive`, `DirectSalesExecutive`: these functions can be assigned to enterprise and partner users. Users with these functions are responsible for accepting or declining opportunities that are assigned to their partner and for delegating opportunities to other partner users who have been assigned the Sales function.

- EnterpriseSales, DirectSales: these functions can be assigned to enterprise and partner users. Users with these functions can be delegated opportunities and work with them to create proposals and orders from them.

Contacts

When a lead is created by the lead administrator, they enter contact information for the person represented by the lead. Each lead must have at least one contact. When a lead is assigned to a partner, the contact information is passed to the opportunity, and so a partner sales representative can contact the contact person to ascertain more precisely the person's needs.

More than one contact can be associated with a lead. One of these must be designated as the primary contact, and in lists of leads or opportunities this is the name that is displayed for each lead. If you delete the primary contact, then the first of the remaining contacts is made the primary contact.

Proposals

When a lead is created by the lead administrator, a cart is created with the lead: the lead administrator can choose to add products to the cart to indicate the products that the contact is interested in. This cart is known as a *proposal*. When a lead is assigned to a partner, an opportunity is created: this is a copy of the lead created by the lead administrator, and it contains a copy of the proposal as it was created by the lead administrator.

When a sales representative works on an opportunity, they can use the associated proposal to add (or remove products) and to make adjustments to the prices of products as they think appropriate for their sale. The sales representative can also make new proposals associated with the same opportunity, or they can create a new proposal which is associated to a new opportunity, not an existing one.

When a sales representative wants to show a proposal to a contact, they can use proposal templates to determine the look-and-feel of the proposal. Templates are XSL files that can be used to transform an XML representation of the proposal into an HTML page or PDF file. See "Print Templates Tab" on page 234 for a description of how partner administrators can maintain proposal templates.

Proposal Template Format

The format of a proposal template must be a valid XSL file. It must be capable of generating a valid PDF file from the XML representation of a proposal. See "Proposal Templates" on page 1121 for an example proposal template.

Assigning Functions for Managing Leads

As described in "Managing the Sales Channel" on page 3, the Sterling Multi-Channel Selling Solution has a function called *EnterpriseLeadAdministratorSales*. The person who manage functions in your enterprise assigns the function of *EnterpriseLeadAdministratorSales* to the person responsible for managing leads. This function gives this person, the *Enterprise Lead Administrator*, access to the Sterling Leads application, including full capability for managing leads on the enterprise server.

As described in "Partner Users" on page 4, the enterprise *channel administrator* user creates, for each partner, a *partner administrator* user. This partner user usually creates the other partner users for their partner.

- For each partner, the partner administrator can assign the SalesExecutive function to one or more of their partner users. This partner user becomes the *partner sales manager*: this user is responsible for accepting or declining leads assigned to the partner by the enterprise. Once they have accepted a lead, then they can delegate the opportunity to one of their sales representatives.
- The partner administrator can assign the Sales function to one or more of their partner users: such users can have opportunities delegated to them, and they can work the opportunities to create proposals and turn them into orders.

Creating the Leads through the User Interface

As sales and marketing activities (that is, phone calls, trade shows, and so on) generate sales leads, as *Enterprise Lead Administrator*, you add these sales leads to Sterling Leads. As described in "Creating and Modifying Leads" on page 989, you can either create the leads manually, with the user interface, or you can upload the leads from a file. See "Uploading Leads Using an XML File" on page 52 for information about uploading leads.

When you create the leads manually, you enter such general information as the territory and customer type to which the lead belongs. You can also define the partner type (distributor, OEM, etc.) and partner level (platinum, gold, and so on) to which the lead should be assigned. When you assign leads automatically (see "Assigning Leads" on page 52) or when you want to display only recommended partners, the Sterling Multi-Channel Selling Solution uses this information to determine the recommended partners.

Uploading Leads

You can upload leads as described in:

- "Uploading Leads Using an XML File" on page 52

The Automatic assign uploaded leads to their fixed recommended partners business rule determines whether uploaded leads are automatically assigned to partners. See "Automatic assign uploaded leads to their fixed recommended partners" on page 1086.

Uploading Leads Using an XML File

You can create leads by uploading them using an XML file. The XML file must conform to the DTD provided by **debs_home/Sterling/WEB-INF/dXML/4.0/LeadCreateListRequest.dtd**. See "To Upload a Lead" on page 992 for the steps you perform to upload the file. Before uploading the file, the Job Scheduler Message URL system property must be set to point to the Sterling Multi-Channel Selling Solution. See "Job Scheduler Settings" on page 1078 for more information.

You must provide authentication information in the XML file by entering your username and password in the UserLogin and UserAuthenticator elements respectively. If the XML file is invalid, then an error message is displayed.

Assigning Leads

Once the leads have been added to Sterling Leads, the leads are assigned to one or more of the enterprise's channel partners and optionally to the enterprise partner. This can be done manually, or it can be done automatically by setting a business rule (see "Recommended Partners and the Business Rule" on page 53).

You can do automatic assignment when you assign multiple leads simultaneously from the Leads Management List. You select the leads from the list, then click a browser button to perform automatic assignment. Sterling Leads uses the business rule setting to determine the recommended partners for assigning the lead.

Note:	Recommended partners must also have a <i>SalesExecutive</i> function assigned to one of their partner users.
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As described in "Assigning Leads" on page 1004, you have several options when assigning leads manually. You can assign them on a lead-by-lead basis when you create or modify the lead, or you can assign multiple leads simultaneously from a list of leads. You can choose from among all the partners, or you can click a browser link that enables you to choose only from recommended partners determined by a business rule setting.

Recommended Partners and the Business Rule

When you assign leads automatically, or when you want to show only recommended partners, Sterling Leads uses the business rule setting to determine the recommended partners. See also "Lead Management Recommended Partner Search Attributes" on page 1086.

The business rule works this way. When you set the rule, you can choose one to four attributes (partner type, partner level, territories, and customer type) to use when recommending a partner to a lead. You can also choose to use none of the attributes. Each lead is assigned these attributes when the lead is created. Each partner is assigned one or more of these attributes when the partner is created in Sterling Profile Manager (see "Managing the Sales Channel" on page 3). The system recommends (or automatically assigns) a partner to a lead whose attributes (as defined in the business rule) match the same attributes in the lead.

For example, suppose the business rule is set to use partner type and territories when recommending partners. A lead is assigned the attributes OEM (as partner type) and North America (as territory). When you request to display only recommended partners, only partners that have the partner type "OEM" *and* the territory "North America" will be displayed (not one *or* the other). Likewise, when you are doing automatic assignment, the system automatically assigns the lead only to partners that have the partner type "OEM" **AND** the territory "North America".

Working the Leads

A *Partner Sales Manager* can accept or decline the opportunities assigned to their partner by an *Enterprise Lead Administrator*. The *Partner Sales Representatives* work with the contacts to determine which products the contact is interested in. The *Partner Sales Representatives* can browse the product catalog, or search for products, just as if they were filling a cart.

Converting Leads to Orders

When a *Partner Sales Representatives* has worked with the contact to select the desired products, the *Partner Sales Representatives* can click a button that converts the proposal to a an order.

Closing a Lead

At some point, the *Partner Sales Manager* will close the opportunity. An *Enterprise Lead Administrator* can view partner activity for a lead and notice when an opportunity has been closed. At this point, the *Enterprise Lead Administrator* can choose to close the lead on the enterprise side.

Customer Segmentation Management

Customer segments are storefront-specific groups of users and/or organizations that share certain attributes or behaviors. Segment definition enables you to target marketing campaigns directly to the users who are most likely to be interested in the products or promotions, and to assign special pricing rules or coupons to products offered in segment marketing campaigns.

Users who are members of a particular segment share attributes that you specify, such as income and education level, interests, or place of residence, as well as certain behaviors, such as buying particular types of products. You create marketing campaigns to target specific customer (or market) segments and set prices that apply to those segments.

Segments and segment names are storefront-specific and are not shared among storefronts.

Segment Administration and User Functions

You access the Segment Administration page from the home page. Your user function within the Sterling Multi-Channel Selling Solution determines the segmentation-related information you can access. You must be a storefront administrator assigned the Marketing Manager - Segmentation function to be able to see the Segment Administration panel on the home page.

Segment Administration Tasks

Segment administrators perform the following tasks:

- Create segments
- Delete segments
- Copy segments
- Check where segments are used
- Update segment status
- Define segment criteria based on user behavior, user attributes, or fields in user profiles
- Enter the behavioral criteria to use to process a segment and determine its membership
- Manage segment configuration options such as the number of users to show in the segment processing results

- Combine segments to create composite segments
- Upload lists of users to define segment membership
- Process segments and examine segment membership to check the results
- Publish a segment to a production system
- Import and export segments

How Segments Apply to Users

A marketing activity applies to a given user if the user belongs to the user list of a segment that is associated with the activity.

After you define a segment, you submit the segment definition for processing. Segment calculation scripts resolve the criteria into a list of users. The result must be published to a production system so that it is available for use in marketing activities. Segment membership calculation and publication are generally handled as batch processes to minimize performance impacts.

As users register for your site, become active or inactive, or change attributes in their user profiles, they may fit criteria for new segments or become ineligible for membership in certain segments. Segment re-calculation at regular intervals keeps your user list current. You can set the frequency with which to re-calculate the membership of a segment.

There are situations in which users become eligible or ineligible for segment membership between calculation intervals. The system handles such situations as follows:

- If a user belongs to an active segment at the time of segment membership calculation, but afterwards becomes ineligible for the segment, the user continues as a member of the segment until the next time membership is calculated.
- If a user becomes eligible to belong to a segment because of a change in the circumstances or behavior of the user, or because the user or the segment is new, the user is not added to the segment until the next time membership is calculated.
- When a new user registers on your e-commerce site, the registration process determines the segments to which that user belongs. The user has immediate access to the promotions, pricing rules and coupons to which she is entitled.

See CHAPTER 10, "User Attributes Administration", for information about creating and managing user attributes. See CHAPTER 11, "Customer Segment Administration", for information about administering and managing customer segments.

Campaigns Management

The Sterling Campaigns module enables you to create email marketing campaigns to send targeted email messages to specific lists of recipients. You can create the lists of recipients by associating mailing lists with campaigns. You create mailing lists by uploading email addresses and their associated information from files or by associating one or more customer segments with a mailing list.

The email messages are created through the administration UI and are scheduled for delivery using a cron job. See CHAPTER 31, "Sterling Campaigns" for more information.

Campaigns and Locales

When you create a campaign, you specify its content as an HTML page that is sent to recipients. You can create an HTML page for each locale supported by the Sterling Multi-Channel Selling Solution. When the campaign is executed, users receive the appropriate HTML page based on their preferred locale.

Recipients are already users defined in the Sterling Multi-Channel Selling Solution. They all have a preferred locale defined in their user profile and this is what is used to determine which HTML page is used.

Recipients whose email addresses are uploaded in files may or may not have a locale specified in the file. If they do, then this locale is used to determine which HTML page is used. If they do not, then they are assumed to have the default system locale as their preferred locale, and so they are sent the HTML page for the default system locale, if one has been defined.

Mailing Lists Management

The Sterling Multi-Channel Selling Solution provides the ability to create and manage mailing lists to be used in marketing campaigns. You create mailing lists either by uploading a file containing a list of email addresses and associated information, or by associating one or more customer segments with the mailing list. See "Mailing Lists" on page 1022 for more information.

Program Management and Payment Accounts

The Sterling Multi-Channel Selling Solution provides the capability to manage marketing programs using MDF and Co-op funds. Enterprise channel executives (enterprise users assigned the Channel Executive function) can create programs and activities associated with the programs, and then enterprise account managers can assign the programs to some all or all of their accounts. See CHAPTER 32, "Sterling Partner Programs" for more information about these tasks.

Partners who are assigned programs can participate in their assigned programs by initiating activities as described in the program's marketing plan. They can make requests for funds by submitting pre-approval requests for activities, and then claims once they have completed the activities. For example:

1. A partner is assigned a program. The partner's marketing manager looks at the program activities, decides which activities to perform, and submits a preapproval request for each activity.
2. The enterprise marketing manager or channel executive reviews the preapproval request, determines how much money should be allocated to the request, and allocates funds from the partner's account to the preapproval. This puts the funds on hold so that they cannot be assigned to other claims or preapproval requests.
3. Once the request is approved, the partner's marketing manager performs the marketing activity. Once the activity is complete, the marketing manager submits a claim against the preapproval request for all or part of the funds.
4. The enterprise marketing manager or channel executive reviews the claim and allocates funds to it, reverses the hold on the amount of the claim, and places the claim amount on hold for that claim. If the claimed amount is less than the preapproved amount, then the balance of the preapproved amount remains on hold. The amount allocated may be different from the amount submitted for the claim.

See "Program Administration by Partners" on page 283 for more information.

Each partner has payment accounts for MDF and Co-op funds: these are maintained through the partner profile for the partner. You can add and remove funds from these accounts to manage activities undertaken by your partners, and claims made against activities can be used to remove funds from accounts as the claims are made.

Programs

A program represents a general marketing plan such as the launch of a new product. Typically, a program may have several associated activities such as press releases, print campaigns, direct mail, and so on that your partners can undertake.

A program has a start date and an end date that determine within which time the associated activities must take place.

A program can be assigned to one or more partners. When you assign a program to a partner, you make it possible for the partner to start making claims against their payment accounts for activities.

Activities

An activity is a specific component of a program. A program can have one or associated activity. When a partner participates in a program, they do so by undertaking one or more of the activities that make up the program, and they make claims against the activities as they plan and execute the activities.

Payment Accounts

An essential part of program management is to manage the funds that partners can spend on their program activities. The Sterling Multi-Channel Selling Solution enables you to create payment accounts for each partner: each payment account is of MDF type or Co-op type, and you can create more than one payment account of each type for a partner.

When a marketing executive partner user makes a claim against a program activity, the money must be allocated by the enterprise channel executive from one or more of the partner's payment accounts.

Co-op Accounts

Co-op accounts can be denominated in a currency such as US dollars, or you can choose to use points as a virtual currency to manage them. All Co-op accounts for all partners are denominated in this currency. You can upload updates to the Co-op accounts which result in more funds being assigned to the accounts. When you do so, the Co-op Percentage and Co-op Account Maximum fields in the partner profile are used to calculate by how much the account is increased.

The CoopAccountsUsePoints business rule is used to specify this: set the value of this rule to "True" to use points, otherwise set it to "False".

Approval Requests and Claims

The process of making a claim is a two-step process:

1. Approval Request
2. Claim

Approval Request

When a partner is planning an activity that is part of a program, they consider the anticipated costs, and decide whether to make a full or partial claim against a payment account. If they choose to do so, then they must first submit an approval request against the activity.

The approval request is submitted to the enterprise and a channel executive can choose to approve or deny the request. If they approve the request, then funds are deducted from the available balance of one or more payment accounts: the channel executive can choose how to allocate the approved request across one or more payment accounts. If the approval request is denied, then no claims can be made against the request, but a new request can be submitted.

Claim

Once a partner has had an approval request approved and has completed the corresponding activity, they submit a claim against the approval request. The channel executive can choose to approve or deny the claim. If the claim is approved, then the channel executive specifies how the funds should be deducted from the payment accounts.

Task Management

You can create tasks for yourself and colleagues: these are the jobs that you might think of as being on a "to do list". You can create a task manually or some tasks are generated by the system when a particular event occurs, such as a user placing an order that exceeds their account limit. CHAPTER 36, "Task Management" covers all the tasks associated with task management.

When a task is first created, you can associate a list of "watchers" to the task. Watchers can view the task, and if they want to, can take ownership of a task. Once a watcher has taken ownership of a task, then they can perform associated actions such as approving the associated order. The task owner can mark the task as completed.

Sometimes a task can involve two or more people. Once a task owner has completed their part of a task, they can re-assign the task to another user. This user becomes the owner of the task, and then they can work on it: either to complete the task or to work on it and then to pass it on.

Inventory and Demand

Maintaining enough inventory to meet demand is an important part of business. Being able to forecast that demand enables you to maintain the right amount of inventory. The Sterling Multi-Channel Selling Solution provides you with the tools to track your partners' inventory and to forecast demand.

Reseller Forecasting

Enterprises can make use of the Sterling Multi-Channel Selling Solution to forecast demand for their products through their sales channel. By requiring resellers to submit periodic forecasts, the enterprise can aggregate these demand signals to gain a clear picture of future demand.

Resellers can submit forecasts in the form of a tab-delimited text file through their browser interface to the Sterling Multi-Channel Selling Solution. Resellers can create these tab files using a text editor or by exporting the data from a database or a spreadsheet. If the reseller uses a spreadsheet, they must first save the spreadsheet as a CSV file before uploading the file to the Sterling Multi-Channel Selling Solution.

In general, the enterprise is responsible for specifying when forecasts should be submitted by their resellers. This release supports the submission of quarterly forecasts.

Internationalizing the Sterling Multi-Channel Selling Solution

The Sterling Multi-Channel Selling Solution is an internationalized product: the user interface can be localized and displayed in multiple languages.

You can set a default system locale to specify the language in which to display information across the user interface. This locale takes effect after you restart the servlet container. For more information, see CHAPTER 38, "Enterprise System Administration". You can also set a preferred locale for each user in their user profile. The locale takes effect the next time the affected user logs in.

The locales are defined using ISO-639 language codes and ISO-3166 country codes. You can define the names that will be displayed for these codes for each locale throughout the Sterling Multi-Channel Selling Solution. See "Locale Settings" on page 1077.

By default, the Sterling Multi-Channel Selling Solution performs a binary sort for all database operations. You can localize this sort according to the system locale or the user-specified locale, whichever is in effect, by setting the "Use Localized Sorting" property in System Administration to "true" (see CHAPTER 38, "Enterprise System Administration").

Franchise Model and Suppliers

This release supports a franchise model of doing business: in this model, your enterprise may not be the supplier for all the products that are sold on your e-commerce Web site. Instead, you can specify that certain partners in your system are suppliers for products: when customers start to place an order at your e-commerce Web site, the order is broken into subsidiary orders: one for each supplier of products in the cart: this is the *order-brokering* process.

You can associate suppliers to each product, so that when customers buy products from your Sterling Multi-Channel Selling Solution, their orders are split up and sent to each supplier as orders that should be fulfilled by them. In this model, the following features are supported:

- suppliers: every partner created in the system can be used as a supplier. In general, think of suppliers primarily as storefront partners and external partners capable of processing messages notifying them of the creation of an order.
- products: you can associate a supplier to a product by adding the product to a price list owned by the partner. When orders are placed, this product and any others associated with the same supplier are split into an order that is sent to the partner.
- price lists: every price list has a supplier ID associated with it. The supplier ID is used to determine if the price list is used to price products as follows:
 - Every price list is used in determining prices that users see as they shop at the enterprise. If price lists that belong to more than one supplier all have the same product on them, then a range of prices is displayed to the user, and the user must select a supplier from those that offer prices on the product.

- Price lists whose supplier ID is set to the value of a Partner.com or storefront partner are used when a user obtains prices from the partner or when a storefront customer is shopping at the storefront partner.

Enterprise administrators can change the value of price list supplier IDs at any time. If a partner administrator creates a price list, then the supplier ID is set automatically to the partner key of the partner administrator and it cannot be changed by the partner administrator.

Configuring the Sterling Multi-Channel Selling Solution

The properties of the Sterling Multi-Channel Selling Solution are defined in a set of configuration files and in the Knowledgebase. When the servlet container is started, the Sterling Multi-Channel Selling Solution loads and accesses the configuration files in order to determine Sterling Multi-Channel Selling Solution settings. (See the *Sterling Multi-Channel Selling Solution Implementation Guide* for more information about the configuration files.)

System properties for each enterprise (tenant and storefronts) are managed in the CMGT_SYS_PROPERTIES database table; for each storefront default values are populated when the storefront is first created. When a system property is changed through the Web UI, then the new value is stored in the table.

After implementation, you can modify the settings using the System Administration page and the Business Rules Manager.

Site System Administration

Site system administration is performed by site system administrators. Site system administrators access the Sterling Multi-Channel Selling Solution through the site administration URL, which is of the form:

```
http://server:port/Sterling/en/US/enterpriseMgr/admin
```

The default login ID is admin, password admin. Site system administrators manage properties that are common to all storefronts, such as logging. See CHAPTER 41, "Site System Administration" for more information.

Enterprise System Administration

Enterprise system administration manages enterprise-level (either tenant or storefront) settings in the Sterling Multi-Channel Selling Solution. For example, you can specify the email settings in the System Properties page.

You can only modify system configuration settings if you have the appropriate access role. In the reference implementation provided with the Sterling Multi-Channel Selling Solution, only users with the Program Management function can access the System Administration pages. These users access the Sterling Multi-Channel Selling Solution through an enterprise administration URL which is of the form:

```
http://server:port/Sterling/en/US/enterpriseMgr/matrix
```

Enterprise system administrators manage properties that are specific to their enterprise: changes that they make do not affect other enterprises. See CHAPTER 38, "Enterprise System Administration" for more information.

Business Rules

Business Rules define the behavior of the Sterling Multi-Channel Selling Solution. For example, this includes punchin and punchout specifications, the behavior of imports and exports, cluster configuration, and other product management specifications. These business rules are specified in the properties files of the Sterling Multi-Channel Selling Solution, and are managed through the business rule administration interface. See CHAPTER 39, "Business Rules Administration" for the tasks involved in Business Rules management.

Job Scheduling

You can create cron jobs for different activities in the Sterling Multi-Channel Selling Solution. There are storefront-level and enterprise-level cron jobs. Each storefront manages its own set of cron jobs. Only enterprise administrators can manage the enterprise level cron jobs. See CHAPTER 40, "Job Scheduling Administration" for more details.

You can schedule system-level or application-level cron jobs to run according to a specific frequency between a certain date and time range.

Note:	When a job is run using the Job Scheduler, its execution status is recorded. On occasion a job may execute successfully but the status is recorded as "Timed Out".
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Introduction to Product Administration

This chapter provides a detailed description of the concepts involved in product administration in the Sterling Multi-Channel Selling Solution. This includes:

- "Administering the Product Catalog" on page 65
- "Product Entitlements" on page 77
- "Managing Availability Information" on page 79
- "Displaying the Product Catalog" on page 81
- "Using the Sterling Visual Modeler" on page 82

Administering the Product Catalog

The Sterling Product Manager provides a central location for creating, maintaining, and managing product information in the Sterling Multi-Channel Selling Solution. CHAPTER 12, "Product Administration" describes the tasks associated with managing the product catalog.

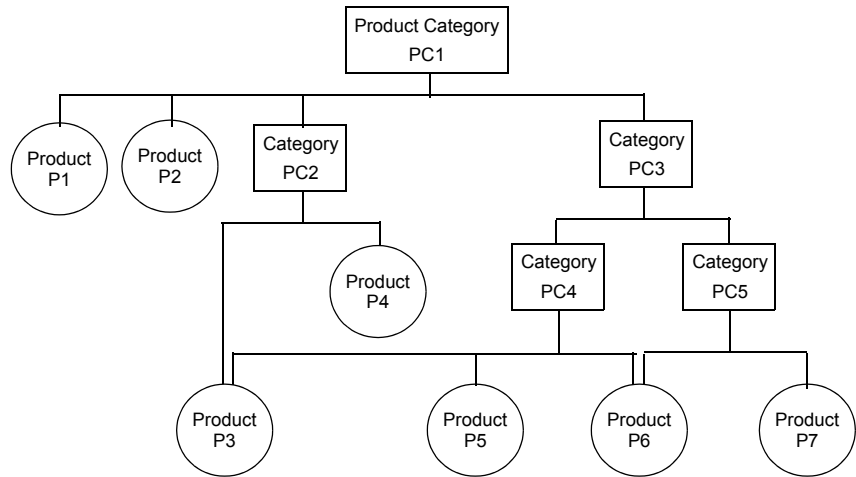


FIGURE 6. Categories and Products

Categories and Products

The basic structure of the Sterling product catalog consists of product categories and products. A product category is a collection of products with similar attributes. A product identifies a uniquely purchasable item within a category. Each product has a unique product ID: this must be unique in the Sterling Multi-Channel Selling Solution. Some characters are not allowed in product IDs. See "Product Administration Tasks" on page 372 for more details.

When you create a product, you can assign the product to an appropriate category, or create the product unassigned (to be assigned later). You can also nest a category within another category. The Sterling Multi-Channel Selling Solution allows products and categories to exist at the same level, as shown in Figure 6 on page 66. You can:

- create an arbitrarily deep nesting of categories and products.
- assign products to categories at any level of the product hierarchy.
- assign products to multiple product categories. (As shown in Figure 6 on page 66, Product P3 belongs to both Category PC2 and PC4, and Product P6 belongs to both Category PC4 and PC5.)

Guidelines for Creating a Product Catalog

The guidelines for a reasonable product catalog are:

- *Levels of Product Hierarchy*: an average depth of 4 levels and a maximum of 7 levels
- *Products per Product Category*: an average of 50 products and a maximum of 400 products
- *Number of Categories*: an average of 100 Product Categories and a maximum of 250 Product Categories
- *Number of Products*: an average of 5,000 products and a maximum of 100,000 products

Note:	The Sterling Multi-Channel Selling Solution will still work beyond the maximum numbers described here. However, there will be a degradation of usability and performance.
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Creating Categories and Products

You can create products and either assign them to parent categories or leave them unassigned. Begin creating your product catalog by creating product categories and the product category hierarchy. See "To Create a Product Category" on page 355 for details.

After creating product categories, use one of the following methods to create the products for your catalog:

- Import product categories and products into your catalog from an outside source as described in "Importing Products" on page 415.

During the import task, you will select the root category for the imported product categories and products.

- Follow the process in "To Create a Product" on page 373.

When you create the product (either assigned to a parent category or as unassigned), you define effectivity dates for the product, units of measure, and so on. You can designate the type of product (normal, configurable, assembly, and aggregated) and you can also assign features to the product.

After creating a product within an initial category, you can assign a product to multiple categories. See "To Assign or Remove Products" on page 364.

Product Statuses

Products in your implementation of the Sterling Multi-Channel Selling Solution can have a life cycle in which they are first created and prepared by administrators, then released so that they can be bought by customers, and then at the end of their

life made unorderable. You manage product life cycles using the product status field. The product status field can have the following values:

- **In Creation:** products with this status can be seen by enterprise users, but not by end-users. They can be added to price lists, associated with promotions, used to create models, and so on.

You create a product with the In Creation status so that you can prepare it for release but prevent end-users from seeing it until you are ready to release it. Once you have moved a product from the In Creation status to one of the other statuses, then you cannot move it back. You can delete products while they have this status.

- **Not Orderable:** products with this status can be seen by enterprise users and end-users. They can be added to price lists, associated with promotions, used to create models, and so on. End-users can view products in this status, add them to carts, and configure them, but carts that contain products with this status cannot be placed as orders.
- **Released:** products with this status can be seen by enterprise users and end-users. They can be added to price lists, associated with promotions, used to create models, and so on. End-users can view products with this status, add them to carts, configure them, and place orders which include them.
- **Blocked:** products with this status can be seen by enterprise users; they can be added to price lists, associated with promotions, used to create models, and so on. End-users cannot see these products as they browse the product catalog, search for products, and so cannot add such products to carts and orders. However, if the product is already in a cart, then the end-user can see the product there, but they cannot turn the cart into an order.

The main use for the Blocked status is to prevent end-users from buying the product. You can move a product to the Blocked status, and then subsequently delete the product once you have processed any current orders that contain the product. You can delete products while they have this status.

Products Sold Separately

Certain products are only meaningful in the context of a main item being purchased. For example a five-year warranty should only be purchased as a component to a configured solution. In previous releases of the Sterling Multi-Channel Selling Solution, these products could be added as main items. You can check a box when you create a product that identifies the product as not sellable as

a separate item, that is, the product can be added as a component of a configurable product or a line item in an assembly, but cannot be sold separately. If this box is not checked, you can add the product as a component and the product can be sold as a separate item as well.

In-Store Pickup of Products

Certain products can not be picked up from a store, such as products that are sold infrequently and therefore are not kept in stock. You can specify that a product cannot be picked up from a store by checking the Not Eligible for In-Store Pickup check box when you create or modify a product.

Service Products

You can specify that a product is a service product. In most respects, service products behave as most products do, but there is one difference when a service product is configurable. It depends on the setting of the Use Configuration Prices for Service Products? business rule as follows.

When you create a model for a configurable product, you can price option items in the model in one of two ways: either by associating a product with the option item, and pricing the corresponding product using price lists, or by attaching a price to the option item directly. See "Working with Display Properties" on page 644 for a description of how prices can be set for models, option classes, and option items using the Price display property.

When you configure a product, the underlying model may get prices for items from the Sterling Pricing engine or it may get prices from the model itself. When the end-user finishes configuring their product, they return to their cart with the configured product with prices from their configuration session.

- If the Sterling Quotes business rule called Use Configuration Prices for Service Products? is set to true, then prices set in the Sterling Configurator session are preserved as the user continues their shopping.
- If the Sterling Quotes business rule called Use Configuration Prices for Service Products? is set to false, then prices set in the Sterling Configurator session are not preserved as the user continues their shopping. Prices are retrieved from the Sterling Pricing engine just as they are for non-service products.

Aggregated Products

You can create *aggregated products*. An aggregated product is a product that comprises a collection of products, each of which shares essential characteristics

with the others, but each of which differs from the others in minor but significant ways. Since they share essential characteristics, the individual products would not be separate products in a product category.

For example, an enterprise might have an aggregated wire product which comprises a number of individual wire products each of which differs from the other only in length, gauge, or color. You would not create a product category, since these are not different products. Each wire product is technically the same product, differing only in color, gauge, or length. You would not create an assembly, since these are not individual parts of a larger product. You can, however, create an aggregated product that would contain the same wire products, each of which differs only in color and/or length.

There are two ways to assign products to an aggregated product. You can create products as part of the aggregated product, or you can assign existing products to the aggregated product. If you assign an existing product to the aggregated product, then the existing product no longer is assigned to the product categories to which it was currently assigned. It becomes part of the product category to which the aggregated product belongs. Any features assigned to the product remain assigned provided that they are consistent with the assignment of feature types to the product category in which the aggregated product is assigned.

Feature Management in Sterling Product Manager

You can manage features both in Sterling Product Manager and in Sterling Advisor.

Features, Feature Types, and Feature Type Groups

The following figure shows the feature hierarchy in the Sterling Multi-Channel Selling Solution.

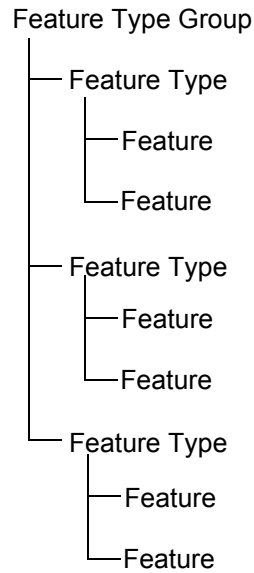


FIGURE 7. Feature Hierarchy

Features are characteristics of products. For example, a company that sells computers might offer a laptop that comes in four colors, has a 17" monitor, a 2.4GHz processor, a 260GB hard drive, a wireless card, a writable CD drive, a DVD drive, and an ergonomic keyboard. Each of these characteristics is a feature.

Feature types are collections of features. Usually these are features that are in some way related to each other, and so form a logical "type" of feature. To continue the previous example, the company that sells computers offers computers with several different processor speeds. Customers can buy computers that come with processors of 1.2GHz, 2.1GHz, 2.4GHz, and 3.0GHz. 1.2GHz, 2.1GHz, 2.4GHz, and 3.0GHz are features that could be grouped into a feature type named "Processor Speed". Other feature types might include "Monitor Size", "Available Memory (RAM)", "Hard Drive" and "Internet Connectivity".

Feature type groups provide a means of grouping feature types. Using the same example, some feature types that relate to a computer's performance are processor speed, hard drive, and available memory. The company might decide to attribute the feature type group "Performance" to these feature types.

Features and the Sterling Multi-Channel Selling Solution

When a customer uses the guided selling experience, they answer questions in a questionnaire. These answers comprise features that are created and assigned to products in Sterling Product Manager. When the customer answers a question, the screen displays the products to which the answer (feature) has been assigned.

To provide these questions and answers, one or more enterprise users create a questionnaire using Sterling Advisor. They use features and feature types to define attributes of products to help customers find the products they want. By assigning features and feature types, you define how the product selection and product comparison tools work.

Creating and Assigning Feature Types and Features

You create the feature types and features using the Feature Management panel in Sterling Product Manager or the **Sterling Advisor Administration** link from the Sterling Multi-Channel Selling Solution home page.

You can assign features to products by assigning features to the product category to which the product belongs. In this case, the feature is automatically assigned to all the products in a category. You can also assign features to products on a product-by-product basis.

You can assign features to a product when you are modifying a product, or you can assign a feature to one or more products when you are modifying the feature.

When you assign a feature type to a category, the features belonging to that type are available to be assigned to the products in that category as well as products in subcategories of the category. When you assign individual features to a category, those features are automatically assigned to all the products within the category and within subcategories of the category. This is referred to as *power assignment*. In Release 6.4 and higher, you can also mark the feature for *inheritance* so that as new products are added to the product category, then the feature is automatically assigned to the new products.

Feature Effectivity

In some cases, features may only be effective (available to customers) during a given time period. This is *feature effectivity*. For example, the computer company described in the previous sections may currently offer a model of desktop computer with processors of 1.2GHz, 2.1GHz, and 2.4GHz. However, as the marketplace changes, and demand for higher processor speeds increases, the company may decide to change the set of processors from which their customers are permitted to choose. Starting in the next financial quarter, the same desktop model will only be available with processors of 2.4GHz and 3.2GHz. When the company's Sterling

Advisor administrator creates these features, they can set an effectivity for each feature, specifying that until a certain date (the last date of the quarter) the feature 1.2GHz will be available, but that after that date it will no longer be available, and that before a certain date (the first day of the next quarter) the feature 3.2GHz will not be available, but after that date, it will be available.

Managing Assemblies

An assembly is a product that refers to a set of items (products and text items) that together form the assembly. For example, a laptop may actually comprise a laptop computer, a docking station, a monitor, and a warranty. In this example, three of the items in this assembly are products, while the fourth item (the warranty) is a text item. The assembly is used to enable a customer to order all four items as a single product.

Note: You must define a product as an Assembly before you can define its structure.

Assemblies have the following sub-component types:

- **Bundle:** a bundle consists of several components, such as products, provided services, physical kits, or other bundles. Delivery service cannot be part of a bundle. Line items in a bundle can be shipped separately.
- **Physical kit:** a physical kit is maintained as a single item and consists of a number of components that must be ordered and shipped together. For example, a digital imaging kit can consist of a digital camera, printer, and laptop with high-end graphics capabilities.
- **Dynamic physical kit:** a dynamic physical kit is similar to a physical kit, except that the line items to be shipped are decided upon at the time the order is placed.

When you create a product as an assembly, there is an **Assembly** tab that enables you to add the items that make up this assembly. When you define the product, you will be able to select products from the product hierarchy

See "To Define the Parts in an Assembly" on page 402 for the tasks involved in creating an assembly.

You can also create a hot spot for each part in a parts diagram image of an assembly. When an end-user displays the assembly, the end-user can order one or more parts in the assembly by clicking on their respective hot spots. The hot spot can be any spot in the image: you can make a hot spot out of a callout designation for the part, or you can make the image of the part itself as the hot spot.

Managing Configurable Products

When you create a product, you choose from one of these types: normal, assembly, configurable, or aggregated. A configurable product refers to a product which is customized at the time of purchase by the end-user by making a series of selections. For example, the product catalog contains a product called a "Bicycle", but the "Bicycle" does not exist as a single selectable item. Rather, the "Bicycle" represents a model created by a modeler (using the Sterling Visual Modeler); that is, a series of choices. The "Bicycle" can have one of four frame types, three wheel types, and so on. The customer selects the frame type, wheel type, and so on, at the time of purchase, and therefore defines the product at that time.

Note:	Before you create a configurable-type product in Sterling Product Manager, a corresponding model must be created using the Sterling Visual Modeler. See "Using the Sterling Visual Modeler" on page 82 for more information about the Sterling Visual Modeler.
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You can also create pre-configured products. In some cases, your company might have a need for products that are pre-configured. For example, the product "Bicycle" can be configured with a number of different selections. However, you might notice that your end-users select a specific configuration most of the time. In other cases, you might notice that they begin with a certain set of common selections before they achieve the configuration they want.

For these cases, you create pre-configured products. When you create a product as a configurable type, that product has an extra tab, a **Configuration** tab. A button in this tab enables you to select the configuration for this pre-configured product.

When your end-users select this product from the catalog, they can either buy the pre-configured product as is or use the pre-configured product as a base which they can then reconfigure to their specifications.

See "Managing Pre-Configured Products" on page 412 for the steps involved.

Superseding One Product with Another

The Sterling Multi-Channel Selling Solution supports the ability for one product to supersede one or more products: that is, you can specify that a product has become obsolete and that references to it should be referred to another product. A product is obsolete if the current date is out of the range of its effectivity dates. In order to specify supersession, you must specify both the superseded product and the superseding product.

Note:	A product can be superseded by only one product. By contrast, one product can supersede many products.
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The Sterling Multi-Channel Selling Solution only checks whether a product has been superseded if the current date is out of the range of the product's effectivity dates.

If the superseding product is itself obsolete, then the Sterling Multi-Channel Selling Solution checks whether there is a superseding product for the obsolete superseding product. In this way, you can create a chain (series) of products each of which supersedes a preceding product. You can view the supersession stack for a product through the **Supersession** tab.

Note:	The Sterling Product Manager application only manages the supersession relationship between products. Product obsolescence is only checked during commerce activities of the Sterling Multi-Channel Selling Solution
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For example, if product A is superseded by product B and product B is superseded by product C, then the supersession chain for product A is both product B and product C. When you click on the **Remove Chain** for product A, the link is only broken between product A and the supersession chain. Product A is no longer superseded by any product but product B *is still superseded* by product C.

See "Superseding a Product" on page 400 for the tasks involved in supersession.

Moving Products to Another Category

You can move products from one category to another, as described in "To Move a Product to Another Category" on page 365. One of the potential problems in doing this is "feature mismatch", that is, the features assigned to the product may not have corresponding feature types in its new parent category. A user interface enables you to reconcile this mismatch by manually adding the missing feature types to the new parent category. This automatically adds the features belonging to the feature type. If you do not add a feature type, then the type's features are automatically unassigned from the product. See "Feature Types and Features" on page 118 for a description of feature types and features and their relationships to products categories and products.

Exporting Product Data

You can export product data (including product categories, products, feature types, and features) as either a dXML, cXML, RosettaNet, or xCBL file and send it to selling partners such as resellers, distributors, OEMs, and Net Markets. "Exporting the Product Catalog" on page 424 describes the tasks.

You include list price data for the products by selecting a price list that contains the products in the export set.

Note: Only list price information is exported. The export does not include any conditional pricing that might be part of the price list.

The file is stored, by default, in the **debs_home/Sterling/catalogexport/** directory. You can rename the **catalogexport** directory, but the new directory *must* be located in the **debs_home/Sterling/** directory. See the *Sterling Multi-Channel Selling Solution Implementation Guide* for the location of the **debs_home** directory.

Once you have created the export set, you have the option of exporting the set immediately or clicking a button to display a screen that enables you to schedule a cron job to export at regular intervals. See "To Export the Catalog Using a Cron Job" on page 431.

Exporting Aggregated Products

If you include an aggregated product (see "Aggregated Products" on page 69) in an export set, then the products that comprise the aggregated product are automatically included in the export set.

Importing Product Data

When you have large amounts of product data that you want to add to the Sterling Multi-Channel Selling Solution, you can import a catalog as an import set in dXML format. See "Importing Products" on page 415 for a description of the process. During the process, you define an insertion point, that is, a place in the product category hierarchy, a parent category within which you want to place the products.

You can provide pricing information with the imported products as follows. A price list can be associated to an import set: when the products in the dXML file are imported, pricing information in the dXML file is used to add products to the price list or to update prices if they are already on the price list.

Categories and Products Managed by Partners

In some cases, your partners might carry products in addition to yours that they want to make available through your catalog. The partner administrator for such partners can create and maintain product categories and products in the catalog within certain "open" categories.

When the enterprise administrator creates a product category, that category is, by default, "closed" to partners. Partner administrators cannot create categories or products within a "closed" category. Using an interface in Sterling Product Manager, the enterprise administrator chooses the partners for whom this category

is "open". The enterprise administrator can also close categories to a partner, whether the category is created by the enterprise administrator or the partner administrator.

Product Suppliers

The products in your product catalog may be supplied by your enterprise or by one or more of your partners. When you or one of your partners put a product on a price list, then the partner that owns the price list is the supplier for that price list. If the price list is assigned to a partner, then, implicitly, you are expressing the fact that the partner that owns the price list can act as the supplier of the products on the price list to the partner to whom the price list is assigned.

For example, suppose that Price List 1 is owned by the enterprise and suppose that Product X is on this price list. If Price List 1 is assigned to Partner A, then users of Partner A can buy Product X and the enterprise can supply it. If Price List 2 is owned by the Anderel partner and Product X is also on Price List 2, then if Price List 2 is also assigned to Partner A, then users of Partner A can also select Anderel as the supplying partner of Product X before they place their order.

Product Entitlements

Product entitlements manages users' access to products. See CHAPTER 13, "Product Entitlement" for more information about the tasks associated with product entitlement.

Each product entitlement comprises one or more *product entitlement items*. A product entitlement item is a list of products. If a product entitlement is assigned to a partner, the users belonging to that partner can see the products included in the product entitlement: that is, listed on one or more of the product entitlement items that make up the product entitlement. However, note that you can mark each product entitlement item for *inclusion* or *exclusion*: if a product entitlement item is marked for exclusion, then the products on its list of products are excluded from partners to whom the product entitlement is assigned.

A product entitlement item can be expressed in several different ways:

- as a price list: all products on the price list are on the product entitlement item.
- as a feature: all products assigned the feature are on the product entitlement item.

- by product category: all products in a product category are on the product entitlement item.

Item Precedence

The order in which items are evaluated on a product entitlement is important because a product is included or excluded depending on whether the last item which references it is marked to include or exclude. For example, suppose that a product entitlement PE1 is defined as having two product entitlement items PEI1 (defined as products having feature F) and PEI2 (defined as products in product category PC). Suppose that product P is effectively on both product entitlement items: that is, it belongs to the product category PC and has feature F. If PEI1 is marked for inclusion and PEI2 is marked for exclusion, and if the order of evaluation is PEI1 followed by PEI2, then the net effect of product entitlement PE1 is to *exclude* product P. That is, if PE1 is assigned to a partner, then users of that partner will be excluded from seeing product P. Note that if more than one product entitlement is assigned to a partner, then you also have to take into account assignment precedence: see "Assignment Precedence" on page 78.

Assignment Precedence

You can assign zero or more product entitlements to a partner. If the same product appears on more than one product entitlement assigned to a partner, then one possibility is that a product is *included* on one product entitlement and *excluded* on another. This conflict is resolved by ordering the product entitlements so that the last product entitlement evaluated takes precedence.

For example, if there are three product entitlements, PE1, PE2, and PE3 on which Product A is listed and suppose that they are all assigned to a Partner A. If their precedence order when assigned to Partner A is 1, 2, and 3 respectively and suppose that Product A is excluded on PE3, and included on the other two, then Product A is excluded by virtue of the fact that the last product entitlement evaluated (PE3) excludes Product A.

Suppliers

Each partner, including the enterprise, can create product entitlements, but only enterprise users can assign product entitlements to partners. If you assign entitlements from different suppliers to partners, then note that these entitlements work independently of each other as follows.

Entitlements are evaluated on a *per* supplier basis: that is, by taking the set of product entitlements owned by each supplier and evaluating them according to the rules described above. If the entitlements for supplier A result in a product P being

visible to users of a partner, and if the entitlements for supplier B result in the same product being excluded, then the net result is that the users can see product P. However, the prices that they see will still depend on what price lists have been assigned to their partner.

Inheritance

Product entitlements assigned to a partner can be inherited by a child node of that partner. The Sterling Multi-Channel Selling Solution evaluates inherited product entitlements before the product entitlements assigned directly to the child partner. Product entitlements assigned directly to the child partner can override inclusions or exclusions inherited from product entitlements assigned to the parent partner: the more specifically a product entitlement is assigned, the greater influence it has.

Pricing

The separation of product entitlement from price lists means that there is a possibility that a user will be entitled to see a product, but there will be no price available. For backward compatibility with earlier releases, as well as to ensure consistency, you can run the Sterling Multi-Channel Selling Solution in a mode in which price lists are automatically treated as product entitlements. You do this by setting a business rule as described in "Using Price Lists for Product Entitlement" on page 79.

If you do not run in this mode, then you must take care to manage both prices and product entitlements as you add new products to your product catalog, and as new partners are created.

Using Price Lists for Product Entitlement

When the Create Product Entitlement Based on Pricelist business rule is set to "True", then whenever a price list is created a corresponding product entitlement is created. When the price list is assigned to a partner, then the corresponding product entitlement is assigned to the partner. In this mode, it should always be true that whenever a user can see a product, then they have a price for the product.

Managing Availability Information

You can use the Sterling Multi-Channel Selling Solution to manage availability information regarding your products. This includes:

- Inventory
- Warehouse locations

- Restock dates
- Restock quantities
- Estimated delivery date

This information is used when customers request availability information as they place orders. Your partners can also maintain availability information: see CHAPTER 14, "Managing Availability Information" for more information.

Inventory Availability and Estimated Delivery Date

You can manage how inventory availability information is obtained and estimated delivery date is calculated when users view the product detail page or the shopping cart page, or when they place an order. You do this by setting the Availability Data Access Method system property. To set the system property, navigate from the System Administration panel of the home page to System Services, then the Commerce Manager category, then the General sub-category, and choose one of the following options:

- **Static:** inventory availability information is obtained from the static database tables, and estimated delivery date is not calculated.
- **System Initiated Real-Time:** inventory availability information is obtained using a real-time availability check call to the Sterling Multi-Channel Fulfillment Solution (when the supplier is the current storefront) and/or static database tables (when the supplier is not the current storefront), and estimated delivery date is calculated automatically.
- **On Demand Real-Time:** a Check Availability button is displayed on the Catalog Detail or Commerce page. When the user clicks the button, inventory availability information is obtained using a real-time availability check call to the Sterling Multi-Channel Fulfillment Solution (when the supplier is the current storefront) and/or static database tables (when the supplier is not the current storefront). While estimated delivery date is calculated on the Checkout page if the user clicks the Check Availability button, it is calculated automatically when the user places the order regardless of whether the user clicks the Check Availability button or not.

Note:	Inventory availability and estimated delivery date information will be displayed only if the Check Availability system property and the user's Availability preference are set to true.
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The inventory availability and estimated delivery date information is displayed according to the value the Availability Text Display is set to in the Preferences tab of the User Detail page.

Note:	Before you choose System Initiated Real-Time or On-Demand Real-Time, you must make sure that the Sterling Multi-Channel Selling Solution is integrated with the Sterling Multi-Channel Fulfillment Solution. For more information about integrating the Sterling Multi-Channel Selling Solution with the Sterling Multi-Channel Fulfillment Solution, see the <i>Sterling Selling and Fulfillment Solution Integration Guide</i> .
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Displaying the Product Catalog

You can manage how your customers view the catalog as follows:

- "Associating Display Styles with Product Categories" on page 81
- "Customizing the Look-and-Feel of Catalog Pages" on page 81
- "Suppressing Display of Empty Product Categories" on page 81

Associating Display Styles with Product Categories

You can manage which display style is used when users view product categories. By selecting different styles for different product categories, you can determine how products are displayed as end-users view their categories. Two display styles are provided as out-of-the-box styles: you can customize these styles or add new styles. See "To Change the Display of a Product Category" on page 371.

Customizing the Look-and-Feel of Catalog Pages

When customers point their browsers to your Web site, the pages that they see are rendered from JSP pages. These pages can be customized to reflect the way in which you want the customers to navigate your product catalog. See the *Sterling Multi-Channel Selling Solution Developer Guide* for further information about customizing your implementation of Sterling Multi-Channel Selling Solution.

Suppressing Display of Empty Product Categories

You can set a business rule to suppress the display of product categories that do not contain any products. Sterling Product Manager contains a button you can click to calculate whether a category display should be suppressed. You must periodically renew this calculation as products become displayable (for example, new products added) or not displayable (for example, expiration), for whatever reason. If

suppression is not recalculated, your end-users will not see the products even though they exist and should be accessible.

Note:	Suppressed display of categories only applies to browsing the product catalog. If new products are added to an "empty" category, and if a recalculation is not done for the category, end-users can still access these products by searching or by using the Sterling Advisor guided selling experience.
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A pre-defined cron job enables you to schedule this calculation to occur automatically at regular intervals. See "Update Catalog" on page 1109.

Using the Sterling Visual Modeler

A configurable product is a product that offers a number of different options from which a customer can select before buying the product. The choice of options or available combinations of options may be constrained by technical or marketing concerns so that customers can only choose certain combinations of options in configuring their purchase.

In the Sterling Multi-Channel Selling Solution, a product is made configurable by marking it as configurable in the product catalog and by associating with it a model that provides the information about options and the possible combinations of options.

- Sterling Visual Modeler is the application used to create models.
- Sterling Configurator is the application used to display configurable products to customers.

Note:	Sterling Mobile Configurator is a Sterling Commerce, Inc. product designed to enable customers to buy configurable products when they do not have Web access to the Sterling Multi-Channel Selling Solution. It provides the ability to configure products using the product models on a standalone PC.
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Configurable products enable a customer to start with a basic model, then move through a series of selections, option items, to configure the product to their specific needs. You create configurable products using Sterling Product Manager, but before you can do that, a product modeler must use the Sterling Visual Modeler to create a corresponding model.

Terminology

TABLE 6. Sterling Configurator Terminology

Term	Definition
Ancestor	The entities which precede an entity in a hierarchical chain, back to the root model group. The ancestral chain.
Sterling Configurator	The Sterling Multi-Channel Selling Solution application that enables a company to specify the possible available configurations of their products and enables customers to select the configuration that best meets their needs.
Constraint Table	A means of specifying which selections of option items are compatible with each other. Constraint tables provide a simple way to manage the selections that end-users can make as they configure a product.
List	An object that allows the Sterling Configurator to validate a selected item by virtue of it being part of a list.
Model	A configurable combination of product options. Rules can be added to models to restrict the choice of combinations.
Model Group	In the Model hierarchy, a model group is a collection of models, option class groups, option item groups, or even other model groups.
Option Class Group	An option class group is a collection of option classes or nested option class groups that represent entities that can be reused without change in any number of models and option classes. See "Groups and Sub-Models" on page 87 for more information.
Option Item Group	An option item group is a collection of option items that can be reused in any number of option classes or option class groups in any number of models.
Option Class	<p>An option class is a collection of option items, option class groups, option item groups, or other option classes that have a common purpose.</p> <p>An option class is a configurable part of a model. For example, an engine is a configurable part of a car. The option items in the engine option class are 4-cylinder, 6-cylinder, and 8-cylinder.</p>
Option Item	An option item is a member of an option class or an option item group and is an orderable part or service for a model. Typically, an option item is associated with properties.

TABLE 6. Sterling Configurator Terminology (Continued)

Term	Definition
Property	<p>A property is a descriptive element used as the basic entity for rule creations. Properties are associated with models, option classes and option items.</p> <p>A quantity or attribute of an item that indicates interdependencies (for example, a property could be "uses 5 MB of memory" or "provides 5 expansion slots").</p>
Rule	A constraint that is attached to some part of a model hierarchy to enforce a technical requirement or business rule.
Sub-Model	A model that is used as part of another model.
Sterling Visual Modeler	The data modeling tool used to create and maintain models.

Model Group Hierarchy

A model, with its option classes, option items, option class groups, and option item groups, represents all of the possible valid configurations for a single saleable product. Every model created in the Sterling Visual Modeler belongs to a model group.

A model group is a way of grouping similar model groups, models, option class groups, and option item groups. At the top-level of the model group hierarchy is the root model group. Each model group belongs to a parent model group, except for the top-level, root model group which has no parent. Figure 8 on page 85 shows an example of the model group hierarchy.

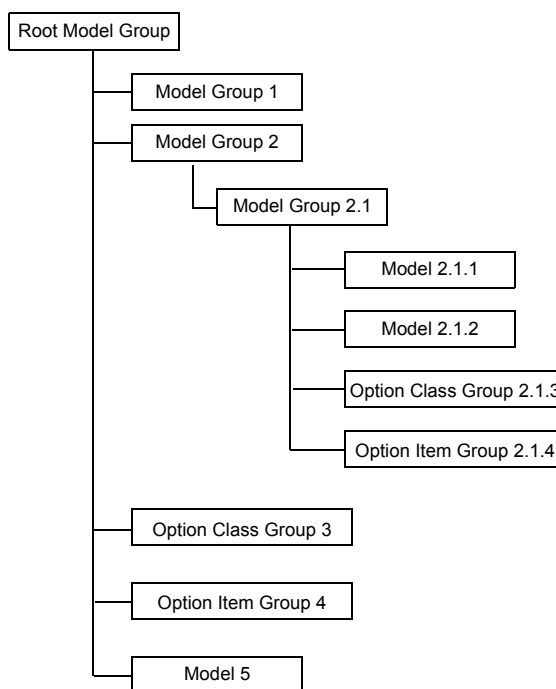


FIGURE 8. Model Group Hierarchy

Associating a Product with a Model, an Option Class, or Option Item

Using the Sterling Visual Modeler, you can select a product, created with Sterling Product Manager, and associate it with a model, an option class, or option item. You do this to associate the entity with the price determined for the product using the price lists created with Sterling Pricing. As the end-user configures the product, Sterling Configurator uses either the price of the product associated with the model or the accumulated prices of the products associated with the option classes or option items.

You might have an option item that represents a saleable product. For example, you might have an option class that represents a selection of graphics cards. Each option item represents a different graphics card. When you modify each option item (in this case, each graphics card), you can associate each graphics card with a product.

In this way, you can associate a price with each graphics card (through the price lists created with Sterling Pricing).

Note that if you do associate a product with an option item, then end-users will see this option item only if the associated product is on one of the price lists assigned to their partner.

See "Setting Prices for Products" on page 22 for information about pricing. For information on associating a product with a model, see "To Associate a Product with a Model, Option Class, or Option Item" on page 518.

How the Sterling Visual Modeler Works

Properties define the characteristics of models, option classes, and option items. Rules are defined using properties to constrain customer selections and determine whether or not a configuration is valid. The Sterling Configurator uses the model to guide customers choices so that they can configure a Build-to-Order (BTO) product. When an end-user chooses an option item, a rule can be subsequently triggered by a property attached to that option item.

For example, a Mountain Bike model may consist of the following option classes: frame, forks, and wheels. Weight is a property defined for the model and attached to every option item in the model. Each item in each Mountain Bike option class is assigned a weight property value; that is, each frame has a weight, each fork has a weight, and each wheel has a weight. After the customer makes choices about a frame, fork, and a wheel, the sum of all the individual weights total the entire weight of the bike.

By defining a weight rule the modeler can specify that the entire weight of the Mountain Bike should not be over 15 kilograms. The modeler can also specify in the rule a message that will be displayed to the customer if the weight is exceeded.

Therefore, in Sterling Configurator, when a customer chooses an option item such as a frame, fork, or wheel, the Sterling Configurator uses the rule to determine the total weight value by adding the weights of all chosen option items associated with the weight property. If the total weight of all the option item(s) is over 15 kilograms, then the customer is presented with a message stating the recommended weight is exceeded and the customer should choose another option item in one or more of the option classes.

Creating a Tab-Based User Interface

You can arrange your end-user interface in the form of a series of tabs. First you enable a tab-based UI by selecting the Tab-based UI display template when you set the display properties for the model. Once you have enabled the tab-based UI, you

create the top-level option classes or option class groups that make up your model. Next you access the **Tabs** tab within your selected model and create the tabs. As you create the tabs, you populate them with the one or more of the top-level option classes or option class groups that you have created.

Note:	By top-level is meant those option classes or option class groups at the top of the model group hierarchy, directly below the model.
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An option class can be attached to zero or more tabs. See "Working with a Tabbed User Interface" on page 556 for step-by-step instructions on creating a tabbed user interface.

Option Classes and Option Items

An option class is a configurable part of a model consisting of option items and nested option classes that have a common purpose.

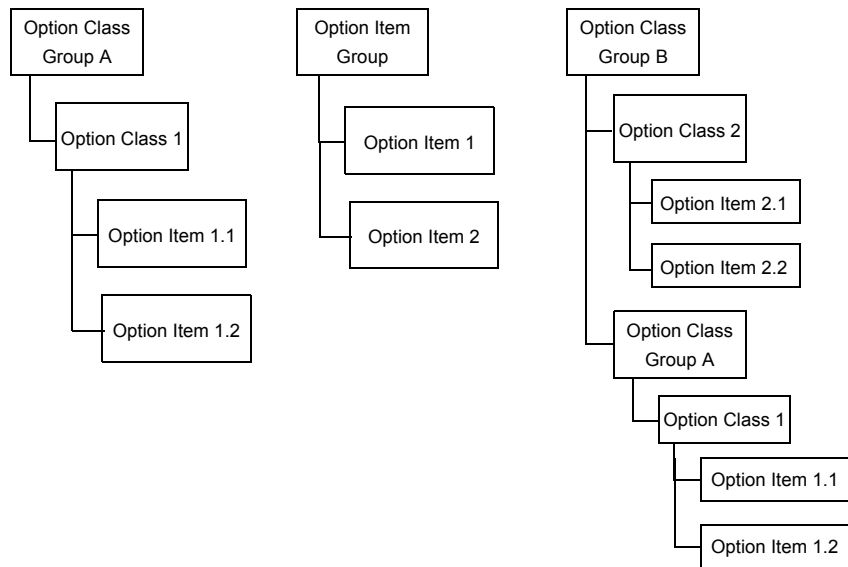
An option item is a member of an option class. The option item can either be an orderable part or an intermediate selection in the process of determining an orderable part. Typically, properties are associated with option items.

For example, if a car is a configurable product, then an engine is a configurable part of the car. Thus, you could create a model called "car", and "engine" would be an option class in the model. The option items in the engine option class are 4-cylinder, 6-cylinder, and 8-cylinder.

Groups and Sub-Models

A option class group or an option item group enables you to reuse option classes and option items in more than one place in a model group without having to recreate the same items over and over again as you need them. You can create a single group (created at the model group level), add option classes (with their option items) to the group and then "attach" the group, as needed in the required locations. For example, several models might have the same support choices (the same warranty selections, the same hardware support choices). Rather than create these new for each model as two option classes, the same two option classes, you could create these option classes once as part of an option class group, then attach the group to each model that requires these option classes.

If the elements of a group (option classes, option items) need new properties attached to them, or if the elements need existing properties modified, then you need only modify the group in the place where you originally created it. The modifications will be reflected in the group throughout its "attached" locations. Figure 9 on page 88 shows different examples of groups. As illustrated in that example, you can also nest groups within other groups.

**FIGURE 9. Option Class Groups and Option Item Groups**

A model can be used both as stand-alone and as part of another model. When used as part of another model, the model is referred to as a sub-model.

The following table shows which groups can be attached to which elements in the Sterling Multi-Channel Selling Solution.

TABLE 7. Attaching Groups

Groups To Be Attached	Attach to Model?	Attach to Option Class Group?	Attach to Option Class?
Models	No	Yes	Yes
Option Class Groups	Yes	Yes	Yes
Option Item Groups	No	No	Yes

Properties

A property is a characteristic that in some way describes a model, option class, or option item.

When you define a property, you can define it either as a part of a model group or as part of a specific model. In the case of a property defined for a model group, the

property is then available to be attached to any model, option class, or option item in the hierarchy beneath the model group for which it was created. In the case of a property defined for a model, the property is available exclusively to the model itself, as well as option classes and option items within the model hierarchy.

TABLE 8. Defining and Attaching Properties

	Model Group	Model	Option Class	Option Item	Option Class Group	Option Item Group
Define	Yes	Yes	No	No	No	No
Attach	No	No	Yes	Yes	No	No

For example, in Figure 10 on page 89, property X is defined in Model Group A and property Y is defined in Model A1. Property X can be attached to Model A1 and Model A2, as well as any models in Model Group B, such as Model B1. However, the property cannot be attached to Model C which is not a child of Model Group A. Property Y is defined in Model A1 and therefore cannot be attached to either Models B1, A2, or C.

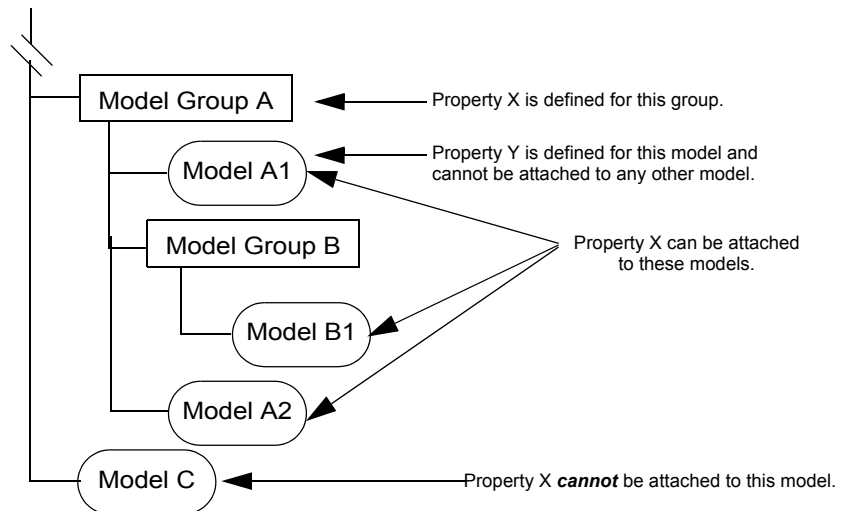


FIGURE 10. Property Attachment in the Model Group Hierarchy

Note: The catalog of properties that you build up using the Sterling Visual Modeler can become extensive very quickly, so before defining a new property, take care to check that there is not an existing property that will suit your needs.

When you define a property, the name you give it should be descriptive of the property being represented. The property name must be unique within the model group.

Using Properties

As a modeler, you determine the value of a property when the property is attached. When you create a property, you can also define a default value for that property. Then, when you assign that property to a model, option class, or option item, the property has the default value unless you choose to override it. For example, you can assign the value of 8 when assigning the weight property to one of the bike forks but assign the value of 10 when assigning the weight property to a different bike fork.

Note: You <i>must</i> set up properties for each option class and option item that is included in a validity check <i>and</i> triggers an option item expansion.

In another example, a model for a configurable computer requires a different amount of RAM for different types of software. Thus, this model needs to have a property called "memory_required". When you attach this property to different software option items in the model, you determine the value of RAM memory required for the individual software. At the same time, RAM itself is an option class, and the amounts of RAM that the customer can order are the option items in that class. Therefore, there needs to be a corollary property called "memory_ordered". You may set a value for this property or it may be a calculated value triggered by a rule based on a quantity input by the customer.

Naming Properties

Take care to name properties so that you avoid confusing properties that should be kept distinct. For example, if you use Weight as a property name, then there may be situations in which you need to distinguish between the weight of items from two different option classes.

Attaching Properties to Option Items

The option item to which a property is attached may be any component of an orderable item that has the characteristic represented by the property. For example, as a modeler, you can attach the weight property to a frame since the frame has a specific, defined weight. The property value must be consistent with the property type entered when the property was defined. In other words, you cannot assign a value of "blue" to a property with the type Number. The property must be of type String in order to assign the value "blue". Depending on the property type, the value may represent either the quantity of the property represented (*numeric*), a specific instance of the property (*character*), or a *list* of many instances of the property.

Display Properties

As a modeler, you use display properties to control the model elements on the HTML page displayed to the customer by the Configurator Engine. See "Working with Display Properties" on page 644.

Lists

You use a list to enter and maintain lists of property values for a specific property. It is possible to define multiple choices by using a list. By comparison, number and string property types define a single value.

You use lists in the Sterling Configurator when you have a property with multiple values. For example, a modeler can use a list property type for a property called *days of the month*. The values in this property list are 1, 2, 3, and so on, with the last value 31. For this particular property, the list is the appropriate property type.

Note: The list name should be descriptive of the items contained in the list, and the property list value is a specific value in the list.

You can also use lists to define the selection of option items during product configuration. You do this by creating a list of items and then creating a rule stating that an item is either valid or invalid with the items on the list.

For example, we have three bike models: Mountain Bike, Racing Bike, and Dirt Bike.

1. Create three lists, one for each bike (Table 9).

TABLE 9. Lists for Different Bike Models

Bike model	List property	List values
Mountain Bike	MtnBikeWheelsAllowed	Mavic mountain wheels
		Shimano mountain wheels
Racing Bike	RacingBikeWheelsAllowed	Mavic racing wheels
		Shimano racing wheels
Dirt Bike	DirtBikeWheelsAllowed	Mavic dirt wheels
		Shimano dirt wheels

2. Create a property of type list called "WheelsAllowed".
3. Attach the WheelsAllowed property to each bike model.
 - a. Attach the WheelsAllowed property to the Mountain Bike model with the value "MtnBikeWheelsAllowed".

- b. Repeat step a for the Racing Bike and Dirt Bike models using the values in Table 9.
4. Create a property of type character called "WheelsOrdered".
5. Create a rule with the following condition.

TABLE 10. Entries to Define Wheels Rule

Field	Value
Function	Value
Property	WheelsOrdered
Operator	in
Function	list
Property	WheelsAllowed
If not specified	Ignore

6. Attach this rule to the Mountain Bike, Racing Bike, and Dirt Bike models.

The same rule is attached to three different models, but the value of the WheelsAllowed property is specific for each model. That is, for the Mountain Bike model, the MtnBikeWheelsAllowed list is used, whereas for the Racing Bike model, the RacingBikeWheelsAllowed list is used. Similarly, the DirtBikeWheelsAllowed list is used for the Dirt Bike model.

Rules in Sterling Visual Modeler

Rules are essential to the Sterling Visual Modeler. They determine which instances of a model are valid. By defining and attaching rules to appropriate places in the model hierarchy, you ensure that customers may select only combinations of options items that are compatible or suitable. In doing so, you ensure that customers are offered the best shopping experience possible.

Each time a model is validated (for example, each time a user make a pick of an option item), the rules are fired. Some rules may evaluate to false: these are said to fail, whereas if a rule evaluates to true, then it is said to succeed.

A rule consists of one or more fragments and an action. The action can consist of either message actions (messages that will be displayed), an expansion action (items that will be added), or an assignment action (properties that will be assigned).

Rules enable the Configurator Engine to guide a customer through the configuration experience by offering additional explanations and checking the

selected options to ensure a correctly built product. The rule can also check when certain conditions will provide expansion, that is, provide a customer with additional option items in the configured solution.

Rules can be simple: a particular option item must not weigh more than 100 grams. Rules can be complex: one option item must not weight more than 100 grams OR another option item must not weigh more than 50 grams AND the material must be steel.

Rules result in some kind of action being performed. A rule can check to see if some condition prevails and then display a message action as a result. An example of this would be a check on the total weight of a bike resulting in a warning message that the bike is over a weight limit.

Rules can result in expansion actions. Based on a rule, additional selections can be provided for a customer. For example, a rule can decide if additional memory is needed and how much.

Rules can result in assignment actions. Based on the calculations in a rule, a value can be assigned to a designated property.

You can choose to design rules that display messages when a model instance fails to satisfy a rule or when a model instance satisfies the rule. You can also adjust the severity of the message.

Defining and Attaching Rules

You define rules at the model group level or the model level depending on how the rules will be used. For example, if you want to attach the rule to any element in the model group hierarchy, then you define the rule at the root model group level. If you want to limit the use of a rule only to elements within a certain model group (or to elements in sub-groups within that group), then you define the rule only at that model group level. Likewise, if you want a rule for localized use by the elements in a particular model, then you define the rule at the particular model level.

TABLE 11. Defining and Attaching Rules

	Model Group	Model	Option Class	Option Item	Option Class Group	Option Item Group
Define	Yes	Yes	No	No	No	No
Attach	No	Yes	Yes	Yes	No	No

Attaching Rules

Once you have defined a rule, you attach the rule to some level in the model (or group) structure. Where you attach the rule in the structure determines when the rule is fired (see "Rule Firing" on page 100). By attaching a rule to a model, you ensure that the rule is processed to validate the model. A rule may be attached to any number of models (including sub-models). You can also attach rules at the option class and option item level, if the rule is specific to that level.

The point at which you attach a rule determines where messages will be displayed to end-users as they configure the product, and it determines when, in the order of rule-firing, the rule is fired.

Rule Fragments

A rule fragment is a component of a rule and comprises a function and property joined by an operator to another function and property (or sometimes a literal value). The function determines a value for a property. Table 12 on page 94 lists the functions supported by the Sterling Visual Modeler.

Note: The functions listed here are the standard functions. The list of functions can be customized for your installation. See the *Sterling Multi-Channel Selling Solution Developer Guide*.

TABLE 12. Function Definitions

Function	Definition
checkwslookup	Checks that the correct properties exist to invoke a Web service.
childsum	Sum of the specified property values defined at this node and any of the node's children (and recursively down to children of child nodes and so on).
count	Counts the number of objects (selected option items, models, or groups) having the specified property.
isselected	Returns true if the option item is selected; otherwise returns false.
length	Returns the length of a string property.
list	Used with the operators "in" and "not in" to check if a property value is included or not included in a specified list of values.
literal	Exact match of the literal value.

TABLE 12. Function Definitions (Continued)

Function	Definition
lookup	<p>Used to look up values specified by name from a properties file: the lookupValues.properties configuration file. A string property containing the key is used to find the entry in the property file. This entry defines the properties for this key and the values that each of these properties should be set to when the function is invoked. For example: suppose the following is defined in the properties file:</p> <pre>Color=blue,green,red Color.blue=#0000FF Color.green=#00FF00 Color.red=#FF0000</pre> <p>Then if the lookup(Color) function is invoked, the corresponding properties blue, green, and red will be attached at the appropriate node.</p>
max	Returns the maximum property value from all selected items having the specified property.
min	Returns the minimum property value from all selected items having the specified property.
parent	This function walks up the tree from the current location to see if the property has been defined anywhere at or above the current location. For example, if the rule is attached at an option item level, then the property will be looked for on the option item itself. If it is not defined there, then the option class to which the option item belongs will be looked at to see if the property is defined there.
parentlength	
path	
propval	Returns the value of a property even if the option item has not been selected.
rawpath	
sum	Sum of the property values from all selected items having the specified property.

TABLE 12. Function Definitions (Continued)

Function	Definition
value	Uses the property value for comparison. If multiple items exist on the order with the given property, then the maximum value is used.
wslookup	Invokes a specified Web service by calling its handler class. use this in conjunction with the checkwslookup function.

Operators tie rule fragments together and define the fragments' relationship within the rule. Table 13 on page 96 lists the operators supported by the Sterling Visual Modeler.

TABLE 13. Operators

Operator	Description
!=	Not equal to
<	Less than
<=	Less than or equal to
=	Equal to
>	Greater than
>=	Greater than or equal to
in	In the specified list
not in	Not in the specified list
contains	The specified list contains a specified value or result

For example, the rule "value(wheels selected) >= max (wheels required)" means: "the number of wheels selected in the configuration must be greater than or equal to the maximum number of wheels required by the configuration; otherwise this rule fails".

Single Fragments, Multiple Fragments, and Nested Fragments

A single fragment can consist of either of the following:

- Two properties and their functions combined with an operator.
- A property, its function, an operator and a literal value.

For example, a rule that has a single fragment might read: Quantity of wheels ordered = Quantity of wheels required. In this example, Quantity of wheels ordered is the first half of the fragment with the property, wheels ordered, and the function, count (quantity). The second half of the fragment, Quantity of wheels required, has

the property, wheels required, and the function is also count (quantity). The operator is equals ("=").

Single fragments can be linked together to form *multiple fragments* using Boolean operators, AND, OR, ANDNOT, ORNOT.

For example, we can use the preceding single fragment and add another single fragment to form a rule with multiple fragments (multiple lines in the Sterling Visual Modeler):

Quantity of wheels ordered = Quantity of wheels required

AND

Type of front wheels = Type of rear wheels

You can build complex rules such as:

(FragmentA AND (FragmentB OR FragmentC))

See "Fragments" on page 601 for examples of simple levels of fragments and nested levels of fragments.

If Not Specified

A property can have an unspecified value. If a property is not assigned to an object which is part of the current configuration (a valid option item is not selected), then the value for that property is defined as "not specified".

When creating a rule, you can select from four results for a fragment when the property is not specified:

- Rule is true: The entire rule and all its fragments evaluates to true.
- Rule is false: The entire rule and all its fragments evaluates to false.
- Fragment is true: Treat the fragment result as a success, and move on to evaluate the next fragment.
- Fragment is false: Treat the fragment result as a failure.

Triggering the Rule: Success or Failure

When you create a rule, you can specify whether action results if the rule succeeds or fails. For example, you can specify that the rule will be triggered on "failure". In this case, if the rule evaluates to "true", then nothing is done. No message is displayed; if the rule involves expansion, no expansion occurs.

Rules and Messages

Messages are used to help guide a user toward correct configuration choices. The rule message text may be up to 2000 characters in length.

For each message action, you can specify one of three types of messages.

TABLE 14. Types of Rule Messages

Message Type	Definition
Suggest	Suggest messages create a message for the user indicating that a rule has failed or passed. These types of messages provide details about the suggestion (for example; "You may want to add more memory"). The configuration can continue.
Warn	Warn messages are similar to Suggest messages. The configuration can continue.
Error	Error messages prevent further configuration until the error has been cleared.

Expansion

Expansion means that, based on a rule formula, additional items are added to the model configuration. The result of a rule formula is the starting point to determine which option item(s) is expanded and included in the product configuration.

Note:	Properties can be used to create rules that will calculate, based on a user choice, the correct parts to expand on a model with additional option items.
--------------	--

The modeler can use rule formulas to create rules that calculate or determine the result of a rule. In general, rule formulas are based on values associated with properties. For example, a modeler can use a rule formula to compare the property quantity ordered by a customer with the quantity required for the model. The rule formula calculates the difference, if there is one, and can automatically expand the model to include the option items that are needed to match the required quantity.

Numerical rule formulas must be valid mathematical expressions. A rule formula combines mathematical notation with Sterling Multi-Channel Selling Solution functions, operators, properties, and literal values to produce a value that is then measured against a minimum and maximum value to determine what and how much should be expanded. (Ranges are used only if a rule formula has been entered.)

Edit Rule			
Name:			
EXP_MX75_Automatic_Memory_Selection			
Description:			
This rule adds and selects the minimum required memory for an end user			
Comments:			
Rule Triggered on: <input type="radio"/> Failure <input checked="" type="radio"/> Success			
Fragments		If Not Specified	Actions
and	value(MX75_Mem_Auto_Select) = Yes	Rule is false	X Edit
()			
		X - Delete Edit	() - New Operator () - New Fragment
Message Actions			
Error		Add Item	
Type	Message	Delete	
Suggestion	RAM modules are autoselected based on your software choi	X	
Formula			
sum(MX75_Mem_Required) - sum(MX75_Mem_Ordered)			
Expansion Actions			
			Add Item
Min	Max	Otv	Item
			Delete

FIGURE 11. Memory Requirements Rule

The following example illustrates a business situation where creating an expansion rule formula is useful. A customer orders a workstation. The first fragment of the rule references a property called `MX75_Mem_Auto_Select` and is set to YES. The second fragment references two properties: `MX75_Mem_Ordered` and `MX75_Mem_Required`. If the `MX75_Mem_Auto_Select` is set to YES, and if the customer orders less memory (`MX75_Mem_Ordered`) than required (`MX75_Mem_Required`), then the rule formula result is used to expand the configuration to include the right amount of necessary memory. The customer is prevented from ordering an invalid workstation.

In this rule, a rule formula would be written as in Figure 11 on page 99. If the customer orders 64 MB of memory and the memory required is 128 MB, then the rule formula returns a result of 64. This result is evaluated against the min/max

ranges for results and finds that 64 falls within the range of a minimum of 64 and a maximum of 128. According to the table, when this happens, a quantity of 128MB of memory is selected (expanded).

Assignment

Another type of action that can result from a rule is Assignment. In this case, the Modeler can define a rule that results in a value (based on the rule formula) being assigned to a property designated by the modeler.

Rule Firing

The Sterling Configurator processes rules by a two step process. Within each level in a model hierarchy, it processes rules according to the order defined by the modeler when rules are attached to that level. See "To Modify a Rule" on page 590 for the steps to sequencing rules.

Within the model hierarchy itself, Sterling Configurator follows a process called "depth first traversal". At any node in the structure, Sterling Configurator traverses down through that node's children to the lowest level, then traverses back, firing rules as it goes.

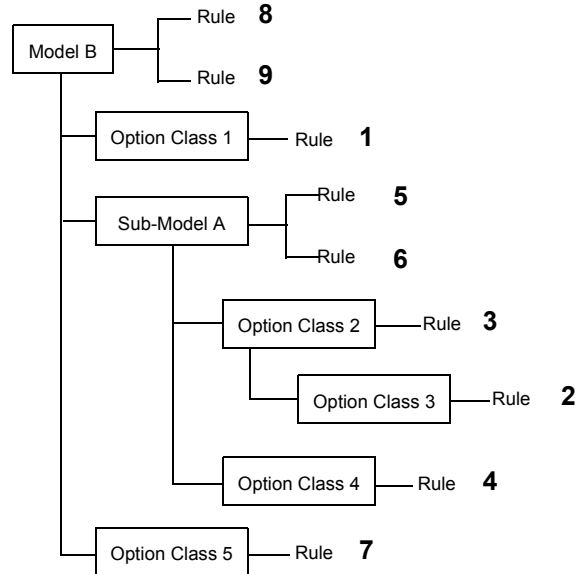


FIGURE 12. Rule Firing

For example, in Figure 12 on page 100, Sterling Configurator starts at the top and checks for any children, then traverses down to the first node. At this first node (Option Class 1), Sterling Configurator checks for children. Since none are found, Sterling Configurator fires any rules attached to this option class, in this case only one (1).

Sterling Configurator proceeds to the next node (Submodel A) and finds two children (Option Class 2 and Option Class 4). Option Class 2 has a child (Option Class 3) so Sterling Configurator traverses to that node. Since Option Class 3 has no children, Sterling Configurator fires the rules attached to Option Class 3 (2), then traverses back up the structure to the parent, Option Class 2, and fires the rule (3) attached at that node.

Sterling Configurator traverses to the next child of SubModel A, Option Class 4. Finding no children there, the rule attached to Option Class 4 (4) is fired. At this point, Sterling Configurator traverses to the parent, Submodel A, and fires the rules attached to that level (5 and 6).

Now, Sterling Configurator moves to the next node (Option Class 5) and, finding no children, fires the rule attached to Option Class 5 (7). Having fired all the rules attached to the children, Sterling Configurator now traverses back to the parent (Model B) and fires the rules attached to the parent (8 and 9).

Managing Option Constraints

When customers select certain option items, you might want to prohibit them from making other selections. For example, a car dealer might want to constrain certain interior colors of a car from being sold with certain exterior colors. Likewise, combinations of option items might constrain the selection of other option items. For example, if Option A and Option B are selected, then Option C is not a valid choice.

You can create these constraints by creating a constraint table for a particular model. The constraint table consists of two or more columns each of which represents an option class containing choices (option items) which may or may not be valid with the choices in the other columns. The constraints are defined by one or more constraint rows in the table. When you create the table, you can include a message (error, warning, or suggestion) that is displayed.



FIGURE 13. Option Constraints

The above figure shows a set of option constraints for the car example. When translated into a model for the customer, this table means that the customer's choices for Exterior Color and Interior Color must match a set of choices in one of the constraint rows: for example, Black and Silver, or Red and Green are valid choices, but not Black and Green.

You can also define a constraint row so that the choices for one column are not valid with the other columns. In this case, you want to constrain the customer's choices from matching any combination of items in an invalid row.

See "Option Constraints" on page 623 for more information about constraint tables.

Testing and Compiling the Model

As you create your model, you can test the model as you go along. Once you have created the model, you can easily click a button to compile the model into an XML file.

Copying and Embedding

You can copy or embed entities in the model group hierarchy. To copy an entity (model group, model, and so on) means to make a duplicate of a single entity (in the case of an option item) or of an entity and its structure (in the case of a model group, model, or option class group or option item group) within another location in the hierarchy. To embed an entity is to make a duplicate of the structure of an entity. For example, to embed a model is to take the model's structure and duplicate that

structure (option classes, groups, and so on) within a destination in the model group hierarchy. Copying or embedding is performed at different location in the Sterling Visual Modeler interface. See the individual tasks related to copying or embedding in CHAPTER 16, "Using the Visual Modeler" for more information.

When you are copying or embedding, attached properties follow certain rules:

- If properties attached to the item being copied or embedded are not defined anywhere among the ancestors of the destination, then the property is defined locally.
- Where there is a conflict between a property attached to an item being copied or embedded and a property attached to the destination, the property attached to the item being copied or embedded is dropped.

Figure 14 on page 104 shows a model group hierarchy before and after embedding. In this example, you are embedding Option Class Group 1 (OCG1) under Model 1 (MOD1). In OCG1, Property P1 (defined in Model Group 1 as INT) is attached to Option Class 1 (OC1). After embedding, a conflict will exist since, In MOD1, Option Class 3 (OC3) also has a Property P1 (defined in MG2.1 as STRING). Sterling Visual Modeler resolves the conflict by dropping the P1 attachment to the newly embedded OC1.

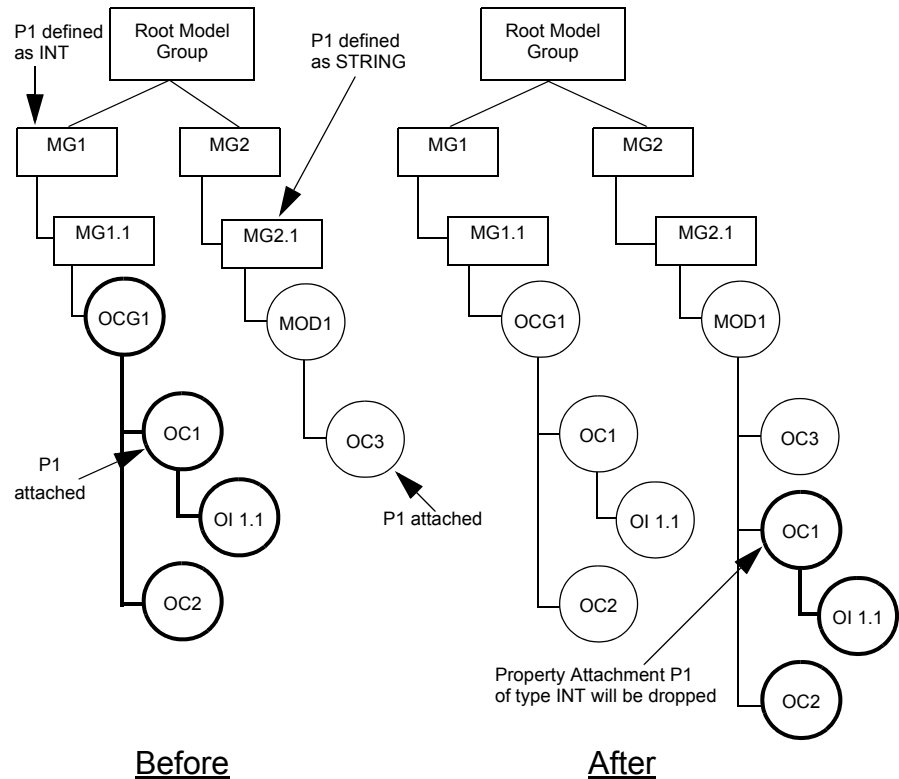


FIGURE 14. Property Conflict During Embedding

Importing and Exporting

You can import or export model groups or models in the form of **XML** files. When you import, you can choose to import a model group or model to a specific destination or you can import the model group or model with its structure relative to its original root model group. This means that, rather than choosing a destination model group, the model group or model will be placed relative to the destination root model group in the same position relative to its original root model group without compromising the integrity of the destination (existing paths, and so on).

For example, in Figure 15 on page 105, Model **MOD1** (located in Model Group **MG2.1** which is located in **MG2**) is being imported into **MG2** on the right. It is being imported relative to the root model group. In the destination hierarchy, there

is indeed a Model Group **MG2**. However, there is no Model Group **MG2.1** within the destination **MG2**. During import, the process will recreate the original structure relative to the root by creating a new Model Group, **MG2.1**, in the destination. This is correct since it will not compromise any models already existing under **MG2**.

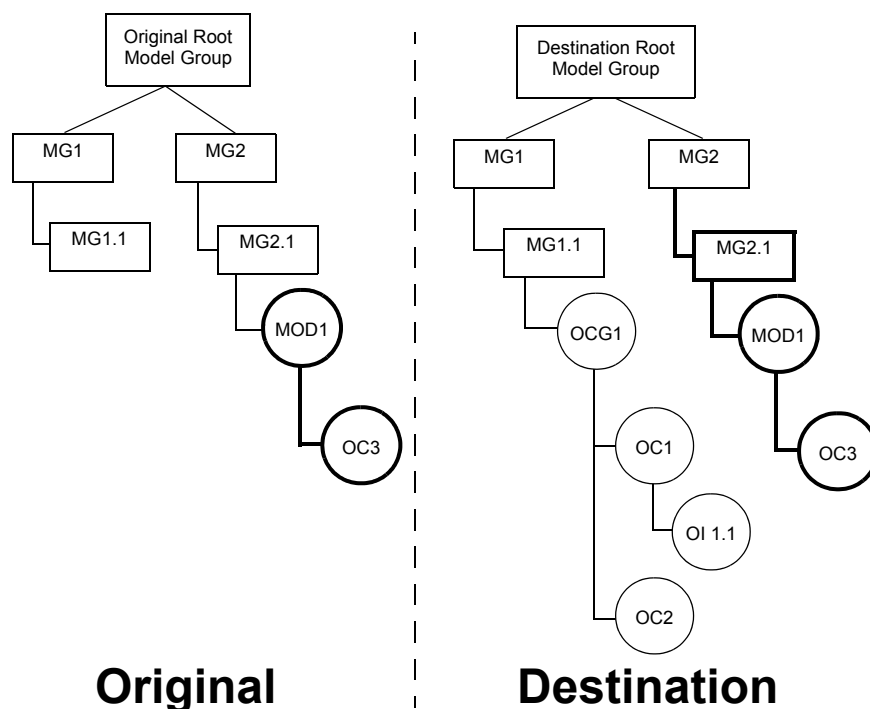


FIGURE 15. Importing Relative to the Root Model Group I

In Figure 16 on page 106, Model **MOD1** (located in Model Group **MG2.1** which is located in **MG2**) is being imported into **MG2** on the right. It is being imported relative to its original root under **MG2.1**. In the destination hierarchy, there is indeed a Model Group **MG2**. However, there is no Model Group **MG1A**. To create **MG1A** above the existing **MG2** would compromise the integrity of any entities within **MG2**. In this case, therefore, the process satisfies the import requirements by creating a new branch: **MG1A**, **MG2**, **MG2.1**, and the imported **MOD1** with **OC3**.

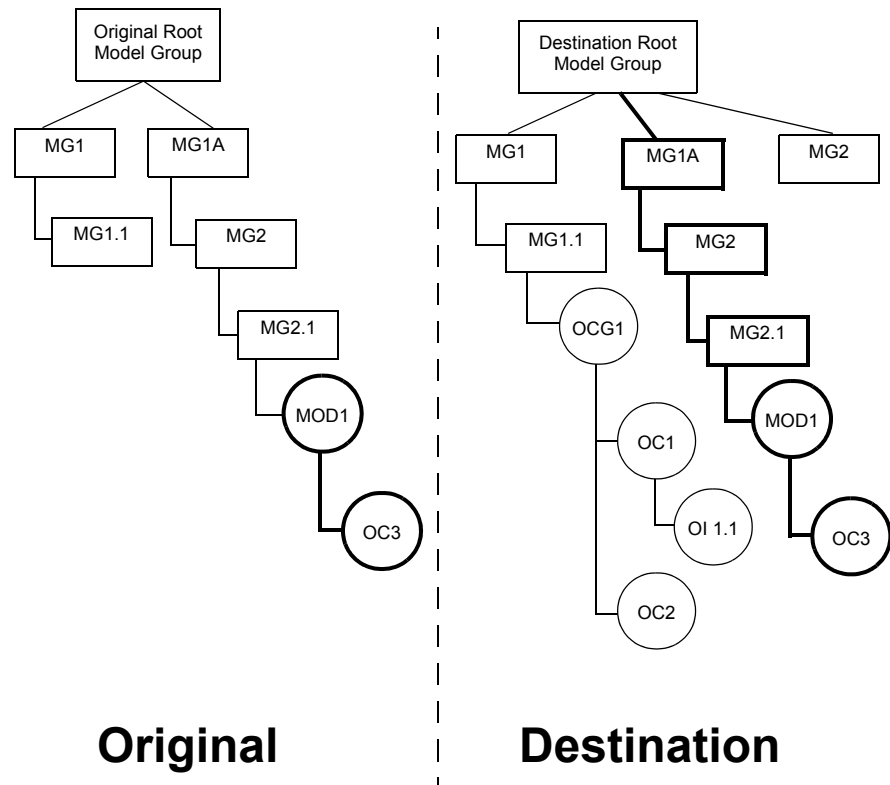


FIGURE 16. Importing Relative to the Root Model Group II

Properties, Rules, Lists, Option Groups, and Sub-Models

When you import entities, the process handles properties, rules, lists, and option groups differently, depending on whether you are importing a structure as relative to its original root, or whether you are importing to a specific location without regard to its original root.

When you import a structure relative to its original root, the process handles these items in the following manner:

- Properties, Rules, and Lists

The process examines the ancestral chain of the destination for the definitions of the entities. If they are found, then you are prompted as to whether you want to overwrite or not overwrite the entities with the

definitions of the attached entities. The entities need not be defined in the same location as in the imported structure. If the definitions are not found in the destination, then the process creates them in the same location in the destination as in the original.

- Option Class Groups, Option Item Groups, and Sub-Models

At the destination, the process examines the path in the destination:

- If the path in the original exists in the destination, and if a definition of the item already exists at the same location as in the original, then you are prompted to either overwrite or not overwrite the definition.
- If the path in the original exists in the destination, but if a definition of the item does not exist at the same location as in the original, then the item is created at the same location in the path.
- If the same path does not exist, then the path is created and the item is created at the same location in the path.

When you import a structure to a specific destination, the process handles properties, rules, lists, and groups in the following manner:

- Properties, Rules, and Lists

The process examines the ancestral chain of the destination for the definitions of the entities. If the definitions are found, then you are prompted as to whether you want to overwrite or not overwrite the entities with the definitions of the attached entities. The entities need not be defined in the same locations in the destination as in the imported structure. If the definitions are not found in the destination, and if the structure does exist, then the entity is created at the same location in the structure as in the original. If the location does not exist, then the entity is created as part of the immediate parent to the structure being imported.

- Option Class Groups, Option Item Groups, and Sub-Models

At the destination, the process examines the path in the destination:

- If the path in the original exists in the destination, and if a definition of the item already exists at the same location as in the original, then you are prompted to either overwrite or not overwrite the definition.
- If the path in the original exists in the destination, but if a definition of the item does not exist at the same location as in the original, then the item is created at the same location in the path.

- If the same path does not exist, then the location is created and the item is created at the same location in the path. For example, in Figure 17 on page 108, **MOD1** is being imported into **MG2**. **MOD1** has an option class group attached which is defined at **MG2.1**. **MG2.1** does not exist under **MG2**. Therefore **MG2.1** is created under **MG2**, the option class group is created at **MG2.1** and the **MOD1** is imported under **MG2**.

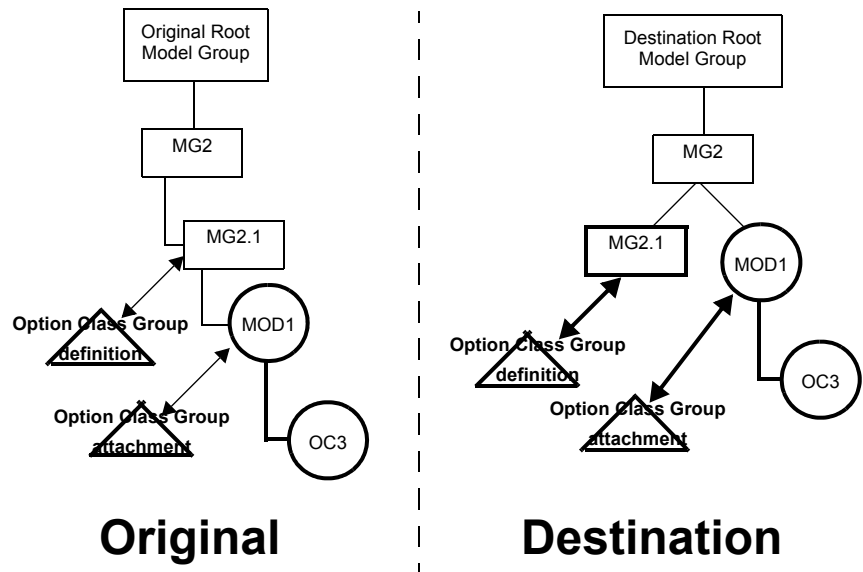


FIGURE 17. Importing to a Specific Location - Groups and Sub-Models

Searching

You can search the model hierarchy for entities that contain property names or property values that you specify as parameters for the search. You can use the entire hierarchy for your search, or you can limit your search to model groups, models, option classes, option items, or rules. You can also limit your search to the currently selected model group, model, option class group, or option item group. See "Searching" on page 637 for more information.

Reporting

You can run a report on any of the models created with the Sterling Visual Modeler. You define the criteria that the report will include:

- Definitions: rule, list, and property

- Model hierarchy: display settings, attached properties, attached rules, whether groups will be expanded, whether complete paths will be shown
- Constraint tables

This chapter provides a guide to using the Web UI to administer the Sterling Multi-Channel Selling Solution. See CHAPTER 5, "Administration Interface in Sterling Advisor" for a description of the Sterling Advisor administrative interface.

This chapter covers the following topics:

- "Accessing the Administration Interface" on page 111
- "General Navigation Tips" on page 112
- "Search Capabilities" on page 115

Accessing the Administration Interface

To begin an administration session, you access the Sterling Multi-Channel Selling Solution enterprise home page by pointing your browser to the home page URL. The URL is provided by your system administrator and has the following form:

```
http://<server>:<port>/en/US/Sterling/enterpriseMgr/matrix
```

You login with a username and password provided by your system administrator.

Once you have accessed the Sterling Multi-Channel Selling Solution home page, the home page displays links to the various modules as shown below. The modules that appear depend on the entitlement functions assigned to you. See "Managing the Sales Channel" on page 3 for an overview of entitlement functions.

The screenshot shows the 'Administration' section of the Sterling Multi-Channel Selling Solution. The header includes the 'COMERGENT eBusiness System' logo and navigation links: 'My Home', 'My Account', 'About', 'Help', and 'Logout'. A welcome message 'Welcome Alison Jones' is displayed. The main content area is divided into several sections:

- Commerce Activity**: Includes links for 'Opportunity & Proposal Activity', 'Customer Account Activity', 'Task Management', and 'Payment History'.
- Product and Catalog Administration**: Includes links for 'Product Master', 'Configuration Models', 'Advisor Flows & Questionnaires', and 'Product Entitlements'.
- Pricing Administration**: Includes links for 'Price Lists', 'Pricing Rules', 'Promotions', and 'Coupons & Promotional Prices'.
- Channel Management**: Includes links for 'Organization Lookup', 'Lead Activity', 'Campaigns', and 'Partner Programs'.

On the right side, there are two search sections:

- Search for Organization by Name**: Features a 'Profile Name' input field, a 'Go' button, and a link to 'Advanced Search'.
- Search for User by Name**: Features input fields for 'Username', 'First Name', and 'Last Name', a 'Go' button, and a link to 'Advanced Search'.

Below these are two task lists:

- My Tasks**: A table with columns 'Task ID', 'Name', 'Last Modified', and 'Status'. It lists two tasks with IDs 600503 and 600500, both named 'Order on Credit ...', with last modified dates of 9/11/2005 and 9/9/2005, and status 'New'. A 'More' link and 'Advanced Search' link are present.
- Team's Tasks**: A table with the same columns as 'My Tasks', currently empty.

FIGURE 18. Sterling Multi-Channel Selling Solution Home Page

General Navigation Tips

The Sterling Multi-Channel Selling Solution user interface is designed to be simple and intuitive. In general, pages served up by the Sterling Multi-Channel Selling Solution have the same basic structure:

- an upper navigation bar
- a content panel which is either a list or a detail page

The following figure shows a sample page.

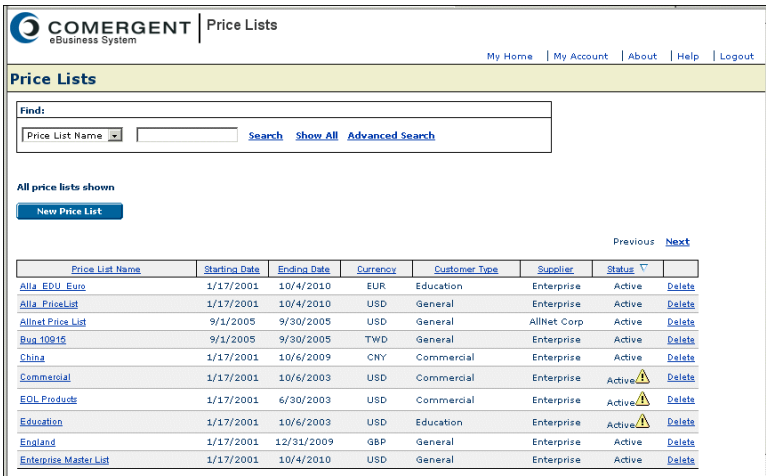


FIGURE 19. Pricing Administration List Page

Navigation Bar

The navigation bar has general navigation links, as shown in the following figure.. On the right, buttons enable you to access the online help and to log out.



FIGURE 20. Navigation Links

The **About** link is used to ascertain the Release version of the Sterling Multi-Channel Selling Solution.



FIGURE 21. About Link

Content Panel

The content panel displays the primary information to assist you in your task. It is used to display a list of search results (as shown in Figure 19 on page 113), the details of a partner profile, shopping carts, and so on. List pages sometime contain check boxes next to each line that enable you to select one or more items for applying one of the actions you can perform on the items. You can click the Select

All check box at the top of the column to select all the items on the current page. (Note that this does not select items on any page other than the current page.)

Some applications use a multi-panel frame consists of a navigation panel on the left and a content panel on the right. The panel on the right often consists of one or more tabbed panels. The multi-panel frame is used to display product management screens (as shown in Figure 22 on page 115) or screens used to manage Sterling Advisor information.

Note	See CHAPTER 5, "Administration Interface in Sterling Advisor" for information about the Sterling Advisor interface.
-------------	---

When the content frame appears as a multi-panel frame, the Navigation Panel on the left provides access to items in the form of a directory tree.

In some cases, this consists of a product hierarchy. You can either click on a product category to see the products within the category, or click on the triangle next to the product category to see child product categories within the parent. In Product Administration (shown in Figure 22 on page 115), if you click on the product category, then you not only see the products in the category, but you also see information about the product in the Content Panel to the right.

In the case of Sterling Advisor, the navigation panel appears as a hierarchy of folders. Folders can contain sub-folders, items, or both. See CHAPTER 5, "Administration Interface in Sterling Advisor" for more information about using the Sterling Advisor interface.

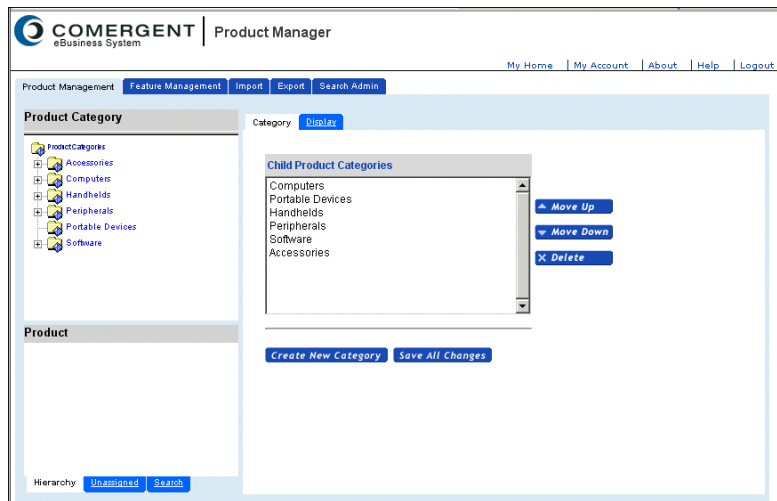


FIGURE 22. Product Manager Page

The Content Panel sometimes appears as a list to which you can assign products. In other cases, it provides detailed information about an item selected in the Navigation Panel. In many cases, it appears as a series of tabbed panels, each of which provides different types of information. When you create certain items, for example a partner, you must remember to enter information in the appropriate panels.

Search Capabilities

The Sterling Multi-Channel Selling Solution offers advanced search capabilities through its administration interface. You can search for most objects, such as users, partners, orders, and so on by specifying one or more attributes.

You can use wild card characters such as "*" to help you in your search. Bear in mind that "_" is treated as a single wild card character. For example, if you search for "C_a*", then the results will include matches to "Craftsman", "Chapel Hill", as well as to "C_anchor".

The Sterling Advisor application enables your customers to identify a product or set of products in which they are interested. Once identified, products can be compared, configured (if necessary), and purchased. By creating an appropriate questionnaire, you greatly simplify your customers' process of buying your products while enhancing the overall customer experience.

This chapter first discusses the concepts involved in creating an effective questionnaire, then walks you step-by-step through the creation process.

Attention: Sterling Advisor will not work unless you create and activate a search index. See "Administering Advanced Search" on page 437 for more information.

This chapter covers the following topics:

- "Feature Types and Features" on page 118
- "Resources and Resource Types" on page 118
- "Questions and Answers" on page 118
- "Questionnaire Pages" on page 121
- "Rules in Sterling Advisor" on page 122
- "The Sterling Advisor Questionnaire" on page 122

- "About the Questionnaire" on page 123
- "Rules in the Sterling Advisor" on page 125
- "Designing the Questionnaire" on page 134
- "Building the Questionnaire" on page 144

Feature Types and Features

Feature types and features are characteristics of products that you use when you create a questionnaire in Sterling Advisor. These form the answers to questions posed by the customer during the guided selling experience.

See "Feature Management in Sterling Product Manager" on page 70 for an explanation of these elements.

Resources and Resource Types

Resource is the term used to describe an electronic media attribute that you can associate with a business object. Resources can be of many kinds: URLs, image files, sound files, and text files to name a few. You can assign any or all of these media to any of your business objects (except rules and resource types). When an entity is displayed (for example, in a questionnaire), the resource can be displayed or accessed along with it. For example, you assign a resource (an image) to a feature (a processor). During the guided selling experience, the end-user sees the processor as a selection and also sees the image of the processor.

How resources appear to your customers is up to you. You can have resources displayed directly in pages generated by the Sterling Advisor. Alternatively, resources can be links to other pages, or even other applications. Note that you must customize your JSP files to display resources.

Each resource is a member of a specific *resource type*. Resource types are business objects that you create in Sterling Advisor Administration.

Questions and Answers

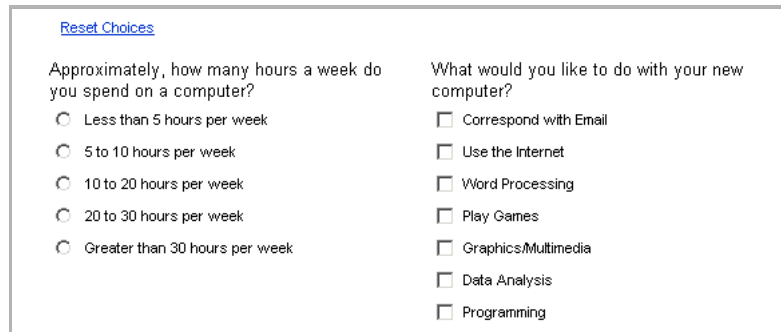
Questions are business objects that define the conditions that will narrow down a customer's search for products. The answers to these questions are associated with features used to filter down the resulting product list.

Questions

Questions posed to a customer in a questionnaire enable you to help the customer to find product(s) that match the customer's needs. Questions are reusable on multiple questionnaire pages.

We suggest that you start with general questions to help limit a customer's choices, then write more specific questions. For example, if a customer is purchasing a dishwasher, then the general question, "Do you want a portable or under-counter dishwasher?" should be asked before the more specific question, "Do you want your dishwasher to have heating capability?" particularly if portable models do not offer heating capability.

It is helpful to think of each question as a single question and its collection of possible answers. This collection of a question and its answers are displayed on a questionnaire page as a *palette*. Figure 23 on page 119 shows an example palette that presents two questions and their answers.



[Reset Choices](#)

Approximately, how many hours a week do you spend on a computer?	What would you like to do with your new computer?
<input type="radio"/> Less than 5 hours per week	<input type="checkbox"/> Correspond with Email
<input type="radio"/> 5 to 10 hours per week	<input type="checkbox"/> Use the Internet
<input type="radio"/> 10 to 20 hours per week	<input type="checkbox"/> Word Processing
<input type="radio"/> 20 to 30 hours per week	<input type="checkbox"/> Play Games
<input type="radio"/> Greater than 30 hours per week	<input type="checkbox"/> Graphics/Multimedia
	<input type="checkbox"/> Data Analysis
	<input type="checkbox"/> Programming

FIGURE 23. Sample Palette

Within Sterling Advisor, questions consist of properties, answers and (optionally) resources. The properties of a question are:

- **Name**
This is the name you give to the question for internal use. It is not displayed to customers. The name is used in the Navigation panel, and needs to be unique; for example, "Heating Function".
- **Question Text**
This is the text of the question as your customer sees it; for example, "Do you want your dishwasher to have heating capability?".

- **Description**

This is your description of the question for internal use. Use this field to briefly describe the question so that you and other Sterling Advisor administrators understand the purpose of the question; for example: "This question determines whether the customer wants the dishwasher to heat the water. If customers answer 'Yes', then filter products based on whether they have one of the heating features."

- **Control Type**

What kind of control will be assigned to the answers. These are the possible selections:

- Radio button controls only permit the customer to select one answer to the question. Selecting one radio button automatically deselects any other radio buttons for that question.
- Check box controls permit the customer to select zero or more answers to the question.
- Drop-down list controls only permit the customer to select one answer to the question.

- **Filter Logic**

You can select either AND or OR. If you select AND, then products will only be matched if they have features associated with all of the answers selected to this question. If you select OR, then products will be matched if they have features associated with at least one of the answers selected to this question.

Answers

In the questionnaire, answers are the response to the conditions posed by a question. Within Sterling Advisor, answers are child objects of questions, and have the following properties:

- **Name**

This is the name you give to the answer for internal use; for example: "Yes to Heating".

- **Answer Text**

This is the text of the answer as your customer sees it; for example, "Yes".

- Description

This is your description of the answer for internal use. Use this field to briefly describe the answer so that you and other Sterling Advisor administrators understand the purpose of the answer; for example: “If customers answer ‘Yes’, then filter for products that have one of the heating features.”.

- Filter Logic

You can select either AND or OR. If you select AND, then products will only be matched if they have all of the features associated with this answer. If you select OR, then products will be matched if they have at least one of the features associated with this answer.

In addition, answers have both features and (optionally) resources assigned to them. The assignment of features to answers is crucial to the creation of the questionnaire, for it is this assignment that enables the Sterling Advisor to find products based upon the answers your customers select in your questionnaire.

Questionnaire Pages

Questionnaire pages are containers for questions. Your primary task in creating a questionnaire page is to define the questions it will display.

You will set one of your questionnaire pages to be the *start page*: the first page displayed in your questionnaire. In addition, the questionnaire includes an *end page*. The end page is the page that appears when your customers reach the end of the questionnaire. This is defined as the state when there are no more rules to test against the state. When customers reach this page, their product list is as refined as it can be, based on the decisions they have made. This page shows the refined product list as well as a summary of the questions and answers on which the list is based.

You can also define a template JSP page to render the questionnaire page (to supersede the default JSP page).

Rules in Sterling Advisor

In the Sterling Advisor, rules are logical expressions with an IF/THEN syntax, and their definition determines what happens when your customers use your questionnaire.

Note:	Sterling Advisor rules are distinct from the rules in Sterling Visual Modeler. For an explanation of rules in Sterling Visual Modeler, see "Rules in Sterling Visual Modeler" on page 92.
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The definition of a rule includes its name, description, IF clause, THEN clause, and priority.

The *name* of a rule is the designation you give the rule for internal use only. The name of the rule is used in the Sterling Advisor Administration Navigation panel, and must be unique.

The *description* of a rule is for internal use only, and is optional. You may choose to give a rule any description you like, or none at all.

The *IF clause* defines the state that must exist in order for the rule to be executed. In the Sterling Advisor, *state* is a special term that defines at any moment which questionnaire page the customer is viewing, what facts have been specified, and which rules have been executed. The state must satisfy all of the arguments in a rule's IF clause in order for the rule to be executed.

The *THEN clause* defines what action the Sterling Advisor will take when the rule is executed.

Priority determines the order in which rules are tested against the current state. Rules with a smaller numerical value are tested before rules of larger value.

The Sterling Advisor Questionnaire

The concepts discussed in the previous sections are used to create the collection of questionnaire pages known as the Sterling Advisor questionnaire. The remainder of this chapter contains a discussion of the design and creation of a questionnaire.

The Sterling Advisor questionnaire is used to ask each customer questions to determine their business needs. As a customer enters their answers, the Sterling Advisor filters out products that do not meet the customer's requirements. By reducing the set of possible product choices, you can reduce the customer's purchase decision to choosing from a small number of acceptable products, all of which meet the customer's stated requirements.

The responses to each question serve to restrict the list of acceptable products from the list of available products. If you use multiple questions, then they are used to filter out available products that do not meet *all* the requirements selected. The list of acceptable products can also serve as the starting point for the product comparison tool.

Each questionnaire comprises a set of questionnaire pages or Web pages that are displayed to the customer. A questionnaire page is made up of one or more *questions*. Each question is associated with one or more questionnaire pages. A question is displayed on a questionnaire page with one or more possible *answers*. This grouping of a question and its answers on a questionnaire page is a palette. A question has one or more answers that are displayed on the palette.

Answers are used to specify the features that are used to filter the list of available products once a user has made their selections on the questionnaire page. Each answer has one or more *features* assigned to it. Since features are also assigned to products (this is done in the Sterling Product Manager), answers are indirectly connected to products. When a customer selects an answer, only those products that have the features assigned to that answer are included in the resulting list of products.

About the Questionnaire

In the Sterling Advisor, a questionnaire is a collection of questions and answers integrated with a set of rules that, when applied to your list of products, generate a refined product set.

How the Questionnaire Works

There are two ways to look at how the questionnaire works: how your customers experience it, and how it works for you.

Customer Experience

From your customers' point of view, the questionnaire is a series of one or more Web pages containing questions and answers. By answering the questions, your customers identify which of your products interest them.

Administrator Experience

You create the questionnaire pages that make up your questionnaire, decide what questions and answers should appear on each questionnaire page, and write the rules that determine how the questionnaire behaves.

Components of the Questionnaire

There are several components that make up the questionnaire. Each of these components serves a specific purpose. They are:

- *Features* are assigned to products. The Sterling Advisor uses them to differentiate between products.
- *Feature types* are categories of features.
- *Feature type groups* are attributes of feature types.
- *Questionnaire pages* are the pages that make up your questionnaire. Each questionnaire page displays one or more questions.
- *Questions* are the building blocks of questionnaire pages.
- *Answers* are possible responses to the question text posed by a question. The *Answers* frequently consist of the *Features* assigned to a product.
- *Resources* are supplemental media that can be assigned to any entity. Commonly, resources include such things as photographs, data sheets, product or feature descriptions, white papers, and URLs.
- *Resources types* are categories for resources.
- *Rules* are the logic behind the questionnaire. They are used to determine actions based on customer decisions.

Note that even though the questionnaire is used to identify products, products are not managed by the Sterling Advisor, but rather by the Sterling Product Manager. Features can be created in both Sterling Advisor Administration and Sterling Product Manager: they are assigned to answers using Sterling Advisor Administration, and are assigned to products using Sterling Product Manager. Features are thus assigned both to answers (in Sterling Advisor Administration) and to products (via the Sterling Product Manager).

Rules for Creating the Questionnaire

Sterling Advisor will work effectively assuming a reasonable product catalog. See "Guidelines for Creating a Product Catalog" on page 66 for the guidelines for creating a product catalog. The guidelines for creating a reasonable questionnaire are as follows:

- The Product list presented on each Sterling Advisor page should not exceed 50 products to ensure reasonable performance and make the number of available choices intelligible to the end user.

- Questionnaires should contain between 40 rules and 100 rules.
- Questionnaires should have between 20 and 100 Sterling Advisor Questionnaire Pages.

Note that these are not absolute limits for what the Advisor product can handle. These limits are meant as guidelines for the size and characteristics of a set of product information under which Sterling Advisor operates most effectively.

Rules in the Sterling Advisor

Defining the right rules is the key to building the questionnaire, because rules determine how the questionnaire behaves. To understand this, you need to understand what the questionnaire is doing in Sterling Advisor.

Rules are statements you create that are designed to determine questionnaire behavior and identify a set of criteria used to filter the product list. A rule comprises an IF clause and a THEN clause. If the state satisfies the IF clause, then the THEN clause is executed. An example of a rule is:

```
IF Questionnaire Page = 1 AND Question1 = D
  THEN Questionnaire Page = 2
```

This rule translates to: if the customer is on questionnaire page 1 and selects answer “D” in question 1, and then clicks **Next**, then display questionnaire page 2.

Terminology

To understand rules, you need to be familiar with the following terms:

- **State**
The *state* defines where the customer is within the questionnaire. It is a combination of which questionnaire page they currently see, which choices they have made thus far, and which rules have been executed. As customers progress through the questionnaire, the Sterling Advisor updates the state.
- **Session**
Whenever a customer logs into the Sterling Multi-Channel Selling Solution, they begin a *session*. When they launch the questionnaire, the Sterling Advisor begins to store the state of the questionnaire within the session. State information is kept in the session as long as the customer remains within the questionnaire. Once they leave the questionnaire, their state is lost. If the customer subsequently returns to the questionnaire, then they automatically return to the start page.

- Rule Priority

Priority determines the order in which rules are tested against a state. Each time you create a rule, you assign a priority to it. Specific ways to use rule priority are discussed in the section "Rule Priority" on page 129 and also in the section "Rule Authoring Tips" on page 131.

- Rule Testing

When a customer clicks **Next**, the Sterling Advisor *tests* each rule against the current state. When the state satisfies a rule, Sterling Advisor executes that rule.

- Rule Satisfaction and Execution

When the Sterling Advisor tests a rule against the current state, it compares the state to the "IF" clause of the rule. If the state meets the requirements of the rule, then the state is said to *satisfy* the rule. If the state satisfies the rule, then Sterling Advisor *executes* the rule. Note that when a rule has been executed, the fact that it has been executed becomes part of the state. Rules that have already been executed are not tested against the state again in the same session.

- Facts

Facts are the elements of rules that can be used to filter the product list. In the example:

```
IF Questionnaire Page = 1 AND Question1 = D
    THEN Questionnaire Page = 2
```

"Question1 = D" is a fact.

- Product List

The *product list* is the list of all products that meet the current state. Each time the customer clicks **Next**, the Sterling Advisor updates the current state. Sterling Advisor then uses the facts in the updated state to filter the product list.

- Start Page

The *start page* can be any one of the questionnaire pages you create, or it can be a URL. When you set a questionnaire page as the start page, you designate it to be the questionnaire page that all customers see first. This will be used unless the start state URL is used.

- End of the Questionnaire

When your customers reach a point in the questionnaire where there are no more questionnaire pages to display, and thus no more questions to be answered, they reach the end of the questionnaire. At this point, the Sterling Advisor displays the end page with the message "No More Questions". The page also contains the refined list of products as well as a list of the questions and answers that resulted in the final list.

Rule Execution

Sterling Advisor operates the questionnaire based on an evolving state. Each time the customer clicks **Next**, Sterling Advisor tests unexecuted rules against the state, one at a time in the order of their priority. When the state satisfies a rule, Sterling Advisor executes the rule's THEN clause. If the rule's THEN clause includes facts, then these facts are added to the state. What happens next depends on the rule:

- If the rule's THEN clause defines the next questionnaire page to display, then Sterling Advisor stops testing rules and displays that questionnaire page.
- If the rule's THEN clause does not define the next questionnaire page, then Sterling Advisor continues testing rules against the updated state, starting with the next rule in order of priority. This process continues until Sterling Advisor executes a rule that defines the next questionnaire page.

Once Sterling Advisor begins to test rules against the current state, the testing process continues until a rule is executed that brings the user to a new questionnaire page. If no such rule exists (that is, if there are no more questionnaire pages to display), then Sterling Advisor automatically displays the "end" page.

If a customer:

- Uses either the **Previous Questionnaire Page** button or their browser's **Back** button to go to a previous page in the questionnaire, the state reverts to what it was on that page.
- Makes a combination of selections that result in an empty product list, Sterling Advisor displays a page informing the customer that there are no products that meet their search criteria.

Rule Construction

Rules are logical statements you create in Sterling Advisor Administration. Rules have the following key elements:

IF clause	The <i>IF clause</i> determines when the rule is executed. When the rule is tested against the state, the IF clause is compared to the state. The rule is only executed if the current state satisfies all of the arguments in the IF clause.
THEN clause	The <i>THEN clause</i> determines what action the Sterling Advisor will take when the rule is executed. These actions are adding facts to the state, which questionnaire page to display next, and whether or not to display specific answers.
Priority	<i>Priority</i> determines the rule's place in the sequence of rules to be tested against the state.

The syntax of a rule is:

```
IF
    <arguments that must be satisfied by state>
THEN
    <results of rule execution>
```

The IF clause and the THEN clause are composed of the following kinds of arguments:

One "Questionnaire page" argument	Both the IF clause and the THEN clause can include a questionnaire page. In an IF clause, a questionnaire page defines which questionnaire page the customer must be viewing in order for that rule to be satisfied. In a THEN clause, a questionnaire page defines which will be the next questionnaire page to be displayed.
One or more AND modifiers	AND arguments refine clauses and can only be used with question facts. In an IF clause, an AND argument adds an additional requirement for a state to satisfy the rule. In a THEN clause, an AND argument determines that an answer is selected.
One or more AND NOT modifiers	An AND NOT argument is the same as an AND argument, except that it specifies that an answer not be selected. In an IF clause, this means that the state cannot satisfy the rule unless that specific answer is not selected. In a THEN clause, using AND NOT specifies that an answer that would normally appear on the page will not be displayed.

Table 15 on page 129 shows some examples of rules and the behavior they define:

TABLE 15. Sample Rules and Translations

Rule Syntax	Translation
IF Questionnaire Page = Alpha THEN Questionnaire Page = Beta	Execute this rule only if the customer is on questionnaire page Alpha. When they click Next , display questionnaire page Beta.
IF Question 1 = 600MHz THEN Questionnaire Page = Gamma	Execute this rule only if the customer has selected 600MHz in Question 1. When they click Next , display questionnaire page Gamma.
IF Questionnaire Page = Alpha AND Question 1 = 600MHz THEN Questionnaire Page = Delta	Execute this rule only if the customer is on questionnaire page Alpha and has selected 600MHz in Question 1. When they click Next , display questionnaire page Delta.
IF Questionnaire Page = Alpha AND Question 1 = 600MHz THEN Questionnaire Page = Delta AND Question 2 = 128MB	Execute this rule only if the customer is on questionnaire page Alpha and has selected 600MHz in Question 1. When they click Next , display questionnaire page Delta with the answer 128MB in Question 2 selected.
IF Questionnaire Page = Alpha AND Question 1 = 600MHz THEN Questionnaire Page = Delta AND NOT Question 2 = 128MB AND NOT Question 2 = 192MB	Execute this rule only if the customer is on questionnaire page Alpha and they have selected 600MHz in Question 1. When they click Next , display questionnaire page Delta, but do not display the answers 128MB and 192MB in Question 2.

Note that while both the IF clause and the THEN clause must each have at least one argument, it is not necessary for either clause to have a questionnaire page specified.

Rule Priority

Priority is an integer value you assign to a rule, used to determine in which order rules will be tested by the Sterling Advisor against the state. The smaller the number, the higher priority the rule has. Rules of higher priority are tested before rules of lower priority. Thus, a rule of priority 4 will be tested against the state after a rule of priority 2, and before a rule of priority 6.

Consider the following rules, listed in the order in which they were created:

```
RuleA: IF Questionnaire Page = A
      THEN Questionnaire Page = B
RuleB: IF Questionnaire Page = A AND Question1 = Z
      THEN Questionnaire Page = E
RuleC: IF Questionnaire Page = A AND Question1 = X
      THEN Questionnaire Page = C
RuleD: IF Questionnaire Page = A AND Question1 = Y
      THEN Questionnaire Page = D
```

In this example, if a customer reaches questionnaire page A, then there are four possible questionnaire pages they might see next. Which page they see depends on the choice they make in questionnaire page A. However, if the Sterling Advisor tests the rules in the order shown, then the customer will *always* go to questionnaire page B: because RuleA is always satisfied when a customer is on questionnaire page A.

In actuality, the rules author needs to have the Sterling Advisor test each of the other rules in the list before it tests RuleA. So the author assigns priorities to the rules:

```
RuleA: (priority 30)
RuleB: (priority 20)
RuleC: (priority 10)
RuleD: (priority 18)
```

The priorities assigned to these rules may seem arbitrary, but they determine the order in which the rules will be tested against the state. The Sterling Advisor will now test the rules in this order:

```
RuleC: IF Questionnaire Page = A AND Question1 = X
      THEN Questionnaire Page = C
RuleD: IF Questionnaire Page = A AND Question1 = Y
      THEN Questionnaire Page = D
RuleB: IF Questionnaire Page = A AND Question1 = Z
      THEN Questionnaire Page = E
RuleA: IF Questionnaire Page = A
      THEN Questionnaire Page = B
```

The result is that the customer goes to questionnaire page B only if they have not selected X, Y, or Z.

Note that when you assign priorities to rules, you don't have to number them sequentially. Since priorities must be integer values, it is often a good idea to intentionally leave gaps. Thus, if you had intended to assign priorities such as 1, 2 and 3, then consider assigning priorities of 10, 20, and 30 instead.

Note that if you assign the same priority to multiple rules, then the Sterling Advisor will test those in alphanumeric order by rule name. For example:

You have created 12 rules. Listed in order of their creation, their names and priorities are:

```
RuleA: Priority 10
RuleB: Priority 20
RuleC: Priority 30
RuleD: Priority 40
RuleE: Priority 50
RuleF: Priority 35
RuleG: Priority 45
RuleH: Priority 25
RuleI: Priority 7
RuleJ: Priority 30
RuleK: Priority 20
RuleL: Priority 27
```

Note that the syntax of rules is not relevant to the order in which the Sterling Advisor tests them against the state. The *name* you give to a rule *is* relevant, in that if two or more rules have the same priority, then the Sterling Advisor tests those rules against the state in alphanumeric order. Thus, these rules would be tested in the following order:

```
RuleI: Priority 7
RuleA: Priority 10
RuleB: Priority 20
RuleK: Priority 20
RuleH: Priority 25
RuleL: Priority 27
RuleC: Priority 30
RuleJ: Priority 30
RuleF: Priority 35
RuleD: Priority 40
RuleG: Priority 45
RuleE: Priority 50
```

The use of priorities is discussed further in the section "Rule Authoring Tips" on page 131.

Creating the syntax of a rule and determining its priority are only part of the process of creating a rule. For a complete description of the process, see "To Create a Rule" on page 829.

Rule Authoring Tips

The example shown in "Rule Priority" on page 129 is only one case where the rules author needs to create rules in a specific way to achieve the necessary result. There are a few instances where specific construction and ordering of rules may be required. The tips that follow show you how to handle some potential problems.

Creating Default Rules

As you create your rules, you should keep in mind one characteristic of the Sterling Advisor: once it begins testing rules against the current state, it continues to do so *until it executes a rule that causes it to display a new questionnaire page*. If there is no such rule, then the Sterling Advisor jumps to the end page and ends the questionnaire.

This functionality can be useful, since it helps streamline the product selection process. On the other hand, if you accidentally omit or delete a rule that you need, then a customer that makes the “wrong” choice bypasses the remainder of the questionnaire and winds up at the end page.

One way to avoid this is to create a default rule for each questionnaire page in the questionnaire, defining what the next questionnaire page needs to be if no other rule is executed from the questionnaire page. The syntax for such a default rule is:

```
IF Questionnaire Page = <qpage1>
  THEN Questionnaire Page = <qpage2>
```

Assign this rule the lowest priority of all of your rules, to ensure that any answer-specific rule that might be satisfied by the state is executed before this rule. Thus, this rule will only be executed if there is no other rule satisfied by the state.

Note: Once this rule is executed, then it cannot be re-used.

Note that the design of your questionnaire will determine whether or not you have need of these default rules. In some cases, jumping directly to the end of the questionnaire may be considered a desirable thing.

Using AND NOT Arguments to Disable Answers

There may be instances when one of your questions affects another, and an answer your customer chooses on one questionnaire page needs to limit the available answers on a subsequent questionnaire page. Consider this example:

You have two questions, one for processor speed and another for available memory.

- The processor speed question appears on questionnaire page 1, and asks "What speed should your computer's processor be?" Its answers are 400MHz, 500MHz, or 600MHz.
- The available memory question is displayed on questionnaire page 2, and asks "How much available memory do you need?" Its answers are 128MB RAM, 192MB RAM, 256MB RAM, or 512MB RAM.

Your company offers computers that have:

- 400MHz processors and can have either 128MB or 192MB of RAM.
- 500MHz processors and can have 192MB, 256MB, or 512MB of RAM.
- 600MHz processors and can have 256MB or 512MB of RAM.

When your customers see questionnaire page 1, they will choose one of the available processor speeds. Depending on which processor speed they choose, some of the answers of the available memory question should not be displayed on questionnaire page 2. You need to write a series of rules such that:

- If a customer chooses 400MHz on questionnaire page 1, then they will only be able to select either 128MB or 192MB on questionnaire page 2.
- If a customer chooses 500MHz on questionnaire page 1, then they will only be able to select either 192MB, 256MB, or 512MB on questionnaire page 2.
- If a customer chooses 600MHz on questionnaire page 1, then they will only be able to select either 256MB or 512MB on questionnaire page 2.

This translates to three rules:

1.	IF Questionnaire Page = 1 AND processor speed = 400MHz THEN Questionnaire Page = 2 AND NOT available memory = 256MB AND NOT available memory = 512MB
2.	IF Questionnaire Page = 1 AND processor speed = 500MHz THEN Questionnaire Page = 2 AND NOT available memory = 128MB
3.	IF Questionnaire Page = 1 AND processor speed = 600MHz THEN Questionnaire Page = 2 AND NOT available memory = 128MB AND NOT available memory = 192MB

Creating these rules ensures that questionnaire page 2 will display only those answers that are appropriate, based on the customer's selection on questionnaire page 1.

Designing the Questionnaire

The process of creating your questionnaire has two stages: design and construction. This section addresses how you design your questionnaire. The following section, "Building the Questionnaire" on page 144, describes the construction stage.

Design is the more complex of these two stages, and is likely to require more thought. Building the questionnaire is a matter of implementing the decisions and concepts you arrive at during the design stage.

In order to design your questionnaire, you need to do two things. First you need to make some basic decisions about how you want your questionnaire to work for your customers. This is described in the section "Conceptual Design of the Questionnaire" on page 134. Then you need to lay out the questionnaire you want to build. This is discussed in section "Laying Out the Questionnaire" on page 136. Once you arrive at a blueprint: that is, once you have designed the questionnaire, then you are ready to build it.

Note:	Before you begin designing your questionnaire, you must ensure that your product catalog has already been defined in the Sterling Product Manager.
--------------	--

Conceptual Design of the Questionnaire

There are a few steps in the conceptual design of your questionnaire. As you progress through these steps, you determine the form that the questionnaire will eventually take. These steps are:

- Identifying your products and their features

Use the Sterling Product Manager to generate a complete list of your company's products, and use this list to generate a list of product features. This list of features does not need to include every feature in every product, but it does need to include the features that can help distinguish between products.

- Categorizing your features

Once you have identified your features, you need to group the features into a hierarchy.

- Determining the look and feel you want your questionnaire to have

You need to decide how you want your questionnaire to look. This includes such things as how many questions should appear on each page of the questionnaire.

Identify Your Products

You base your design on your list of products and the list of features these products represent. The questionnaire is used to identify products, and it uses features to do it. Thus, the logical place to start is by making a list of your company's products. You can get this list from the Sterling Product Manager. Then you use your product list to identify your feature list.

Your company may carry a large product line, and this product line might change frequently. As a result, you may need to periodically redesign your questionnaire to take these changes into account.

Identify and Categorize Your Features

Once you have a complete list of your products, you can use this list to identify the features you will use in your questionnaire. Features are important because:

- You create your questions based on your features.

Since the questionnaire distinguishes between products by how their feature sets differ, you need to create questions that can isolate specific features.

- Your customers will compare products based on their features.

One of the capabilities of the Sterling Advisor is to display a comparison of two or more products. This comparison is based on the features you define.

Once you have created your list of features, you need to categorize them. That is, you need to group them into a hierarchy where each feature is a member of a specific feature type.

The process you follow to identify and categorize your features is described in more detail in "An Example of Questionnaire Design" on page 136.

Determine the Look and Feel You Want

Sterling Advisor Administration gives you a great deal of freedom in determining how your questionnaire will be organized. In particular, you can decide how many questionnaire pages will make up the questionnaire, as well as how many questions will appear on each questionnaire page. This in turn defines the customer experience.

You might decide that a customer would rather answer all possible questions on a single page, and go from that page to their final product list. This approach would only require you to create a single questionnaire page within your questionnaire.

On the other hand, you might decide that each questionnaire page should have only one question to answer, providing a wizard-like experience for your customer. In this case, you would need to create a questionnaire page for each of your questions.

These two cases are the extremes, and it is more likely that you will create a questionnaire that falls somewhere between the two. Most administrators choose to design a questionnaire that has a reasonable number of questionnaire pages, with a few questions assigned to each questionnaire page.

Whichever approach you choose to take, you need to decide ahead of time the general appearance and behavior you want your questionnaire to have.

Laying Out the Questionnaire

Once you have listed your feature hierarchy and made a preliminary decision about how you want your questionnaire to appear, you need to lay the questionnaire out. The layout is a kind of tree diagram of the questionnaire that you create before you actually build the questionnaire. This layout shows each of the questionnaire pages that will be in the questionnaire, as well as the questions and answers that will appear on each questionnaire page. The layout needs to show the path from one questionnaire page to the next, as well as which products are identified by each path in the diagram. To do this, you will:

- Use your list of features to determine what questions and answers you need to create. The features can represent possible answers to the questions.
- Write questions (and their answers) that map to specific features.
- List the questionnaire pages that will contain these questions.
- Create a story board that shows the questionnaire.

Each of these tasks is illustrated in the following example.

An Example of Questionnaire Design

This example is based on a fictional company called Matrix Solutions, and shows how their questionnaire might be built.

List the Products

The first step in creating the questionnaire is to list the products. Matrix sells desktop computers, and these are the models they offer:

- Matrix7480 Desktop
- Matrix7490 Desktop

- Matrix7500 Desktop
- Matrix7510 Desktop
- Matrix7520 Desktop
- Matrix7540 Desktop
- Matrix7550 Desktop
- Matrix7600 Desktop

Use the Features to Determine the Answers to the Questions

The next step is to identify the kinds of features that can be used to distinguish between models. These are:

- Processor
- RAM
- Hard Drive
- Connectivity

Each of these computers has additional features, but these features differ enough between models that they can be used to create the questionnaire. Table 16 on page 137 shows each of the models and their features.

Note that in many cases a model shows several values for a single feature. This means that the customer may choose any of these values for that model.

TABLE 16. Matrix Solutions Desktop Models and their Features

Model	Processor	RAM	Hard Drive	Connectivity
Matrix7480	400MHz	128MB	4.0GB 6.1GB	56K Internal Modem
Matrix7490	400MHz 450MHz	128MB 256MB	4.0GB 6.1GB 8.2GB	56K Internal Modem
Matrix7500	400MHz 450MHz 500MHz	128MB 192MB 256MB	4.0GB 6.1GB 12GB	56K Internal Modem 56K Wireless Internal Modem

TABLE 16. Matrix Solutions Desktop Models and their Features (Continued)

Model	Processor	RAM	Hard Drive	Connectivity
Matrix7510	450MHz	128MB	6.1GB	56K Internal Modem
	500MHZ	256MB	8.2GB	56K Wireless Internal Modem
	550MHz	512MB	12GB	Ethernet
Matrix7520	550MHz	512MB	6.1GB	56K Internal Modem
	600MHz		8.2GB	Cable Modem
			12GB	DSL
			16GB	Ethernet
Matrix7540	600MHz	512MB	8.2GB	56K Internal Modem
			12GB	56K Wireless Internal Modem
			16GB	Cable Modem
				DSL
			Ethernet	
Matrix7550	600MHz	256MB	8.2GB	56K Internal Modem
	650MHz	512MB	12GB	Cable Modem
	700MHz		16GB	DSL
				Ethernet
Matrix7600	650MHz	512MB	12GB	56K Internal Modem
	700MHz		16GB	56K Wireless Internal Modem
			20GB	Cable Modem
				DSL
			Ethernet	

Creating a table like this is very useful. It does more than simply list each product and its features—it also identifies the feature types that need to be created as well as some of the questions and answers. The feature types are Processors, RAM, Hard Drive, and Connectivity and they correspond to four questions:

- The Processor question: "How fast do you want the processor in your computer to be?" The possible answers for this question are:
 - 400MHz
 - 450MHz
 - 500MHz

- 550MHz
- 600MHz
- 650MHz
- 700MHz.
- The Available Memory question: "How much available memory do you need your computer to have?" This question's answers are:
 - 128MB
 - 192MB
 - 256MB
 - 512MB.
- The Hard Drive question: "How much disk space do you need?" Its answers are:
 - 4.0GB
 - 6.1GB
 - 8.2GB
 - 12GB
 - 16GB
 - 20GB
- The Connectivity question: "How will you connect to the Internet (if at all)?" Its answers are:
 - 56K Internal Modem
 - 56K Wireless Internal Modem
 - Cable Modem
 - DSL
 - Ethernet

These questions indicate specific features, and so can quickly determine which of Matrix' models is appropriate for a customer. In addition, the administrator building Matrix Solutions' questionnaire added the following questions:

- The Computer Experience question asks "How experienced a computer user are you?" Its answers are:
 - Novice
 - Somewhat Experienced
 - Very Experienced
 - Expert
- The Computer Use question asks "What will you use your computer for?" Its answers are:
 - Data Analysis
 - Graphics/Multimedia
 - Programming
 - Internet
 - Email
 - Games
 - Word Processing

These questions are more general in nature. Rather than isolating a single feature, each of the answers implies a collection of features. Customers that identify themselves as experts or plan to use their computers for data analysis are likely to require high speed processors, more available RAM, and larger hard drives. Customers that are somewhat experienced or plan to use their computers for word processing may not need as much processor speed or disk space.

List the Questionnaire Pages

The next step is to make a list of the questionnaire pages and lay them out in sequence.

Matrix Solutions chooses to limit each questionnaire page to no more than three questions. They decide to create the following questionnaire pages:

- QP1 is the first questionnaire page in the questionnaire, and displays the Computer Experience Question
- QP2 displays the Computer Use question.
- QP3 displays the Connectivity question.

- QP4 displays the Processor question, the Hard Drive question, and the Available Memory question.

Matrix' administrator lays out the questionnaire as follows:

- Customers begin at QP1, and are asked how experienced they are. Regardless of which answer they choose, they go to QP2.
- At QP2, customers are asked how they will use their computer. Which page they see next depends on which answer they choose.
 - If they choose “Internet”, then they go to QP3.
 - If they choose any other use, then they go to QP4.

There are now two paths to the questionnaire.

- If the customer has been directed to QP3, then they are asked how they will connect to the Internet. When they choose an answer, they go to QP4.
- If the customer has been directed to QP4, then they are asked three questions:
 - How fast a processor they want
 - What size hard drive they want
 - How much RAM they want

The customer may answer any of the questions or all of them. Regardless of the answers they choose, there are no more questions to be answered. As a result, the Sterling Advisor displays a questionnaire page that shows only the resulting product list.

Figure 24 on page 142 shows the query page flow.

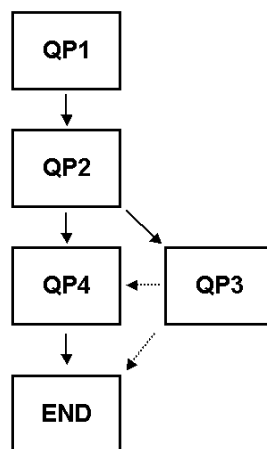


FIGURE 24. Questionnaire Layout

Identify the Rules

The last design step is to identify the rules that need to be created to ensure that the questionnaire behaves correctly. The layout can be used to identify the rules.

- The questionnaire automatically starts at QP1. This does not require you to create any rules, but you need to set QP1 as the start page in the Sterling Advisor. (See "To Set the Start Page" on page 811.)
- If the customer selects either "Novice" or "Somewhat Experienced" on QP1, then the answers "Data Analysis" and "Programming" need to be disabled on QP2. This requires Rules 1 and 2.
- Regardless of what the customer selects on QP1, the next page they see is QP2. To ensure this, you need to create Rule 3.
- At QP2 there are two possibilities. If the customer chooses "Internet", then they are directed to QP3. This is Rule 4.
- If they choose any of the other answers on QP2, then they go to QP4, which is defined by Rule 5.
- If the customer arrives at QP3, then they are asked how they plan to connect to the Internet. Regardless of which answer the customer chooses at QP3, the next questionnaire page is QP4. This is defined by Rule 6.

- Once the customer completes QP4, they have completed the questionnaire. By intention, there are no rules satisfied by the state at QP4, so the Sterling Advisor will bring the customer to the end page.

Table 17 on page 143 shows these rules.

TABLE 17. Rules in Matrix Solutions' Questionnaire

Rule	Syntax	Priority
1	IF Computer Experience = Novice THEN NOT Computer Use = Data Analysis AND NOT Computer Use = Programming	10
2	IF Computer Experience = Somewhat Experienced THEN NOT Computer Use = Data Analysis AND NOT Computer Use = Programming	10
3	IF Questionnaire Page = QP1 THEN Questionnaire Page = QP2	30
4	IF Computer Use = Internet THEN Questionnaire Page = QP3	20
5	IF Questionnaire Page = QP2 THEN Questionnaire Page = QP4	30
6	IF Questionnaire Page = QP3 THEN Questionnaire Page = QP4	30

Consider the priorities assigned to these rules. Rules 1 and 2 have a priority of 10, Rule 4 has a priority of 20, and Rules 3, 5, and 6 have a priority of 30. This means that the Sterling Advisor tests Rules 1 and 2 before any of the others. Because the Sterling Advisor tests rules of the same priority in alphanumeric order by name, Rule 1 is tested before Rule 2. Since neither Rule 1 nor Rule 2 specifies a next questionnaire page, Rule 4 is tested next. If Rule 4 is not satisfied by the state, then the Sterling Advisor goes on to test Rule 3, then Rule 5, then Rule 6.

Keeping the Customer in Mind

As you create your layout, you should keep the customer experience in mind. Some helpful guidelines are:

- Start your questionnaire with a questionnaire page that has only one or two questions that focus on the customer, rather than on your products.

Using questions like this can help you classify your customers and define the paths that the questionnaire can take. An example might be to ask "How experienced a computer user are you?" This question leads to two different questionnaire paths, one for experienced users who will be interested in powerful, cutting edge computers, and another for less experienced users who may not want or need as much computing power.

- Move from general questions to more specific ones.

It is often a good policy to reserve your most specific questions for questionnaire pages that appear later in the questionnaire.

- Try not to show your customers redundant questions or questionnaire pages.

While you may need to assign a question to multiple questionnaire pages, your customer will prefer to see (and answer) each question only once. Note that if your customer answers the same question more than once, then they may accidentally create a situation where none of your company's products meet their specified requests.

This completes the design phase. Your questionnaire is likely to be more complex than the example illustrated here. However, if you follow the design process as it has been described, then you will have little trouble building your questionnaire.

Building the Questionnaire

Once you have designed your questionnaire, you are ready to build it. The tasks you perform in building your questionnaire are listed in order in the section that follows.

Questionnaire Construction Tasks

There are several tasks you need to perform in building your questionnaire, and performing these tasks in the right sequence can help prevent both omissions and redundancies, as well as shortening the process. "An Example of Questionnaire Design" on page 136 provides a detailed description of how to design a

questionnaire. You may find it useful to refer to this example before building your own questionnaire.

The tasks you perform to build a questionnaire are:

- Use the Sterling Product Manager to create your product catalog hierarchy.

The product list you created when you designed your questionnaire needs to be defined in the Sterling Product Manager. The products themselves need to be organized into an n-tier hierarchy of product categories and products. See:

- "To Create a Product Category" on page 355.
- "To Create a Product" on page 373.

- Use the Sterling Product Manager to create your feature hierarchy

Create the feature hierarchy that you developed while designing your questionnaire. You will need to create feature type groups, feature types, and features. See:

- "To Create a Feature Type Group" on page 777.
- "To Create a Feature Type" on page 782.
- "To Create a Feature" on page 787.

- Use the Sterling Product Manager to assign features to products

Once you have created both the product hierarchy and the feature hierarchy, you need to build relationships between products and features. Feature types can be associated only to product categories, while features can be assigned to both product categories and to individual products. See:

- Use Sterling Advisor Administration to create the questions and answers you identified in your layout. See:
 - "To Create a Question" on page 813.
 - "To Create an Answer" on page 818.

- Use Sterling Advisor Administration to assign features to your answers.

Refer to your questionnaire layout to ensure that you make all of the necessary feature assignments. See:

- "To Assign a Feature to an Answer" on page 824.

- Use Sterling Advisor Administration to create the questionnaire pages that you identified in your questionnaire layout. See:
 - "To Create a Questionnaire Page" on page 802.
- Use Sterling Advisor Administration to create your rules. Your layout shows the rules you need to create, and their priority. See:
 - "To Create a Rule" on page 829.
- Use Sterling Advisor Administration to create the resource types you expect to apply to any of your entities. See:
 - "To Create a Resource Type" on page 792.
- Use Sterling Advisor Administration to assign resources to your entities. See:
 - "To Assign a Resource to an Entity" on page 796.

Once you have created your business objects, your questionnaire is complete.

Administration Interface in Sterling Advisor

Sterling Advisor Administration is a browser-based application that enables you to create an interactive questionnaire designed to guide your customers to the products that best suit their needs. This chapter describes the Sterling Advisor Administration interface and presents examples of how to build a questionnaire.

See CHAPTER 3, "Administration Interface" for general interface and navigation information about the Sterling Multi-Channel Selling Solution.

This chapter covers the following topics:

- "Basic Sterling Advisor Administration Page" on page 147
- "Types of Content Panels" on page 151
- "Create Object Panels" on page 151
- "Tabbed Panels" on page 152

Basic Sterling Advisor Administration Page

To access Sterling Advisor Administration, log into the Sterling Multi-Channel Selling Solution, and on the home page, click **Advisor Flows & Questionnaires** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page. This displays the Sterling Advisor Administration page.

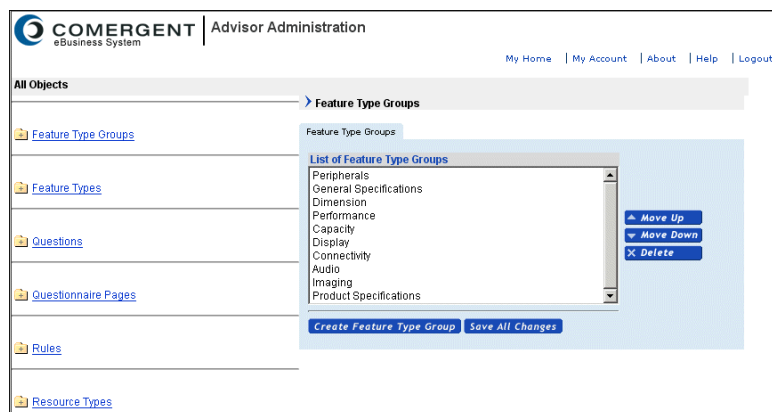


FIGURE 25. Sterling Advisor Administration Page

The page has two parts, or panels. The left-hand panel is the Navigation Panel, while the right-hand panel is the Content Panel which displays the content relevant to your location within the Navigation Panel.

About the Navigation Panel

The Navigation panel provides navigation access to the questionnaire in the form of a directory tree. For example:

- Folders can contain subfolders, items, or both.
- Clicking a folder (the icon next to the underlined link) expands the structure beneath that folder. Clicking the folder again causes it to contract.
- Clicking either a folder or the underlined link next to a folder in the Navigation Panel causes the Content Panel to display content appropriate for that link.

Figure 25 on page 148 shows how the Sterling Advisor Administration page looks whenever you connect to Sterling Advisor Administration.

There are several folders displayed: Feature Type Groups, Feature Types, Questions, Questionnaire Pages, Rules, and Resource Types. These represent the various components of the questionnaire.

Each of these folders has sub-folders, and can be expanded, as shown in Figure 26 on page 149:

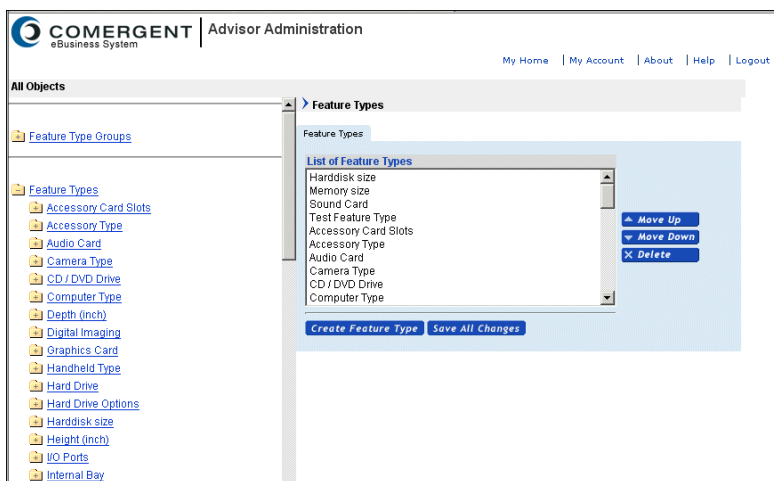


FIGURE 26. Example Sterling Advisor Administration Page

In this example, the Navigation Panel shows the Feature Types folder expanded to display all existing feature types. The Accessories Included feature types has also been expanded, displaying all of the features (AC Adapter, Battery, and so on) that have been created within that feature type.

All of the folders in the Sterling Advisor Administration Navigation Panel follow a similar hierarchy. For example, the Questions folder has the list of existing questions beneath it, while each individual question has the list of its answers beneath it. The hierarchies are as follows:

- Feature Type Groups > All existing feature type groups
- Feature Types > All existing feature types > All existing features
- Questions > All existing questions > All existing answers
- Questionnaire Pages > All existing questionnaire pages
- Rules > All existing rules
- Resource Types > All existing resource types

Use the Navigation Panel to navigate within Sterling Advisor Administration.

About the Content Panel

As you use the Navigation Panel, the Content Panel changes to reflect where you are in the application. Each of the content panels serves a different purpose.

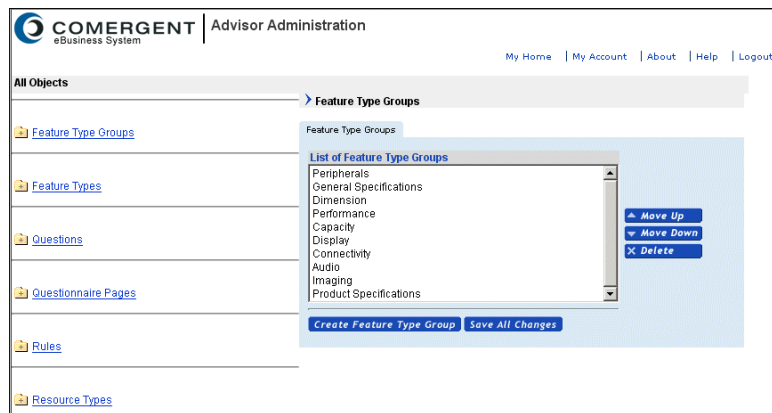


FIGURE 27. Sterling Advisor Administration Page with Content Panel

In Figure 27 on page 150, the right-hand panel is the Content Panel. Note that:

- The top of the panel shows you where you are in the application (>Feature Types>Monitor Size).
- The panel has a **Save All Changes** button in the lower left corner.

Changes that you make in a content panel are *not* automatically saved to the database; they are only saved when you click **Save All Changes**. If you leave a content panel (or even change tabs within a content panel) without first clicking **Save**, then your changes are lost.

Note that Create Object Panels are the exception to this rule. They do not have a **Save** button. Instead, they have a **Create** button, which automatically saves your changes.

- Some content panels have tabs across the top.

Different tabs allow you to perform different tasks. The number of tabs varies between content panels.

The various kinds of content panels you see in Sterling Advisor Administration are described in more detail in the following sections.

Types of Content Panels

As you use Sterling Advisor, each content panel deals with a different kind of object. These are:

- List panels display all of the existing objects of that type.
- New object panels are used to create new business objects.
- Tabbed panels let you manage the attributes of business objects

All of the Sterling Advisor content panels fall into one of these basic panel types.

List Panels

When you select a top-level link, a List Panel appears that shows all of the objects that exist under that heading. Clicking any of these links brings you to a list panel.

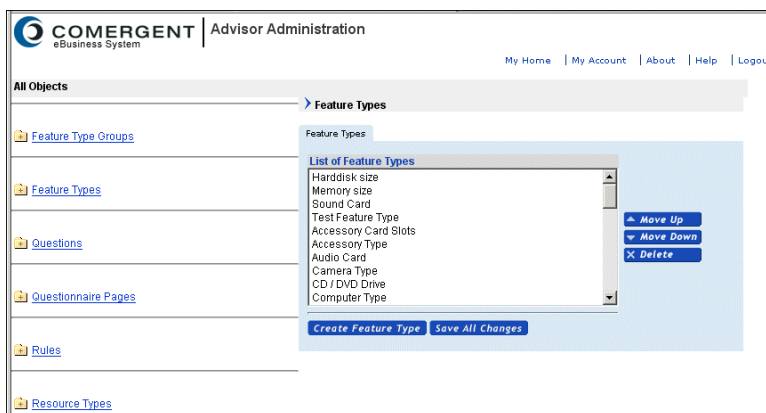


FIGURE 28. Example of a List Panel

All list panels include links that allow you to create and delete objects. Some list panels also allow you to order the subobjects that appear in the list. Those list panels that allow you to order subobjects have **Move Up** and **Move Down** buttons to facilitate the ordering process.

Create Object Panels

Create Object panels allow you to create new business objects in your questionnaire. Each kind of business object has its own creation panel, accessed by

clicking the Create button on that object's list panel. For example, to create a question, you would first access the Questions List Panel, then click **Create Question**. This brings you to the New Question Panel, as shown in Figure 29 on page 152.

The screenshot displays the 'COMERGENT eBusiness System' interface for 'Advisor Administration'. On the left, a sidebar titled 'All Objects' lists several categories: Feature Type Groups, Feature Types, Questions, Questionnaire Pages, Rules, and Resource Types. The 'Questions' category is selected, leading to a 'New Question' form. The form includes fields for 'Name', 'Question Text', and 'Description'. Below these is a 'Control Type' dropdown menu currently set to 'Radio button', with radio buttons for 'AND' and 'OR'. At the bottom of the form are two buttons: 'Save All and Return to List' and 'Cancel and Return to List'. The top right of the interface contains navigation links: 'My Home', 'My Account', 'About', 'Help', and 'Logout'.

FIGURE 29. New Question Panel

Each type of business object has unique attributes, and so the Create Object panels differ from object type to object type. However, they all follow the same pattern.

Tabbed Panels

Tabbed panels enable you to manage the properties of business objects. These properties include such things as the name and description given to the business object, as well as the definition of that object's relationships with other business objects. Figure 30 on page 153 shows an example of a tabbed panel.

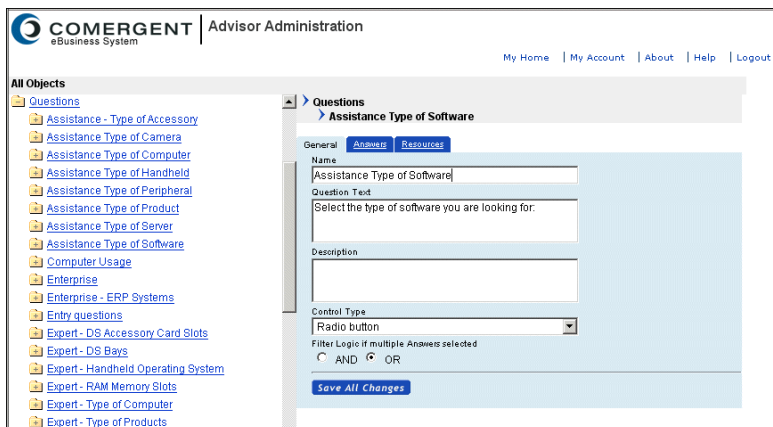


FIGURE 30. Example of a Tabbed Panel

In tabbed panels, different tabs serve different functions. These may differ from business object to business object, but as a rule:

- General tabs allow you to manage an object's basic properties such as its name and description.
- Assignment tabs allow you to assign an object to another object.
- Resources tabs allow you to assign one or more resources to an object.

General Tabs

General tabs enable you to manage an object's basic properties. Usually these are such things as an object's name and description, but may also include more specific information unique to a particular business object. For example, part of the general information that relates specifically to a questionnaire page includes how many columns the questionnaire page should display. Figure 31 on page 154 shows an example of the General tab.

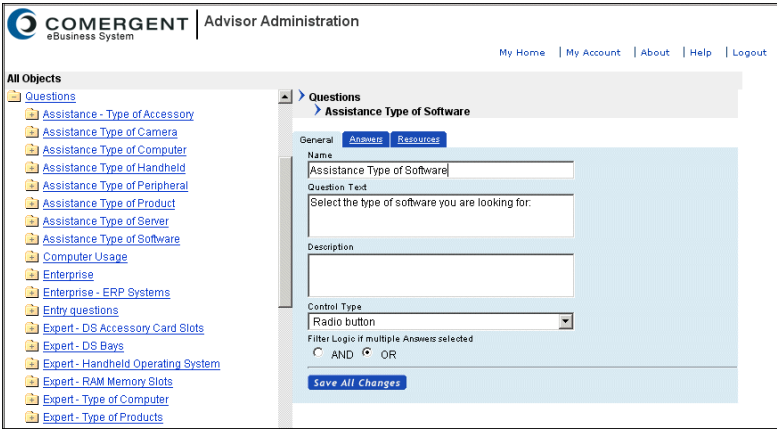


FIGURE 31. Example of a General Tab

Assignment Tabs

Assignment tabs let you manage the relationships between business objects. For example, you would use the Assign Questions tab of the Questionnaire Page Detail Panel to assign specific questions to the questionnaire page. Figure 32 on page 154 shows an example assignment tab.

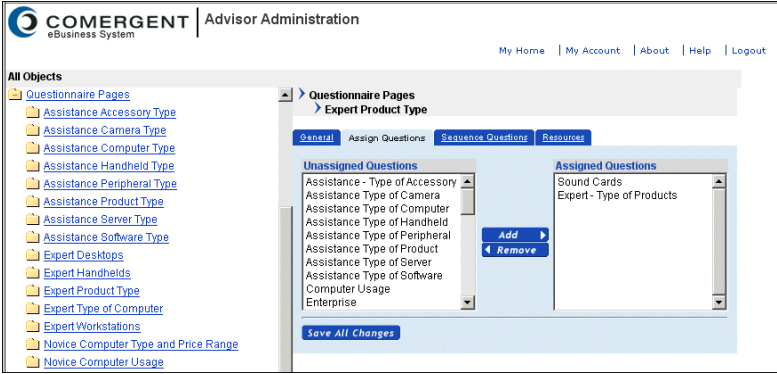


FIGURE 32. Example of an Assignment Tab

Resources Tabs

Resources tabs let you assign resources to business objects. Resources tabs are the same, regardless of business object. Figure 33 on page 155 shows an example resources tab.

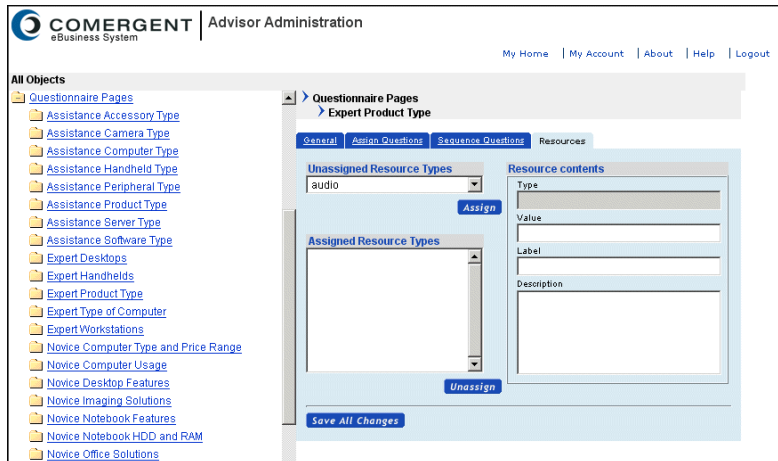


FIGURE 33. Example of a Resources Tab

This chapter covers tasks performed to manage users in the Sterling Multi-Channel Selling Solution: See "Managing Users" on page 157 for the tasks performed by Enterprise employees or the employees of a Sterling Partner.com partner. See CHAPTER 9, "Administration Performed by Partner Users" for the tasks performed by employees of a partner.

"Users, Roles, and Functions" on page 14 contains an overview of user administration in the Sterling Multi-Channel Selling Solution.

This chapter covers the following topics:

- "Managing Users" on page 157
- "Defining Functions and Roles" on page 164

Managing Users

The *user administrator* (an enterprise employee with enterprise user management responsibilities) performs the following tasks:

- "To Create a New Enterprise User" on page 158
- "To Modify an Enterprise User Profile" on page 161
- "To Delete an Enterprise User" on page 161

- "To Search for an Enterprise User" on page 161
- "To Search for Any User" on page 162
- "Defining Functions and Roles" on page 164

Note that enterprise profile administrators can also create partner profiles and partner users for partners. See "To Create a New Partner User" on page 188 for more information on creating partner users.

To Create a New Enterprise User

1. Click **System Users** in the System Administration panel on the Sterling Multi-Channel Selling Solution enterprise home page. This displays the User List page.

The screenshot shows the 'User List: Enterprise' page. At the top, there's a search bar with the text 'Find users that match:' and a dropdown menu for 'Username'. Below the search bar are links for 'Search', 'Show All', and 'Advanced Search'. A 'Create User' button is visible. Below the button is a table of users.

Username	Full Name	Functions	Manager	Profile	Business Phone	Email Address	
admin	Administrator, Enterprise	Profile Administration	Yes	Enterprise		admin@matrixsolutions.com	Move Delete
ajones	Jones, Alison	Profile Administration, Basic Profile Maintenance, Commerce, Financials, Program Management, Sales, Sales Executive	Yes	Enterprise	610-6950	ajones@matrixsolutions.com	
bjones	Jones, Brendan	Basic Profile Maintenance, Program Management	Yes	Enterprise	610-6951	bjones@matrixsolutions.com	Move Delete

FIGURE 34. User List Page

2. On the User List page, click **Create User**. If this button is not visible, then you do not have the access privileges to create a new user.

FIGURE 35. User Detail Page: New User Tab

3. On the User Detail page, enter the details of this new user. Note the following:
 - Username: This username must be unique throughout the Sterling Multi-Channel Selling Solution.
 - Password: Use letters and numbers from the keyboard with no spaces or other punctuation.
 - User Functions: Select those functions that this user will perform by checking the appropriate check boxes. The list of functions displayed here is determined at implementation time.

Attention: Do not select the ERPAdministrator user type for standard users. Users of this user type cannot log in through the Web user interface.

- Preferred Locale: Select the preferred locale which will apply when the user logs in. The drop-down list displays the names for the supported locales.
4. Enter any other pertinent details.
 5. Click **Save**.

Once you have saved the basic information for a new user, the User Detail page is displayed with new tabs.

COMERGENT | Administration
eBusiness System

My Home | My Account | About | Help | Logout

User Detail for Andrew Goldsworthy

Info | Addresses | Current Accounts | Notes

Belongs To: [Enterprise](#)

[View Users](#) [Save](#)

NOTE: (*) items are required.

User Information Username * andrewg Password * ***** Confirm Password * ***** Title Mr. First name * Andrew Last name * Goldsworthy Job Title 	User Locale Preferred Locale United States Note: changes to Preferred Locale will take effect on the next login.	User Functions <input checked="" type="checkbox"/> Manager User Type User Functions <input type="checkbox"/> Commerce <input type="checkbox"/> Sales <input checked="" type="checkbox"/> Sales Executive <input type="checkbox"/> Program Management <input checked="" type="checkbox"/> Channel Executive <input type="checkbox"/> Financials <input type="checkbox"/> Lead Administration <input type="checkbox"/> Basic Profile	Status Please enter a reason when changing the status. Parent Status Open Status Open Comment User Account Limits Max. Accounts
---	--	--	---

FIGURE 36. User Detail Page: Info Tab

6. You can update information on the Info tab and click **Save**. In particular, you can now set a maximum on the number of accounts that can be assigned to this user.
7. You can manage the assignment of accounts to this user. See "Assigning Accounts to Users" on page 218 for more details.
8. You can also make notes regarding this user by clicking the Notes tab.

COMERGENT | Administration
eBusiness System

My Home | My Account | About | Help | Logout

User Detail for Andrew Goldsworthy

Info | Addresses | Current Accounts | Notes

Belongs To: [Enterprise](#)

[View Users](#)

Enter a new note in the textbox and click the Add Note button to save the note.

Add Note

☐ Private

[Add Note](#)

Date	Note	Organization	Created By
9/13/2005	Created user	Enterprise	ajones

FIGURE 37. User Detail Page: Notes Tab

To Modify an Enterprise User Profile

You can change user profile information for another enterprise user or partner user if you have the right level of entitlement access to the user.

Attention: Do not change the username or password of the Anonymous User user.
--

1. Click **System Users** in the System Administration panel on the Sterling Multi-Channel Selling Solution enterprise home page. This displays the User List page.
2. On the User List page, click the link to the user whose profile you wish to modify. This displays the User Detail page. If you cannot see the user whose details you want to update, then you can search for the user.
3. On the User Detail page, modify user details as appropriate.
4. Click **Save All and Return to List**.

To Delete an Enterprise User

1. Click **System Users** in the System Administration panel on the Sterling Multi-Channel Selling Solution enterprise home page.
2. On the User List page, click **Delete (X)** in the Actions column next to the user you wish to delete.

The user is deleted from the Sterling Multi-Channel Selling Solution. However, note that the username that belonged to this user is still present in the system. No new user can re-use this username.

To Search for an Enterprise User

1. Click **System Users** in the System Administration panel on the Sterling Multi-Channel Selling Solution enterprise home page.
2. Select one of Username, First Name, Last Name, from the drop-down list, and enter the full or partial string for the search. You can use "*" as a wild card character.

For example, if you select First Name and enter "An*", then you will find all enterprise users whose first name begins with "An" such as Andrew and Anne.

3. Click **Go**.
4. You can click **Advanced Search** to perform a more detailed search.

FIGURE 38. User Advanced Search Page

To Search for Any User

You can view the user details for any user in the Sterling Multi-Channel Selling Solution. If you have the appropriate function, then you can also modify user details or delete them from the Sterling Multi-Channel Selling Solution. Note that in general, the administration of partner users should be left to partner administrators for each partner.

You can use the Search for User by Name panel to perform a quick search for a user, or you can use the advanced search capabilities as follows:

1. Click **Advanced Search** in the Search for User by Name panel.

FIGURE 39. User Advanced Search Page

2. Enter search criteria and click **Submit**.

The search results page displays the users that match your search criteria.

Username	Full Name	Profile Name	Business Phone	Email Address	Actions
ahuang	Huang, Andrew	TaiwanTech	235-8099	ahuang@taiwantech.tw	Prepare Order Workspace Delete
alaurens	Laurens, Alexandre	ParisTech	76.923.1230	alaurens@paristech.fr	Prepare Order Workspace Delete
bbarry	Barry, Boris	SysPoint	610-6853	bbarry@netresources.com	Prepare Order Workspace Delete
bbunson	Bunson, Brad	AllNet Corp	610-6850	bbunson@farcom.com	Prepare Order Workspace Delete

FIGURE 40. User Search Results Page

3. Click the link to the user that you were looking for.

Defining Functions and Roles

Functions and roles are defined using the **Entitlements.xml** file. Defining a function or role requires that you specify the functionality that you wish the function or role to perform. Refer to the *Sterling Multi-Channel Selling Solution Reference Guide* for more information.

This chapter describes the tasks required to administer the channel in the Sterling Multi-Channel Selling Solution. The enterprise employee who acts as the *channel administrator* can create, modify, and delete partner profile information. See "Profile Administration Tasks" on page 179. The partner employee who acts as partner administrator can maintain the partner profile once it has been created by the channel administrator. See "Profile Administration for Partners" on page 225 for this information. "Managing the Sales Channel" on page 3 contains an overview of partner administration in the Sterling Multi-Channel Selling Solution.

This chapter covers the following tasks:

- "To Search for a Profile" on page 179
- "To Export Profile List Information" on page 181
- "To Create a New Profile" on page 182
- "To Create a Profile as a Child of a Parent Profile" on page 184
- "To Move a Child Profile to Another Parent" on page 186
- "To Create Profile Addresses" on page 187
- "To Delete Profile Addresses" on page 188
- "To Create a New Partner User" on page 188
- "To Move Users Between Levels in a Profile Hierarchy" on page 193

- "To Modify an Existing Profile" on page 195
- "To Assign a Price List to a Profile" on page 196
- "To Assign a Product Entitlement to a Profile" on page 197
- "To Assign an Attribute to a Profile" on page 199
- "To Set Up a Credit Card Payment Gateway" on page 200
- "To Set Up A Gift Card Payment Gateway" on page 201
- "To Remove Support For Gift Card Payments" on page 201
- "To View Cart Activity for Selected Profiles" on page 202
- "To Create an MDF Payment Account" on page 204
- "To Create an Co-op Payment Account" on page 206
- "To Add Funds to a Payment Account" on page 208
- "To Remove Funds From a Payment Account" on page 209

Profile Detail Page

You maintain partner profile information on the Profile Detail page. The Profile Detail page provides a straightforward means to administer the information you need to work effectively with your partners. The information is organized by tabs that group related information:

sterling commerce
An AT&T Company

Profile Manager

My Home | My Account | About | Help | Logout

Organization Profile: SysPoint [Return to List](#)

Info | Addresses | Detail | Business | Hierarchy | Commerce | Assigned To | Pricelists | Product Entitlements | Attributes | Notes

[View Users](#) [View Account Activity](#) [Save](#)

NOTE: (*) items are required.

General Information

Profile name * <input type="text" value="SysPoint"/>	Organization website address <input type="text" value="www.syspoint.com"/>	Custom Field #1 <input type="text"/>
Main telephone <input type="text" value="610-6800"/>	Organization Email <input type="text" value="corp@syspoint.com"/>	Custom Field #2 <input type="text"/>
Main facsimile <input type="text" value="N/A"/>	Distributors <input type="text" value="Select to add"/>	Custom Field #3 <input type="text"/>
Profile type * <input type="text" value="Distributor"/>	<input type="button" value="Remove"/>	Custom Field #4 <input type="text"/>
Profile level * <input type="text" value="Gold"/>	Message URL <input type="text" value="http://192.168.200.247"/>	Custom Field #5 <input type="text"/>
XML Message Version <input type="text" value="dXML 4.1.1"/>	Content Type <input type="text"/>	
Login/Password required <input checked="" type="checkbox"/>		

FIGURE 41. Profile Detail Page: Info Tab

The tabs are:

- Info Tab
- Addresses Tab
- Detail Tab
- Business Tab
- Hierarchy Tab
- Commerce Tab
- Assigned To
- Pricelists Tab
- Product Entitlements Tab
- Attributes Tab
- Notes Tab

Info Tab

This tab displays key partner information:

- Profile name: the display name for this profile. Profile names do not have to be unique. However, in several places in the user interface, profiles are listed by profile name. Distinguishing two profiles with the same name in

any list of profile names can be confusing. Use a naming convention that ensures that profile names are effectively unique.

- Main telephone: the main telephone number of the partner.
- Main facsimile: the main facsimile number for the partner.
- Profile type: Each profile must be assigned a *type*. The choice of types is determined at the time of the implementation of the Sterling Multi-Channel Selling Solution. To make a profile available for selection as a distributor, you must select "Distributor" in the Profile Type drop-down list.
- Profile level: profiles can be assigned to one of several levels, such as Platinum, Gold, or Silver. If your implementation uses such a system, then select the correct level for this partner.
- XML Message version: the XML version is required to send messages to this partner's server.
- Login/Password required (for distributor partners only): if you check this box, a username and password is required to allow the enterprise employee to access the distributor's site.
- Company website address: the main home page for this profile. Although this field is not required, you must provide a Web site address if you wish the partner to be contacted through the Partner Selector function.
- Organization Email: the email address for the company. Although this field is not required, you must provide an Email address if you wish the partner to be contacted through the Partner Selector function.
- Distributors: each partner can have a business relationship with one or more distributors to place orders and obtain price and availability information. For the current profile, select those distributors with whom the partner has a business relationship. The list of profiles whose names are displayed in the drop-down list is determined by those profiles whose whose type is "Distributor".

Note:	In previous releases, the list of distributors was used to determine which distributors could be used for price-and-availability requests. In this release, this information is for display only.
--------------	---

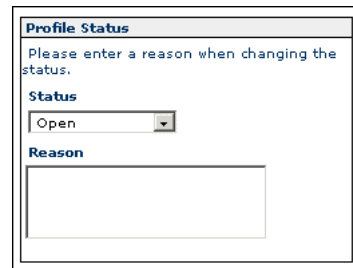
- Message URL: This field is required if the partner needs to send or receive Sterling Multi-Channel Selling Solution XML messages (such as price

and availability checks and cart transfers). This field represents the URL to which messages for this partner are sent to or received from.

If you are creating a profile for a storefront partner, then the entry follows the format:

`http://<servername:port>/Sterling/msg/<partner name URL>`

- Custom field #1, Custom field #2, and so on: these fields can be customized to suit individual information needs.
- Profile Status: this panel enables you to change the status of the profile. See "Profile Statuses" on page 5 for more information on profile status.



The screenshot shows a web form titled "Profile Status". Inside the form, there is a text prompt: "Please enter a reason when changing the status." Below this, there is a section labeled "Status" containing a dropdown menu with "Open" selected. Below the status dropdown is a section labeled "Reason" with a large, empty text input area.

FIGURE 42. Profile Status Panel

- Accounts: this panel provides access to the payment accounts used by the partner to manage their program activities.

Accounts

Please enter a reason when changing the account limits.

Currency

USD

Credit Limit

\$5000.00

Available Credit

\$5,000.00

Reason

View Account Details

MDF

Co-op %

15

Co-op Account Maximum

2000

FIGURE 43. Accounts Panel

This panel gives you access to the payment accounts for the partner: MDF and Co-op accounts. The Co-op % and Co-op Account Maximum fields are used to calculate how uploaded updates to Co-op accounts are added to the available balances in the accounts.

Addresses Tab

This tab displays the sold-to, ship-to, and bill-to addresses provided by the partner.

sterling commerce
An AT&T Company

Profile Manager

My Home | My Account | About | Help | Logout

Organization Profile: SysPoint

Return to List

Info | Addresses | Detail | Business | Hierarchy | Commerce | Assigned To | Pricelists | Product Entitlements | Attributes

Notes

View Users | View Account Activity | Save

Addresses

NOTE: (*) Items are required.

New | Delete | Duplicate | Previous 1 out of 2 | Next

Address line 1 *

570 Highland Drive

Address line 2

First floor

City *

Sacramento

State/Province and Postal code

CA 95895

Country *

USA

☒ Use as Sold To Address

☒ Use as Ship To Address

☒ Use as Bill To Address

☒ Set As Default Sold To Address

☒ Set As Default Ship To Address

☒ Set As Default Bill To Address

FIGURE 44. Profile Detail Page: Addresses Tab

Detail Tab

This tab contains business information about the profile.

The screenshot displays the 'Profile Manager' interface for 'SysPoint'. The 'Detail' tab is active, showing a form with the following fields:

- Organization ID ***: M002120
- Founded**: April 1995
- Current FY Revenue**: 18500000.000000
- Dun & Bradstreet ID**: bus0231-s34f
- Total # of employees**: 47
- Next FY Revenue**: 22000000.000000
- External Partner ID**: SYSPPOINT
- Fiscal year end month**: April

Below these fields is a 'Services' sub-tab with the following fields:

- Service name**: Configuration and Installation
- Service description**: Configurations and Installations
- Service level**: []

Navigation buttons include 'View Users', 'View Account Activity', 'Save', 'Delete', 'Duplicate', 'Previous', and 'Next'.

FIGURE 45. Profile Detail Page: Detail Tab

The Detail tab contains the following fields:

- **Organization ID:** This ID is used by the enterprise to identify each organization uniquely with whom they do business.
- **Year founded:** used for information only.
- **Revenue:** Estimates for this year's and next year's revenues.
- **Fiscal year end month:** used for information only.
- **Number of employees:** used for information only.
- **Dun and Bradstreet ID:** this ID must uniquely identify the partner in the commercial world.
- **Services:** this sub-tab provides information about the services that this partner offers.

FIGURE 46. Services Sub-tab

- Skills: this sub-tab provides information about the skills and skill levels that this partner is assessed to have.

FIGURE 47. Skills Sub-tab

Business Tab

This tab contains information relating to the business relationship between your enterprise and the current profile. Only enterprise employees who are channel administrators have the authority to modify information on this tab.

The information on this tab is for informational purposes only and has no effect on any other part of the Sterling Multi-Channel Selling Solution. The information comprises:

- Product categories: select one or more product categories to show categories of products that the partner may sell.
- Territories: select one or more territories for this partner.
- Customer types: select one or more customer types (vertical markets) for this partner.
- Contracts: there may be several business agreements between your enterprise and this partner. This sub-tab provides basic information about each agreement.

The screenshot displays the Sterling Commerce Profile Manager interface. At the top, the Sterling Commerce logo and 'Profile Manager' title are visible. A navigation bar includes links like 'My Home', 'My Account', 'About', 'Help', and 'Logout'. Below this, the 'Organization Profile: SysPoint' is shown with a 'Return to List' link. A series of tabs (Info, Addresses, Detail, Business, Hierarchy, Commerce, Assigned To, Pricelists, Product Entitlements, Attributes) are present, with 'Business' currently selected. Under the 'Business' tab, there are three sections: 'Product Categories' with a 'Select To Add' dropdown and a 'Delete' button; 'Territories' with a 'Select To Add' dropdown and a 'Delete' button; and 'Customer types' with a 'Select To Add' dropdown and a 'Delete' button. Below these is the 'Contracts' sub-tab, which includes a 'Delete Duplicate Previous 1 out of 1 Next' bar. A note states: 'NOTE: (*) Items are required when creating a contract.' The contract details form includes fields for 'Name' (PRS-R003013), 'Type code' (MS-PN002873), 'Active date' (10/6/2000), 'End date' (8/2/2001), 'Agreement date' (9/16/2000), 'Volume commitment (YR)', and 'Volume commitment (QTR)'. A 'Notes' field is at the bottom.

FIGURE 48. Profile Detail Page: Business Tab and Contracts Sub-tab

Hierarchy Tab

The Hierarchy tab enables you to manage a profile hierarchy. You can use this tab to create a complex organizational structure. For example, you can create management companies, divisions, locations, and departments. Then, by navigating down through the hierarchy of "children", you can create and view "children" within "children" to an infinite number of levels. See "Profile Hierarchy" on page 3 for more information.

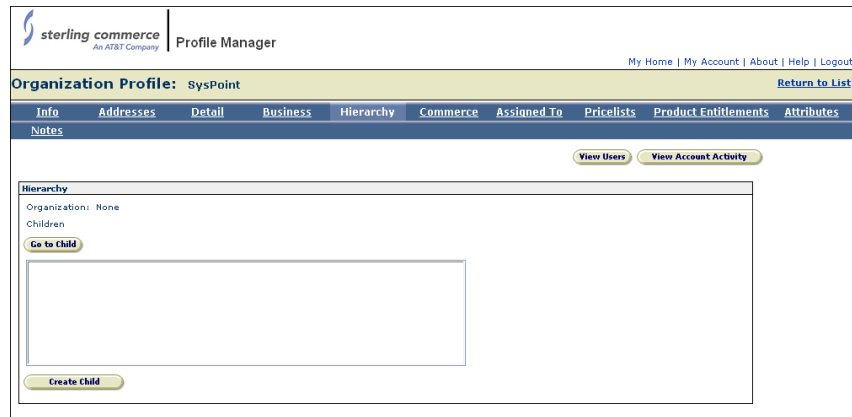


FIGURE 49. Profile Detail Page: Hierarchy Tab

Commerce Tab

Use this tab to specify the payment options and shipping options that this partner plans to support. The selected options display to users when they edit the order header information before placing an order. If this is a storefront profile, use this tab to upload the storefront logo and skin. See "Storefront Administration" on page 209 for more information.

The following are the supported type of payment options:

- Credit card
- Gift card
- Account

Support for credit card and gift card payment requires that you set up payment gateways. Before you set up a credit card or gift card payment gateway for a partner, the partner must have a business relationship with a payment processor. This generally involves establishing a merchant ID with the processor and obtaining a merchant key which is used to authenticate the merchant at the payment processor. The key must be stored on the file system accessible by the Sterling Multi-Channel Selling Solution.

FIGURE 50. Profile Detail Page: Commerce Tab

Payment Options

You must select at least one of Credit Card, Account or Gift Card: if you do not, customers placing a split order to this partner will not be able to complete their order.

FIGURE 51. Payment Options Panel

The available options are determined by entries in the CMGT_LOOKUPS table whose LOOKUP_TYPE is set to "PaymentType", "CreditCardType" or "GiftCardType". These entries are usually created at implementation time.

You can set up a credit card payment gateway and a gift card payment gateway for your partner profile. This involves selecting a payment processor and providing the

merchant details for your partner. See "To Set Up a Credit Card Payment Gateway" on page 200 for information about setting up a credit card payment gateway. See "To Set Up A Gift Card Payment Gateway" on page 201 for information about setting up a gift card payment gateway.

Shipping Options

You must select at least one of these options: if you do not, then customers placing a split order to this partner will not be able to complete their order.

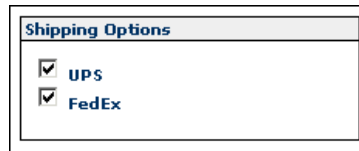
A screenshot of the 'Shipping Options' panel. It has a title bar 'Shipping Options' in blue. Below the title bar, there are two checked checkboxes: 'UPS' and 'FedEx'.

FIGURE 52. Shipping Options Panel

The available options are determined by entries in the CMGT_LOOKUPS table whose LOOKUP_TYPE is set to "ShippingMethod". These entries are typically created at implementation time.

Pricing Options

Use this panel to specify if this partner maintains their pricing information remotely. Prices are retrieved using the Message URL specified on the Info tab (see "Info Tab" on page 167).

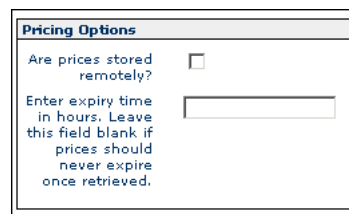
A screenshot of the 'Pricing Options' panel. It has a title bar 'Pricing Options' in blue. Below the title bar, there is a checkbox labeled 'Are prices stored remotely?' which is currently unchecked. Below that, there is a text input field with the label 'Enter expiry time in hours. Leave this field blank if prices should never expire once retrieved.'

FIGURE 53. Pricing Options Panel

If you check the **Are prices stored remotely?** check box, then you can also specify how long prices may be cached on the Sterling Multi-Channel Selling Solution before needing to be retrieved again.

Assigned To

You use this tab to see which enterprise users have been assigned to this partner.

sterling commerce
An AT&T Company

Profile Manager

My Home | My Account | About | Help | Logout

Organization Profile: SysPoint [Return to List](#)

Info | Addresses | Detail | Business | Hierarchy | Commerce | Assigned To | Pricelists | Product Entitlements | Attributes

Notes

[View Users](#) [View Account Activity](#)

Find users that match:

Username [Search](#) [Show All](#)

Username	Full Name	Functions	Manager	Profile	Business Phone	Email Address
No Rows Found						

FIGURE 54. Profile Detail Page: Assigned To Tab

Pricelists Tab

You use the Pricelists tab to assign price lists to this partner.

sterling commerce
An AT&T Company

Profile Manager

My Home | My Account | About | Help | Logout

Organization Profile: SysPoint [Return to List](#)

Info | Addresses | Detail | Business | Hierarchy | Commerce | Assigned To | Pricelists | Product Entitlements | Attributes

Notes

Select appropriate price list for assignment and click Save button to save changes. \$ indicates the price list inherited from parent.

[View Users](#) [View Account Activity](#) [Save](#)


Previous [Next](#)

Assign	Shareable	Price List Name	Starting Date	Ending Date	Currency	Customer Type	Supplier	Status
<input checked="" type="checkbox"/>	<input type="checkbox"/>	USA Distributor	1/17/2001	12/31/2010	USD	General	Matix Solutions Inc.	Active
<input type="checkbox"/>	<input type="checkbox"/>	Telecommunications	1/17/2001	10/6/2003	USD	Telecommunications	Matix Solutions Inc.	Active
<input type="checkbox"/>	<input type="checkbox"/>	Taiwan Distributor	1/17/2001	10/6/2009	TWD	General	Matix Solutions Inc.	Active
<input type="checkbox"/>	<input type="checkbox"/>	Pricelist_unistor	1/17/2001	10/4/2010	USD	General	UNISTOR	Active
<input type="checkbox"/>	<input type="checkbox"/>	Pricelist_taivantech	1/17/2001	10/4/2010	USD	General	TaiwanTech	Active
<input type="checkbox"/>	<input type="checkbox"/>	Pricelist_syspoint	1/17/2001	10/4/2010	USD	General	SysPoint	Active
<input type="checkbox"/>	<input type="checkbox"/>	Pricelist_paristech	1/17/2001	10/4/2010	USD	General	ParisTech	Active
<input type="checkbox"/>	<input type="checkbox"/>	Pricelist_omnitech	1/17/2001	10/4/2010	USD	General	OmniTech	Active
<input type="checkbox"/>	<input type="checkbox"/>	Pricelist_dataLink	1/17/2001	10/4/2010	USD	General	DataLink	Active

FIGURE 55. Profile Detail Page: Pricelists Tab

Product Entitlements Tab

You use the Product Entitlements tab to assign product entitlements to this partner. You can also manage the order in which the product entitlements are evaluated.

 sterling commerce
An AT&T Company

Profile Manager

My Home | My Account | About | Help | Logout

Organization Profile: SysPoint [Return to List](#)

Info | Addresses | Detail | Business | Hierarchy | Commerce | Assigned To | Pricelists | Product Entitlements | Attributes

Notes

You can filter the Entitlements by clicking the "... " button next to the Supplier field and then clicking "Filter". Select appropriate product entitlements for assignment by clicking the Assign button. Click the Save button to save changes. To display all entitlements click the Show All button.

Supplier: Matrix Solutions Inc. [Show All](#)


<input type="checkbox"/>	<input type="checkbox"/>	ShareableInherited	Entitlement Name	Description	Supplier	Start Date	End Date	Status	Order
<input type="checkbox"/>	<input type="checkbox"/>		USA Distributor	USA Distribution Partners	Matrix Solutions Inc.	1/17/2001	12/31/2010	Active	1

[Back to Top ↑](#)

FIGURE 56. Profile Detail Page: Product Entitlements Tab

Attributes Tab

You can use this tab to view and assign attributes that have been pre-defined as available for assignment to the partner during the partner's creation and profile maintenance.

 sterling commerce
An AT&T Company

Profile Manager

My Home | My Account | About | Help | Logout

Organization Profile: SysPoint [Return to List](#)

Info | Addresses | Detail | Business | Hierarchy | Commerce | Assigned To | Pricelists | Product Entitlements | Attributes

Notes

Attribute	Value
What is the primary industry of your organization?	Wholesale Trade
What is your organization's average growth rate?	2-4%
In what territory is your headquarters?	Mid West US
How many years have you been established?	1-4

FIGURE 57. Profile Detail Page: Attributes Tab

Notes Tab

You can make notes as you work on partner profiles using the Notes tab.

The screenshot shows the 'sterling commerce' logo and 'Profile Manager' header. The 'Organization Profile: SysPoint' is selected. A navigation bar includes tabs: Info, Addresses, Detail, Business, Hierarchy, Commerce, Assigned To, Pricelists, Product Entitlements, and Attributes. The 'Notes' tab is active. Below the tabs are buttons for 'View Users' and 'View Account Activity'. A text area for adding a note is present, with a 'Private' checkbox. At the bottom, a table lists notes with columns: Date, Note, Organization, and Created By.

FIGURE 58. Profile Detail Page: Notes Tab

Profile Administration Tasks

All of the tasks described here are initiated by an enterprise administrator.

To Search for a Profile

You can perform searches on your existing profile to access a given profile.


Note: In the case of a profile hierarchy (see "Profile Hierarchy" on page 3), you can only search for the profile at the top-level of the hierarchy.

1. To perform a quick search, enter the profile name in the Profile Name text field of the Search for Organization by Name panel, and click **Go**. You can use "*" as a wild card. For example, searching for "Af*" will find "Affine Systems", "AffinityNet", and so on.

The screenshot shows a search panel titled 'Search for Organization by Name'. It contains a text input field labeled 'Profile Name', a 'Go' button, and a link for 'Advanced Search'.

FIGURE 59. Search for Organization by Name Panel

You can perform a more advanced search by clicking **Advanced Search**. The Profile Search page displays.

 sterling commerce
An AT&T Company

Organization Search

[My Home](#) | [My Account](#) | [About](#) | [Help](#) | [Logout](#)

Profile Search:

Enter data and click on search button to search

SearchResetCancel

Search by Profile Name

Profile Name:

☐ Search Storefronts ☐ Search Customers ☒ Search Both

Search by Profile Type

Select all that apply

☐ Distributor
☐ OEM
☐ Reseller
☐ Retailer
☐ Systems Integrator
☐ SystemPartner
☐ Not Applicable

Search by Profile Level

Select all that apply

☐ Platinum
☐ Gold
☐ Silver
☐ Tin
☐ Not Applicable

Search by Product Category

Select all that apply

OK X

Search by Customer Type

Select all that apply

Search by Territory

Select all that apply

FIGURE 60. Profile Search Page

2. Click **Search** to view all the profiles, or enter search criteria and click **Search**.

You can use the asterisk (*) in your searches. For example, "Ander*" in the Profile Name field will find any profile whose name begins with "Ander". Likewise, "*erel" will find any profile whose name ends in "erel".

The list of profiles satisfying your search criteria is displayed.

sterling commerce
An AT&T Company

Administration

My Home | My Account | About | Help | Logout

Profile List:

Search for Profiles

Name [Search](#) [Show All](#) [Advanced Search](#)

[Export List](#) [View Account Activity](#) [Create Storefront](#) [Create Profile](#)

<input type="checkbox"/>	Name ↕	Root Profile Name	Type	Level
<input type="checkbox"/>	AMT Systems		Reseller	Gold
<input type="checkbox"/>	ARCnet Group		Reseller	Gold
<input type="checkbox"/>	Beairsten_us		Distributor	Gold
<input type="checkbox"/>	Bellten_us		Distributor	Gold
<input type="checkbox"/>	effinbulet		Reseller	Gold
<input type="checkbox"/>	AllNet Corp. (*)		Enterprise	Enterprise
<input type="checkbox"/>	AllNet Sales & Finance (*)	AllNet Corp	Enterprise	Enterprise
<input type="checkbox"/>	Andereal		Distributor	Silver
<input type="checkbox"/>	AnonymousUserPartner		AnonymousUserPartner	Tin
<input type="checkbox"/>	Archer Technologies		Systems Integrator	Gold

Previous [Next](#)

FIGURE 61. Profile List Page

- In the displayed list, find and click the name of a profile to display the Profile Detail page for that partner.

If the list is too long to efficiently locate the profile or if the profile is not in the list, then you can return to the main search page and attempt a new search.

On the Profile List page, you can also click the check box next to a profile and then do one of the following:

- Export a list of selected profiles. See "To Export Profile List Information" on page 181.
- Click **View Account Activity** to view cart activity for selected partners. See CHAPTER 28, "Cart and Commerce Administration" for additional information.

To Export Profile List Information

There may be times when you want to review profile information offline or using an analysis tool such as a spreadsheet. You can export profile information as a text file for this purpose.

1. Using the Search for Organization by Name panel, enter search criteria to help you locate a profile or set of profiles. You can specify criteria to limit the scope of the search as described in "To Search for a Profile" on page 179.

The Profile List page is displayed. It presents all of the profiles that meet your search criteria.

2. Select those profiles whose details you wish to export by checking the check boxes next to each profile.

You can click **Select All** to select all the profiles on the current page.

3. Click **Export List**.

A new browser window is displayed showing the selected profile data in text format.

You can save this file to your machine. When you open this saved file in a spreadsheet application, you must specify that it has been created in a tab-delimited format.

If the file has been generated by a UNIX installation of the Sterling Multi-Channel Selling Solution, then the file has UNIX end-of-line characters. This means that some Windows text-editing applications such as Notepad may display the file as one continuous line. You can still open the file as a spreadsheet.

To Create a New Profile

Perform this task to create a profile either as a standalone profile (no child profile, no parent profile) or as the top-level profile in a profile hierarchy. To create a child profile of a parent in a profile hierarchy, use "To Create a Profile as a Child of a Parent Profile" on page 184.

1. Click **Go** in the Search for Organization by Name panel on the Sterling Multi-Channel Selling Solution home page.
2. Click **Create Profile** on the Profile List page.

The Profile Detail page displays.

The screenshot shows the 'COMERGENT eBusiness System' logo and 'Profile Manager' title. The page is titled 'Organization Profile: New Profile' with a 'Create' tab selected. At the top right are links for 'My Home', 'My Account', 'About', 'Help', and 'Logout'. Below the title bar are 'Cancel' and 'Save' buttons. A note states: 'Please enter mandatory profile information. Once this profile has been saved, you will be allowed to enter more information. NOTE: (*) items are required.' The form is divided into three columns under the 'General Information' header. The first column contains fields for 'Profile name *' (text), 'Main telephone' (text), 'Main facsimile' (text), 'Profile type *' (dropdown), 'Profile level *' (dropdown), 'XML Message Version' (dropdown), and a checked 'Login/Password required' checkbox. The second column contains 'Organization website address' (text), 'Organization Email' (text), a 'Distributors' section with a 'Select to add' dropdown and a 'Remove' button, 'Message URL' (text), and 'Content Type' (text). The third column contains five 'Custom Field' text boxes labeled #1 through #5.

FIGURE 62. Profile Detail Page: Create Tab

3. At the **Create** tab, enter the pertinent profile information.

See "Info Tab" on page 167 for a description of these fields. At a minimum, you must enter information in the fields marked (*).

Note: Although the Organization website address and the Organization Email address are not required, you must provide these if you wish the partner to be contacted through the Partner Selector function.

You must enter at least one address and define the address as Sold-to, Bill-to, or Ship-to by checking the appropriate boxes.

Enter an Organization ID: this should be a unique identifier for the profile.

4. Click **Save**.

Once you have saved the required information for the new profile, then you can continue through the other profile tabs to enter additional information.

5. (Optional) For enterprise nodes, on the **Info** tab, you can specify the maximum number of users of this node who can be assigned to a particular account.
6. (Optional) At the **Addresses** tab, enter additional sold-to, bill-to, and ship-to addresses for the profile.
 - a. Create a new address by clicking **New**, or duplicate an existing address by clicking **Duplicate**.

- b. Enter the pertinent address information.
 - c. Define the address as Sold-to, Bill-to, or Ship-to by checking the appropriate box.
 - d. Define the address as the default Sold-to, Bill-to, or Ship-to address by checking the appropriate box.
 7. (Optional) At the **Detail** tab, enter pertinent information. You can specify what services and skills the profile offers by using the Services and Skill sub-tabs.
At minimum, you must enter information in the fields marked (*).
 8. (Optional) At the **Business** tab, enter the product categories, territories, and approved customer types (vertical markets).
 9. (Optional) At the **Hierarchy** tab, create any desired profile hierarchy.
See "To Create a Profile as a Child of a Parent Profile" on page 184.
 10. (Optional) At the **Logo** tab, upload the logo that will appear on the partner's storefront. Typically, the task of uploading a logo is done by a partner administrator of each partner who is enabled for Sterling Partner.com.
 11. Save the information you have entered.
 12. If you want to assign price lists to this profile, then click the Pricelists tab. See "To Assign a Price List to a Profile" on page 196 for more details.
 13. You can add notes about this partner by clicking the **Notes** tab.
- You can create partner users for the new partner by clicking **View Partner Users**.
14. You can assign attributes available for assignment to this partner by clicking the **Attributes** tab. See "To Assign an Attribute to a Profile" on page 199 for more details.

To Create a Profile as a Child of a Parent Profile

Perform this task if you want to create a profile as part of an existing profile hierarchy. Typically, you do this if you are creating an organizational hierarchy for a partner to match its organization into departments or divisions.

1. Click **Organization Lookup** in the Channel Management panel on the Sterling Multi-Channel Selling Solution home page.

2. Search for the top-level profile within whose hierarchy you want to create the child.
See "To Search for a Profile" on page 179. The list of profiles satisfying your search criteria is displayed.
3. Find the profile in the search results list, then click their name to be taken to the Profile Detail page.
4. Click the **Hierarchy** tab.



FIGURE 63. Profile Detail Page: Hierarchy Tab

5. Find the profile that you want to be the parent.

Note: Skip this step if you want the child profile to be child to the top-level, parent profile.

- a. Find and click the parent profile in the list of child nodes.
- b. Click **Go To Child**.
This displays the Profile Detail page for the child.
- c. Click the **Hierarchy** tab for the child.
- d. Repeat these steps until you find the appropriate node in the hierarchy.

6. When you find the desired parent profile, click **Create Child**.

This displays the Profile Detail page for the new partner. Notice that certain information (for example, Profile type) is copied from the parent profile.

7. Enter the information for the partner.
See "To Create a New Profile" on page 182.
8. Save the information you entered.
 - Click **Save All** to save the information and remain at the Profile Detail page.
 - Click **Save All and View Partner Users** to save the information and view the partner users for this partner. See "To Create a New Partner User" on page 188 for further information about creating partner users.
 - Click **Save All and Return to List** to save the information and display the Profile List.

To Move a Child Profile to Another Parent

You can move a child profile to another location in a profile hierarchy. For example, you might want to re-arrange the divisional organization of a profile hierarchy if the partner undergoes a re-organization.

1. Search for the profile that is the parent in the hierarchy.
See "To Search for a Profile" on page 179.
2. In the Profile Detail page, click the **Hierarchy** tab.
3. In the Hierarchy tab (Figure 49 on page 174), navigate the hierarchy until you find the child that you want to move.
4. Click on the child you want to move.
5. Click **Move Child**.

This displays a list of the other nodes to which you can move the child.

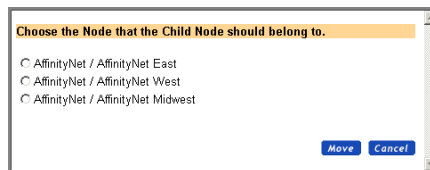


FIGURE 64. Move Child Popup Window

6. Click **Move**.

The child becomes a child of the selected parent.

To Create Profile Addresses

1. Click **Organization Lookup** in the Channel Management panel on the Sterling Multi-Channel Selling Solution home page.
2. Search for a profile.
Enter the profile name, or enter search criteria such as the profile type or the first few letters of their name, then click **Search**, or click **Show All** to view all the profiles.
The list of profiles satisfying your search criteria is displayed.
3. Find the profile in the list, then click their name to be taken to the Profile Detail page.
4. Click the **Addresses** tab.

sterling commerce
An AT&T Company

Profile Manager

My Home | My Account | About | Help | Logout

Organization Profile: SysPoint [Return to List](#)

Info | **Addresses** | Detail | Business | Hierarchy | Commerce | Assigned To | Pricelists | Product Entitlements | Attributes

Notes

[View Users](#) [View Account Activity](#) [Save](#)

Addresses

NOTE: (*) items are required.

[New](#) [Delete](#) [Duplicate](#) [Previous](#) 1 out of 2 [Next](#)

Address line 1 *

570 Highland Drive

Address line 2

First floor

City *

Sacramento

State/Province and Postal code

CA 95695

Country *

USA

☒ Use as Sold To Address ☒ Use as Ship To Address ☒ Use as Bill To Address

☒ Set As Default Sold To Address ☒ Set As Default Ship To Address ☒ Set As Default Bill To Address

FIGURE 65. Profile Detail Page: Addresses Tab

5. Create a new address by clicking **New**, or duplicate an existing address by clicking **Duplicate**.
6. Enter the pertinent address information.
7. Define the address as Sold-to, Bill-to, or Ship-to by checking the appropriate box.

When you check the appropriate box, a check box appears that enables you to define the address as the default.

8. Save the information you entered.
 - Click **Save All** to save the information and remain at the **Addresses** tab.
 - Click **Save All and View Partner Users** to save the information and view the partner users for this profile. See "To Create a New Partner User" on page 188 for further information about creating partner users.
 - Click **Save All and Return to List** to save the information and display the Profile List.

To Delete Profile Addresses

1. Search for the profile who has the address you want to delete.
See "To Search for a Profile" on page 179.
2. Find the profile in the list, then you can click their name to be taken to the Profile Detail page.
3. Click the **Addresses** tab.
4. Find the address you want to delete by clicking **Next** or **Previous**.
5. Click **Delete** to delete the address.
6. Click **Save All**.

To Create a New Partner User

In general, each partner is responsible for managing the partner employees who may log in to the Sterling Multi-Channel Selling Solution. These people are known as partner users. See "Partner Users" on page 4 for further information.

When a profile is created, the channel administrator should create at least one partner user with partner administrator privileges so that this partner administrator may manage their profile and users for that partner: you do this by assigning the user the Profile Administration function.

1. Click **Organization Lookup** in the Channel Management panel on the Sterling Multi-Channel Selling Solution home page.
2. Find the profile for whom you want to create the user.
See "To Search for a Profile" on page 179.
3. From the list of search results, click the profile.
4. On the Profile Detail page, click **View Users**.

sterling commerce
An AT&T Company | Administration

My Home | My Account | About | Help | Logout

User List: Anderel

Find users that match:

Username Search Show All Advanced Search

Anderel: All users shown

Create User

Username	Full Name	Functions	Manager	Profile	Business Phone	Email Address	
James	James, Chuck	Commerce	No	Anderel	610-6856	james@nt.com	Prepare Order Account Activity Delete
Banoff	Banoff, Felix	Commerce	No	Anderel	610-6851	fbanoff@nt.com	Prepare Order Account Activity Delete
Charles	Charles, Indy	Commerce	No	Anderel	610-6855	icharles@nt.com	Prepare Order Account Activity Delete
Jorek	Yorek, Jennifer	Commerce	No	Anderel	610-6854	jyorek@nt.com	Prepare Order Account Activity Delete

FIGURE 66. Partner User List Page

- On the User List page, click **Create User**.

COMERGENT
eBusiness System | Administration

My Home | My Account | About | Help | Logout

Create New User

Info

Belongs To: DataSolve

Cancel Save

NOTE: (*) items are required.

User Information	User Locale	User Functions	Spending Limits & Approver
<p>Username *</p> <input type="text"/>	<p>Preferred Locale</p> <p>United States</p> <p>Note: changes to Preferred Locale will take effect on the next login.</p>	<p><input type="checkbox"/> Manager</p> <p>User Type</p> <p>User</p> <p>Functions</p> <p><input type="checkbox"/> Commerce</p> <p><input type="checkbox"/> Commerce Executive</p> <p><input type="checkbox"/> Sales</p> <p><input type="checkbox"/> Sales Executive</p> <p><input type="checkbox"/> Financials</p> <p><input type="checkbox"/> Program Management</p> <p><input type="checkbox"/> Marketing Executive</p> <p><input type="checkbox"/> Basic Profile</p>	<p>Spending Limits & Approver</p> <p>Feature requires both Spending Limit and Approver.</p> <p>Spending Limit</p> <p>USD</p> <p>Approver</p> <p>Proxy for Approver</p>
<p>Password *</p> <input type="password"/>			
<p>Confirm Password *</p> <input type="password"/>			
<p>Title</p> <p>Mr.</p>			
<p>First name *</p> <input type="text"/>			
<p>Last name *</p> <input type="text"/>			
<p>Job Title</p> <input type="text"/>			

FIGURE 67. Create User Page

6. Enter a username in the **Username** field.

All usernames must comprise standard keyboard characters. Do not use punctuation marks or spaces in a username. Usernames in the Sterling Multi-Channel Selling Solution must be unique within a storefront, so your first choice of username may be already taken. If a username is taken, then a dialog box prompts you to try again with a different username.

7. Enter a password for this new user. The system verifies that the same password has been entered in both fields.
8. If this user is to be a partner user with the partner administrator function, then check the **Profile Administration** check box.
9. Select the attributes you want to assign to this user from the drop-down lists in the **Attributes** panel.
10. Enter any other required information (indicated with an asterisk (*)), as well as any optional information you want to enter.
11. Click **Save**.

When the User Detail page is re-displayed, additional tabs are available.

The screenshot shows the 'User Detail for Sam Smith' page in the Sterling Commerce Administration interface. The page has a header with the Sterling Commerce logo and navigation links. Below the header, there are tabs for 'Info', 'Addresses', 'Preferences', 'Attributes', and 'Notes'. The 'Info' tab is currently selected. The page displays various form fields for user information, including Username, Password, Confirm Password, Title, First name, Last name, and Job Title. There are also sections for User Locale, User Functions, Status, and Spending Limits & Approver. The 'User Functions' section includes checkboxes for Manager, User, Commerce, Commerce Executive, Sales, Sales Executive, Financials, Marketing Executive, and Basic Profile Maintenance. The 'Status' section includes a dropdown for Status and a text area for Comment. The 'Spending Limits & Approver' section includes a dropdown for Spending Limit and a text area for Approver.

FIGURE 68. Partner User Detail Page: Info Tab

- Optionally, enter a spending limit and designate one or more approvers if the user exceeds the spending limit. See "Order Approvals" on page 5 for more information.

Note: The fields for spending limits and approvers appear only if this feature has been enabled. This is done with a business rule. See CHAPTER 39, "Business Rules Administration".

- Click **Save**.
- Click the **Addresses** tab to enter the addresses.

The screenshot shows the Sterling Commerce Administration interface. At the top, the Sterling Commerce logo is on the left, and 'Administration' is on the right. Below the logo, the text 'An AT&T Company' is visible. On the far right, there are links: 'My Home | My Account | About | Help | Logout'. The main heading is 'User Detail for Sam Smith'. Below this, there are five tabs: 'Info', 'Addresses', 'Preferences', 'Attributes', and 'Notes'. The 'Addresses' tab is currently selected. Under the 'Addresses' tab, it says 'Belongs To: [Anderel](#)'. To the right of this, there are three buttons: 'View Users', 'View Account Activity', and 'Save'. Below this, there is a form titled 'Addresses'. The form contains a note: 'NOTE: (*) Items are required.' and links for 'New', 'Delete', and 'Duplicate'. Below the links, it says 'Previous: 1 out of 1. Next'. The form has several input fields: 'Address line 1 *', 'Address line 2', 'City *', 'State/Province and Postal code', and 'Country *'. The 'Country' dropdown is set to 'USA'. At the bottom of the form, there are three checkboxes: 'Use as Sold To Address', 'Use as Ship To Address', and 'Use as Bill To Address'.

FIGURE 69. Partner User Detail Page: Addresses Tab

You can create as many addresses as you like for the user.

- Click the **Preferences** tab to set user preferences for the user.

sterling commerce

An AT&T Company

Administration

My Home | My Account | About | Help | Logout

User Detail for Sam Smith

Info

Addresses

Preferences

Attributes

Notes

Reset

Save

User Cart Mode

Select your Cart Mode.If you are switching from Multiple Carts to Single Cart copy items from your carts to Template or Wish List as your existing carts will not be visible in Single Cart mode.

☐ Single Cart

☒ Multiple Carts

Shopping Cart Display

Select your Shopping Cart View

☒ Simple View

☐ Advanced View

Checkout Type

Select your Checkout Type

☒ Single Step

☐ Multiple Step

Home Page View

Select your Home Page View

FIGURE 70. Partner User Detail Page: Preferences Tab

16. You can assign attributes that are available for assignment to this user by clicking the **Attributes** tab.

sterling commerce

An AT&T Company

Administration

My Home | My Account | About | Help | Logout

User Detail for Sam Smith

Info

Addresses

Preferences

Attributes

Notes

Save

Attribute	Value
What is your preferred contact method?	Email
What are your contact preferences?	Send me transaction-related information and promotional offers.
How do you prefer to buy?	
How do you typically adopt technology?	
In what age range do you fall?	30-35
How would you classify your income range?	
Please specify your gender.	
What level of education have you completed?	
What is your marital status?	
How many children do you have?	
What are your children?	
In what region do you live?	
What is your ethnicity? (optional)	

FIGURE 71. Partner User Detail Page: Attributes Tab

17. You can make notes about this user by clicking the **Notes** tab.

The screenshot shows the 'User Detail for Sam Smith' page in the Sterling Commerce Administration interface. The page has a navigation bar with 'Info', 'Addresses', 'Preferences', 'Attributes', and 'Notes' tabs. The 'Notes' tab is selected. Below the tabs, it says 'Belongs To: Anderel'. There are two buttons: 'View Users' and 'View Account Activity'. A text box for adding a note is present, with an 'Add Note' button and a 'Private' checkbox. Below the text box is a table with columns: Date, Note, Organization, and Created By. The table contains one row: 10/18/2007, Created user, Matrix Solutions Inc., ajones.

Date	Note	Organization	Created By
10/18/2007	Created user	Matrix Solutions Inc.	ajones

FIGURE 72. Partner User Detail Page: Notes Tab

18. Contact the partner to let them know that a partner user has been created.

To Move Users Between Levels in a Profile Hierarchy

Perform this task if you want to move one of your partner's users between the partner nodes in their profile hierarchy. In general, you can only move users to nodes to which you have access: typically, this means that you can move users to your node or to nodes below your node.

Note: Moving a user does not move any carts, orders, and so on, associated with the user. When you move a user to another level in the partner hierarchy, notify the administrator for the level. The administrator for the level can recover these lists, orders, and so on, using the steps in "To Recover Carts" on page 259.

1. Click **Organization Lookup** in the Channel Management panel on the Sterling Multi-Channel Selling Solution home page.
2. Find the partner that contains the user you want to move.
See "To Search for a Profile" on page 179.
3. From the list of search results, click the partner that contains the user.
4. Find the user you want to move.

If the user belongs to the top level in the partner hierarchy, then click **View Partner Users** on the Profile Detail page. This displays the User List page (Figure 74 on page 194).

If the user belongs to a level below the top level:

- a. Click the **Hierarchy** tab on the Profile Detail Page.

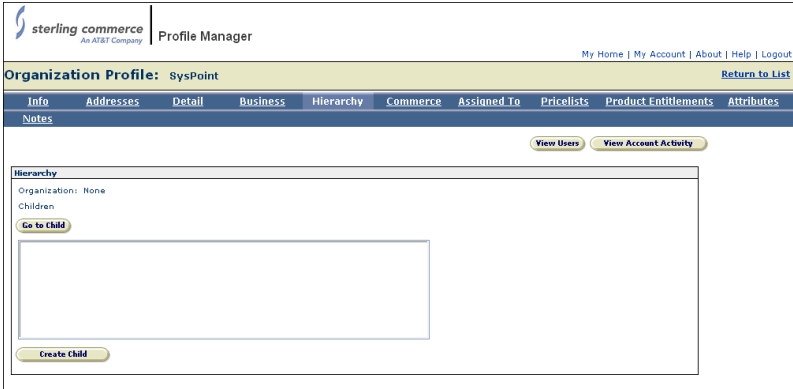


FIGURE 73. Profile Detail Page: Hierarchy Tab

- b. Find and select the level that contains the user you want to move.
- c. Click **Go To Child**.

This displays the Partner Profile Detail Page for that partner. If the user you want belongs to a level below this one, then repeat these steps until you reach the desired level.

- d. Click **View Partner Users** to display the User List Page for that level.

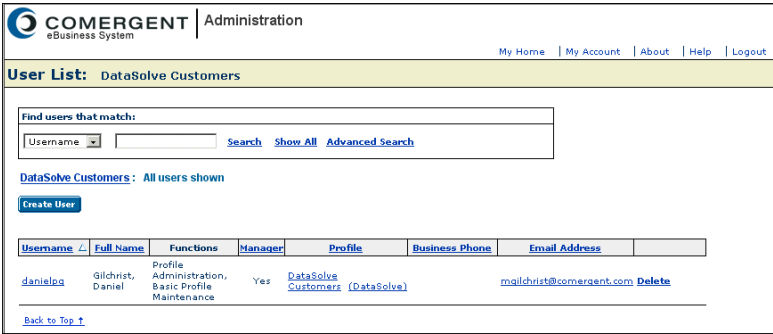


FIGURE 74. Partner User List Page

5. In the User List page, find the user you want to move.

6. Click the **Move** icon in the Actions column.

This displays a window with a selection of levels in the profile hierarchy. The levels are displayed as fully-qualified paths. For example, in Figure 75 on page 195, the first selection is AffinityNet East, a division of AffinityNet. The third selection is AffinityNet West - San Jose, a division of AffinityNet West, which is itself a division of AffinityNet.

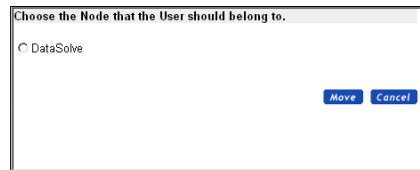


FIGURE 75. Level Selection Window

7. Click the radio button next to the level to which you want to move the user.

If you move a user between two node levels of a profile hierarchy, then the functions assigned to the user before the move are retained.

Note:	Moving a user does not move any carts, orders, and so on, associated with the user. When you move a user to another level in the partner hierarchy, notify the administrator for the level. The administrator for the level can recover these lists, orders, and so on, using the steps in "To Recover Carts" on page 259.
--------------	--

8. Click **Move**.

The user is moved to the selected level.

After you move a user, you should inform the partner (or the node) administrator so that they can examine and modify the information as necessary. This ensures that the information is correct for the new location. For example, the addresses (ship-to, bill-to, and so on) might need to be corrected for the new location.

To Modify an Existing Profile

Over time, your relationship with a partner may change and profile information will need to be updated as contacts and addresses change. As channel administrator, your responsibility is to keep profile information up-to-date by modifying the profile.

As a channel administrator, you can create, modify, and delete partner users. However, once a profile administrator has been created, primary responsibility for partner user administration rests with the partner administrators.

1. Search for the profile as described in "To Search for a Profile" on page 179 and click their name to display their Profile Detail page.
2. Enter the revised information in the appropriate fields.
3. As you enter the information, click **Save** to save the information that you have entered so far.

To Assign a Price List to a Profile

As a channel administrator, you can assign the appropriate price lists to a profile.

1. Click **Organization Lookup** in the Channel Management panel on the Sterling Multi-Channel Selling Solution home page.
2. Search for a profile.

Enter the profile name, or enter search criteria (you can use an asterisk to perform a wildcard search), then click **Search**, or click **Show All** to view all the profiles.

3. Click on the profile name to display the Profile Detail page.
4. Click the **Pricelists** tab.

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Profile Manager

My Home | My Account | About | Help | Logout

Organization Profile: SysPoint [Return to List](#)

Info Addresses Detail Business Hierarchy Commerce Assigned To **Pricelists** Product Entitlements Attributes

Notes

Select appropriate price list for assignment and click Save button to save changes. \$ indicates the price list inherited from parent.

[View Users](#) [View Account Activity](#) [Save](#)

Previous [Next](#)

Assign	Shareable	Price List Name	Starting Date	Ending Date	Currency	Customer Type	Supplier	Status
<input checked="" type="checkbox"/>	<input type="checkbox"/>	USA Distributor	1/17/2001	12/31/2010	USD	General	Matrix Solutions Inc.	Active
<input type="checkbox"/>	<input type="checkbox"/>	Telecommunications	1/17/2001	10/6/2003	USD	Telecommunications	Matrix Solutions Inc.	Active
<input type="checkbox"/>	<input type="checkbox"/>	Taiwan Distributor	1/17/2001	10/6/2009	TWD	General	Matrix Solutions Inc.	Active
<input type="checkbox"/>	<input type="checkbox"/>	Pricelist_unistor	1/17/2001	10/4/2010	USD	General	UNISTOR	Active
<input type="checkbox"/>	<input type="checkbox"/>	Pricelist_taiwantech	1/17/2001	10/4/2010	USD	General	TaiwanTech	Active
<input type="checkbox"/>	<input type="checkbox"/>	Pricelist_syspoint	1/17/2001	10/4/2010	USD	General	SysPoint	Active
<input type="checkbox"/>	<input type="checkbox"/>	Pricelist_paristech	1/17/2001	10/4/2010	USD	General	ParisTech	Active
<input type="checkbox"/>	<input type="checkbox"/>	Pricelist_ornitech	1/17/2001	10/4/2010	USD	General	OmniTech	Active
<input type="checkbox"/>	<input type="checkbox"/>	Pricelist_dataLinq	1/17/2001	10/4/2010	USD	General	DataLinq	Active

FIGURE 76. Available Price Lists for a Partner

5. Click in the check box next to the appropriate price list(s).
6. If you want this price list to be automatically assigned to any profiles beneath this partner in the profile hierarchy, then check the box in the Sharable column.

A dollar sign (\$) designates any list that is shared with a parent (and therefore automatically assigned to the current partner). However, you can still assign that price list to the child and mark it as sharable. This guarantees that the price list will still be assigned to the child (and to its children), even after the assignment is removed from the parent.

See "Making Price Lists Sharable with Child Profiles" on page 28 for an explanation of sharable price lists.

7. Click **Update**.

The selected price lists are assigned to that partner.

To Assign a Product Entitlement to a Profile

As a channel administrator, you can assign the appropriate price lists to a profile.

1. Click **Organization Lookup** in the Channel Management panel on the Sterling Multi-Channel Selling Solution home page.
2. Search for a profile.

Enter the profile name, or enter search criteria (you can use an asterisk to perform a wildcard search), then click **Search**, or click **Show All** to view all the profiles.

3. Click on the profile name to display the Profile Detail page.
4. Click the Product Entitlements tab. The list of product entitlements currently assigned to partner is displayed.

The screenshot shows the Sterling Commerce Profile Manager interface. The top navigation bar includes links for 'My Home', 'My Account', 'About', 'Help', and 'Logout'. The main header displays 'Organization Profile: SysPoint' with a 'Return to List' link. Below this is a tabbed interface with tabs for 'Info', 'Addresses', 'Detail', 'Business', 'Hierarchy', 'Commerce', 'Assigned To', 'Pricelists', 'Product Entitlements', and 'Attributes'. The 'Product Entitlements' tab is active. A text box explains that users can filter entitlements by clicking the 'Filter' button next to the 'Supplier' field and then clicking 'Filter'. It also mentions that users can select product entitlements for assignment by clicking the 'Assign' button and save changes by clicking the 'Save' button. Below this is a table with columns: 'Shareable/Inherited', 'Entitlement Name', 'Description', 'Supplier', 'Start Date', 'End Date', 'Status', and 'Order'. The table contains one row with the following data: 'USA Distributor', 'USA Distribution Partners', 'Matrix Solutions Inc.', '1/17/2001', '12/31/2010', 'Active', and '1'. At the bottom of the table is a 'Back to Top' link.

<input type="checkbox"/>	<input type="checkbox"/>	Entitlement Name	Description	Supplier	Start Date	End Date	Status	Order
<input type="checkbox"/>	<input type="checkbox"/>	USA Distributor	USA Distribution Partners	Matrix Solutions Inc.	1/17/2001	12/31/2010	Active	1

FIGURE 77. Current Product Entitlements for a Partner

5. Click **Assign...**

The screenshot shows a 'Product Entitlement Picker' window. It has a search bar at the top with a 'Search' button. Below the search bar is a text box labeled 'Product Entitlement Name:' with a 'Show All' link. The main area of the window is a large list box. At the bottom of the list box are 'Done', 'Cancel', and 'Remove' buttons. The window title is 'http://mystery:8080 - Hierarchical Entity Choo...'.

FIGURE 78. Product Entitlement Picker Window

6. Search for the product entitlement(s) that you want to assign. Click on their names to add them to the list box.

7. Click **Done**.

The Product Entitlements tab is re-displayed with the added product entitlements.

8. If you want to make the product entitlement(s) inherited by child nodes of this partner, then check the Sharable check box.

9. Click **Save**.

The selected product entitlements are assigned to the partner.

To Assign an Attribute to a Profile

As a channel administrator, you can assign the appropriate attributes to a profile. You can assign only those attributes that have been specified as available for assignment during your partner's registration and profile maintenance.

1. Click **Organization Lookup** in the Channel Management panel on the Sterling Multi-Channel Selling Solution home page.

2. Search for a profile.

Enter the profile name, or enter search criteria (you can use an asterisk to perform a wildcard search), then click **Search**, or click **Show All** to view all the profiles.

3. Click on the profile name to display the Profile Detail page.

1. Click the **Attributes** tab.

Attribute	Value
What is the primary industry of your organization?	Wholesale Trade
What is your organization's average growth rate?	2-4%
In what territory is your headquarters?	Mid West US
How many years have you been established?	1-4

FIGURE 79. Available Attributes for a Partner

2. Select values from the drop-down list next to the attributes you want to assign to the partner.

3. Click **Save**.

The attributes are assigned to the partner.

To Set Up a Credit Card Payment Gateway

1. Display the Profile Detail page.
2. Click the **Commerce** tab.
3. Click **CC Payment Gateway**. The Credit Card Payment Gateway Setup page displays, similar to the following figure.

The screenshot shows the 'Credit Card Payment Gateway Setup' page. At the top, there's a header with the 'sterling commerce' logo and 'Administration' text. Below the header, there's a navigation bar with 'My Home | My Account | About | Help | Logout'. The main title 'Credit Card Payment Gateway Setup' is displayed in a yellow bar. Below the title, there are two buttons: 'View Profile' and 'Save'. The page is divided into two main sections: 'Payment Processing Options' and 'Payment Gateway Configuration Parameters'. In the 'Payment Processing Options' section, there's a 'Credit Card Payment Processor Gateway Type' dropdown set to 'CyberSource' and an 'Enable CV Number Check' radio button set to 'False'. In the 'Payment Gateway Configuration Parameters' section, there's a 'Processing Type for Orders' radio button set to 'Authorization and Settlement', a 'Merchant ID' text field, a 'Key Directory' text field, a 'Target API Version' text field, a 'Send to Production' radio button set to 'False', an 'Enable Logging' radio button set to 'False', a 'Log Directory' text field, and a 'Log Maximum Size (MB)' text field. A red asterisk indicates a required field.

FIGURE 80. Credit Card Payment Gateway Setup Page

4. Select the appropriate payment processor radio button. The available options are determined during implementation. See the *Sterling Multi-Channel Selling Solution Implementation Guide* for more information.
5. Select the appropriate CV Number Check radio button.
6. Enter the payment gateway information as required. Check the *Sterling Multi-Channel Selling Solution Implementation Guide* for the appropriate values for your payment gateway. At the time of writing, the following values are correct for a CyberSource payment gateway:
 - Target API Version: 1.7
7. Click **Save**.

To Set Up A Gift Card Payment Gateway

1. Display the Profile Detail page.
2. Click the **Commerce** tab.
3. Check the Gift Card check box.
4. Click **GC Payment Gateway**. The Gift Card Payment Gateway Setup page displays, similar to the following figure.

sterling commerce
An AT&T Company

Administration

My Home | My Account | About | Help | Logout

Gift Card Payment Gateway Setup

[View Profile](#) [Save](#)

Your setting has been stored successfully

Payment Processing Options

Gift Card Payment Processor Gateway Type *

* indicates a required field

FIGURE 81. Gift Card Payment Gateway Setup Page

5. Select the appropriate gateway from the Payment Processing Options drop-down list.

The available options are determined during implementation. See the *Sterling Multi-Channel Selling Solution Implementation Guide* for more information.

6. Enter any required information for the gift card payment gateway.
7. Click **Save**.

To Remove Support For Gift Card Payments

1. Display the Profile Detail page.
2. Click the **Commerce** tab.
3. Uncheck the Gift Card check box.
4. Click **GC Payment Gateway**. The Gift Card Payment Gateway Setup page displays, similar to the following figure.

sterling commerce | Administration
An AT&T Company

My Home | My Account | About | Help | Logout

Gift Card Payment Gateway Setup

[View Profile](#) [Save](#)

Your setting has been stored successfully

Payment Processing Options

Gift Card Payment Processor Gateway Type * None

* Indicates a required field

FIGURE 82. Gift Card Payment Gateway Setup Page

5. Select None from the Payment Processing Options drop-down list.
6. Click Save.

To View Cart Activity for Selected Profiles

Once you have completed a search and displayed a list of profiles, you can view cart activity for selected profiles. Note that you must have been assigned the Commerce function to do this.

1. Search for and display the list of profiles whose activity you want to view.
See "To Search for a Profile" on page 179. This displays a search results list.

sterling commerce | Administration
An AT&T Company

My Home | My Account | About | Help | Logout

Profile List:

Search for Profiles

Name [Search](#) [Show All](#) [Advanced Search](#)

[Export List](#) [View Account Activity](#) [Create Storefront](#) [Create Profile](#)

<input type="checkbox"/>	Name	Root Profile Name	Type	Level
<input type="checkbox"/>	AMT-Systems		Reseller	Gold
<input type="checkbox"/>	ARCnet_Group		Reseller	Gold
<input type="checkbox"/>	Asustek-us		Distributor	Gold
<input type="checkbox"/>	Asustek-us		Distributor	Gold
<input type="checkbox"/>	affinityNet		Reseller	Gold
<input type="checkbox"/>	AllNet Corp. (*)		Enterprise	Enterprise
<input type="checkbox"/>	AllNet Sales & Finance (*)	AllNet Corp	Enterprise	Enterprise
<input type="checkbox"/>	Andersel		Distributor	Silver
<input type="checkbox"/>	AnonymousUser@partner		AnonymousUser@partner	Tin
<input type="checkbox"/>	Archer Technologies		Systems Integrator	Gold

Previous [Next](#)

FIGURE 83. Profile List Page

2. Check the box next to each profile whose activity you want to view.
3. Click **View Commerce Activity**.

The screenshot shows the 'Account Activity' page in the COMERGENT Administration system. The 'Active' tab is selected. Below the navigation tabs, there is a search bar for 'Find carts that contain:' with a 'Product ID' dropdown and a search button. Below this, a message states 'You are viewing lists for Multiple Organizations'. A table lists three carts with columns: Cart ID, Name, Last Modified, Date Created, User Name, and Organization. The first two carts are selected with checkboxes.

<input type="checkbox"/>	Cart ID	Name	Last Modified	Date Created	User Name	Organization
<input type="checkbox"/>	600801	Cart	9/12/2005	9/12/2005	Scott, Mike	DataSolve
<input type="checkbox"/>	600701	Product List	9/11/2005	9/11/2005	Scott, Mike	DataSolve
<input type="checkbox"/>	600601	Product List	9/11/2005	9/11/2005	Scott, Mike	DataSolve

FIGURE 84. Product Lists Page: Active Tab

4. Find the cart you want to view.
5. Click the link in the Name column to display the detail for a cart.

The screenshot shows the 'Build your Cart:' page in the COMERGENT Administration system. It displays cart details for 'Product List' and 'General' customer type. A 'Checkout >' button is visible. Below the details, a message states 'You are currently on step 1 of 2 in processing this Cart.' and provides instructions on how to add items or complete the order. A table lists items in the cart with columns: Name, Product ID, Supplier, Price, Quantity, Ext. Price, and Status.

<input type="checkbox"/>	Name	Product ID	Supplier	Price	Quantity	Ext. Price	Status
<input type="checkbox"/>	7410 Notebook "Workhorse"	MXLP-7410	Enterprise	\$100.00000	1	\$100.000	
<input type="checkbox"/>	7490 Desktop "Base Plus"	MXDS-7490	Enterprise	\$100.00000	3	\$300.000	
	17" Monitor	MX-GV17T		included	3		
	Windows 2000	MX-MSW2K		included	3		

FIGURE 85. Cart Detail Page


Payment Accounts

This section describes how to manage payment accounts for a partner.

To Create an MDF Payment Account

1. Navigate to the partner profile for whom you want to create a payment account.
2. In the Payment Accounts panel, select MDF from the View Accounts detail drop-down list.
3. Click **Go**.

The MDF Account List page is displayed.

 Administration

My Home | My Account | About | Help | Logout

MDFAccount List

Find accounts that contain:

CurrencyARS Search Show All

All accounts shown

New MDF Account

Account Name	Account Status	Creation Date	Available Date	Currency	Available Balance	Balance	Expiration Date	Program Name	Activity Name
General Account	Active	9/13/2005	9/13/2005	USD	\$5,000.000	\$5,000.000	12/12/2005		

FIGURE 86. MDF Account List Page

4. Click **New MDF Account**.

The New MDF Account page is displayed.

FIGURE 87. New MDF Account Page

5. Enter details for the new MDF account as follows:
 - a. Account Name:
 - b. Description:
 - c. Currency:
 - d. Starting Balance:
 - e. Available Date:
 - f. Expiration Date:
 - g. Program Name:
 - h. Activity Name:
6. Click **Create**.

The MDF Account Detail page is displayed.

COMERGENT | Administration
eBusiness System

My Home | My Account | About | Help | Logout

General Account

Account Details | Account Activity | Notes

[Go to Accounts List](#)

After changing account information save changes using the Save button. Use the Cancel button to reverse the changes.

[Save](#) [Cancel](#)

* Required Fields

Account Information	
Account Type:	MDF
Account Name: *	General Account
Description:	General account for untargted activities.
Currency: *	USD
Account ID:	600500
Account Status:	Active
Creation Date:	9/13/2005
Available Date: *	9/13/2005
Expiration Date: *	12/12/200
Available Balance:	\$5,000,000
Balance:	\$5,000,000
Program Name:	
Activity Name:	N/A

[Update Account Balance](#)

FIGURE 88. MDF Account Detail Page

7. You can add or remove funds from this account as described in "To Add Funds to a Payment Account" on page 208 and "To Remove Funds From a Payment Account" on page 209.

To Create an Co-op Payment Account

1. Navigate to the partner profile for whom you want to create a payment account.
2. In the Payment Accounts panel, select Co-op from the View Accounts detail drop-down list.
3. Click **Go**.

The Co-op Account List page is displayed.

COMERGENT eBusiness System | Administration

My Home | My Account | About | Help | Logout

Co-opAccount List

Find accounts that contain:

Currency: Search Show All

All accounts shown

New Co-op Account

Account Name	Account Status	Creation Date	Available Date	Currency	Available Balance	Balance	Expiration Date	Program Name	Activity Name
Marketing Co-op Account	Active	9/13/2005	9/13/2005	USD	\$0.000	\$0.000	12/12/2005		

FIGURE 89. Co-op Account List Page

4. Click **New Co-op Account**.

The New Co-op Account page is displayed.

COMERGENT eBusiness System | Administration

My Home | My Account | About | Help | Logout

New Co-op Account

[Go to Accounts List](#)

Enter data and click on the Create button to create an account.

Create **Cancel**

* Required Fields

Account Information

Account Type: Co-op

Account Name:

Description:

Denomination:

Currency:

Account ID:

Account Status: Active

Creation Date:

Available Date:

Expiration Date:

Base Amount:

Currency:

Coop Percentage: 0.000

FIGURE 90. New Co-op Account Page

5. Enter details for the new Co-op account as follows:
 - a. Account Name: A unique name for the account.
 - b. Description: Provide a description of the account.
 - c. Currency: The currency in which funds will be maintained.
 - d. Starting Balance: The starting balance for the account.
 - e. Available Date: When the account can begin to be used.

- f. Expiration Date: When the account stops being usable for funds.
- g. Base Amount: The amount on which the funds should be calculated.
- h. Currency: The currency in which the base amount is defined.

When the account is created, the base amount and percentage will be used to calculate the amount that should be put in the Co-op account. If the base amount currency is different from the account currency, then the calculated amount will be converted into the account currency. The currency conversion rates are stored in the CMGT_CURRENCIES database table.

6. Click **Create**.

The Co-op Account Detail page is displayed.

COMERGENT | Administration
eBusiness System

My Home | My Account | About | Help | Logout

Marketing Co-op Account

Account Details | Account Activity | Notes

[Go to Accounts List](#)

After changing account information save changes using the Save button. Use the Cancel button to reverse the changes.

[Save](#) [Cancel](#)

* Required Fields

Account Information	
Account Type:	Co-op
Account Name:	Marketing Co-op Ac
Description:	Account to support marketing activities.
Account ID:	600501
Account Status:	Active
Creation Date:	9/13/2005
Available Date:	9/13/2005
Expiration Date:	12/12/2005
Denomination:	USD
Currency:	USD
Available Balance:	\$0.000
Balance:	\$0.000

Update Account Balance

Choose whether to add funds to the account or remove them. Then enter the amount you wish to add or remove. Finally, add a note about the reason for the change.

FIGURE 91. Co-op Account Detail Page

7. You can add or remove funds from this account as described in "To Add Funds to a Payment Account" on page 208 and "To Remove Funds From a Payment Account" on page 209.

To Add Funds to a Payment Account

You can add funds to a payment account as follows.

1. Navigate to the payment account detail page.

2. In the Update Account Balance panel, click the **Add Funds** radio button.
3. Enter the amount you wish to add.
4. (Optional) Enter a reason for the addition.
5. Click **Post**.

The Payment Account Detail page is re-displayed with the updated available balance.

To Remove Funds From a Payment Account

You can remove funds from a payment account as follows.

1. Navigate to the payment account detail page.
2. In the Update Account Balance panel, click the **Remove Funds** radio button.
3. Enter the amount you wish to remove.
4. (Optional) Enter a reason for the removal.
5. Click **Post**.

The Payment Account Detail page is re-displayed with the updated available balance.

Storefront Administration

When you create a storefront, you create a partner profile that serves as the enterprise partner within the storefront. This partner is the storefront administrator partner and users who belong to this partner are *storefront administrators*.

To Create a Storefront

1. Click **Go** in the Search for Organization by Name panel on the Sterling Multi-Channel Selling Solution home page.
2. Click **Create Storefront** on the Profile List page.
This displays the Organization Detail: New Profile page.
3. Enter basic information for the storefront administrator partner as you would do for any other partner. * denotes required fields.
4. Enter a skin URL for the new storefront. This should be a simple string and must be unique within the Sterling Multi-Channel Selling Solution. For

example, you can use "anderel" or "storefront". This string will be used in URLs used to access the storefront. For example:

`http://server:port/Sterling/en/US/enterpriseMgr/anderel`

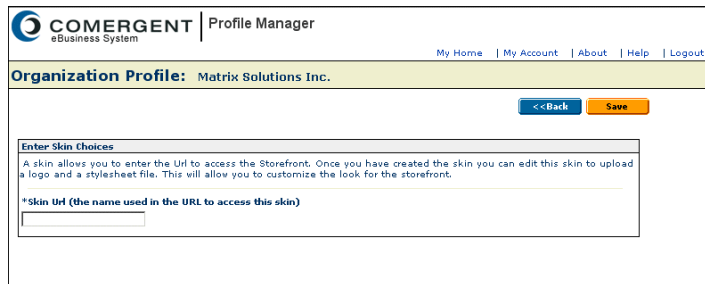
5. Click **Save**.

You must create at least one user to act as the first storefront administrator for the new storefront. See "To Create a New Partner User" on page 188 for details. Notify the organization for whom you have created the storefront and provide them with their new storefront URL and their storefront administrator userid.

Skin Administration

To Create a Skin

1. Navigate to your organization profile.
2. Click the Commerce tab.
3. Click **Create New Skin**.



The screenshot shows the 'COMERGENT eBusiness System' Profile Manager interface. At the top, there are navigation links: 'My Home', 'My Account', 'About', 'Help', and 'Logout'. Below this, the 'Organization Profile' is set to 'Matrix Solutions Inc.'. There are two buttons: '<<Back' and 'Save'. The main section is titled 'Enter Skin Choices' and contains a text area for the skin URL, with a label '*Skin Url (the name used in the URL to access this skin)'. Below the text area is a small input field.

FIGURE 92. New Skin Page

4. Enter the URL string for the new skin.
5. Click **Save**.

The Edit Skin page is displayed.

The screenshot shows the 'COMERGENT eBusiness System' Profile Manager interface. The page title is 'Organization Profile: Matrix Solutions Inc.' with navigation links for 'My Home', 'My Account', 'About', 'Help', and 'Logout'. Below the title are '<<Back' and 'Save' buttons. The main content area is titled 'Enter Skin Choices' and contains instructions: 'Edit this skin to upload a logo and a stylesheet file or change the Url to access this skin.' and 'Upload a logo for your Storefront. For proper display, image size must be 181*41 pixels.' The 'Upload Logo Image to Server' section includes a file input field with a 'Browse...' button and an 'Upload' button. Below this is a text field for 'Logo URL or Uploaded File Path' and a 'Preview Logo' section with a 'Preview' button. The 'Upload a Stylesheet (CSS) File to Server' section includes a dropdown menu set to 'United States', a file input field with a 'Browse...' button, and an 'Upload' button. At the bottom, there is a text field for '*Skin Url (the name used in the URL to access this skin)' with the value 'store' entered.

FIGURE 93. Edit Skin Page

6. You can upload an image to use to brand the storefront skin, and you can upload a cascading stylesheet to use with the storefront skin.
7. Click **Save**.

Managing the Enterprise Profile

In addition to managing partner profiles, some enterprise users are responsible for managing the enterprise profile (that is, the profile of the tenant or storefront partner). Almost all of the profile fields are the same as for partner profiles, and so are covered in their respective sections above. However, some fields are used only by enterprise profiles and child nodes. This section documents these fields.

Info Tab

For enterprise profiles, an additional field is displayed:

- **Max Reps Per Account:** enter the maximum number of users belonging to this profile that may be assigned to any particular partner profile account.

Commerce Tab

You can manage the skins for the tenant and storefront partners. See "Skin Administration" on page 210 for more information.

Current Accounts

Use this tab to assign partners to each node of the enterprise. This allows you to manage which partner accounts are managed by which enterprise nodes.

This chapter describes the tasks associated with managing accounts in the Sterling Multi-Channel Selling Solution. These include assigning accounts to nodes in the enterprise hierarchy and assigning accounts to users of these nodes. "Account Management" on page 45 contains an overview of account administration in the Sterling Multi-Channel Selling Solution.

This chapter covers the following topics:

- "Overview" on page 213
- "Assigning Accounts to Enterprise Nodes" on page 216
- "Assigning Accounts to Users" on page 218

Overview

Account management is the general task of ensuring that the right enterprise users can work with the right partners. It enables enterprise users to use the Sterling Multi-Channel Selling Solution to work with their partner users by creating orders on their behalf, working with their quotes, and so on. In this release of the Sterling Multi-Channel Selling Solution, account management is done by creating a hierarchy of profile nodes within the enterprise partner, creating users at these nodes, and then assigning other non-enterprise partners, known as accounts, to these nodes. Then, enterprise users at these nodes can be assigned to the accounts

assigned to their node, and each enterprise user will then be able to work with a small number of partner accounts.

For example, consider the following enterprise hierarchy of node and users:

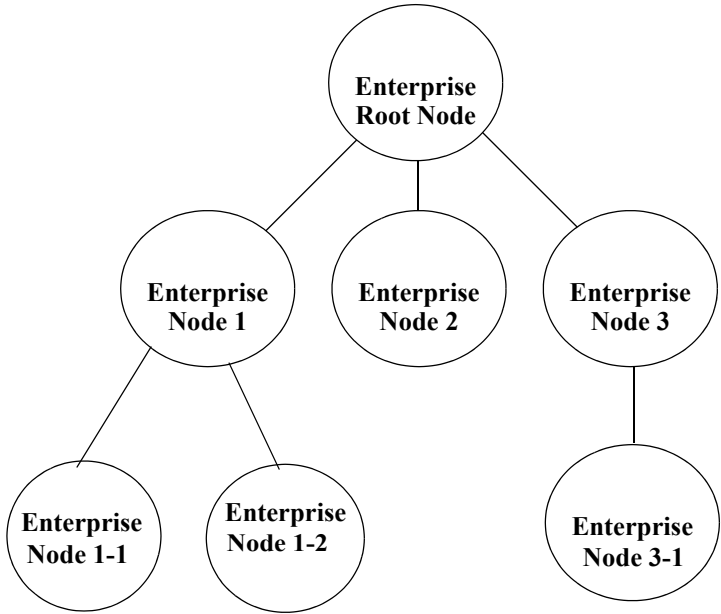


FIGURE 94. Example Enterprise Hierarchy

Suppose that there are two non-enterprise partners, Partner A and Partner B, and suppose that you set up the following assignment of these partners to the enterprise nodes and users as follows:

TABLE 18. Account Assignment to Nodes and Users

Node	Assignment to Node	User ^a	Assignment to User
Root	Partner A	user0a*	Partner A
	Partner B	user0b	Partner A

TABLE 18. Account Assignment to Nodes and Users (Continued)

Node	Assignment to Node	User ^a	Assignment to User
Node 1	Partner A Partner B	user1a*	Partner A Partner B
		user1b	Partner A
		user1c	Partner B
Node 2		user2a*	
		user2b	
Node 3	Partner A	user3a*	Partner A Partner B ^b
		user3b*	Partner A Partner B ^c
		user3c	Partner A
		user3d	
Node 1-1	Partner A	user11a*	Partner A
		user11b	Partner A
Node 1-2	Partner B	user12a*	Partner B
		user12b	
Node 3-1	Partner B	user31a	Partner B
		user31b	

- a. In this table, manager users are marked with an “*”.
- b. This is inferred from the assignment of Partner B to Mode 3-1.
- c. This is inferred from the assignment of Partner B to Mode 3-1.

This table says that both Partner A and Partner B are assigned to the root enterprise node. Partner A is also assigned to Nodes 1, 3, and 1-1. Partner B is also assigned to Nodes 1, 1-2, and 3-1. Note that because user3a and user3b are managers, they are also assigned Partner B because Partner B has been assigned to a child node, Node 3-1.

As a result, you can assign Partner A to any of the users of Nodes 1, 3, and 1-1, but you do not have to assign it to all users of these nodes. For example, user3c has been assigned Partner A, but user3d has not. If user3d logs in to the Sterling Multi-Channel Selling Solution, then they will not be able to view commerce information

generated by Partner A users. Depending on the functions assigned to user3c, this user will be able to view orders, quotes, and so on belonging to Partner A users.

Managers

Manager users are assigned all accounts that have been assigned to their node. They can also assign accounts to other users at their node. See "To Assign an Account to a User" on page 218.

Drawing Accounts from Pool

Enterprise users can pro-actively assign themselves accounts by drawing them from the pool of accounts that have been assigned to their node. You can specify a limit to the number of accounts that a user can have at any one time. See "To Draw Accounts from the Pool" on page 220.

Assigning Accounts to Enterprise Nodes

Before you can assign an account to user, you must assign the account to the enterprise node to which the user belongs.

To Assign an Account to an Enterprise Node

1. Log in as an enterprise user: you must be a user that has write access to the target enterprise node to which you want to assign the account.
2. Navigate to the partner profile page for the target enterprise node, and click the **Assign Accounts** tab.

COMERGENT | Profile Manager
eBusiness System

My Home | My Account | About | Help | Logout

Organization Profile: Enterprise > West Coast Office

Info | Addresses | Detail | Business Hierarchy | Logo | Current Accounts | **Assign Accounts** | Pricelists | Product Entitlements

Notes

[View Users](#)

Find profiles that contain:

Profile Name [Search](#) [Show All](#) [Advanced Search](#)

[View Commerce Activity](#) [Assign](#)

Previous [Next](#)

<input type="checkbox"/>	Name ↕	Type	Level
<input type="checkbox"/>	Al	Distributor	Platinum
<input type="checkbox"/>	Aessten_uc	Distributor	Gold
<input type="checkbox"/>	Aelften_uc	Distributor	Gold
<input type="checkbox"/>	AffinityNet	Reseller	Gold
<input type="checkbox"/>	AllNet Corp	Distributor	Silver
<input type="checkbox"/>	Andere	Distributor	Silver

FIGURE 95. Profile Detail Page: Assign Accounts Tab

3. Check one or more check boxes next to the partners that you want to assign to this node.
4. Click **Assign**.

To Unassign an Account from an Enterprise Node

1. Log in as an enterprise user: you must be a user that has write access to the target enterprise node to which you want to assign the account.
2. Navigate to the partner profile page for the target enterprise node, and click the **Current Accounts** tab.

The screenshot shows the COMERGENT Profile Manager interface. At the top, there's a header with the COMERGENT logo and 'eBusiness System'. Below that, a navigation bar includes 'My Home', 'My Account', 'About', 'Help', and 'Logout'. The main content area is titled 'Organization Profile: Enterprise > West Coast Office'. A sub-navigation bar contains tabs: 'Info', 'Addresses', 'Detail', 'Business', 'Hierarchy', 'Logo', 'Current Accounts', 'Assign Accounts', 'Pricelists', and 'Product Entitlements'. The 'Current Accounts' tab is active. Below the tabs, there's a 'Notes' section and a 'View Users' button. A search box labeled 'Find profiles that contain:' is present, with a 'Profile Name' dropdown and buttons for 'Search', 'Show All', and 'Advanced Search'. Below the search box are buttons for 'View Commerce Activity' and 'Unassign'. A table lists current accounts with columns for a checkbox, Name, Type, and Level.

	Name	Type	Level
<input type="checkbox"/>	AMT Systems	Reseller	Gold
<input type="checkbox"/>	ARCnet Group	Reseller	Gold

FIGURE 96. Profile Detail Page: Current Accounts Tab

3. Check one or more check boxes next to the partners that you want to unassign from this node.
4. Click **Unassign**.

Assigning Accounts to Users

Before assigning an account to an enterprise user, make sure that you have assigned the account to their enterprise node. See "Assigning Accounts to Enterprise Nodes" on page 216.

To Assign an Account to a User

1. Log in as an enterprise user: you must be a user that has write access to the target user to which you want to assign the account.
2. Navigate to the user profile page for the target user, and click the **Assign Accounts** tab.

COMERGENT eBusiness System | Administration

My Home | My Account | About | Help | Logout

User Detail for Richard Jones

Info | Addresses | Current Accounts | **Assign Accounts** | Notes

Belongs To: [Enterprise](#) [View Users](#)

Find profiles that contain:

Profile Name [Search](#) [Show All](#) [Advanced Search](#)

Some of the accounts might be disabled because the maximum number of reps that can work an account at this user's node has already been reached

[View Commerce Activity](#) [Assign](#)

Previous [Next](#)

<input type="checkbox"/>	Name ↕	Type	Level
<input type="checkbox"/>	A1	Distributor	Platinum
<input type="checkbox"/>	AMT-Systems	Reseller	Gold
<input type="checkbox"/>	ARCnet Group	Reseller	Gold
<input type="checkbox"/>	Aezsten_uc	Distributor	Gold
<input type="checkbox"/>	Aellten_uc	Distributor	Gold

FIGURE 97. User Detail Page: Assign Accounts Tab

3. Check one or more check boxes next to the partners that you want to assign to this user.
4. Click **Assign**.

To Unassign an Account from a User

1. Log in as an enterprise user: you must be a user that has write access to the target user to which you want to assign the account.
2. Navigate to the user profile page for the target user, and click the **Current Accounts** tab.

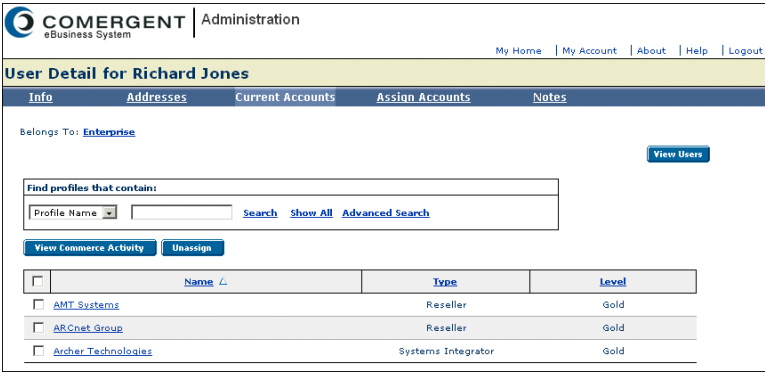


FIGURE 98. User Detail Page: Current Accounts Tab

3. Check one or more check boxes next to the partners that you want to unassign from this user.
4. Click **Unassign**.

To Draw Accounts from the Pool

1. Log in as an enterprise user.
2. Navigate to your user profile page, and click the **Draw Accounts From Pool** tab.

COMERGENT eBusiness System | Administration

My Home | My Account | About | Help | Logout

User Detail for James Blake

Info | Addresses | **Current Accounts** | Draw Accounts from Pool | Notes

Belongs To: [Enterprise](#) View Users

Find profiles that contain:

Profile Name [Search](#) [Show All](#) [Advanced Search](#)

Some of the accounts might be disabled because the maximum number of reps that can work an account at this user's node has already been reached

[Draw from Pool](#)

Previous [Next](#)


<input type="checkbox"/>	Name ↕	Type	Level
<input type="checkbox"/>	A1	Distributor	Platinum
<input type="checkbox"/>	AMT Systems	Reseller	Gold
<input type="checkbox"/>	ARCnet Group	Reseller	Gold
<input type="checkbox"/>	Aessten uc	Distributor	Gold

FIGURE 99. User Detail Page: Draw Accounts From Pool Tab

3. Check one or more check boxes next to the partners that you want to assign to yourself.
4. Click **Draw From Pool**.

To Return Accounts to the Pool

1. Log in as an enterprise user.
2. Navigate to your user profile page, and click the **Current Accounts** tab.

Administration

My Home | My Account | About | Help | Logout

User Detail for James Blake

Info | Addresses | Current Accounts | Draw Accounts from Pool | Notes

Belongs To: [Enterprise](#) [View Users](#)

Find profiles that contain:

Profile Name [Search](#) [Show All](#) [Advanced Search](#)

[Decline](#)

<input type="checkbox"/>	Name ↕	Type	Level
<input type="checkbox"/>	Coca Cola	Distributor	Platinum
<input type="checkbox"/>	CompeCom	Reseller	Tin
<input type="checkbox"/>	CompuNet	Reseller	Gold

FIGURE 100. User Detail Page: Current Accounts Tab

3. Check one or more check boxes next to the partners that you want to return to the pool.
4. Click **Decline**.

Administration Performed by Partner Users

This chapter covers all of the tasks that employees of Sterling Multi-Channel Selling Solution partners perform to maintain their data at the enterprise installation of Sterling Multi-Channel Selling Solution. These tasks are of two types: tasks performed by any partner administrator, and tasks exclusive to an administrator of a partner enabled for Sterling Partner.com.

The following are tasks performed by any partner administrator:

- "Profile Administration for Partners" on page 225
 - "To Maintain Your Profile" on page 226
 - "To Create a Profile in Your Partner Hierarchy" on page 227
 - "To Upload Your Logo File" on page 232
 - "To Create a Forecast File" on page 229
 - "To Upload a Forecast File" on page 230
 - "To Create a Template Group" on page 234
 - "To Upload a New Proposal Template" on page 235
- "User Administration for Partners" on page 236
 - "To Create a User" on page 237
 - "To Create a User at Another Level in a Profile Hierarchy" on page 242

- "To Modify a User" on page 246
- "To Modify a User at Another Level in the Partner Hierarchy" on page 248
- "To Delete a User" on page 256
- "To Delete a User at Another Level in the Profile Hierarchy" on page 257
- "To Recover Carts" on page 259
- "Product Administration for Partners" on page 261
 - "To Maintain Product Information" on page 261
 - "Managing Availability Information" on page 262
- "Pricing Administration for Partners" on page 262
 - "To Maintain Pricing Information" on page 262
- "Opportunity Administration by Partners" on page 264
 - "To Create Partner Sales Representatives" on page 264
 - "To Accept an Opportunity" on page 264
 - "To Decline an Opportunity" on page 265
 - "To Delegate an Opportunity" on page 267
 - "To Add or Modify General Opportunity Information" on page 268
 - "To Prepare a Proposal for a Contact" on page 270
 - "To Create an Order from an Opportunity" on page 272
 - "To Add Notes About An Opportunity" on page 275
 - "To Close an Opportunity" on page 277
 - "To Create a New Proposal by Copying an Existing Proposal" on page 278
 - "To Create a New Proposal and New Opportunity" on page 279
- "Invoice Administration by Partners" on page 281
 - "To View an Invoice" on page 281
- "Program Administration by Partners" on page 283
 - "To Submit a Preapproval Request" on page 283
 - "To Submit a Claim" on page 283

This chapter also covers the following tasks exclusive to storefront partners:

- "To Upload Product Mapping" on page 285
- "To Download Products" on page 286
- "To Update Product Mappings" on page 287
- "To Assign Price Lists to Partners" on page 289
- "To Set Your Email Templates" on page 291
- "To View an Invoice" on page 281

Only users that have the Profile Administration function may perform these tasks. For each partner, the enterprise administrator must create at least one user with the Profile Administration function. If the partner is the top-level in a partner hierarchy, then the partner administrator for that partner must create at least one user with the Profile Administration function for each child partner in the hierarchy.

The Sterling Multi-Channel Selling Solution enterprise administrator is responsible for providing each partner with a URL that brings a partner employee to their Sterling Multi-Channel Selling Solution home page.

Profile Administration for Partners

When an administrator user creates a new partner, they are responsible for creating the partner profile. The partner profile provides basic contact information and defines the business relationship between the enterprise and partner. The administrator must also create at least one partner user who will be the profile administrator. The profile administrator is responsible for adding and modifying information held in the partner profile. The profile administrator cannot modify certain fields that remain the responsibility of the enterprise profile administrators.

The Sterling Multi-Channel Selling Solution enables partners to create and maintain a partner hierarchy. For each partner (node) in the hierarchy, the profile administrator must create at least one partner user who will be the node profile administrator. The node profile administrator is responsible for adding and modifying information held in the partner profile for their specific node.

To Maintain Your Profile

1. Log into the server at the enterprise site by clicking the appropriate portal link on the Sterling Multi-Channel Selling Solution home page and entering your login information.

Typically, this link is created for partners by the enterprise administration team, and they need to let you know what this link is.

2. Click the link to your profile. In the reference implementation, you do this by clicking **Update Your Organization Profile** on the partner home page.

This displays the Profile Detail page.

matrixsolutions

GRAPHIC DESKTOP SYSTEMS

product selection

POWERED BY COMERGENT

[My Home](#) | [My Account](#) | [Account Activity](#) | [Help](#) | [Logout](#)

Organization Profile: DataSolve

InfoAddressesDetailBusinessHierarchyCommerceForecastNotes

View UsersSave

NOTE: (*) Items are required.

General Information

Profile name *

DataSolve

Main telephone

610-6800

Main facsimile

N/A

Profile type *

Reseller

Profile level *

Gold

XML Message Version

dXML 4.1.1

Login/Password required

☐

Organization website address

www.datasolve.com

Organization Email

corp@datasolve.com

Distributors

Select to add

Omnitech

Anderel

RIT Solutions

ParisTech

Remove

Message URL

Content Type

Custom Field #1

Custom Field #2

Custom Field #3

Custom Field #4

Custom Field #5

Profile Status

Status

Open

Accounts

Currency

USD

Credit Limit

\$5,000.00

Available Credit

\$5,000.00

Co-op %

0.000

Co-op Account Maximum

\$0.00

FIGURE 101. Organization Profile Detail Page

3. Enter and modify the organization profile information. You cannot modify some fields that are maintained by the enterprise channel administrators.
4. Click **Save** to save your changes.

To Create a Profile in Your Partner Hierarchy

1. Access the Profile Detail page as described in "To Maintain Your Profile" on page 226.
2. Click the **Hierarchy** tab.



FIGURE 102. Organization Profile Detail Page: Hierarchy Tab

3. Find the profile that you want to be the parent.

Note: Skip this step if you want the child partner to be a child of the top-level, parent partner.

- a. Find and click the parent profile in the list of child nodes.
 - b. Click **Go To Child**.
This displays the profile tabs for the child.
 - c. Click the **Hierarchy** tab for the child.
 - d. Repeat these steps until you find the appropriate node in the hierarchy.
4. When you find the desired parent profile, click **Create Child** or **Create Customer**.
 - If you want to create profile for a part of your business organization such as a department or division, then click **Create Child**. Users created under this profile are treated like other partner users: they can log into the enterprise site.

- If you want to create a profile to represent a customer organization, then click **Create Customer**. Users created under this profile can only enter your storefront: they cannot log into the enterprise site.

This displays the partner profile tabs for the new partner. Notice that certain information (for example, partner type) is copied from the parent partner.

5. Enter and modify the profile information. You cannot modify some fields that are maintained by the enterprise channel administrators.
6. Click **Save** to save your changes.

Forecast Tab

This tab is used by partners to provide detailed forecasts of their sales activities. See "Inventory and Demand" on page 60 for an overview of reseller forecasting in the Sterling Multi-Channel Selling Solution.

Note:	The Forecast tab is available only to partners. Storefronts do not have access to the Forecast tab.
--------------	---

Before resellers can submit forecasts, the enterprise must specify the interval each forecast should cover and when forecasts should be submitted by resellers to the enterprise. The enterprise must specify the start and end date of their financial year and the start and end date for each quarter.

For example, if the enterprise has a financial year that begins in June of each year, then Quarter 1 of Year 2001 covers the period June 1st 2000 to August 31st 2000, Quarter 2 covers September 1st 2000 to November 30th 2000, and so on.

There are two steps involved in submitting a forecast:

- "To Create a Forecast File" on page 229
- "To Upload a Forecast File" on page 230

Forecast File

The format of a forecast file is as follows:

- Exactly one header line that comprises quarter and year separated by a *tab*.
- One body line for each product included in the forecast.

For example:

```
12005
OMDT-7490120
OMDT-7500240
OMDT-75100
```

OMWS-7600100
OMWS-76101000

This example supplies the forecast for the first quarter of the 2005 financial year. You must create the forecast using the enterprise's product IDs for each product. The quantity must be a positive integer or zero ("0").

You can create a forecast file in Excel spreadsheet format, or you can create a forecast file using your preferred text editor. If you create the data using a spreadsheet other than Microsoft Excel, then you can simply export the data as a tab-delimited file. Follow the instructions provided by your spreadsheet application for further details.

Note: You must take care to ensure that your forecast file follows this *tab-delimited* format exactly. Make sure that no lines precede the header line.

To Create a Forecast File

1. Access the Partner Profile Detail page as described in "To Maintain Your Profile" on page 226.
2. Click the **Forecast** tab.

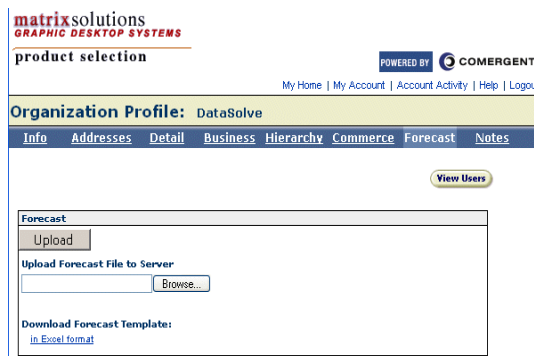


FIGURE 103. Partner Profile Detail Page: Forecast Tab

3. Click **in Excel format** for the information to be displayed in an Excel spreadsheet.

The Microsoft Excel application is opened in a browser window and the information is displayed in an Excel spreadsheet. Use the Excel program to save or print the forecast information.

4. On your local machine, make the appropriate updates to the forecast file.

Once you have created the forecast file, then you are ready to upload the file to the Sterling Multi-Channel Selling Solution.

To Upload a Forecast File

Having created a forecast file, you must upload it to the enterprise server. You can use the Sterling Multi-Channel Selling Solution browser interface to do this as follows:

1. Log into the Sterling Multi-Channel Selling Solution.
2. Navigate to your Partner Profile Detail page.
3. Click the **Forecast** tab.
4. Enter the forecast file by completing one of the following:
 - Enter the path to the forecast file on your local machine.
 - Click **Browse...** and navigate to the forecast file on your local machine. Click **Open**.
5. Click **Upload**.

Commerce Tab

Use this tab to specify payment options and shipping options that you want to support. The selected options are displayed to customers when they are editing the order header information before placing an order.

1. Access the Partner Profile Detail page as described in "To Maintain Your Profile" on page 226.
2. Click the **Commerce** tab.

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product selection

POWERED BY COMERGENT

My Home | My Account | Account Activity | Help | Logout

Organization Profile: DataSolve

Info | Addresses | Detail | Business | Hierarchy | Commerce | Forecast | Notes

View Users | Save

Payment and Shipping Options

Please select atleast one Payment option and atleast one Shipping option.

Payment Options

☐ Credit card

☐ Visa

☐ MasterCard

☐ American Express

☐ Discover

☐ Account

Shipping Options

☐ UPS

☐ FedEx

Pricing Options

Are prices stored remotely? ☐

Enter expiry time in hours. Leave this field blank if prices should never expire once retrieved.

FIGURE 104. Partner Profile Detail Page: Commerce Tab

- Update the Payment Options and Shipping Options as appropriate.
- Click **Save**.

Payment Options

You must select one or both of Account or Credit Card: if you do not, then customers placing a split order will not be able to complete their order.

Shipping Options

You must select at least one of these options: if you do not, then customers placing a split order will not be able to complete their order.

Pricing Options

If your price lists are stored remotely, then check the Are prices stored remotely? checkbox. To retrieve price lists on a regular basis, specify the price list expiry time, in hours. Leave the expiry time field blank if prices should never expire.

Storefront Skins

Storefront administrators can specify the storefront look and feel, or skin, that is presented to customers when they log in to the storefront, including a logo and a cascading style sheet (CSS) file that can be used to manage the look-and-feel of

your storefront pages. If you are enabled for Sterling Partner.com, then the logo is displayed automatically on the Web pages. Otherwise, the enterprise must customize the Web pages to display the logo.

To Upload Your Logo File

1. As a storefront administrator, access the storefront Partner Profile Detail page by logging in to your storefront, then clicking the **View Your Organization Profile** link. The storefront URL is similar to ***http://<server>:<port>/Sterling/en/US/enterpriseMgr/<your_storefront>***.
2. Click the **Commerce** tab.

COMERGENT | Profile Manager
eBusiness System

My Home | My Account | About | Help | Logout

Organization Profile: AllNet Corp

Info | Addresses | Detail | Business Hierarchy | **Commerce** | Current Accounts | Pricelists | Product Entitlements | Print Templates

Notes

View Users Save

Gateway Configuration

Payment and Shipping Options
Please select atleast one Payment option and atleast one Shipping option.

Payment Options

- ☒ Credit card
- ☐ Visa
- ☒ MasterCard
- ☒ American Express
- ☐ Discover
- ☐ Account

Shipping Options

- ☐ UPS
- ☒ FedEx

Pricing Options

Are prices stored remotely? ☐

Enter expiry time in hours. Leave this field blank if prices should never expire once retrieved.

Create New Skin

ID	Logo	
allnet	STATIC_URL/logo21.gif	edit

FIGURE 105. Partner Profile Detail Page: Create New Skin (Commerce Tab)

3. To create a new skin:
 - a. Click the **Create New Skin** button. The **New Storefront Skin** page displays:

COMERGENT | Profile Manager
eBusiness System

[My Home](#) | [My Account](#) | [About](#) | [Help](#) | [Logout](#)

Organization Profile: AllNet Corp

<<Back Save

Enter Skin Choices

A skin allows you to enter the Url to access the Storefront. Once you have created the skin you can edit this skin to upload a logo and a stylesheet file. This will allow you to customize the look for the storefront.

*Skin Url (the name used in the URL to access this skin)

FIGURE 106. New Storefront Skin Page

- b. Enter the name to be used in the URL that customers will use to access this skin. For example, the name of the Allnet skin is allnet. To access the Allnet skin, customers enter the standard URL, similar to **http://<server>:<port>/Sterling/en/US/enterpriseMgr**, and then append the name of the skin, **allnet**:

`http://<server>:<port>/Sterling/en/US/enterpriseMgr/allnet`

- c. Click Save. The Edit Skin Choices page displays, similar to the following figure:

COMERGENT | Profile Manager
eBusiness System

[My Home](#) | [My Account](#) | [About](#) | [Help](#) | [Logout](#)

Organization Profile: AllNet Corp

<<Back Save

Enter Skin Choices

Edit this skin to upload a logo and a stylesheet file or change the Url to access this skin.

Upload a logo for your Storefront. For proper display, image size must be 181*41 pixels.

Upload Logo Image to Server

Browse...

Upload

Logo URL or Uploaded File Path

Preview Logo

Preview

Upload a Stylesheet (CSS) file to Server.

United States

Browse...

Upload

*Skin Url (the name used in the URL to access this skin)

allnet

FIGURE 107. Edit Skin Choices Page

4. Select the logo file.

There are two ways to select the file:

- Click **Browse...** and select the appropriate filename.

Attention: The logo file must be 181x41 pixels to display properly.
--

- Enter the filename (including the path) in the Logo URL or Uploaded File Path field.
5. Click **Upload**.
 6. Click **Preview** to preview the logo. The logo displays in a separate **Logo Preview** window.
 7. If you want to upload a CSS file, then click **Browse...** next to the Upload a Stylesheet (CSS) File to Server text field, and select the CSS file on your local system.
 8. Click **Upload**.
 9. Click **Save**.

Print Templates Tab

As a user with the Sales Executive function, use this tab to manage the templates used to generate proposals. See "Proposals" on page 50 for more information about proposals. You can create groups of templates and upload templates that your sales representatives can use when they are presenting proposals to contacts.

Templates are XSL files: before your sales representatives can use them, you must upload them to the Sterling Multi-Channel Selling Solution so that they can be selected when a sales representative is creating a proposal.

Templates are organized by groups: for example, you may choose to organize them so that all the PDF files are in one group whereas HTML templates are in another.

To Create a Template Group

1. Click the Print Templates tab.

You only see this tab if you have been assigned the Sales Executive function.

Organization Profile: DataSolve

Info | Addresses | Detail | Business | Hierarchy | Logo | Commerce | Forecast | **Print Templates** | Notes

Enter a new template group name below and click the Create Group button to save the new group.

Create Template Group

New Group Name: [Create Group](#)

ID	Name	Create Date
1	Standard Sales Template	9/14/2005

FIGURE 108. Partner Profile Detail Page: Print Templates Tab

2. Enter a name for the new group.
3. Click **New**.

The new template group is created.

To Upload a New Proposal Template

Before you upload a template, make sure that it conforms to the XSL style that you want, and check that you know where it is stored on your local file system. See "Proposal Templates" on page 1121 for an example proposal template.

1. Click the Proposal Templates tab.
2. Click the link to the group within which you want to add the proposal template.

The screenshot shows the 'Create Template' form in the Atrix Solutions interface. The form is titled 'Create Template' and is part of the 'Organization Profile: DataSolve' section. It includes a 'Description' text area, a 'File' text field with a 'Browse...' button, a 'Locale' dropdown menu set to 'United States', and a 'Type' dropdown menu set to 'PDF'. An 'Upload Template' button is located to the right of the form. Below the form is a table with columns 'ID', 'Description', 'File', 'Locale', and 'Type'. The table currently displays 'No Rows Found'.

FIGURE 109. Partner Profile Detail Page: Create Template

3. Enter a brief description of the new template so that your sales representatives will know when to use it.
4. Click **Browse...**
5. In the File Upload window, navigate in your local file system to the location of the template file. Select the file and click **Open**.

The File text field is populated with the path to the template file.

6. Select the locale for which the template should be used.
7. Specify whether the template is to be used to generate PDF files or some other format of proposal. By default, only PDF files are supported.
8. Click **Upload**.

The file is uploaded to the Sterling Multi-Channel Selling Solution. You can see it listed with the other templates in its group.

User Administration for Partners

When a profile is first created, the enterprise channel administrator must create at least one partner user with the profile administrator function. This *profile administrator* manages the partner employees who may log into the Sterling Multi-Channel Selling Solution users for that partner.

The profile administrator can create a hierarchy of profiles (see "To Create a Profile in Your Partner Hierarchy" on page 227). The profile administrator can create users at the partner level (called partner users), and users at any level in the hierarchy (called node users). At each level in the hierarchy, the profile administrator must create at least one user with the profile administrator function called the node administrator. The node administrator can create and maintain users only at their own specific node.

Users (either partner or node) who do not have the administrator function assigned to them can view and modify their partner profile information. However, they cannot assign functions to users. If spending limits is activated, then they cannot modify spending limits and the approver list.

Partner users have access to any level in the hierarchy. *Node users* are limited to the node for which they were created.

This release supports *user preferences*: these control the user some aspects of the user experience as they use the Sterling Multi-Channel Selling Solution. Typically, users will manage their own preferences, but as a partner administrator you can set a user's preferences if you wish.

To Create a User

Perform this task if you are a profile administrator creating a partner user, or if you are a node administrator creating a user within your own level in the partner hierarchy.

1. Log into the server at the enterprise site by clicking the appropriate portal link on the Sterling Multi-Channel Selling Solution home page.

Typically, this link is created for partners by the enterprise administration team, and they need to let you know what this link is.

2. Click the link to your user accounts. In the reference implementation, you do this by clicking **Update User Accounts** on the partner home page.

This displays the User List page.

Note:	You can also access the User List page from your Profile Detail page. To do this, click View Users .
--------------	---

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product selection

sterling commerce
An AT&T Company

My Home | My Account | Account Activity | Registries | My Wish List | My Template | Help | Logout

User List: DataSolve

Find users that match:

Username Search [Show All](#) [Advanced Search](#)

DataSolve: All users shown

[Create User](#) [List recovery](#)

Username	Full Name	Functions	Manager	Profile	Business Phone	Email Address	
alain	Dupré, Alain	Commerce	No	DataSolve	610-6854	alain@matrixsolutions.com	Delete
chen	Chen, Chen	Commerce	No	DataSolve	610-6856	chen@matrixsolutions.com	Delete
drooth	Smith, Darren	Commerce	No	DataSolve	601-6800	drooth@datasolve.com	Delete
faulstich	Sutton, Felix	Commerce	No	DataSolve	610-6851	faulstich@matrixsolutions.com	Delete
johannes	Becker, Johannes	Commerce	No	DataSolve	610-6855	ikunbadav@matrixsolutions.com	Delete
lcolina	Collins, Linda	Commerce	No	DataSolve	610-6850	lcolina@matrixsolutions.com	Delete
mscott	Scott, Mike	Commerce Executive, Financials, Profile Administration, Basic Profile Maintenance	Yes	DataSolve	610-6853	mscott@matrixsolutions.com	

FIGURE 110. User List Page

3. On the Partner User List page, click **Create User**.

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product selection

sterling commerce
An AT&T Company

My Home | My Account | Account Activity | Registries | My Wish List | My Template | Help | Logout

Create New User

Info

Belongs To: [DataSolve](#)

[Cancel](#) [Save](#)

NOTE: (*) items are required.

User Information	User Locale	User Functions	Payment Options
<p>Username *</p> <input type="text"/>	<p>Preferred Locale</p> <p>United States</p> <p>Note: changes to Preferred Locale will take effect on the next login.</p>	<p><input type="checkbox"/> Manager</p> <p>User Type</p> <p>User</p> <p>Functions</p> <p><input type="checkbox"/> Commerce</p> <p><input type="checkbox"/> Commerce Executive</p> <p><input type="checkbox"/> Sales</p> <p><input type="checkbox"/> Sales Executive</p> <p><input type="checkbox"/> Financials</p> <p><input type="checkbox"/> Marketing Executive</p> <p><input type="checkbox"/> Basic Profile</p>	<p>Please enter the default payment information</p> <p>Payment Type</p> <p>Credit card</p> <p>CreditCard Type</p> <p>Visa</p> <p>Payment Expiration Date</p> <p>November</p> <p>2007</p> <p>Payment Number/Account Number</p> <p>Card holder name</p> <p>First Name</p>

FIGURE 111. Partner Create New User Page

4. On the Partner User Detail page, enter information in the required fields (marked with an asterisk (*)).

All usernames must consist of standard keyboard characters. Do not use punctuation marks or spaces in a username. All usernames in the Sterling Multi-Channel Selling Solution must be unique so your first choice of username may be already taken. If so, try again with a different username.

Select the functions that you want this user to perform. If you are assigning the profile administrator function to this user, check the **Profile Administration** check box.

Note: When you are creating users for a partner, you can also assign a Procurement User user type. The Procurement User user type is assigned to a user that is created to facilitate punch-in from an external system.

Select the preferred locale which will apply when the user logs in. The drop-down list displays the names for the supported locales.

Select the attributes you want to assign to this user from the drop-down lists in the **Attributes** panel.

5. Enter any additional pertinent information.
6. Click **Save**.

When the User Detail page re-displays, new tabs are available.

The screenshot displays the 'User Detail for Darren Smith' page with the 'Info' tab selected. The page includes a navigation bar with links like 'My Home', 'My Account', and 'Account Activity'. Below the navigation bar, there are tabs for 'Info', 'Addresses', 'Preferences', 'Attributes', and 'Notes'. The 'Info' tab is active, showing a form for user details. The form includes fields for 'Username', 'Password', 'Confirm Password', 'Title', 'First name', 'Last name', 'Job title', 'Preferred locale' (set to 'United States'), 'User type' (set to 'User'), 'Functions' (checked for 'Commerce'), 'Status' (set to 'Open'), and 'Payment options' (checked for 'Credit card'). There are also buttons for 'View Users' and 'Save'.

FIGURE 112. Partner User Detail Page: Info Tab

7. If you are creating users for a partner:

- Enter a spending limit and designate one or more approvers if you want to limit the user from placing orders above a certain amount.

Note: The fields for spending limits and approvers appear only if this feature has been enabled. This is done with a business rule. See CHAPTER 39, "Business Rules Administration" for information about accessing business rules.

For the approver name, enter a valid username within the same hierarchy as the user for whom you are establishing the spending limit. You must enter both a spending limit and an approver for the approval process to take effect.

See "Order Approvals" on page 5 for more information.

- (Optional) Enter one or more usernames in the Proxy for Approvals field. These must be valid usernames within the same hierarchy as the user. This field enables the user defined by the profile to approve any orders for which the listed users are approvers.

8. Click **Save**.
9. Click the **Addresses** tab to enter the addresses.

The screenshot shows the 'User Detail for Darren Smith' page with the 'Addresses' tab selected. The page header includes 'matrixsolutions GRAPHIC DESKTOP SYSTEMS' and 'sterling commerce'. The user detail section shows 'Info', 'Addresses', 'Preferences', 'Attributes', and 'Notes' tabs. The 'Addresses' tab is active, showing a form for adding a new address and a table of existing addresses.

Addresses Tab Form:

NOTE: (*) Items are required.
New Delete Duplicate Previous 1 out of 2 Next

Address line 1 *

Address line 2

City *

State/Province and Postal code

Country *

USA

☐ Use as Sold To Address ☐ Use as Ship To Address ☐ Use as Bill To Address

Select the addresses defined at the organization that should not be visible in this user's address book. * denotes default address.

Hide	Type	Address line 1	Address line 2	City	Postal Code	State / Province and Postal code	Country
<input type="checkbox"/>	Sold To*, Ship To*, Bill To*	172 Sanford Ave.	First Floor	Salt Lake City	84093	UT	USA
<input type="checkbox"/>		172 Sanford Ave.	First Floor	Salt Lake City	84093	UT	USA

FIGURE 113. Partner User Detail Page: Addresses Tab

10. Click the **Preferences** tab to set user preferences for the user.



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product selection

sterling commerce
Account Center

My Home | My Account | Account Activity | Registries | My Wish List | My Template | Help | Logout

User Detail for Darren Smith

Info | Addresses | Preferences | Attributes | Notes

Reset Save

User Cart Mode
Select your Cart Mode. If you are switching from Multiple Carts to Single Cart copy items from your carts to Template or Wish List as your existing carts will not be visible in Single Cart mode.

☐ Single Cart
☒ Multiple Carts

Shopping Cart Display
Select your Shopping Cart View

☒ Simple View
☐ Advanced View

Checkout Type
Select your Checkout Type

☒ Single Step
☐ Multiple Step

FIGURE 114. Partner User Detail Page: Preferences Tab

- You can assign attributes to this user by clicking the **Attributes** tab. You can assign only those attributes that have been pre-defined as available for assignment to the user during the user's registration and profile maintenance.



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product selection

sterling commerce
Account Center

My Home | My Account | Account Activity | Registries | My Wish List | My Template | Help | Logout

User Detail for Darren Smith

Info | Addresses | Preferences | Attributes | Notes

Save

Attribute	Value
What is your preferred contact method?	Phone
What are your contact preferences?	Send me transaction-related information and promotional offers.
How do you prefer to buy?	
How do you typically adopt technology?	
In what age range do you fall?	
How would you classify your income range?	
Please specify your gender.	
What level of education have you completed?	
What is your marital status?	
How many children do you have?	
What age are your children?	
In what region do you live?	

FIGURE 115. Partner User Detail Page: Attributes Tab

- You can enter notes about this user by clicking the **Notes** tab.

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product selection

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An ARBY Company

My Home | My Account | Account Activity | Registries | My Wish List | My Template | Help | Logout

User Detail for Darren Smith

Info | Addresses | Preferences | Attributes | **Notes**

Belongs To: [DataSolve](#) [View Users](#)

Enter a new note in the textbox and click the Add Note button to save the note.

Add Note

[Add Note](#)

Date	Note	Organization	Created By
------	------	--------------	------------

FIGURE 116. Partner User Detail Page: Notes Tab

Once you have created the user, contact the relevant person to let them know that a partner user has been created for them.

To Create a User at Another Level in a Profile Hierarchy

Perform this task if you are a partner administrator creating a user for one of the child partners in the partner hierarchy. Node administrators should use the procedure described in "To Create a User" on page 237.

1. Access the Profile Detail page as described in "To Maintain Your Profile" on page 226.

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[My Home](#) | [My Account](#) | [Account Activity](#) | [Help](#) | [Logout](#)

Organization Profile: DataSolve

[Info](#)
[Addresses](#)
[Detail](#)
[Business](#)
[Hierarchy](#)
[Commerce](#)
[Forecast](#)
[Notes](#)

[View Users](#)
[Save](#)

NOTE: (*) items are required.

General Information

Profile name *

DataSolve

Organization website address

www.datasolve.com

Custom Field #1

Main telephone

610-6800

Organization Email

corp@datasolve.com

Custom Field #2

Main facsimile

N/A

Distributors

Select to add

OmniTech

AndereI

RIT Solutions

ParisTech

Remove

Custom Field #3

Profile type *

Reseller

Custom Field #4

Profile level *

Gold

Custom Field #5

XML Message Version

dXML 4.1.1

Message URL

Login/Password required

☐

Content Type

Profile Status

Status

Open

Accounts

Currency

USD

Credit Limit

\$5,000.00

Available Credit

\$5,000.00

Co-op %

0.000

Co-op Account Maximum

\$0.00

FIGURE 117. Profile Detail Page

2. Click the **Hierarchy** tab.



FIGURE 118. Hierarchy Tab

3. Find the partner for whom you want to create users.
 - a. Find and click the partner in the list of child partners.
 - b. Click **Go To Child**.

This displays the Profile Detail page for the selected partner. Notice that the Partner Level and Partner Type fields are read only.

If the partner is at a lower level, then click the **Hierarchy** tab and repeat these steps until you find the appropriate node in the hierarchy.

4. When you display the Profile Detail page for the desired partner, click **View Partner Users**.

This displays the users for that specific node level.

5. Click **Create User**.

This displays the Partner User Detail page.

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Account Center

[My Home](#) | [My Account](#) | [Account Activity](#) | [Registries](#) | [My Wish List](#) | [My Template](#) | [Help](#) | [Log](#)

Create New User

Info

Belongs To: [DataSolve](#)

Cancel Save

NOTE: (*) items are required.

User Information

Username *

Password *

Confirm Password *

Title

Mr. ▾

First name *

Last name *

Job Title

User Locale

Preferred Locale

United States ▾

Note: changes to Preferred Locale will take effect on the next login.

User Functions

☐ Manager

User Type

User ▾

Functions

☐ Commerce

☐ Commerce Executive

☐ Sales

☐ Sales Executive

☐ Financials

☐ Marketing Executive

☐ Basic Profile

Payment Options

Please enter the default payment information

Payment Type

Credit card ▾

CreditCard Type

Visa ▾

Payment Expiration Date

November ▾

2007 ▾

Payment Number/Account Number

Card holder name

First Name

FIGURE 119. Partner User Detail Page

- On the Partner User Detail page, enter the information in the required fields (marked with an asterisk (*)).

All usernames must consist of standard keyboard characters. Do not use punctuation marks or spaces in a username. All usernames in the Sterling Multi-Channel Selling Solution must be unique so your first choice of username may be already taken. If so, try again with a different username.

Select the functions that you want this user to perform. To assign the Profile Administration function to this user, check the **Profile Administration** check box.

Select the preferred locale which will apply when the user logs in. The drop-down list displays the names for the supported locales.

- Enter additional information, as appropriate.
- Click **Save**.

9. If you are creating users for a direct commerce partner, then enter a spending limit and designate one or more approvers if the user exceeds the spending limit. See "Order Approvals" on page 5 for more information.

Note: The fields for spending limits and approvers appear only if this feature has been enabled. This is done with a business rule. See CHAPTER 39, "Business Rules Administration".

10. Click **Save**.
11. Click the **Addresses** tab to enter addresses for the user.
12. Contact the relevant person to let them know that a partner user has been created for them.

To Modify a User

Perform this task if you are a profile administrator modifying a partner user, or if you are a node administrator modifying a user within your own level in the partner hierarchy.


Attention: If you are a partner administrator of a storefront partner, then you must not change the username or password of the Anonymous User of the storefront.
--

1. Log into the server at the enterprise site by clicking the appropriate portal link on the Sterling Multi-Channel Selling Solution home page.


Typically, this link is created for partners by the enterprise administration team, and they need to let you know what this link is.
2. Click the link to your user accounts. In the reference implementation, you do this by clicking **Update User Accounts** on the partner home page.

This displays the Partner User List page.

Note: You can also access the Partner User List page from your Partner Profile Detail page. To do this, click View Users .
--



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[My Home](#) | [My Account](#) | [Account Activity](#) | [Registries](#) | [My Wish List](#) | [My Template](#) | [Help](#) | [Logout](#)

User List: DataSolve

Find users that match:

[Show All](#)
[Advanced Search](#)


DataSolve: All users shown


[Create User](#)
[List recovery](#)

Username	Full Name	Functions	Manager	Profile	Business Phone	Email Address	
alain	Dupin@Alain	Commerce	No	DataSolve	610-6954	jstevens@msolutions.com	Delete
ochea	Cl. Chen	Commerce	No	DataSolve	610-6956	ochea@msolutions.com	Delete
dzmoh	Smith, Darren	Commerce	No	DataSolve	610-6900	dzmoh@datasolve.com	Delete
frutkin	Sutton, Faliu	Commerce	No	DataSolve	610-6951	frutkin@msolutions.com	Delete
johannasz	be@Cler, Johannasz	Commerce	No	DataSolve	610-6955	jimbardasz@msolutions.com	Delete
collins	Collins, Linda	Commerce	No	DataSolve	610-6950	collins@msolutions.com	Delete
mscott	Scott, Mike	Commerce Executive, Financials, Profile Administration, Basic Profile Maintenance	Yes	DataSolve	610-6953	mscott@msolutions.com	

FIGURE 120. Partner User List Page

- On the User List page, click the username for the partner user whose details you wish to modify.


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product selection

[My Home](#) | [My Account](#) | [Account Activity](#) | [Registries](#) | [My Wish List](#) | [My Template](#) | [Help](#) | [Logout](#)

User Detail for Darren Smith

Info

Addresses

Preferences

Attributes

Notes

Belongs To: **DataSolve**

View Users

Save

NOTE: (*) Items are required.

User Information

Username *
dsmith
Password *

Confirm Password *

Title
Mr. ▾
First name *
Darren
Last name *
Smith
Job Title
Sales Accountant

User Locale

Preferred Locale
United States ▾
Note: changes to Preferred Locale will take effect on the next login.

User Functions

☐ Manager
☐ User Type User

Functions

☒ Commerce
☐ Commerce Executive
☐ Sales
☐ Sales Executive
☐ Financials
☐ Marketing Executive
☐ Basic Profile

Status

Please enter a reason when changing the status.
Parent Status
Open
Status
Open ▾
Comment

Payment Options

Please enter the default payment information
Payment Type
Credit card ▾

FIGURE 121. User Detail Page

4. On the Partner User Detail page, modify the appropriate details for this partner user and click **Save**.

To Modify a User at Another Level in the Partner Hierarchy

Perform this task if you are a partner administrator modifying a user belonging to one of the child partners in your partner hierarchy. Node administrators should use the procedure described in "To Modify a User" on page 246.

1. Access the Profile Detail page as described in "To Maintain Your Profile" on page 226.

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GRAPHIC DESKTOP SYSTEMS

product selection

POWERED BY COMERGENT

[My Home](#) | [My Account](#) | [Account Activity](#) | [Help](#) | [Logout](#)

Organization Profile: DataSolve

InfoAddressesDetailBusinessHierarchyCommerceForecastNotes

View UsersSave

NOTE: (*) items are required.

General Information

Profile name *

DataSolve

Main telephone

(610) 6800

Main facsimile

N/A

Profile type *

Reseller

Profile level *

Sold

XML Message Version

dXML 4.1.1

Login/Password required

☐

Organization website address

www.datasolve.com

Organization Email

corp@datasolve.com

Distributors

Select to add

OmniTech

Andersel

RIT Solutions

ParisTech

Remove

Message URL

Content Type

Custom Field #1

Custom Field #2

Custom Field #3

Custom Field #4

Custom Field #5

Profile Status

Status

Open

Accounts

Currency

USD

Credit Limit

\$5,000.00

Available Credit

\$5,000.00

Co-op %

0.000

Co-op Account Maximum

\$0.00

FIGURE 122. Profile Detail Page

2. Click the **Hierarchy** tab.



FIGURE 123. Profile Detail Page: Hierarchy Tab

3. Find the profile that has the user you want to modify.
 - a. Find and click the profile in the list of child profiles.
 - b. Click **Go To Child**.

This displays the Hierarchy page for the selected partner.

If the partner is at a lower level, then click the **Hierarchy** tab and repeat these steps until you find the appropriate node in the hierarchy.

4. When you display the Hierarchy page for the desired partner, click **View Users**.

This displays the users for that specific node level (Figure 124 on page 250).

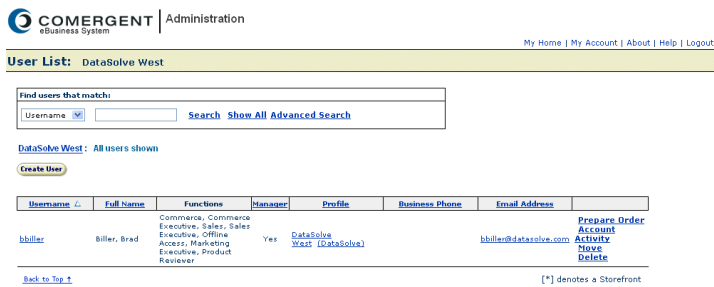


FIGURE 124. User List Page for a Specific Child Node

5. Click the user name of the user you want to modify.

This displays the Partner User Detail page for the child partner user.

6. Modify the appropriate details for this partner user.
7. Click **Save**.

To Move a User from the Top Level in a Profile Hierarchy

Perform this task if you are a partner administrator moving a partner user from the top level to another level in the partner hierarchy. If you want to move a user from a lower level in the partner hierarchy, then see "To Move a User from a Level Below the Top Level in a Profile Hierarchy" on page 252.

Note: Moving a user does not move any carts, orders, and so on, that belong to the user. To recover these items after you move a user, follow the steps in "To Recover Carts" on page 259.

1. Log into the server at the enterprise site by clicking the appropriate portal link on the Sterling Multi-Channel Selling Solution home page.

Typically, this link is created for partners by the enterprise administration team, and they need to let you know what this link is.

2. Click the link to your user accounts. In the reference implementation, you do this by clicking **Update User Accounts** on the partner home page.

This displays the Partner User List page.

Note: You can also access the Partner User List page from your Profile Detail page. To do this, click **View Users**.



FIGURE 125. Partner User List Page

3. On the User List page, find the user that you want to move.
4. Click the **Move** icon.

This displays a window with a selection of levels in the partner hierarchy. The levels are displayed as fully-qualified paths.

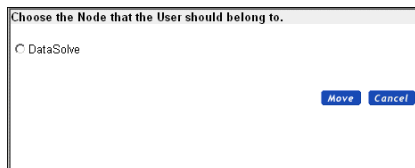


FIGURE 126. Level Selection Window

5. Click the radio button next to the level to which you want to move the user.

If you move a user between two node levels of a partner hierarchy, then the functions assigned to the user before the move are retained. If you move a user from the partner (top) level to a node level (or the reverse), then the functions assigned to the user revert to the default functions assigned at the destination.

6. Click **Move**.

The user is moved to the selected level.

After a user is moved, the profile administrator (or the node administrator of the level to which they are moved) should examine and modify the information as necessary. This ensures that the information is correct for the new location. For example, the addresses (ship-to, bill-to, and so on) might need to be corrected for the new location. See "To Modify a User" on page 246 or "To Modify a User at Another Level in the Partner Hierarchy" on page 248.

To Move a User from a Level Below the Top Level in a Profile Hierarchy

Perform this task if you are a profile administrator moving a partner user from the top level to another level in the partner hierarchy. If you want to move a user from the top level in a partner hierarchy, then see "To Move a User from the Top Level in a Profile Hierarchy" on page 250.

Note:	Moving a user does not move any carts, orders, and so on, that belong to the user. To recover these items after you move a user, follow the steps in "To Recover Carts" on page 259.
--------------	--

1. Access the Profile Detail page as described in "To Maintain Your Profile" on page 226.

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GRAPHIC DESKTOP SYSTEMS

product selection

POWERED BY

COMERGENT

[My Home](#) | [My Account](#) | [Account Activity](#) | [Help](#) | [Logout](#)

Organization Profile: DataSolve

[Info](#)
[Addresses](#)
[Detail](#)
[Business](#)
[Hierarchy](#)
[Commerce](#)
[Forecast](#)
[Notes](#)

[View Users](#)
[Save](#)

NOTE: (*) items are required.

General Information

Profile name *

DataSolve

Organization website address

www.datasolve.com

Custom Field #1

Main telephone

610-6800

Organization Email

corp@datasolve.com

Custom Field #2

Main facsimile

N/A

Distributors

Select to add

OmniTech

Andersel

RIT Solutions

ParisTech

Remove

Custom Field #3

Profile type *

Reseller

Custom Field #4

Profile level *

Sold

Custom Field #5

XML Message Version

dXML 4.1.1

Message URL

Login/Password required

☐

Content Type

Profile Status

Status

Open

Accounts

Currency

USD

Credit Limit

\$5,000.00

Available Credit

\$5,000.00

Co-op %

0.000

Co-op Account Maximum

\$0.00

FIGURE 127. Profile Detail Page

- Click the **Hierarchy** tab.



FIGURE 128. Profile Detail Page: Hierarchy Tab

3. Find the partner that has the user you want to move.
 - a. Find and click the partner in the list of child partners.
 - b. Click **Go To Child**.

This displays the Profile Detail page for the selected partner. Notice that the Profile Level and Profile Type fields are read only.

If the profile is at a lower level, then click the **Hierarchy** tab and repeat these steps until you find the appropriate level in the hierarchy.

4. When you display the Profile Detail page for the desired node, click **View Users**.

This displays the users for that specific level (Figure 129 on page 255).

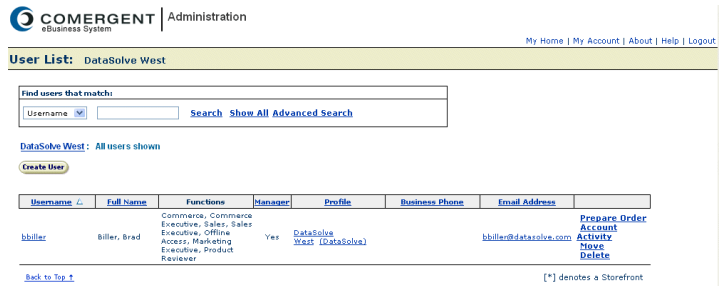


FIGURE 129. Users for a Specific Level

5. Find the username of the user you want to move.
6. Click the **Move** icon.

This displays a window with a selection of levels in the partner hierarchy. The levels are displayed as fully-qualified paths. For example, in Figure 130 on page 255, the first selection is AffinityNet, the top level in the hierarchy. The third selection is AffinityNet West - San Jose, a division of AffinityNet West, which is itself a division of AffinityNet.

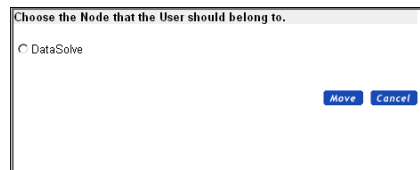


FIGURE 130. Level Selection Window

7. Click the radio button next to the level to which you want to move the user.

If you move a user between two node levels of a partner hierarchy, then the functions assigned to the user before the move are retained. If you move a user from the partner (top) level to a node level (or the reverse), then the functions assigned to the user revert to the default functions assigned at the destination.

8. Click **Move**.

The user is moved to the selected level.

After a user is moved, the profile administrator (or the node administrator of the level to which they are moved) should examine and modify the information as

3. Click **Delete** in the Actions column next to the partner user you wish to delete from the system.
4. A dialog box asks you to confirm deletion: click **OK** to continue.

The User List page is re-displayed and the deleted user is not listed.

To Delete a User at Another Level in the Profile Hierarchy

Perform this task if you are a partner administrator deleting a user belonging to one of the child profiles in your partner hierarchy. Node administrators should use the procedure described in "To Delete a User" on page 256.

1. Access the Partner Profile Detail page as described in "To Maintain Your Profile" on page 226.
2. Click the **Hierarchy** tab.



FIGURE 132. Profile Detail Page: Hierarchy Tab

3. Find the profile that has the user you want to delete.
 - a. Find and click the partner in the list of child profile.
 - b. Click **Go To Child**.

This displays the Partner Profile Detail page for the selected partner (Figure 133 on page 258).

If the profile that you are looking for is at a lower level, then click the **Hierarchy** tab and repeat these steps until you find the appropriate node in the hierarchy.

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GRAPHIC DESKTOP SYSTEMS

product selection

POWERED BY

COMERGENT

[My Home](#) | [My Account](#) | [Account Activity](#) | [Help](#) | [Logout](#)

Organization Profile: DataSolve

Info

Addresses

Detail

Business

Hierarchy

Commerce

Forecast

Notes

View Users

Save

NOTE: (*) items are required.

General Information

Profile name *

DataSolve

Organization website address

www.datasolve.com

Custom Field #1

Main telephone

610-6800

Organization Email

corp@datasolve.com

Custom Field #2

Main facsimile

N/A

Distributors

Select to add

OmniTech

Anderel

RIT Solutions

ParisTech

Remove

Custom Field #3

Profile type *

Reseller

Custom Field #4

Profile level *

Gold

Custom Field #5

XML Message Version

dXML 4.1.1

Message URL

Login/Password required

☐

Content Type

Profile Status

Status

Open

Accounts

Currency

USD

Credit Limit

\$5,000.00

Available Credit

\$5,000.00

Co-op %

0.000

Co-op Account Maximum

\$0.00

FIGURE 133. Partner Profile Detail Page: Node Level

4. When you display the Partner Profile Detail page for the desired profile, click **View Users**.

This displays the users for that specific node level (Figure 134 on page 259).

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Sterling Multi-Channel Selling Solution Administration Guide

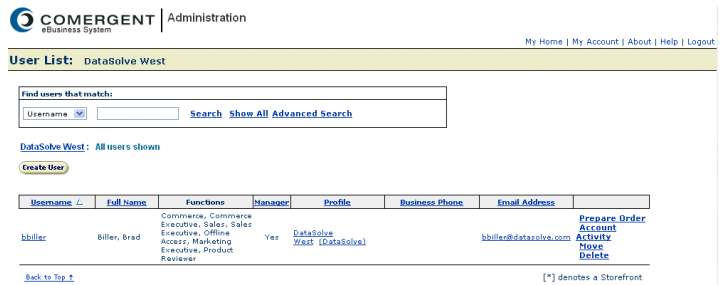


FIGURE 134. Users for a Specific Node

- Click **Delete** in the Actions column next to the partner user you wish to delete from the system.
- A dialog box asks you to confirm deletion: click **OK** to continue.

The User List page is re-displayed and the deleted user is not listed.

To Recover Carts

A deleted partner user might have one or more active carts. The profile administrator can display these carts and delete them or transfer them to other existing partner users.

- Log into the Sterling Multi-Channel Selling Solution at the enterprise site by clicking the appropriate portal link on the Sterling Multi-Channel Selling Solution home page.

Typically, this link is created for partners by the enterprise administration team, and they need to let you know what this link is.

- Click the link for updating user accounts.

This displays the User List page (see Figure 135 on page 260). You can also access this page from the Partner Profile Detail page. Click **View Users**.

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GRAPHIC DESKTOP SYSTEMS

product selection

My Home | My Account | Account Activity | Registries | My Wish List | My Template | Help | Logout

sterling commerce

AN ATRIX COMPANY

User List: DataSolve

Find users that match:

Username

Search

Show All

Advanced Search

DataSolve: All users shown

Create User

List recovery

Username	Full Name	Functions	Manager	Profile	Business Phone	Email Address	
alain	Dupré, Alain	Commerce	No	DataSolve	610-6854	alain@matrixsolutions.com	Delete
chen	Chen, Chen	Commerce	No	DataSolve	610-6856	chen@matrixsolutions.com	Delete
smith	Smith, Darren	Commerce	No	DataSolve	601-6800	smith@datasolve.com	Delete
sutton	Sutton, Felix	Commerce	No	DataSolve	610-6851	fsutton@matrixsolutions.com	Delete
johannes	Becker, Johannes	Commerce	No	DataSolve	610-6855	jkimberly@matrixsolutions.com	Delete
collins	Collins, Linda	Commerce	No	DataSolve	610-6850	lcollins@matrixsolutions.com	Delete
mccott	Scott, Mike	Commerce Executive, Financials, Profile Administration, Basic Profile Maintenance	Yes	DataSolve	610-6853	mccott@matrixsolutions.com	

FIGURE 135. User List Page

3. Click **List Recovery** to display the lists to be deleted or transferred.

atrix

SOLUTIONS

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COMERGENT

My Home | My Account | Account Activity | Help | Logout

List Recovery

Delete

Transfer to

alain

<input type="checkbox"/>	List ID	Name	Status	Old User
<input type="checkbox"/>	600707	Cart	Open	

FIGURE 136. List Recovery Page

4. Check one or more boxes next to the list numbers to select the lists for deletion or transfer.

You can click the Name to display the contents of the cart. You can add to or modify the cart as necessary.

5. You can do one of the following:
- Click **Delete Selected** to delete the selected list(s).
 - Select a user from the drop-down list, then click **Transfer to**.

Product Administration for Partners

Partner administrators can add and maintain products specific to the partner's organization. They can also browse the products maintained by the *enterprise administrator*. For an introduction to product administration, see "Administering the Product Catalog" on page 20.

To Maintain Product Information

1. Log into the Sterling Multi-Channel Selling Solution at the enterprise site by clicking the appropriate portal link on the Sterling Multi-Channel Selling Solution home page.

This displays the Sterling Multi-Channel Selling Solution partner home page.

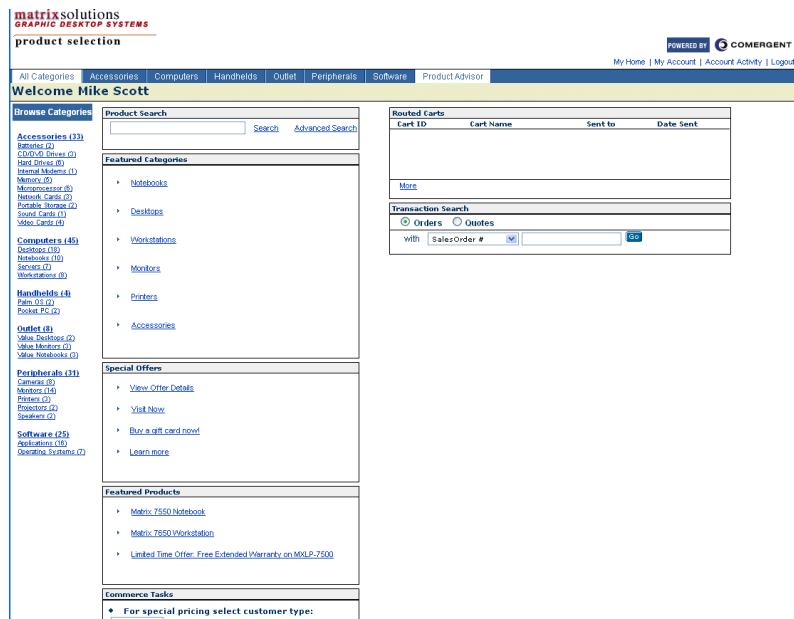


FIGURE 137. Sterling Multi-Channel Selling Solution Partner Home Page

2. Click **Product Master** in the Product and Catalog Administration panel.

The Product Manager page is displayed.

Once you reach this page, you can:

- Create and maintain product categories.
See "Product Category Administration Tasks" on page 355.
- Create and maintain products.
See "Product Administration Tasks" on page 372.
- Supersede products.
See "Superseding a Product" on page 400.
- Create and maintain assemblies.
See "Managing Assemblies" on page 401.

You also have access to products created by the *enterprise administrator*. However, these products are displayed in read-only mode. You cannot make changes to them.

For products to be available to customers, you must create price lists and assign the products to price lists. Then you must ensure that the price lists are assigned to the appropriate partners. See "Pricing Administration for Partners" on page 262.

Managing Availability Information

You can maintain product availability information for the products that you supply. See CHAPTER 14, "Managing Availability Information" for more information.

Pricing Administration for Partners

Partner administrators can add and maintain price lists for products specific to the partner's organization. For an introduction to pricing in the Sterling Multi-Channel Selling Solution, see "Setting Prices for Products" on page 22.

Note:	If you are either a Partner.com Partner or a Storefront Partner, then you must also provide a mapping between the enterprise product ID and your own manufacturer's part number, as well as information about product availability. See "To Upload Product Mapping" on page 285.
--------------	--

To Maintain Pricing Information

1. Log into the Sterling Multi-Channel Selling Solution at the enterprise site by clicking the appropriate portal link on the Sterling Multi-Channel Selling Solution home page.

This displays the Sterling Multi-Channel Selling Solution home page.

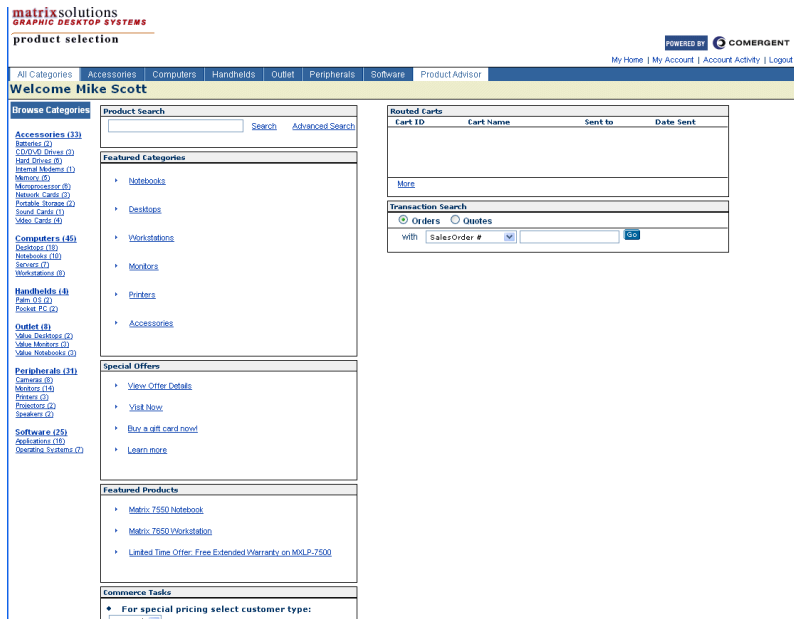


FIGURE 138. Sterling Multi-Channel Selling Solution Partner Home Page

2. Click **Price Lists** in the Pricing Administration panel.

The Pricing Administration page is displayed.

Once you reach this page, you can create and maintain price lists. See CHAPTER 19, "Pricing Administration".

To Assign Price Lists to Partners

If you are a profile administrator for a storefront, then you can assign your price lists to your customer partners: that is the anonymous and registered user partners for your storefront and any customer partners that you have created for your storefront.

Only an enterprise administrator can assign a price list to a partner of the enterprise. If you want to assign a price list that you have created to a partner of the enterprise, then you must notify an enterprise administrator.

Opportunity Administration by Partners

Enterprise lead administrators create leads so that they can assign the leads to their sales partners. They become sales opportunities that partners can close. Leads can only be assigned to a partner if one of the partner users of that partner has been assigned the Sales Executive function: we sometimes refer to these users as sales managers. In general, it is the responsibility of a profile administrator to ensure that at least one of their partner users has been assigned by the Sales Executive function.

Only one of your partner users can be assigned the Sales Executive function. To change who performs this function, navigate to the user profile for the new sales manager, and add the Sales Executive function to them: this action automatically removes the function from the old sales manager.

When a lead administrator assigns a lead to a partner, an *opportunity* is created: it is a copy of the lead and it contains all of the contact information and product list information contained in the original lead.

Each partner sales manager can accept or reject the opportunities assigned to their partner. If they accept an opportunity, then they can work the opportunity themselves or they can delegate the opportunity to *partner sales representatives*: partner users who have been assigned the Sales function.

Proposals are product lists associated with an opportunity. When a lead is first assigned to a partner, the product list associated with the lead is copied to the opportunity, so that an opportunity always has at least one proposal associated with it. Sales managers and sales representatives can create new proposals: these can be associated with an existing opportunity or you can create a new proposal that is associated with a new opportunity. See "To Create a New Proposal by Copying an Existing Proposal" on page 278 and "To Create a New Proposal and New Opportunity" on page 279.

To Create Partner Sales Representatives

To create Partner Sales Representatives, you create partner users and assign them the Sales function. See "User Administration for Partners" on page 236 for information about creating and modifying partner users.

To Accept an Opportunity

Only users who have been assigned the Sales Executive function can accept or decline opportunities.

1. Log into the server at the enterprise site by clicking the appropriate portal link on the Sterling Multi-Channel Selling Solution home page.

Typically, this link is created for partners by the enterprise administration team, and they need to let you know what this link is.

2. Click the link to take you to your opportunities. In the reference implementation, click **Opportunity & Proposal Activity** in the Commerce Activity panel.

This displays the Opportunities tab for the Account Activity page (Figure 139 on page 265).

3. Find the opportunity that you want to accept. You can view its detail by clicking its link.

The screenshot shows the Atrix Solutions web interface. At the top, there's a navigation bar with 'My Home', 'My Account', 'Account Activity', and 'Logout'. Below this is the 'Account Activity' section with various tabs: 'Active', 'Approvals', 'Routed', 'Quotes', 'Sales Contracts', 'Orders', 'Returns', 'Opportunities', 'Proposals', and 'Invoices'. The 'Opportunities' tab is selected. Below the tabs is a search bar with the text 'Find Opportunities that contain:' and a dropdown for 'Opportunity ID'. Below the search bar is a table with the following columns: Opportunity ID, Opportunity Name, Priority, Primary Contact, Received Date, Assigned To, and Status. The table contains one row with the following data: Opportunity ID 600547, Opportunity Name 'Lead 27 - No Proposal Items', Priority Medium, Primary Contact Fong, Al, Received Date 9/13/2005, Assigned To mscott, and Status Accepted.

Opportunity ID	Opportunity Name	Priority	Primary Contact	Received Date	Assigned To	Status
600547	Lead 27 - No Proposal Items	Medium	Fong, Al	9/13/2005	mscott	Accepted

FIGURE 139. Opportunities List Page for Partners

4. Click **Accept** for that opportunity.

The icons disappear and the Detail Status column shows “Accepted”.

To Decline an Opportunity

1. Log into the server at the enterprise site by clicking the appropriate portal link on the Sterling Multi-Channel Selling Solution home page.

Typically, this link is created for partners by the enterprise administration team, and they need to let you know what this link is.

- Click the link to take you to your opportunities. In the reference implementation, click **Opportunity & Proposal Activity** in the Commerce Tasks panel.

This displays the Opportunities tab for the Account Activity page (Figure 139 on page 265).

- Find the opportunity that you want to decline.

The screenshot shows the Atrix Solutions web interface. At the top, there's a header with the Atrix Solutions logo and a 'POWERED BY COMERGENT' badge. Below the header, there's a navigation bar with links: 'My Home', 'My Account', 'Account Activity', and 'Logout'. The main section is titled 'Account Activity' and contains several tabs: 'Active', 'Approvals', 'Routed', 'Quotes', 'Sales Contracts', 'Orders', 'Returns', 'Opportunities', 'Proposals', and 'Invoices'. The 'Opportunities' tab is selected. Below the tabs, there's a search section titled 'Find Opportunities that contain:' with a dropdown menu for 'Opportunity ID' and a 'Search' button. Below the search section, there's a table with the following columns: 'Opportunity ID', 'Opportunity Name', 'Priority', 'Primary Contact', 'Received Date', 'Assigned To', 'Status', and a checkbox. The table contains one row with the following data: '600547', 'Lead 27 - No Proposal Items', 'Medium', 'Fong, Al', '9/13/2005', 'mscott', 'Accepted', and an unchecked checkbox.

FIGURE 140. Opportunities List Page for Partners

- Click **Decline** for that opportunity.

This displays the Opportunity Decline popup window.

The screenshot shows a 'Decline Opportunity' popup window. The title bar says 'Decline Opportunity: Western Trade Show'. Below the title bar, there's a text prompt: 'Please tell us why you are declining...'. Below the prompt, there's a large text area for entering a reason. At the bottom right of the popup, there are two buttons: 'Decline' and 'Cancel'.

FIGURE 141. Opportunity Decline Popup

- Enter a reason for declining the opportunity.
- Click **Decline**.

The opportunity is removed from the Opportunities tab.

To Delegate an Opportunity

Only users who have been assigned the Sales Executive function can delegate opportunities. You must first accept an opportunity (see "To Accept an Opportunity" on page 264) before you can delegate it. You can delegate opportunities only to users who have been assigned the Sales Executive or Sales function.

1. Log into the server at the enterprise site by clicking the appropriate portal link on the Sterling Multi-Channel Selling Solution home page.

Typically, this link is created for partners by the enterprise administration team, and they need to let you know what this link is.

2. Click the link to take you to your opportunities. In the reference implementation, click Account Activity on your Partner Home page and then click the Opportunities tab.

This displays the Opportunities tab for the Account Activity page (Figure 139 on page 265).

The screenshot shows the Atrix Solutions web interface. At the top, there's a header with the Atrix logo and 'SOLUTIONS' text. To the right, it says 'POWERED BY COMERGENT'. Below the header, there's a navigation bar with links: 'My Home', 'My Account', 'Account Activity', and 'Logout'. The main section is titled 'Account Activity' and contains several tabs: 'Active', 'Approvals', 'Routed', 'Quotes', 'Sales Contracts', 'Orders', 'Returns', 'Opportunities', 'Proposals', and 'Invoices'. The 'Opportunities' tab is selected. Below the tabs, there's a search section titled 'Find Opportunities that contain:' with a dropdown for 'Opportunity ID' and a 'Search' button. Below the search section, there's a table with the following columns: 'Opportunity ID', 'Opportunity Name', 'Priority', 'Primary Contact', 'Received Date', 'Assigned To', and 'Status'. The table contains one row with the following data: '600547', 'Lead 27 - No Proposal Items', 'Medium', 'Fong, Al', '9/13/2005', 'msscott', and 'Accepted'.

Opportunity ID	Opportunity Name	Priority	Primary Contact	Received Date	Assigned To	Status
600547	Lead 27 - No Proposal Items	Medium	Fong, Al	9/13/2005	msscott	Accepted

FIGURE 142. Opportunities List Page for Partners

3. Find the opportunity that you want to delegate.
4. Click the check box next to the opportunity.

No check box indicates that the opportunity has not yet been accepted or declined. You must accept an opportunity before you can delegate it. See "To Accept an Opportunity" on page 264.

5. Repeat the last two steps for each opportunity you want to delegate.

6. Click **Delegate**.

A pop-up window appears.

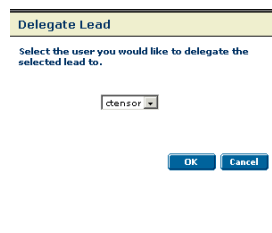


FIGURE 143. Delegate Opportunity Popup

7. Select a name from the drop-down list. Only users who have been assigned the Sales Executive or Sales function are listed.
8. Click **OK**.

To Add or Modify General Opportunity Information

Only partner users who have been assigned the Sales Executive or Sales function can work on opportunities.

- Users who have the Sales Executive function can work on any opportunity assigned to their partner and which have been accepted.
- Users who have the Sales function can work on any opportunity assigned to their partner and which have been accepted by the Sales Executive user and delegated to the user.

If you are a user who has not been assigned either the Sales Executive or Sales function, then you will not see the Opportunities tab in your workspace.

1. Log into the server at the enterprise site by clicking the appropriate portal link on the Sterling Multi-Channel Selling Solution home page.

Typically, this link is created for partners by the enterprise administration team, and they need to let you know what this link is.

2. Click the link to take you to your opportunities. In the reference implementation, click **Opportunity & Proposal Activity** in the Commerce Tasks panel.

This displays the Opportunities tab for the Account Activity page (Figure 144 on page 269).

The screenshot shows the Atrix Solutions web interface. At the top, there's a navigation bar with 'My Home', 'My Account', 'Account Activity', and 'Logout'. Below this is the 'Account Activity' section with tabs for 'Active', 'Approvals', 'Routed', 'Quotes', 'Sales Contracts', 'Orders', 'Returns', 'Opportunities', 'Proposals', and 'Invoices'. The 'Opportunities' tab is selected. A search box labeled 'Find Opportunities that contain:' has a dropdown for 'Opportunity ID' and a 'Search' button. Below the search box is a table of opportunities.

<input type="checkbox"/>	Opportunity ID	Opportunity Name	Priority	Primary Contact	Received Date	Assigned To	Status
<input type="checkbox"/>	600547	Lead 27 - No Proposal Items	Medium	Fong, Al	9/13/2005	mccott	Accepted

FIGURE 144. Opportunities List Page for Partners

- Find the opportunity you want to modify.

An opportunity must be accepted before you can modify the opportunity. See "To Accept an Opportunity" on page 264.

- Click the opportunity name.

This displays the opportunity page.

The screenshot shows the Comergent eBusiness System 'Lead Management' page. The 'Opportunity' is 'Western Trade Show' and the 'Organization' is 'DataSolve'. There are tabs for 'Edit Properties', 'Manage Proposals', and 'Add Notes'. The 'Edit Properties' tab is active. The page is divided into two main sections: 'Organization Information' and 'General Opportunity Information'.

Organization Information	
Organization Name: DataSolve	Representative's Phone: 610-6853 (Business)
Representative's First Name: Mike	Representative's Email: mccott@comsolutions.com
Representative's Last Name: Scott	

General Opportunity Information		
Opportunity Name: Western Trade Show	Status: Accepted	
Date Created: 9/14/2005	Expected Close Date:	
Priority: Low	Expected Revenue:	
Customer Type: General	Probability of Sale: 50	
* Lead Source: Tradeshaw	Territory: SouthWest	
	Budget Price:	
	Budget Approved: N/A	

FIGURE 145. Opportunity Detail Page: Edit Properties Tab

5. Modify the desired information.

Some fields are read-only and can only be modified by the *Enterprise Lead Administrator*. You can use the calendar widget (to the right of the Expected Close Date field) to select a date for that field.

6. Click **Save**.

To Prepare a Proposal for a Contact

The primary purpose of an opportunity is to help you close business with the opportunity contact. Often you do this by preparing a proposal to offer to the contact: this comprises a list of products with your prices so that you can send this to the contact.

1. Navigate to your workspace.
2. Click the **Proposals** tab.
3. Click the link to the proposal that you want to work on.
4. Add and configure products on the product list as the contact requests them.
5. For each line item, the price that you would pay to buy the line item from the enterprise is displayed in the Extended Price column as the first price you see.
6. Enter numbers into the Uplift and Discount fields. A revised extended price is calculated each time you click **Calculate** or **Save**.

The revised extended price is calculated as follows:

Extended Price x (100 + Uplift%) x (100 - Discount%)

For example, if the original extended price is \$50.00 and you enter an uplift of 15% and a discount of 5%, then the revised extended price is:

$\$50 \times (115\%) \times (95\%) = \54.62 .

Clicking **Calculate** does not save the uplift or discount percentages whereas **Save** does.

7. You can review the Total prices and margins for the proposal in the Summary panel.

Percent Discount: 6%	Total Price: \$5,168.41
Absolute Discount: \$321.81	Total Margin: \$356.91

FIGURE 146. Proposal Summary Panel

The Total margin is calculated as the difference between the total of the revised extended prices and the total of the extended price: it is the difference between the price that you are offering the contact and what you would have to pay for this cart.

8. You can view a printable version of this proposal by clicking **Print View**.

The screenshot shows the Atrix Solutions web interface for an opportunity named 'Western Trade Show'. The page includes a navigation bar with links like 'My Home', 'My Account', and 'Account Activity'. The main content area displays the opportunity details and a summary of discounts and prices. Below this, there is a section for 'Print Field Selection' with a 'Print Template' dropdown and a 'Header Items' section with checkboxes for 'Customer Name' and 'Title'.

FIGURE 147. Print Proposal Preparation Page

9. Select a template to use to generate the proposal. These template have been previously uploaded by your sales manager. See "To Upload a New Proposal Template" on page 235.
10. Select the proposal items that you want to include in the view and enter text that you want to accompany the proposal.

The screenshot shows a web application window titled "Print Field Selection". At the top, there is a "Print Template:" label followed by a dropdown menu labeled "Select a template". Below this, the form is organized into sections:

- Header Items:**
 - ☐ Customer Name
 - ☐ Title: [text input field]
 - ☐ Opening Comments: [text input field]
 - ☐ Company Address ☐ Company Logo ☐ Account Representative Name
 - ☐ Terms & Conditions: [text input field]
 - ☐ Total Price ☐ Total Discount
- Major Line Items:**
 - ☐ Product ID ☐ Product Name ☐ Product Description ☐ Price ☐ Discount
- Minor Line Items:**
 - ☐ Product ID ☐ Product Name ☐ Product Description ☐ Price ☐ Discount

At the bottom left of the form, there is a link: [Back to Top ↑](#).

FIGURE 148. Proposal Field Selection

11. Click **Print View**.

A new browser window opens up to display a printable form of the proposal. Note that this window displays the discounts offered on each line item, but not the uplifts.

12. If you want, you can click **Save** to save a copy of the proposal template settings with the proposal.**To Create an Order from an Opportunity**

1. Log into the server at the enterprise site by clicking the appropriate portal link on the Sterling Multi-Channel Selling Solution home page.

Typically, this link is created for partners by the enterprise administration team, and they need to let you know what this link is.

2. Click the link to take you to your opportunities. In the reference implementation, click **Opportunity and Proposal Activity** in the Commerce Tasks panel.

This displays the Opportunities tab for the Account Activity page (Figure 149 on page 273).

3. Find the opportunity for which you want to add products.

An opportunity must be accepted before you can add products. See "To Accept an Opportunity" on page 264.

The screenshot shows the Atrix Solutions web interface. At the top, there's a navigation bar with 'My Home', 'My Account', 'Account Activity', and 'Logout'. Below this is a section titled 'Account Activity' with tabs for 'Active', 'Approvals', 'Routed', 'Quotes', 'Sales Contracts', 'Orders', 'Returns', 'Opportunities', 'Proposals', and 'Invoices'. The 'Opportunities' tab is selected. Below the tabs is a search box labeled 'Find Opportunities that contain:' with a dropdown for 'Opportunity ID' and a 'Search' button. Below the search box is a table of opportunities.

<input type="checkbox"/>	Opportunity ID	Opportunity Name	Priority	Primary Contact	Received Date	Assigned To	Status
<input type="checkbox"/>	600547	Lead 27 - No Proposal Items	Medium	Fong, Al	9/13/2005	mccott	Accepted

FIGURE 149. Opportunities List Page for Partners

- Click the opportunity name.

The opportunity detail page displays.

The screenshot shows the Comergent eBusiness System 'Lead Management' page. The 'Opportunity' tab is selected, showing details for 'Western Trade Show' (Organization: DataSolve). Below the tabs are two main sections: 'Organization Information' and 'General Opportunity Information'.

Organization Information	
Organization Name:	Representative's Phone:
DataSolve	610-6853 (Business)
Representative's First Name:	Representative's Email:
Mike	mccott@icmsolutions.com
Representative's Last Name:	
Scott	

General Opportunity Information		
Opportunity Name:		Status:
Western Trade Show		Accepted
Date Created:		Expected Close Date:
9/14/2005		
Priority:	Territory:	Expected Revenue:
Low	SouthWest	50
Customer Type:	Budget Price:	Probability of Sale:
General		
* Lead Source:	Budget Approved:	
Tradeshov	N/A	

FIGURE 150. Opportunity Detail Page: Edit Properties Tab

- Click **Manage Proposals**.

The Product List tab displays.

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My Home | My Account | Account Activity | Logout

All Categories | Computers | Portable Devices | Alla's testing | Handhelds | Peripherals | Software | Accessories | Product Advisor

Opportunity: Lead 27 - No Proposal Items [Return To List](#)

Edit Properties | **Manage Proposals** | Add Notes

Name:	Product List	change
Customer Type:	Education	
Currency:	EUR	
Last Modified:	9/13/2005	
Status:	New	
Expiration Date:		

Percent Discount:	Total Price: €0.000
Absolute Discount: €0.000	Total Margin: €0.000

Use this page to prepare your proposal.
 You can adjust the prices that are presented to your contact using the Uplift and Discount fields: the uplift is applied to the list price extended to you, and the discount is applied to the uplifted price. When you print the proposal, only the discounted price is displayed.
 Major Line items can be marked Below the Line (BTL) to indicate that they are not part of the formal proposal but might be items of interest for the user. Minor lines can be marked Do Not Display (DND) when they are part of the proposal but they should not be displayed in the print view of the proposal.
 Use the Calculate button to try out different combinations of uplifts and discounts. Save your final uplift and discount choices by clicking [Convert to Order](#) Save.

FIGURE 151. Opportunity Detail Page: Manage Proposals Tab

6. Add products.

You can do this in one of three ways:

- Click **Continue Shopping** to browse the product catalog.

By browsing the catalog, you can add products to a minilist in the left-hand frame. When you click the **Cart** link, the Product List window is re-displayed showing the products you selected (Figure 152 on page 275).

- Click **Help Me Find Products** to find products by answering questions.

This displays the cart window with a questionnaire that leads you through a guided selling experience. You can add products to a minilist. When you click **Process List**, the Product List window is re-displayed showing the products you selected.

- Click **Enter Product ID's** to add products by enter specific product IDs.

A frame appears that enables you to enter a product ID.

As you add products, they appear in the product list. When you are finished adding products to the cart, then click the **Cart** link.

Use the Calculate button to try out different combinations of uplifts and discounts. Save your final uplift and discount choices by clicking **Convert to Order** and Save.

[Continue Shopping](#) [Enter Product IDs](#)

[Compare](#) [Remove](#) [Print View](#) [Calculate](#) [Save As New](#) [Save](#)

<input type="checkbox"/>	<input type="checkbox"/>	BTL/DND	Name	Product ID	Supplier		Price	Qty	Ext. Price	Status
<input type="checkbox"/>	<input type="checkbox"/>		7410 Notebook "Workhorse"	MXLP-7410	Enterprise	Pct. <input type="radio"/> Abs. <input type="radio"/>	€100.00000	<input type="text" value="1"/>	€100.000	
							Uplift <input type="text" value="0.00"/>		€100.000	
							Discount <input type="text" value="0.00"/>		€100.000	

Proposals for Opportunity			
Proposal ID	Name	Last Modified	Status
600705	Product List	9/13/2005	New

[More](#)

Percent Discount:	0%	Total Price:	€100,000
Absolute Discount:	€0.000	Total Margin:	€0.000

FIGURE 152. Opportunity Detail Page: Manage Proposals Tab with Product

- Decide whether to convert any of the current “below the line” (BTL) items to “above the line” items. Below the line items are not included when you convert the proposal into an order.
- Click **Convert to Order** when you are ready to convert the proposal to an order.

To Add Notes About An Opportunity

- Log into the server at the enterprise site by clicking the appropriate portal link on the Sterling Multi-Channel Selling Solution home page.

Typically, this link is created for partners by the enterprise administration team, and they need to let you know what this link is.

- Click the link to your opportunities.

This displays the Opportunities tab for the Lists page (Figure 153 on page 276).

- Find the opportunity for which you want to add notes.

An opportunity must be accepted before you can add notes. See "To Accept an Opportunity" on page 264.

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My Home | My Account | Account Activity | Logout

Account Activity

Active Approvals Routed Quotes Sales Contracts Orders Returns Opportunities Proposals Invoices

Find Opportunities that contain:

Opportunity ID Search Show All

<input type="checkbox"/>	Opportunity ID	Opportunity Name	Priority	Primary Contact	Received Date	Assigned To	Status
<input checked="" type="checkbox"/>	600547	Lead 27 - No Proposal Items	Medium	Fong, Al	9/13/2005	mscott	Accepted

FIGURE 153. Opportunity List Page for Partners

4. Click the opportunity name.

This displays the opportunity detail page.

COMERGENT | Lead Management
eBusiness System

My Home | My Account | About | Help | Logout

Opportunity: Western Trade Show [Organization: DataSolve] [Go To Leads List](#)

Edit Properties Manage Proposals Add Notes

Organization Information

Organization Name: DataSolve
Representative's First Name: Mike
Representative's Last Name: Scott
Representative's Phone: 610-6853 (Business)
Representative's Email: mscott@icmsolutions.com

General Opportunity Information

Opportunity Name: Western Trade Show
Date Created: 9/14/2005
Priority: Low
Customer Type: General
* Lead Source: Tradeshov
Status: Accepted
Expected Close Date:
Expected Revenue:
Probability of Sale: 50
Territory: SouthWest
Budget Price:
Budget Approved: N/A

FIGURE 154. Opportunity Detail Page: Edit Properties Tab

5. Click **Add Notes**.

This displays the Add Notes tab.

The screenshot displays the Atrix Solutions web interface. At the top, the Atrix logo is visible alongside the text 'SOLUTIONS'. To the right, it says 'POWERED BY COMERGENT'. Below this is a navigation bar with links: 'My Home', 'My Account', 'Account Activity', and 'Logout'. A secondary navigation bar lists various categories: 'All Categories', 'Computers', 'Portable Devices', 'Alla's testing', 'Handhelds', 'Peripherals', 'Software', 'Accessories', and 'Product Advisor'. The main heading is 'Opportunity: Western Trade Show', with a 'Return To List' link. Below the heading are three tabs: 'Edit Properties', 'Manage Proposals', and 'Add Notes'. The 'Add Notes' tab is active. It contains a text area labeled 'Lead Notes' with a vertical scrollbar and an 'Add Note' button. Below the text area is a table with the following columns: 'Date', 'Note', 'Organization', and 'Created By'. The table is currently empty, and the text 'No Rows Found' is displayed at the bottom.

FIGURE 155. Opportunity Detail Page: Add Notes Tab

6. Enter the note text.
7. Click **Add Note**.

To Close an Opportunity

As partner sales manager or sales representative, it is your responsibility to close opportunities when you are no longer working on them. Closing opportunities enables the enterprise to review how well partners perform in closing leads and how valuable the opportunities to their partners.

When you close an opportunity, you must mark it as a Win or a Loss. This helps the enterprise determine how successful partners are in transacting business.

1. Log into the server at the enterprise site by clicking the appropriate portal link on the Sterling Multi-Channel Selling Solution home page.

Typically, this link is created for partners by the enterprise administration team, and they need to let you know what this link is.

2. Click the link to your opportunities.

This displays the Opportunities tab for the Lists page (Figure 153 on page 276).

3. Click the link to the opportunity that you want to close.
4. In the Status drop-down list, select "Closed".

5. If the opportunity is being closed as a Win, then enter a value in the Expected Revenue field. Be sure to use the value as expressed in the Enterprise currency (for example, US dollars).
6. Click **Save**.



FIGURE 156. Close Opportunity Window

7. Enter a note regarding the reason for winning or losing the opportunity.
8. Click **Win** or **Loss**.

The opportunity is closed and becomes read-only in your workspace.

To Create a New Proposal by Copying an Existing Proposal

If you copy an existing proposal, then it is created with all of the same opportunity information of the original proposal.

1. Log into the server at the enterprise site by clicking the appropriate portal link on the Sterling Multi-Channel Selling Solution home page.

Typically, this link is created for partners by the enterprise administration team, and they need to let you know what this link is.
2. Click **Account Activity**.
3. Click the **Proposals** tab.



FIGURE 157. Proposals List Page

4. In the list of proposals, find the proposal that you want to copy and click the link to its detail page.
5. On the Proposal Detail page, click **Save as New**.

A new proposal is listed. You can work this proposal just as you can the original proposal.

To Create a New Proposal and New Opportunity

If you copy an existing proposal, then it is created with all of the same opportunity information of the original proposal.

1. Log into the server at the enterprise site by clicking the appropriate portal link on the Sterling Multi-Channel Selling Solution home page.
Typically, this link is created for partners by the enterprise administration team, and they need to let you know what this link is.
2. Click **Account Activity**.
3. Click the **Proposals** tab.

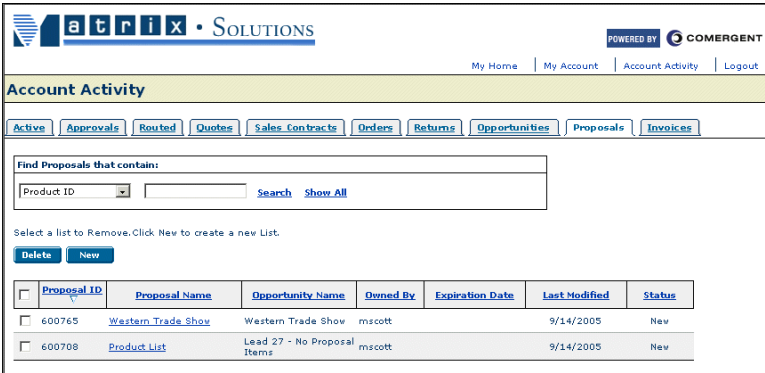


FIGURE 158. Proposals List Page

4. Click **New**.

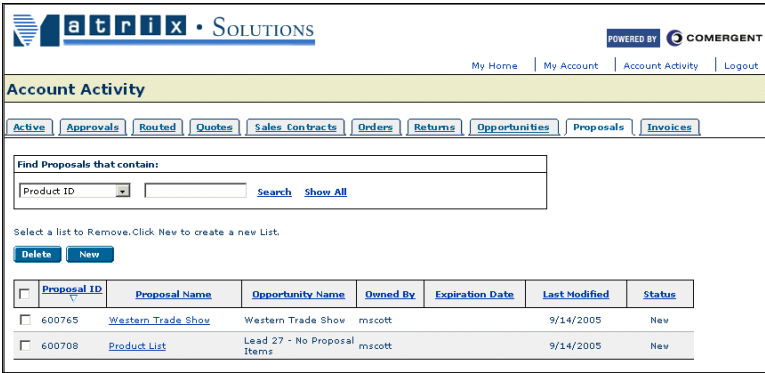


FIGURE 159. New Proposal Page

5. Enter a name for the new proposal and contact information.

6. Click **Save**.

The new proposal and opportunity is created. The Product List tab of the opportunity is displayed.

Invoice Administration by Partners

Partner users who have been assigned the Financials function can manage invoices for their partner. Other partner users can view the invoices associated with their orders, but they cannot change the status of invoices.

To View an Invoice

1. Click the **Invoices** tab on your Account Activity page.

POWERED BY

[My Home](#) | [My Account](#) | [Account Activity](#) | [Logout](#)

Account Activity

Active

Approvals

Routed

Quotes

Sales Contracts

Orders

Returns

Opportunities

Proposals

Invoices

Find Invoices that contain:

Ref Order/Invoice #

Search

Show All

Advanced Search

<input type="checkbox"/>	Invoice Number	Invoice Type	Ref Order/Invoice #	User Name	Due Date	Date Created	Amount	Balance	Invoice Status
<input type="checkbox"/>	75827613	Invoice	9912593762	frutten	5/16/2003	5/16/2003	\$3,721,490	\$2,577,310	Disputed
<input type="checkbox"/>	71137155	Invoice	4601604194	frutten	5/16/2003	5/16/2003	\$120,204,040	\$0.000	Paid
<input type="checkbox"/>	14591430	Invoice	2782598787	frutten	5/16/2003	5/16/2003	\$6,314,040	\$6,314,040	Disputed
<input type="checkbox"/>	96049622	Invoice	8985592576	icollins	5/16/2003	5/16/2003	\$191,924,640	\$0.000	Paid
<input type="checkbox"/>	44444460	Invoice	9801593809	icollins	5/16/2003	5/16/2003	\$1,374,110	\$432,630	Partially Paid
<input type="checkbox"/>	69986980	Invoice	9801593809	icollins	5/16/2003	5/16/2003	\$1,756,300	\$1,756,300	Disputed
<input type="checkbox"/>	85628537	Invoice	9801593809	icollins	5/16/2003	5/16/2003	\$7,375,100	\$0.000	Paid
<input type="checkbox"/>	77917785	Invoice	6525602281	msscott	5/16/2003	5/16/2003	\$5,393,820	\$0.000	Paid
<input type="checkbox"/>	43064349	Invoice	6525602281	msscott	5/16/2003	5/16/2003	\$5,531,300	\$0.000	Paid
<input type="checkbox"/>	32813262	Invoice	6525602281	msscott	5/16/2003	5/16/2003	\$8,193,820	\$5,852,800	New
<input type="checkbox"/>	53915431	Invoice	6525602281	msscott	5/16/2003	5/16/2003	\$4,200,040	\$0.000	Paid

FIGURE 160. Partner Account Activity Page: Invoices Tab

2. Click the link of the invoice whose detail you want to view. The Invoice Detail page is displayed.

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My Home | My Account | Account Activity | Help | Logout

Invoice Details: Invoice # 75827613 [Return to List](#)

Invoice Type: Invoice	Invoice Status: Disputed
Invoice Dates: May 16, 2003	Due Dates: May 16, 2003
Balance: \$2,577,310	Order Number: 9912593762

Shipping Information Ship To: 172 Barford Ave. First floor Salt Lake City, UT 84093 USA	Billing Information Bill To: 172 Barford Ave. First floor Salt Lake City, UT 84093 USA	Sold-To Information Sold To: 172 Barford Ave. First floor Salt Lake City, UT 84093 USA
--	---	---

Remit-To Information Remit To: Matrix Solutions Ms. Caroline Jones 14303 Matrix Drive Matrix Plaza Hampton City, CA 92064 USA
--

[Update](#)

[Mark All Paid](#)

	Line #	Product ID	Customer Status	Enterprise Status	Updated By	Unit Price	Quantity	Extended Price
History	6451	MX-SC0204	Paid	Payment Received	gonex	\$85.330	6	\$511.980
History	6452	MX-FW3343	Paid	Disputed	gonex	\$63.220	10	\$632.200

FIGURE 161. Partner Invoice Detail Page

- You can update the customer status of any invoice line by selecting the appropriate status from the drop-down list and clicking **Update**. The status of the invoice is updated by applying the rules described in "Invoice Statuses" on page 47.
- You can view the history of an invoice line item by clicking **History**. The Invoice Line Item History page is displayed.

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My Home | My Account | Account Activity | Logout

Line Item History List: Invoice # 75827613 [Return to List](#)

[Done](#)

Product ID	Customer Status	Enterprise Status	Updated By	Updated Date	Quantity
MX-SC0204	Paid	Payment Received	gonex	5/16/2003	6
MX-SC0204	Paid	New	mscott	5/16/2003	6
MX-SC0204	New	New	ERPAdmin	5/16/2003	6

FIGURE 162. Invoice Line Item History Page

Program Administration by Partners

When a program is assigned to your partner, you can submit preapproval requests and claims for activities. You must submit preapproval requests for each program activity that you participate in, and the preapproval request must be approved before you can submit claims against the request.

This section describes these tasks:

To Submit a Preapproval Request

You submit preapproval requests against specific program activities. You can submit more than one request against the same program activity.

1. Click **Partner Programs** on your home page.

The screenshot shows the 'Program List' page in the Matrix Solutions interface. At the top, there's a logo for 'MATRIX SOLUTIONS' and a 'POWERED BY COMERGENT' badge. Navigation links include 'My Home', 'My Account', 'Account Activity', 'Help', and 'Logout'. Below the header, there's a search section titled 'Find programs that contain:' with a dropdown menu for 'Program Name' and buttons for 'Search' and 'Show All'. A table titled 'All programs shown' displays a list of programs. The table has columns for Program ID, Program Name, Program Type, Creation Date, Activities Start Date, Activities End Date, and Program Status. One program is listed: Program ID 101, Program Name 'Workstation Launch', Program Type 'MDF', Creation Date '10/5/2005', Activities Start Date '10/1/2005', Activities End Date '10/31/2005', and Program Status 'Active'.

Program ID	Program Name	Program Type	Creation Date	Activities Start Date	Activities End Date	Program Status
101	Workstation Launch	MDF	10/5/2005	10/1/2005	10/31/2005	Active

FIGURE 163. Program List Page

2. On the Program List page, click the link to the appropriate program.
3. On the Program Detail page, click the Activities tab.
4. On the Activities List page, click the link to the appropriate activity.
5. On the Activity Detail page, click **Create Preapproval Request**.
6. Enter the preapproval request details as required for this activity.
7. Click **Save**.
8. Click **Submit Request**.

To Submit a Claim

Before you can submit a claim against a program activity, you must have submitted a preapproval request for the program activity, and the request must have been approved by the enterprise. You can submit only one claim against each preapproval request.

1. Click **Partner Program Preapprovals and Claims** on your home page.

The screenshot shows the 'Claim List' page. At the top, there's a navigation bar with 'MATRIX SOLUTIONS' and 'POWERED BY COMERGENCY'. Below this, there are links: 'My Home', 'My Account', 'Account Activity', 'Help', and 'Logout'. The main heading is 'Claim List'. Below the heading, there's a search box with the text 'Find records that contain:'. Inside the search box, there's a dropdown for 'Program Name' and a 'Search' button. To the right of the search box is a 'Show All' link. Below the search box, it says 'All records shown'. There's a table with the following columns: 'Preapproval ID', 'Preapproval Status', 'Preapproval Request Date', 'Claim ID', 'Claim Status', 'Claim Date', 'Activity Name', and 'Program Name'. The first row of data shows: '101', 'Pending Approval', '10/5/2005', and links for 'Press Release' and 'Workstation Launch'.

Preapproval ID	Preapproval Status	Preapproval Request Date	Claim ID	Claim Status	Claim Date	Activity Name	Program Name
101	Pending Approval	10/5/2005				Press Release	Workstation Launch

FIGURE 164. Claim List Page

2. On the Claim List page, click the link to the appropriate preapproval request.
3. On the Preapproval Request Detail page, click **Create Claim**.

The screenshot shows the 'Claim for Press Release' page. At the top, there's a navigation bar with 'MATRIX SOLUTIONS' and 'POWERED BY COMERGENCY'. Below this, there are links: 'My Home', 'My Account', 'Account Activity', 'Help', and 'Logout'. The main heading is 'Claim for Press Release'. Below the heading, there's a 'Claim Form' section. Inside the 'Claim Form' section, there's a message: 'Save the data you entered by clicking the Save button. Click Clear to clear the form. Click Update to view changes. Cancel changes by clicking the Cancel button.' Below the message, there are four buttons: 'Save', 'Update', 'Clear', and 'Cancel'. Below the buttons, there's a 'Claim Application Form' section. Inside the 'Claim Application Form' section, there's a 'Claim Details' section. The 'Claim Details' section has the following fields: 'Program Name' (with a link to 'Workstation Launch'), 'Activity Name' (with a link to 'Press Release'), 'Preapproval ID' (101), 'Approval Number' (1128532275915), 'Claim ID' (empty), 'Claim Status' (In Creation), 'Actual Sales' (empty), 'Actual Unit Sales' (empty), and 'Actual Sales Revenue' (empty) with a note '(In dollars)'.

Claim Details	
Program Name	Workstation Launch
Activity Name	Press Release
Preapproval ID	101
Approval Number	1128532275915
Claim ID	
Claim Status	In Creation
Actual Sales	
Actual Unit Sales	
Actual Sales Revenue	

FIGURE 165. Claim Detail Page

4. Enter the basic claim details.
5. Click **Save**.
6. Click **Submit Claim**.

Managing Product Information

To Upload Product Mapping

Use this task to upload product mapping to the database. See "Product Mapping File Format" on page 1127 for the required format and an example.

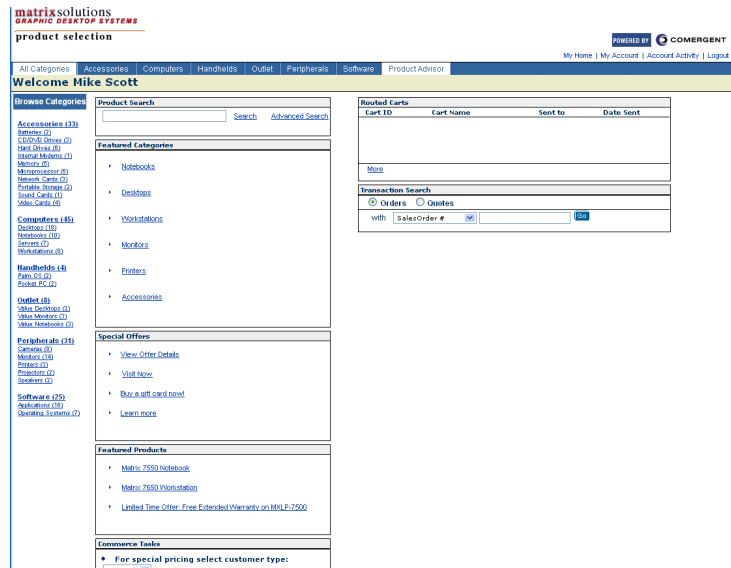


FIGURE 166. Sterling Multi-Channel Selling Solution Partner Home Page

1. Click **Upload & Maintain Products** in the Storefront Administration panel on the Sterling Multi-Channel Selling Solution home page.

This displays the SKU Administration page.

2. Click the **SKU Upload** tab.

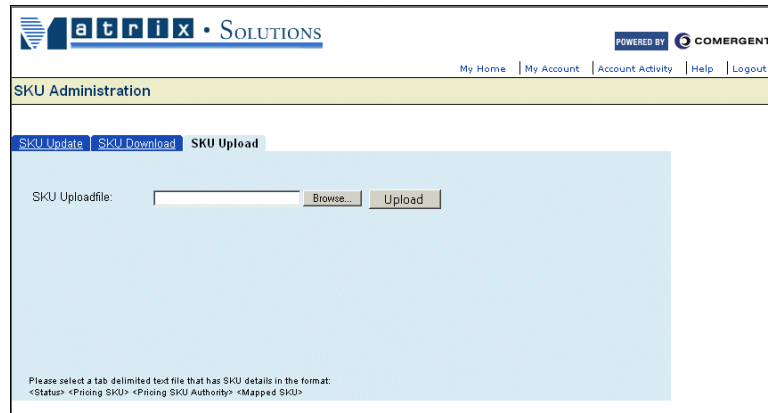


FIGURE 167. SKU Upload Tab of the Product Administration Page

3. Select the file that contains the products by completing one of the following:
 - Enter the filename (including the path) in the Product Upload file field.
 - Click **Browse...** and select the appropriate filename.
4. Click **Upload**.

To Download Products

1. Click **Upload and Maintain Products** in the Storefront Administration panel on the Sterling Multi-Channel Selling Solution home page.
2. Click **SKU Download**.
3. Select the format for the download.

- Click **in Excel format** for the information to be displayed in an Excel spreadsheet.

Attention: If you are using Internet Explorer 5.0 on a Windows NT 4.0 machine with cookies turned on, then you cannot download product information in a Microsoft Excel format. Instead, download this information in a text format.

If you have Microsoft Excel installed, then the application is opened in a browser window and the information is displayed in an Excel spreadsheet. Use the Excel program to save or print the product information.

- Click **in Text format** for the information to be displayed in a text format.
The information is displayed in text format in a browser window. Save or print the product information.

To Update Product Mappings

You can change the mappings between your product IDs and the enterprise product IDs at any time.

Note: You cannot use the product update tab to create new products. Instead, upload a product file with the new products.
--

1. Click **Upload and Maintain Products** in the Storefront Administration panel on the Sterling Multi-Channel Selling Solution home page.
2. Click the **SKU Update** tab.

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My Home | My Account | Account Activity | Help | Logout

SKU Administration

SKU Update | SKU Download | SKU Upload

Find : **Find**

*** can be used as a wildcard (e.g. MX*)

Search Results for: (0 of 0 found)

Pricing SKU: previous|next

Pricing SKU Authority:

Mapped SKU: **Update**

FIGURE 168. SKU Update Tab

3. Enter the enterprise product number in the Find Pricing SKU field.
You can perform a wild-card search using an asterisk (*).
4. Click **Find**.
The Pricing SKU to which the product is mapped is displayed.

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My Home | My Account | Account Activity | Help | Logout

SKU Administration

SKU Update | SKU Download | SKU Upload

Find : **Find**

*** can be used as a wildcard (e.g. MX*)

Search Results for: MXLP* (1 of 11 found)

Pricing SKU: MXLP-7410 previous|next

Pricing SKU Authority: Matrix

Mapped SKU: **Update**

FIGURE 169. SKU Update Tab with Information

5. Modify the Mapped SKU as necessary.
6. Click **Update**.

If you performed a wildcard search, then you can click **next** to view and update any other mappings that were found.

Managing Prices

To Assign Price Lists to Partners

When you create price lists for your products, you must assign the price lists that contain the products to those customers for whom you want to make the products available.

Note:	You can only assign price lists that your partner owns and you can only assign them to customer partners of your partner.
--------------	---

1. Access the Partner Profile Detail page as described in "To Maintain Your Profile" on page 226.
2. Click the **Hierarchy** tab.

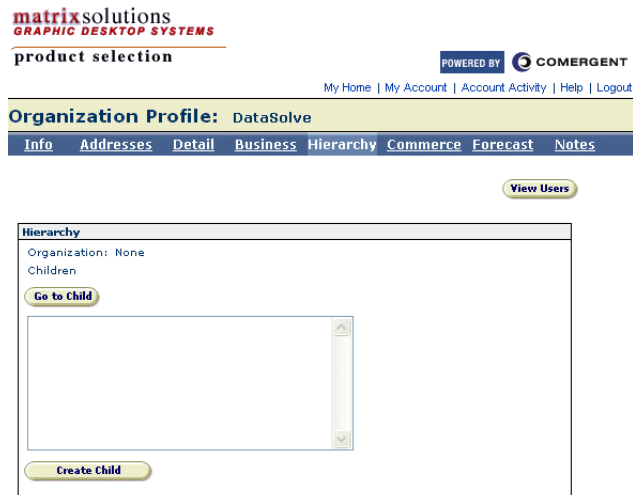


FIGURE 170. Partner Profile Detail Page: Hierarchy Tab

3. In the list of Children, find the customer to whom you want to assign price lists.

Customers are designated with [*] after their name.

4. Click on the customer name.

5. Click **Go To Child**.

This displays the Profile page for the selected customer.

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GRAPHIC DESKTOP SYSTEMS

product selection

POWERED BY COMERGENT

[My Home](#) | [My Account](#) | [Account Activity](#) | [Help](#) | [Logout](#)

Organization Profile: DataSolve

InfoAddressesDetailBusinessHierarchyCommerceForecastNotes

View UsersSave

NOTE: (*) items are required.

General Information

Profile name *

DataSolve

Main telephone

610-6800

Main facsimile

N/A

Profile type *

Reseller

Profile level *

Gold

XML Message Version

dXML 4.1.1

Login/Password required

☐

Organization website address

www.datasolve.com

Organization Email

corp@datasolve.com

Distributors

Select to add

OmniTech

Andereel

RTT Solutions

ParisTech

Remove

Message URL

Content Type

Custom Field #1

Custom Field #2

Custom Field #3

Custom Field #4

Custom Field #5

Profile Status

Status

Open

Accounts

Currency

USD

Credit limit

\$5,000.00

Available Credit

\$5,000.00

Co-op %

0.000

Co-op Account Maximum

\$0.00

FIGURE 171. Customer Profile Page

6. Click the **Pricelists** tab.

This displays the Partner Manager page with a list of price lists.

Assign	Sharable	Price List Name	Starting Date	Ending Date	Currency	Customer Type	Supplier	Status
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Pricelist_allnet	1/17/2001	10/4/2010	USD	General	AllNet Corp	Active
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Allnet Price List	9/1/2005	9/30/2005	USD	General	AllNet Corp	Active

FIGURE 172. Available Price Lists

- Click in the check box next to the price list(s) you want to assign.

Note: You can assign an inactive price list to a customer. Inactive price lists have no effect on product prices until you activate the price list.

- Click **Update**.

The selected price lists are assigned to the partner. You should also check that the correct product entitlements are assigned to the customer.

- Click **Product Entitlements**.
- Verify that the correct product entitlements are assigned to this customer.

Managing Email Templates

To Set Your Email Templates

The Sterling Multi-Channel Selling Solution enables you to create email templates for the following situations:

- email sent notifying you that an order has been placed with your company
 - email sent notifying you that an order placed with your company has been updated
 - email to a customer acknowledging receipt of an order
 - email to a customer providing updates on an order
- Click **Configure E-Mail Notifications** in the Storefront Administration panel on the Sterling Multi-Channel Selling Solution partner home page.

FIGURE 173. Email Notification Administration Page

2. In the **Email Address** field, enter an appropriate email address that the customer should see when they receive email. Typically, choose an email address such as *sales@mycompany.com*, so that if a customer replies to the email the reply will be sent to a supported address at your company.
3. If it is not already selected, then click the **Order Placement Email** tab.

This tab enables you to specify the header and footer of emails that are sent notifying you that an order has been placed with your company.

 - a. Enter header information in the area below **Your Email Header**.
 - b. Enter footer information in the area below **Your Email Footer**.
 - c. Click **Save All**.
4. Click the **Order Update Email** tab.

This tab enables you to specify the header and footer of emails that are sent to your partner when an order is updated.

 - a. Enter header information in the area below **Your Email Header**.
 - b. Enter footer information in the area below **Your Email Footer**.
 - c. Click **Save All**.

5. Click the **Order Placement Email to Customer** tab.

This tab enables you to specify the header and footer of emails that are sent to a customer acknowledging receipt of an order.

- a. Enter header information in the area below Your Email Header.
- b. Enter footer information in the area below Your Email Footer.
- c. Click **Save All**.

6. Click the **Order Update Email to Customer** tab.

This tab enables you to specify the header and footer of emails that are sent to a reseller providing updates on an order.

- a. Enter header information in the area below Your Email Header.
- b. Enter footer information in the area below Your Email Footer.
- c. Click **Save All**.

Managing Inbound Orders

Storefronts are set up so that they can receive inbound orders from their partners: these partners may be partners of the enterprise or they may be customer partners of the storefront. In either case, a profile administrator can log in and view these inbound orders and perform some basic administration as described in this section.

To View Inbound Orders

1. Log in to your storefront home page.
2. Click **Account Activity**.
3. Click the **Orders** tab.

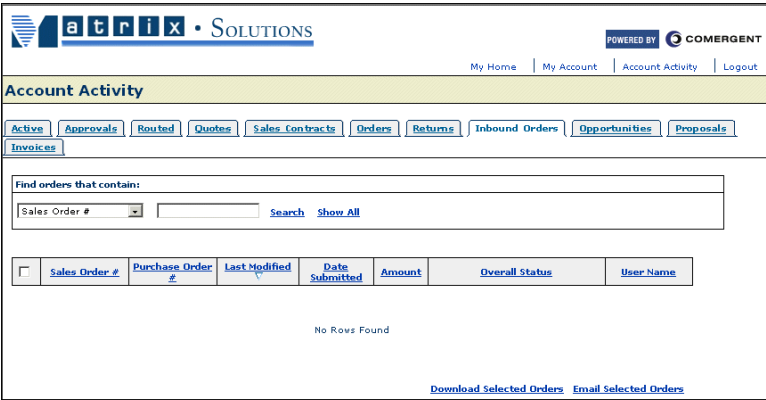


FIGURE 174. Partner Account Activity Page: Orders Tab

4. If the inbound order is listed on this page, then click the link to it. You can search for the inbound order or navigate through the paginated list of inbound orders to find it.
5. On the Inbound Order Detail page, you can accept the order.

This chapter describes the administration and management of user attributes for market segmentation purposes. See "Customer Segmentation Management" on page 54 for an overview of market segmentation and attribute management in the Sterling Multi-Channel Selling Solution.

This chapter covers the following tasks:

- "Attribute Management Interface" on page 296
 - To Access the Attribute Manager Page
- "Attribute Group Administration Tasks" on page 297
 - To Create an Attribute Group
 - To Modify an Attribute Group
 - To Delete an Attribute Group
- "Attribute Administration Tasks" on page 299
 - To Create an Attribute
 - To Modify an Attribute
 - To Delete an Attribute
 - To Define Allowed Values for an Attribute

- To View User Assignments for an Attribute
- To Assign an Attribute to a User
- To Modify the Values of an Attribute Assigned to a User
- To Unassign an Attribute from a User
- To View Organization Assignments for an Attribute
- To Assign an Attribute to an Organization
- To Modify the Values of an Attribute Assigned to an Organization
- To Unassign an Attribute from an Organization
- To View Attribute Usage
- "User/Organization Profile Attribute Administration Tasks" on page 312
 - To Access the User or Organization Profile Attributes List Page
 - To Add an Attribute to User or Organization Profile Attributes List
 - To Delete an Attribute from User or Organization Profile Attributes List
 - To Specify Attribute Availability for Assignment to User
- "Importing and Exporting Attributes" on page 314
 - To Import an Attribute
 - To Export an Attribute

Attribute Management Interface

This section describes the attribute management interface.

To Access the Attribute Manager Page

1. Click **Attribute Management** in the User/Profile Attribute Administration panel on the Sterling Multi-Channel Selling Solution home page.

The Attribute Manager page displays.

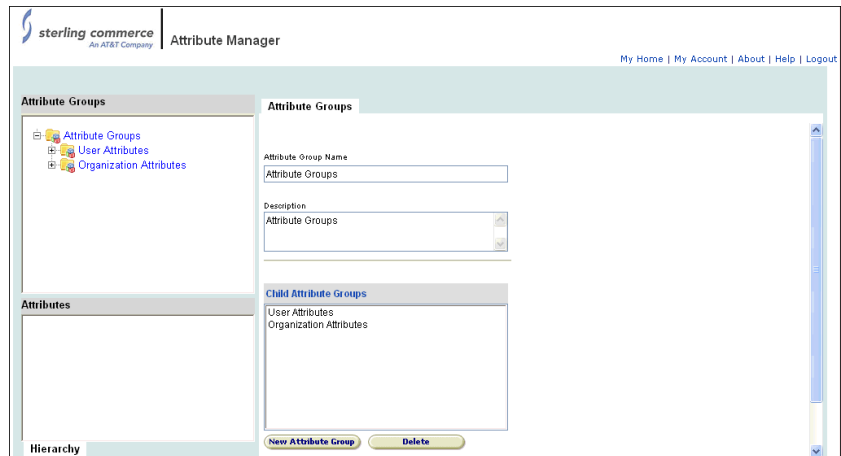


FIGURE 175. Attribute Manager Page

In the Attribute Manager page, the upper left panel provides a navigation panel to navigate the attribute group hierarchy and to select individual attribute groups. The right panel is used to display the details of a selected attribute group.

Attribute Group Administration Tasks

This section contains the tasks related to managing attribute groups.

To Create an Attribute Group

1. Click **Attribute Management** in the User/Profile Attribute Administration panel on the Sterling Multi-Channel Selling Solution home page.

The Attribute Manager page displays.

2. To create an attribute group under the root attribute group, click **New Attribute Group**.
3. To create an attribute group in an attribute group below the root attribute group:
 - a. Navigate to and select the parent attribute group under which you want to create the new attribute group.

The **Attribute Groups** tab displays.

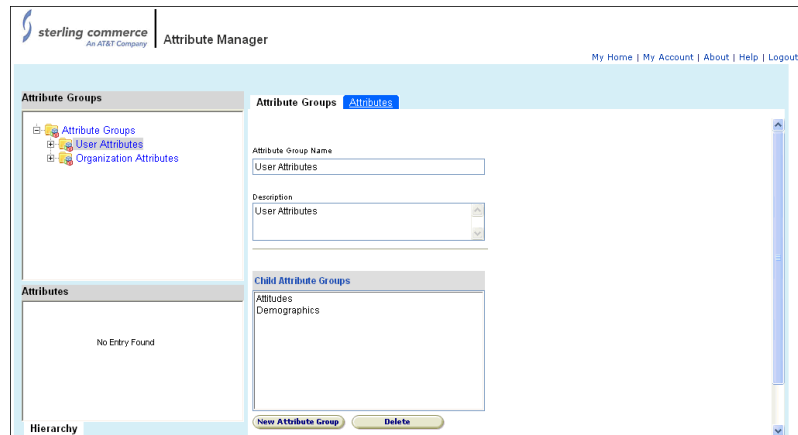


FIGURE 176. Attribute Management panel: Attribute Groups tab

- b. Click **New Attribute Group**.
4. Enter a name and description for the new attribute group.
5. Click **Save All Changes**.

To Modify an Attribute Group

1. Click **Attribute Management** in the User/Profile Attribute Administration panel on the Sterling Multi-Channel Selling Solution home page.

The Attribute Manager page displays.

2. Navigate to and select the attribute group that you wish to modify.

The **Attribute Groups** tab displays the name and description of the attribute group.

3. Enter a new name and description for the attribute group.
4. Click **Save All Changes**.

To Delete an Attribute Group

1. Click **Attribute Management** in the User/Profile Attribute Administration panel on the Sterling Multi-Channel Selling Solution home page.

The Attribute Manager page displays.

2. Navigate to and select the parent attribute group that contains the attribute group you want to delete.

The **Attribute Groups** tab displays the name and description of the parent attribute group, and the list of child attribute groups.

3. Select the attribute group you want to delete from the list of child attribute groups, and click **Delete**.

Note:	You cannot delete an attribute group if any attribute under its hierarchy is assigned to a user or organization. When you delete an attribute group, all child attribute groups and attributes under it are also deleted.
--------------	---

4. Click **Save All Changes**.

Attribute Administration Tasks

This section contains the tasks related to managing attributes defined for an attribute group.

To Create an Attribute

1. Click **Attribute Management** in the User/Profile Attribute Administration panel on the Sterling Multi-Channel Selling Solution home page.

The Attribute Manager page displays.

2. Navigate to and select the attribute group for which you want to create an attribute.
3. Click the **Attributes** tab.

The right panel displays two sets of fields: one called New Attribute for defining new attributes, and the other called Defined Attributes that shows the attributes that are currently defined for the selected attribute group.

FIGURE 177. Attribute Management Panel: Attributes Tab

4. Enter a name for the attribute in the upper right panel.
5. Select the type of attribute from the drop-down list.
 - **Number:** use this for any attribute whose value is determined by a number.
 - **String:** use this for any attribute whose value is expressed as a word or phrase.
6. Enter a description for the attribute.
7. Click **Add**.

The newly-added attribute appears among the defined attributes in the lower right panel.

To Modify an Attribute

1. Click **Attribute Management** in the User/Profile Attribute Administration panel on the Sterling Multi-Channel Selling Solution home page.

The Attribute Manager page displays.

2. Navigate to and select the attribute group for which you want to modify an attribute.

3. From the list of attributes defined for the selected attribute group in the lower left panel, select the attribute that you want to modify.

The **Attribute Detail** tab of the Attribute Manager page displays.

The screenshot shows the Sterling Commerce Attribute Manager interface. The top navigation bar includes the Sterling Commerce logo and links for 'My Home', 'My Account', 'About', 'Help', and 'Logout'. The main content area is divided into two panels. The left panel, titled 'Attribute Groups', shows a tree view with 'Attribute Groups' expanded, containing 'User Attributes', 'Attributes', 'Demographics', and 'Organization Attributes'. The 'Attributes' group is selected, showing a list of attributes: 'Contact Opt Ins', 'Preferred Contact Method', 'Preferred Buying Method', and 'Technology Adoption Cycle'. The right panel, titled 'Attribute Detail', shows the details for the 'Contact Opt Ins' attribute. It includes tabs for 'Segment Usage', 'User Assignment', and 'Organization Assignment'. The 'Attribute Name' is 'Contact Opt Ins' and the 'Attribute Type' is 'String'. The 'Description' field contains the text 'What are your contact preferences?'. Below this, there are two sections for 'New Value' and 'Allowed Values'. Each section has a table with 'Value' and 'Display Value' columns, and an 'Action' column. The 'New Value' section has one row with an empty 'Value' field, an empty 'Display Value' field, and an 'Add' button. The 'Allowed Values' section has two rows: 'Transaction info only' with 'Send me transaction-related information only.' and 'In UI', and 'Transaction info and promos' with 'Send me transaction-related information and promotional offers.' and 'In UI'. A 'Save All Changes' button is at the bottom of the right panel.

FIGURE 178. Attribute Manager Page: Attribute Detail Tab

4. You can do one or more of the following to modify the details of the selected attribute:
 - a. Enter a new description for the attribute.
 - b. Add, modify, or delete the allowed values for the attribute. See "To Define Allowed Values for an Attribute" on page 302.
5. Click **Save All Changes**.

To Delete an Attribute

1. Click **Attribute Management** in the User/Profile Attribute Administration panel on the Sterling Multi-Channel Selling Solution home page.

The Attribute Manager page displays.

2. Navigate to and select the attribute group for which you want to delete an attribute.
3. Click the **Attributes** tab.
4. From the list of defined attributes, select the attribute that you want to delete.

- Click the **Delete** icon in the Action column next to the attribute you want to delete.

The attribute along with all of its allowed values is deleted from the list of defined attributes.

Note: You cannot delete an attribute that is currently assigned to a user or organization.

To Define Allowed Values for an Attribute

- Click **Attribute Management** in the User/Profile Attribute Administration panel on the Sterling Multi-Channel Selling Solution home page.
The Attribute Manager page displays.
- Navigate to and select the parent attribute group of the attribute for which you want to define allowed values.
- From the list of defined attributes in the lower left panel, select the attribute for which you want to define allowed values.

The **Attribute Detail Tab** of the Attribute Manager page displays.

The screenshot shows the Sterling Commerce Attribute Manager interface. The top navigation bar includes the Sterling Commerce logo and the text 'Attribute Manager'. On the right, there are links for 'My Home', 'My Account', 'About', 'Help', and 'Logout'. The main content area is divided into two panels. The left panel, titled 'Attribute Groups', shows a tree view with 'Attribute Groups' expanded, containing 'User Attributes', 'Demographics', and 'Organization Attributes'. Below this, the 'Attributes' section lists 'Contact Opt Ins', 'Preferred Contact Method', 'Preferred Buying Method', and 'Technology Adoption Cycle'. The right panel, titled 'Attribute Detail', has tabs for 'Segment Usage', 'User Assignment', and 'Organization Assignment'. The 'User Assignment' tab is active. It displays the attribute name 'Preferred Contact Method' and type 'String'. The description is 'What is your preferred contact method?'. Below this, there are two tables. The first table, 'New Value', has columns for 'Value' and 'Display Value', with an 'Add' button. The second table, 'Allowed Values', has columns for 'Value', 'Display Value', and 'Action'. It lists 'SMS', 'Mail', 'Phone', and 'Email' with their respective display values and 'In U' action buttons. A 'Save All Changes' button is at the bottom.

FIGURE 179. Attribute Detail Tab: String

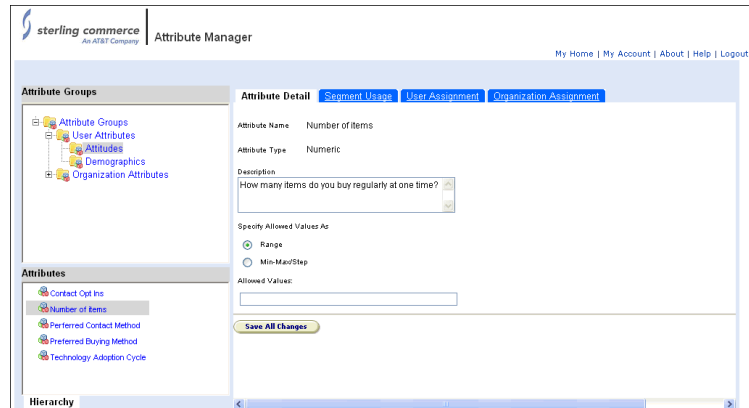


FIGURE 180. Attribute Detail Tab: Numeric

4. You can use the **Attribute Detail** tab to modify the description of an attribute and define the allowed values for a string or numeric attribute. To modify the name or description of an attribute, see "To Modify an Attribute" on page 300.
 - a. To define allowed values for a string attribute, perform one or more of the following steps:
 - To add an allowed value, enter a new value and display value for the attribute and click **Add**.

Note: You cannot enter a value that is currently existing within the attribute.

The new value appears among the list of allowed values defined for the attribute.

- To delete an allowed value, select the value you want to delete from the list of allowed values and click the **Delete (X)** button.
- To modify an allowed value, perform the following steps:
 - Select the value you want to modify from the list of allowed values and enter a new display value.
 - Click **Save All Changes**.

Note: You cannot modify or delete an allowed value for a string attribute if the allowed value is in use.

- b. To define allowed values for a numeric attribute, perform one of the following steps:
 - Click the **Allowed Values** radio button and enter the allowed values as discrete comma-separated values (for example, 1,4,6,9,10), a range of values (for example, 0-20), or a combination of both (for example, 1,4-6, 9, 11,20). Click **Save And Return**. The **Attribute Detail** page displays.

Note:	Clicking the Allowed Values radio button disables the Min, Max and Step text boxes.
--------------	--

- Click the **Min-Max/Step** radio button and enter the allowed values as a minimum value, a maximum value and a step between the two (for example, 2.0-10.0/2). Click **Save And Return**. The Attribute Detail page displays.

Note:	Clicking the Min-Max/Step radio button disables the Allowed Values text box.
--------------	--

To View User Assignments for an Attribute

1. Navigate to the Attribute Detail page of the attribute for which you want to view the users it has been assigned to.
2. Click the **User Assignment** tab.

The User Attribute Assignment page displays.

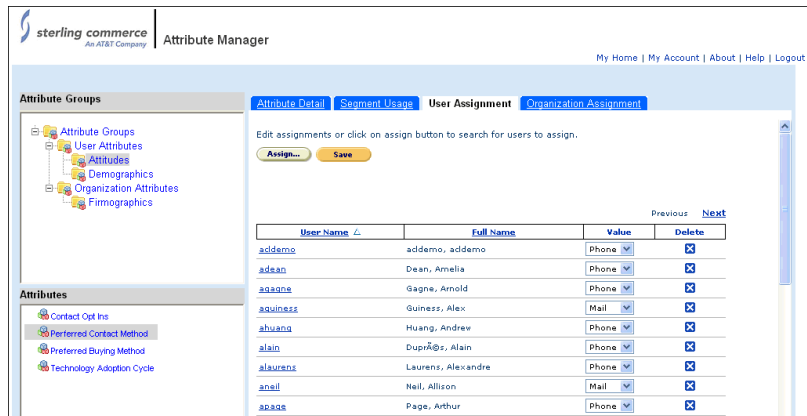


FIGURE 181. User Attribute Assignment Page

You can use the User Attribute Assignment page to perform one or more of the following tasks:

- To assign an attribute to one or more users.

See "To Assign an Attribute to a User" on page 305.

- To modify the values of the attribute assigned to users.

See "To Modify the Values of an Attribute Assigned to a User" on page 307.

- To unassign an attribute from a user.

See "To Unassign an Attribute from a User" on page 308.

To Assign an Attribute to a User

You can assign attributes to a user during the user's registration or profile maintenance. The steps in this task describe how to assign an attribute to a user from the User Attribute Assignment page (See "To View User Assignments for an Attribute" on page 304).

1. Navigate to the User Attribute Assignment page of the attribute you want to assign to a user.
2. Click the **Assign...** button.

The **Hierarchy** tab of the User Picker displays.

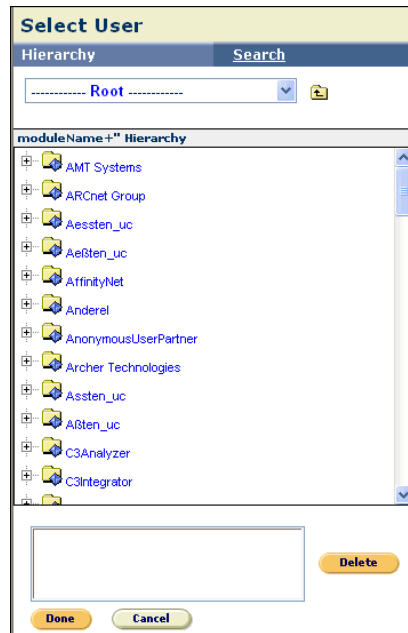


FIGURE 182. User Picker

3. Browse the hierarchy and select the user(s) you want to assign the attribute to or click the **Search** tab to search for the appropriate user(s).
4. Click **Done** to assign the attribute to the user(s) or click **Delete** to unassign the attribute from the user(s).

The User Attribute Assignment page re-displays with the list of user(s) you have just selected.

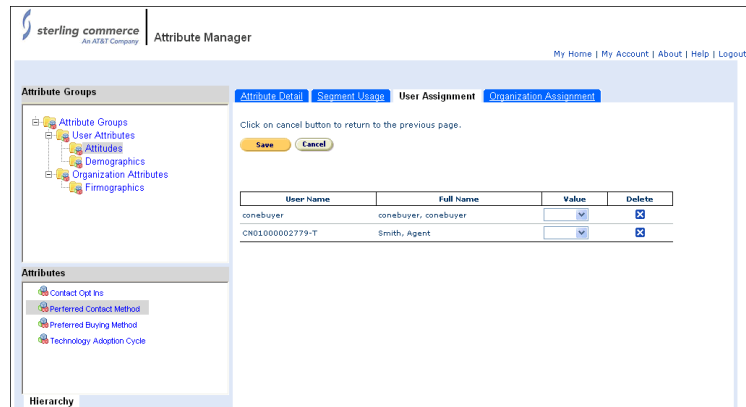


FIGURE 183. User Attribute Assignment Page: Assignments

- Enter or select a value from the drop-down list in the **Value** column next to the user.

Note: The drop-down list in the Value column appears only if there are allowed values defined for the attribute. See "To Define Allowed Values for an Attribute" on page 302.

- Click the **Delete (X)** button next to the user to unassign the attribute from the user.
- Click **Save**.

The User Attribute Assignment page re-displays with the complete list of user(s) the attribute is assigned to.

To Modify the Values of an Attribute Assigned to a User

- Navigate to the User Attribute Assignment page of the attribute for which you want to modify the values. See "To View User Assignments for an Attribute" on page 304.
- Select appropriate values for the attribute from the drop-down list in the **Value** column next to the user.
- Click **Save**.

To Unassign an Attribute from a User

1. Navigate to the User Attribute Assignment page of the attribute you want to unassign. See "To View User Assignments for an Attribute" on page 304.
2. Click the **Delete (X)** button next to the user you want to unassign the attribute from.

To View Organization Assignments for an Attribute

1. Navigate to the Attribute Detail page of the attribute for which you want to view the organizations it has been assigned to.
2. Click the **Organization Assignment** tab.

The Organization Attribute Assignment page displays.

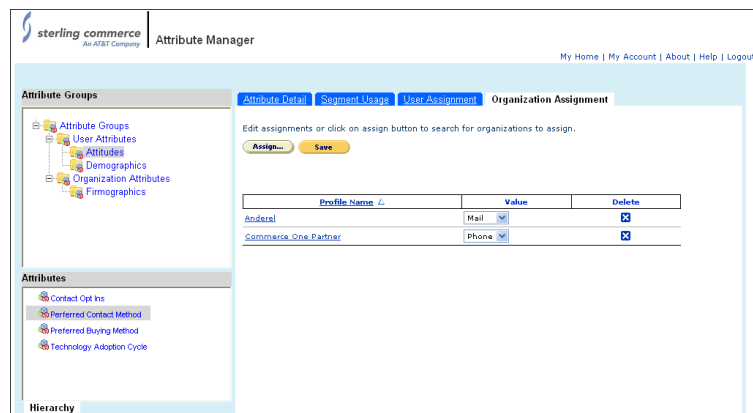


FIGURE 184. Organization Attribute Assignment Page

You can use the Organization Attribute Assignment page to perform one or more of the following tasks:

- To assign an attribute to one or more organizations.
See "To Assign an Attribute to an Organization" on page 309.
- To modify the values of an attribute assigned to organizations.
See "To Modify the Values of an Attribute Assigned to an Organization" on page 310.

- To unassign an attribute from an organization.

See "To Unassign an Attribute from an Organization" on page 311.

To Assign an Attribute to an Organization

You can assign attributes to an organization during the organization's creation or profile maintenance. The steps in this task describe how to assign an attribute to an organization from the Organization Attribute Assignment page (See "To View Organization Assignments for an Attribute" on page 308).

1. Navigate to the Organization Attribute Assignment page of the attribute you want to assign to an organization.
2. Click the **Assign...** button.

An **Organization Picker** displays.

The screenshot shows a 'Select Organization' dialog box. It features a search bar with the label 'Organization:' and a blue 'Search' button. Below the search bar is a 'Show All' link. The main area of the dialog is labeled 'Search Result' and currently displays 'No Entry Found'. At the bottom, there are three buttons: 'Delete' (yellow), 'Done' (yellow), and 'Cancel' (yellow).

FIGURE 185. Organization Picker

3. Search for the organization you want to assign the attribute to by entering the name of the organization and clicking **Search**, or click **Show All** to view the list of all organizations.

4. Select the organization(s) you want to assign the attribute to and click **Done** to assign the attribute to the organization(s), or click **Delete** to unassign the attribute from the organization(s).

The Organization Attribute Assignment page re-displays with the list of organization(s) you have just selected.

Profile Name	Value	Delete
CompCom	<input type="text" value="M"/>	<input checked="" type="checkbox"/>
DataSolve	<input type="text" value="M"/>	<input checked="" type="checkbox"/>

FIGURE 186. Organization Attribute Assignment Page: Assignments

5. Enter or select a value from the drop-down list in the **Value** column next to the organization.

Note: The drop-down list in the Value column appears only if there are allowed values defined for the attribute. See "To Define Allowed Values for an Attribute" on page 302.

6. Click the **Delete (X)** button next to the organization to unassign the attribute from the organization.
7. Click **Save**.

The Organization Attribute Assignment page re-displays with the complete list of organization(s) the attribute is assigned to.

To Modify the Values of an Attribute Assigned to an Organization

1. Navigate to the Partner Attribute Assignment page of the attribute for which you want to modify the values. See "To View User Assignments for an Attribute" on page 304.

2. Enter an appropriate value for the attribute or select a value from the drop-down list in the **Value** column next to the user.
3. Click **Save**.

To Unassign an Attribute from an Organization

1. Navigate to the Partner Attribute Assignment page of the attribute for which you want to modify the values. See "To View User Assignments for an Attribute" on page 304.
2. Click the **Delete (X)** button next to the organization you want to unassign the attribute from.
3. Click **Save**.

To View Attribute Usage

You can view the segments where an attribute is used.

1. Navigate to the Attribute Detail page of the attribute for which you want to view the segments where it is used.
2. Click the **Segment Usage** tab.

The Segment Usage tab of the Attribute Manager page displays showing the list of segments where the attribute is used.

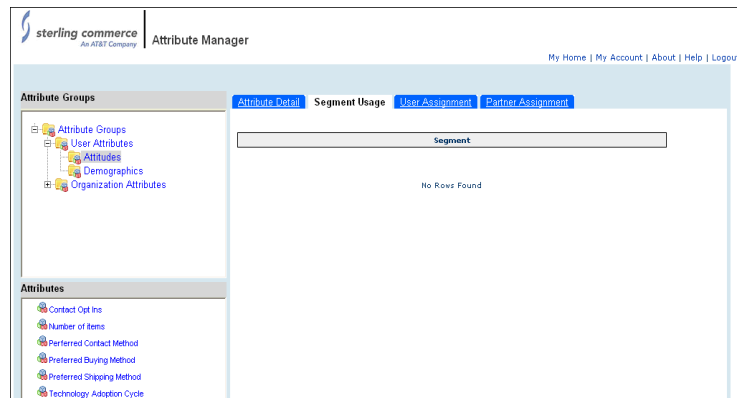


FIGURE 187. Attribute Manager Page: Segment Usage Tab

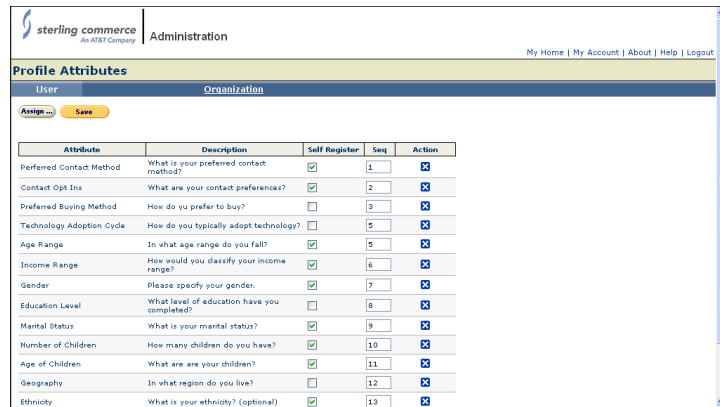
User/Organization Profile Attribute Administration Tasks

This section contains the tasks related to management of profile attributes for a user or organization.

To Access the User or Organization Profile Attributes List Page

1. Click **User/Organization Profile Attributes** in the User/Profile Attribute Administration panel on the Sterling Multi-Channel Selling Solution home page.

The User/Organization Profile Attributes List page displays with two tabs: one called User where you can specify which attributes should be available for assignment to a user during registration and profile maintenance, and the other called Organization where you can specify which attributes should be available for assignment to an organization during its creation or profile maintenance.



Attribute	Description	Self Register	Seq	Action
Preferred Contact Method	What is your preferred contact method?	<input checked="" type="checkbox"/>	1	✕
Contact Opt In	What are your contact preferences?	<input checked="" type="checkbox"/>	2	✕
Preferred Buying Method	How do you prefer to buy?	<input type="checkbox"/>	3	✕
Technology Adoption Cycle	How do you typically adopt technology?	<input type="checkbox"/>	5	✕
Age Range	In what age range do you fall?	<input checked="" type="checkbox"/>	5	✕
Income Range	How would you classify your income range?	<input checked="" type="checkbox"/>	6	✕
Gender	Please specify your gender.	<input checked="" type="checkbox"/>	7	✕
Education Level	What level of education have you completed?	<input type="checkbox"/>	8	✕
Marital Status	What is your marital status?	<input checked="" type="checkbox"/>	9	✕
Number of Children	How many children do you have?	<input checked="" type="checkbox"/>	10	✕
Age of Children	What are your children?	<input checked="" type="checkbox"/>	11	✕
Geography	In what region do you live?	<input type="checkbox"/>	12	✕
Ethnicity	What is your ethnicity? (optional)	<input checked="" type="checkbox"/>	13	✕

FIGURE 188. User/Organization Profile Attributes List Page

To Add an Attribute to User or Organization Profile Attributes List

1. Navigate to the User/Organization Profile Attributes List page. See "To Access the User or Organization Profile Attributes List Page" on page 312.
2. You can add more attributes to the list of user or organization profile attributes.

3. Click **Assign...** from the User tab to add more user profile attributes or the Organization tab to add more organization profile attributes.

An **Attribute Picker** displays.

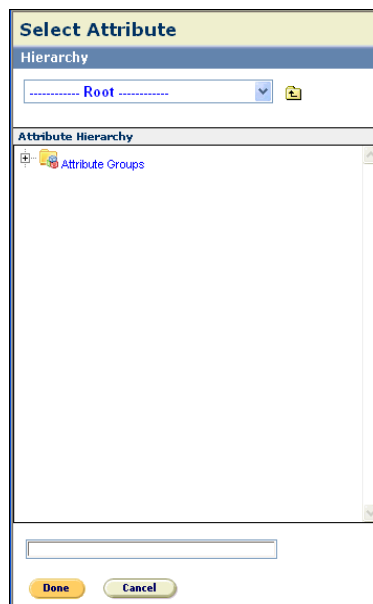


FIGURE 189. Attribute Picker

4. Browse the attribute hierarchy and select the destination attribute.
5. Click **Done**.

The attribute displays in the list of user or profile attributes.

To Delete an Attribute from User or Organization Profile Attributes List

1. Navigate to the User/Organization Profile Attributes List page. See "To Access the User or Organization Profile Attributes List Page" on page 312.
2. Click **Delete (X)** in the Actions column next to the attribute that you wish to delete.

The attribute is deleted from the Profile Attributes list.

To Specify Attribute Availability for Assignment to User

You can specify which attributes should be available for assignment during a user's registration.

1. Navigate to the User Profile Attributes List page. See "To Access the User or Organization Profile Attributes List Page" on page 312.
2. Check the check box in the **Self Register** column next to the attribute you want to make available to the user for assignment during the user's registration.
3. In the **Seq** column, enter a number for each of the attributes to indicate the order in which they should be displayed to the user.
4. Click **Save**.

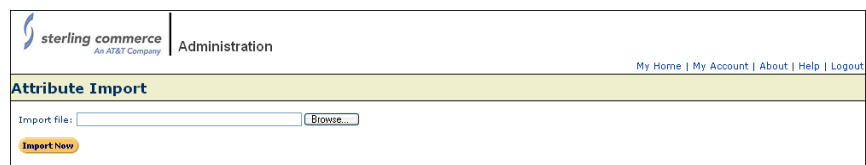
Importing and Exporting Attributes

You can import or export attributes and attribute groups so that you can review them or make modifications offline. You can export attributes and attribute groups in the form of an XML file to a specified location on your machine. You can then import the updated attributes or attribute groups later into the Sterling Multi-Channel Selling Solution.

To Import an Attribute

1. Click **Import Attributes** in the User/Profile Attribute Administration panel on the Sterling Multi-Channel Selling Solution home page.

The Attribute Import page displays.



The screenshot shows the 'Attribute Import' page. At the top, there is a header with the 'sterling commerce' logo and 'Administration' text. Below the header, there is a navigation bar with links: 'My Home | My Account | About | Help | Logout'. The main content area has a yellow header with the text 'Attribute Import'. Below this, there is a form with a label 'Import file:' followed by a text input field and a 'Browse...' button. At the bottom of the form, there is an 'Import Now' button.

FIGURE 190. Attribute Import Page

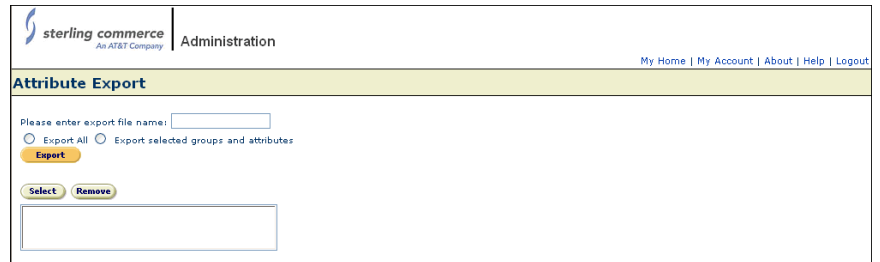
2. Enter the file name of the file that contains the attributes and attribute groups that you wish to import or click the **Browse...** button to search for the file, and click **Import Now**.

Once the import is completed, the import summary displays.

To Export an Attribute

1. Click **Export Attributes** in the User/Profile Attribute Administration panel on the Sterling Multi-Channel Selling Solution home page.

The Attribute Export page displays.



The screenshot shows the 'Attribute Export' page within the Sterling Commerce Administration interface. The page has a header with the Sterling Commerce logo and 'Administration' text. A navigation bar includes links for 'My Home', 'My Account', 'About', 'Help', and 'Logout'. The main content area is titled 'Attribute Export' and contains a form with the following elements: a text input field for 'Please enter export file name:', two radio buttons for 'Export All' and 'Export selected groups and attributes', an 'Export' button, and a list box with 'Select' and 'Remove' buttons above it.

FIGURE 191. Attribute Export Page

2. Enter the name of the export file.
3. Click the **Export All** radio button if you wish to export all attributes and attribute groups.
4. Click the **Export selected groups and attributes** radio button if you wish to export only the selected groups and attributes.

You can either select an attribute or attribute group to export or remove the selected attributes or attribute groups that are displayed in the list box.

- a. To select an attribute or attribute group, click **Select**.

An **Attribute Picker** displays.

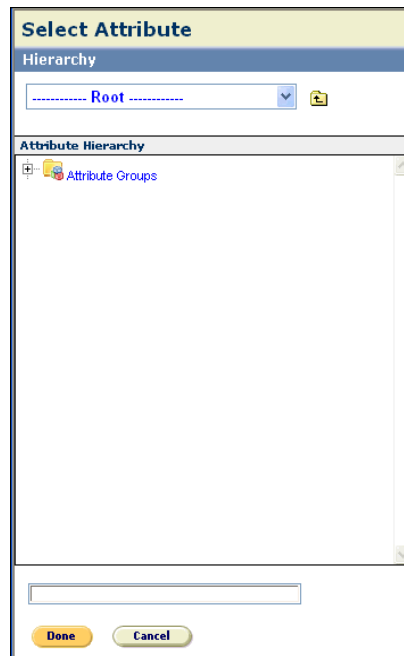


FIGURE 192. Attribute Picker

- Browse the attribute hierarchy until you find the destination attribute or attribute group.
- Select the destination attribute or attribute group.
- Click **Done**.

The selected attribute or attribute group appears in the list of selected attributes and attribute groups in the list box.

- b. To remove an attribute or attribute group, select the attribute or attribute group from the list, and click **Remove**.

The selected attributes and attribute groups disappear from the list box.

5. Click **Export**.

The export creates an XML file which you can save in a directory on your local machine.

Example

This section describes an example of how to define user and organization attributes.

Defining User/Organization Attributes

Attributes are assigned to users and/or organizations for the purpose of grouping them into segments so they can be targeted for specific marketing activities. For example, users with an annual income of \$50,000-\$75,000 who are married and have 1-2 children can be grouped together and targeted for a particular marketing activity.

In the above example, the user attributes are:

- Income level
- Marital status
- Number of children

You define allowed values for the attributes and assign them to users or organizations. In the above example, the values assigned to the attributes are:

- \$50,000-\$75,000
- Married
- 1-2

In this example, the general steps to define the user attributes are:

- Create an attribute group called User Attributes. See "To Create an Attribute Group" on page 297.
- Create the following attributes under the attribute group just created:
 - Income level
 - Marital status
 - Number of children

See "To Create an Attribute" on page 299.

- Define the following values for the attributes:
 - Income level: \$50,000-\$75,000
 - Marital Status: Married

- Number of children: 1-2

See "To Define Allowed Values for an Attribute" on page 302.

- Assign the attributes to the appropriate user. See "To Assign an Attribute to a User" on page 305.

This chapter describes the administration and management of customer segments. Segments are storefront-specific groups of users or organizations that share certain attributes or behaviors. Segment definition enables you to target marketing activities directly to the users who are most likely to be interested in the products or promotions, and to assign special prices or coupons to products offered in segment marketing campaigns.

See "Customer Segmentation Management" on page 54 for an overview of market segmentation in the Sterling Multi-Channel Selling Solution.

User attributes must be defined before you can define segments. See CHAPTER 10, "User Attributes Administration" for information about creating and managing user attributes.

For information about using segments with specific activities, see:

- CHAPTER 20, "Advanced Pricing Administration" for information about associating customer segments with pricing rules and coupons.
- CHAPTER 22, "Sterling Promotions Administration" for information about associating customer segments with promotional activities.
- CHAPTER 31, "Sterling Campaigns" for information about using customer segments to create mailing lists.

This chapter covers the following topics:

- "Overview" on page 322
 - "Types of Segments" on page 322
 - "Segment Lifecycle" on page 322
 - "Segment Criteria" on page 323
 - "Segment Definition Process" on page 324
 - "Segment Calculation Scripts" on page 325
 - "Segment Activation" on page 325
 - "Segmentation Cron Job Operations Administration" on page 326
- "Segment Administration" on page 326
 - "Segment Management" on page 327
 - "To Create A Segment" on page 329
 - "To Enter Regular Segment Criteria" on page 330
 - "To Enter Behavioral/Historical Segment (BHS) Criteria" on page 337
 - "To Create An Upload Segment" on page 338
 - "To Calculate Segment Membership" on page 339
 - "To Publish A Segment" on page 340
 - "To Set or Update Membership Calculation Frequency" on page 341
 - "To Update A Segment Header" on page 341
 - "To Update an Upload Segment" on page 342
 - "To Copy A Segment" on page 343
 - "To Check Where A Segment Is Used" on page 343
 - "To Delete A Segment" on page 344
 - "To Import A Segment" on page 345
 - "To Export A Segment" on page 346
 - "Segment Cron Job Management" on page 346
 - "To Review the Segment Build Status" on page 348
 - "To Search For Failed Segments" on page 348

-
- "To Mark Segments As Inactive" on page 348
 - "To Re-run the Segment Build" on page 349

Terminology

The following terminology applies to customer segments:

- Customer segment: a group of users or organizations that meet a specified set of criteria.

To define a segment, segment administrators either:

- associate a set of criteria with the segment, then determine which users meet the criteria, or
- upload the list of users who are members of the segment.

You attach segment definitions to marketing activities to ensure that the activities reach users who are most likely to be interested in a particular promotion or campaign.

- Segment criterion: a criterion that you associate with a segment to define the membership of that segment.
- Regular segment: a segment built from user attribute criteria such as income level, gender, and zip code, and that can include other segments as part of its definition. You use logical operators to combine the various criteria and segments.
- Behavioral/historical calculation (BHC): A specialized criterion based on user behaviors and historical data, such as viewing a specified product within a specified timeframe, or on purchase history, such as ordering a specified product within a specified timeframe.
- Behavioral/historical segment (BHS): a segment containing a BHC. To combine a BHC with other criteria or segments, you place the BHC in a segment of its own, and then combine that segment with other types of criteria or segments.
- Upload segment: A segment that you define by uploading users directly, rather than by specifying criteria.

Overview

A segment is a group of consumer users or users who are members of customer/partner organizations that meet a specific set of criteria. The criteria can be any or all of the following:

- Profile data
- Attributes such as age bracket and income level
- Behavioral and historical criteria such as the products browsed during a specified time period

Storefront administrators with the segment administrator role can combine segments to create complex segment definitions, import and export segments, manage the frequency with which segments are processed and published, and manage the segment lifecycle. Storefront administrators with the marketing manager - campaigns user function can attach segments to marketing activities such as promotions, pricing rules, coupons, and email campaigns. The enterprise administrator controls and manages the process that automatically regenerates and publishes segments.

Types of Segments

The following are the types of segments you can define:

- Regular segment: a composite segment that can include attributes, fields from user and/or organization profiles, and other segments, separated by logical operators. Regular segment is the default segment type.
- Upload segment: a segment defined by uploading a list of users.
- Behavioral segment: a segment defined by a behavioral/historical calculation (BHC). A behavioral segment is defined by one behavioral criterion, but you can combine several behavioral segments in a regular segment to create complex definitions.

Segment Lifecycle

Segments can be in one of the following states:

- In Creation: the initial segment state is In Creation. You can modify In Creation segments and calculate their membership, but you cannot attach them to marketing activities or publish them for general use. You can delete segments while they are in the In Creation state.

- **Active:** segments in the Active state are ready for production. They can be attached to marketing activities and published for general use. You cannot delete active segments: this prevents accidental negative affects to your marketing activities or losing your work. You cannot modify the criteria for segments in the Active state. When Active segments expire, they automatically move to the End of Life state.
- **Inactive:** segments in the Inactive state can be modified and you can calculate segment membership on-demand to test membership results. While segments are inactive, membership evaluation is disabled and they cannot be published. You can attach Inactive segments to marketing activities, but the members of those segments are not included in the marketing activities until the segment status is set to Active or Obsolete. You cannot delete Inactive segments: this prevents accidental negative affects to your marketing activities or losing your work. When Inactive segments expire, they automatically move to the End of Life state.
- **Obsolete:** segments in the Obsolete state are being phased out. The system continues to evaluate the membership of Obsolete segments, but they cannot be attached to new marketing activities and you cannot change their criteria. When obsolete segments expire, they automatically move to the End of Life state.
- **End of Life:** segments in the End of Life state can be copied and their membership lists exported, but they are otherwise unusable. You can delete segments when they are in the End of Life state.

The system sets the In Creation and End of Life states. As segment administrator, you determine when a segment becomes Active, Inactive, or Obsolete. To move a segment from Active, Inactive, or Obsolete to End of Life, set the expiration date of the segment to today or earlier. The system then sets the status of that segment to End of Life, and you can delete it.

Segment Criteria

To define a segment, you specify the criteria required for segment membership. Criteria can be inclusive or exclusive. Inclusive criteria includes users who have the specified criteria. Exclusive criteria excludes users who have the specified criteria. You can enter criteria only if the segment status is In Creation or Inactive.

If you plan to specify exclusive criteria, you must also specify inclusive criteria. If you specify only exclusive criteria, no users will be selected.

The types of segment criteria are:

- Fields from user and organization profiles, such as job title or partner level
- User and organization attributes
- User and organization purchase history
- Behavioral and historical information tracked during user sessions
- Other regular segments
- A combination of any or all criteria types

You can combine segment criteria to define complex market segments. Logical operators define the relationships among the specified criteria. For example, you can define a segment as follows:

- Users who abandoned a cart containing a desktop in the last month, AND
- Users who have not purchased an accessory in the last two weeks, AND
- Users who are over 30, AND
- Users who make over \$60,000 a year

Segment Definition Process

One way to begin defining a segment is to state the characteristics, or attributes, of the users you want (or do not want) to include in a segment, for example, in a sentence. You can then specify criteria based on the attributes in your statement.

For example, suppose that you want to target a marketing activity to users who are 40 or older with incomes of \$50,000 or more and who live in California. The user attributes are:

- Age
- Income
- State

Your segment criteria specify the values the attributes must have, and the relationships among them. In this example, the values the attributes must have are as follows:

- Age ≥ 40
- Income $\geq \$50,000$
- State = California

Each attribute-value statement is a criterion.

You want to include only those users who share all these criteria, so the relationships among the criteria are as follows:

- Age \geq 40 AND
- Income \geq \$50,000 AND
- State = California

These criteria are all user attributes: none involve behavior tracked during user sessions such as products browsed, or historical information such as when the user browsed the products. Since there are no behavioral or historical criteria, you define this segment as a regular segment.

You enter criteria one at a time. You can enter an unlimited number of criteria.

Segment Calculation Scripts

After you enter criteria to define a segment, segment calculation scripts calculate segment membership. The Sterling Multi-Channel Selling Solution provides a number of segment calculation scripts out-of-the-box that enable you to easily enter criteria and process calculations. Your Sterling Multi-Channel Selling Solution implementers may provide custom segment calculation scripts as well. Since these pre-scripted segment calculations use behavioral or historic information, they are called behavioral/historic calculations or BHC's.

BHC's are organized into groups to make it easy to find and use them. For example, all BHCs that use orders-related criteria to calculate membership are in the Orders group. To use the User Orders BHC, you choose the Orders group, then User Orders. You then specify criteria appropriate to the User Orders BHC.

See the *Sterling Multi-Channel Selling Solution Implementation Guide* for information about creating custom BHC's.

The Sterling Multi-Channel Selling Solution calculates segment membership based upon the specified criteria. Since processing the calculation can be resource-intensive, processing is generally done in batch mode when system activity is low.

Segment Activation

After segment calculation completes, you attach the segment to one or more marketing activities. You can then activate the segment by publishing the results to the production system. You can publish results on demand, or publish results automatically using business rules and cron jobs.

Segmentation Cron Job Operations Administration

Sterling Multi-Channel Selling Solution provides the following segmentation cron jobs:

- Reprocess Segments: recalculates segment membership
- Nightly Segments Build: builds all segments

Ensure that the Reprocess Segments cron job runs first, followed by the Nightly Segments Build cron job. This ensures that segment membership is current. See "Segment Cron Job Management" on page 346 for information about how to set up the segment cron jobs.

System administrators who are responsible for managing the segmentation cron jobs perform the following tasks:

- Review the status of the reprocess segments and nightly segment build cron jobs.
If the segment build was successful, no further action is required.
- If the segment build cron job failed:
 - Search for failed segments using the advanced search by build status in the segment list
 - Fix the failed segments or mark them as inactive
 - Re-run the nightly build cron job (can be manually initiated after the segments are fixed)
 - Confirm that the build ran successfully

If you do not re-run the Reprocess Segments and then the Nightly Segments Build cron jobs, the system continues to use the previously published build. Your activities that depend on segments will continue to run, but they will use members of the segments as defined when the segment was last successfully published so your information could be out of date.

See "Segment Cron Job Management" on page 346 for information about monitoring and troubleshooting segmentation cron jobs. See CHAPTER 40, "Job Scheduling Administration" for more information about the segmentation cron jobs.

Segment Administration

There are the following types of segment administration:

- Segment Management: requires the Marketing Manager- Segmentation role
- Segment Cron Job Management: performed by system administrators

Segment Management

You manage segments from the Segment Administration page, available in the Segmentation Panel on the home page.

The screenshot shows the Sterling Commerce Administration interface. The top navigation bar includes the Sterling Commerce logo, the word "Administration", and links for "My Home", "My Account", "About", "Help", and "Logout". A welcome message "Welcome Alison Jones" is displayed. The main content area is divided into several panels:

- Commerce Activity:** A list of links including "Opportunity & Proposal Activity", "Customer Account Activity", "Task Management", "Payment History", "Find someone else's wishlist", and "Find someone else's registry".
- Product and Catalog Administration:** A list of links including "Product Master", "Configuration Models", "Advisor Flows & Questionnaires", and "Product Entitlements".
- Pricing Administration:** A list of links including "Price Lists", "Pricing Rules", "Promotions", and "Coupons & Promotional Prices".
- Segmentation Administration:** A list of links including "Segmentation Management", "Import Segmentation", and "Export Segmentation".
- User/Profile Attribute Administration:** A list of links including "Attribute Management", "Import Attributes", "Export Attributes", and "User/Organization Profile Attributes".
- Channel Management:** A list of links including "Organization Lookup", "Campaigns", "Partner Programs", "Partner Program Preapprovals & Claims", and "Mailing Lists".

On the right side of the interface, there are two search sections:

- Search for Organization by Name:** Includes a "Profile Name" input field, a "Go" button, and an "Advanced Search" link.
- Search for User by Name:** Includes input fields for "Username", "First Name", and "Last Name", a "Go" button, and an "Advanced Search" link.

Below the search sections, there are two task lists:

- My Tasks:** A table with columns "Task ID", "Name", "Last Modified", and "Status". It contains a "More" link and an "Advanced Search" link.
- Team's Tasks:** A table with columns "Task ID", "Name", "Last Modified", and "Status". It contains a "More" link and an "Advanced Search" link.

FIGURE 193. Segmentation Administration Panel

Note that if you do not have the Marketing Manager - Segmentation role, you will not see the Segment Administration panel.

To access the Segment Administration page, click the Segment Management link in the Segment Administration panel on the home page: The Customer Segmentation List page displays a list of segments, similar to the following figure.

sterling commerce
An IBM Company

Administration

My Home | My Account | About | Help | Logout

Customer Segmentation List:

Find:

Name Search Show All

Note: To create a new segment, press new. To view or edit an existing segment, click on the segment name. To delete, select the checkbox next to the segments you want to remove and press "Delete". Only segments that are "In Creation" or "End State" can be deleted. To end the life of a segment, you must set the expiration date to today or earlier and then change it to obsolete status.

New Delete

<input type="checkbox"/>	Name	Description	Type	Status	Start Date	End Date	Last Modified Date	Last Processed Date	Last Published Date
<input type="checkbox"/>	test	test	Regular	In Creation	11/21/2007	1/1/2008	11/14/2007		

[Back to Top](#)

FIGURE 194. Customer Segmentation List Page

Storefront administrators with the segment administrator role perform the following tasks to manage segments:

- Create segments. See "To Create A Segment" on page 329.
- Enter regular segment criteria. See "To Enter Regular Segment Criteria" on page 330.
- Enter BHS criteria. See "To Enter Behavioral/Historical Segment (BHS) Criteria" on page 337.
- Enter upload segment criteria: upload lists of users to define segment membership. See "To Create An Upload Segment" on page 338.
- Process segments and examine segment membership to check the results. See "To Calculate Segment Membership" on page 339.
- Determine how often to refresh segment membership. See "To Set or Update Membership Calculation Frequency" on page 341
- Update segment status. See "To Update A Segment Header" on page 341.
- Copy segments. See "To Copy A Segment" on page 343
- Check segment usage. See "To Check Where A Segment Is Used" on page 343.
- Delete segments. See "To Delete A Segment" on page 344.
- Manage segment configuration options such as the number of users to show in the segment processing results.
- Combine segments to create composite segments. See "To Enter Regular Segment Criteria" on page 330.

- Publish a segment to a production system. See "To Publish A Segment" on page 340.
- Import segments. See "To Import A Segment" on page 345.
- Export segments. See "To Export A Segment" on page 346.

To Create A Segment

1. On the Customer Segmentation List page, click **New**. The Segment Header page displays, similar to the following figure.

The screenshot shows the 'Customer Segmentation: New' page in the Sterling Commerce Administration interface. The page has a header with the Sterling Commerce logo and 'Administration' text. Below the header, there's a 'New' button and 'Create' and 'Cancel' buttons. A note explains the process of creating a segment. The main form is titled 'General Information' and contains the following fields:

- Name ***: A text input field.
- Description**: A text input field.
- Start Date (M/D/YY) ***: A date picker showing the current date.
- End Date (M/D/YY) ***: A date picker.
- Segment Status**: A dropdown menu with 'In Creation' selected.
- Segment Type**: A dropdown menu with 'Regular' selected.

FIGURE 195. Segment Header Page

2. Enter the segment header information:
 - Name (required). Names must be unique within the storefront.
 - Description (optional).
 - Start date (required). Default is the current date.
 - End date (required). Must be greater than the current date.
 - Segment Status (set automatically). The system sets the segment's initial status to In Creation.
 - Segment Type (required). Possible types are:
 - Regular
 - Upload

- Behavioral

Regular segment is the default segment type.

3. Click **Create** to create the new segment. The Segment Detail page displays with the name of the new segment, similar to the following figure.

sterling commerce
An HDS Company

Administration

My Home | My Account | About | Help | Logout

Customer Segmentation: Gearheads [Go to List](#)

Header Criteria Membership

Save Copy Usage

Note: To change the segment header information, make your changes and press save. To copy this segment to a new one, press "Copy". If you want to see which segments and marketing activities use this segment, press "Usage".

To define how members are selected for this segment, go to the "Criteria" tab. To identify, test, and view the members of this segment, go to the "Membership" tab.

General Information

Name *
Gearheads

Description
Gearheads

Start Date (M/D/YY) *
11/14/07

End Date (M/D/YY) *
1/14/08

Segment Status
In Creation

Segment Type
Regular


FIGURE 196. Segment Detail Page

If the segment type is Regular or Behavioral, the **Criteria** and **Membership** tabs display. If the segment type is Upload, only the **Membership** tab displays.

4. To enter criteria for Regular or Behavioral segments, click the **Criteria** tab. See "To Enter Regular Segment Criteria" on page 330 to learn how to enter regular segment criteria. See "To Enter Behavioral/Historical Segment (BHS) Criteria" on page 337 to learn how to enter BHS criteria.
5. To calculate segment membership, click the **Membership** tab. See "To Calculate Segment Membership" on page 339.

To Enter Regular Segment Criteria

1. Click the **Criteria** tab of the Segment Detail page. The Regular Segment Criteria page displays, similar to the following figure.



Administration

[My Home](#) | [My Account](#) | [About](#) | [Help](#) | [Logout](#)

Customer Segmentation: All consumers with college degrees

Header

Criteria

Membership

Go to List

Save

Note: This tab allows you to define the criteria by which users are included in or excluded from a segment. You must have inclusions before you can have exclusions.

To add attributes or profile fields, select the desired criterion type from the drop down and press "New". This will take you to a new screen where you can define the attributes and fields. You can return to this screen once you have finished. To add a segment criterion, select the desired criterion type from the drop down and press "New". This will bring up a pop-up picker that allows you to select the segments and add them directly to this screen. To use a behavior, you must first have a behavioral segment defined for the desired behavior. If you haven't defined one, you can define one quickly from here by selecting "New Behavioral Segment" from the drop down list.

Include users who have

Include users who have* ☒ All of these ☐ Any of these

User Attribute

New

Criterion Type	Description	Action
User Attribute	Education Level = College	
Segment	All Consumers: Active, 1/1/2007, 12/31/2020	

Exclude users who have

Exclude users who have* ☒ All of these ☐ Any of these

User Attribute

New

Criterion Type	Description	Action
----------------	-------------	--------

FIGURE 197. Regular Segment Criteria Page

The page consists of two panels:

- Include users who have: define a segment by including users who have the specified criteria. Choose All of these to include users who have all of the specified criteria. Choose Any of these to include users who have one or more of the specified criteria.
 - Exclude users who have: define a segment by excluding users who have the specified criteria. Choose All of these to exclude users who have all of the specified criteria. Choose Any of these to exclude users who have one or more of the specified criteria.
2. Choose the criterion type from the Criterion Type drop-down list. Criterion types include:
 - User Attribute
 - Organization Attribute
 - User Profile Field
 - Organization Profile Field
 - New Behavioral Segment

- Segment

You can add one or more criteria of each type. You can create complex segments by adding other Regular segments and/or Behavioral/Historical Segments to the current Regular segment.

3. To add User Attribute criteria:
 - a. Choose User Attribute from the Criterion Type drop-down list, and click **New**.

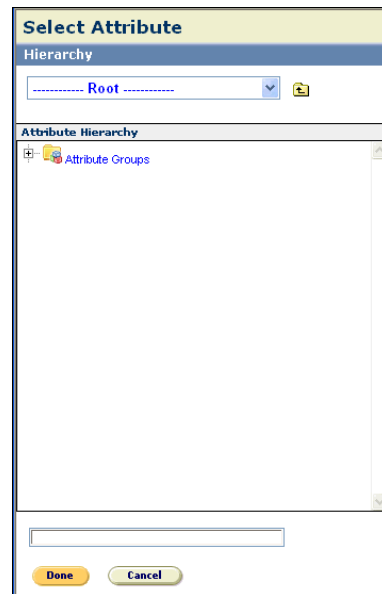
The Add Criteria page displays, similar to the following figure.

The screenshot shows the 'Add Criteria: User Attribute' page. At the top, there's a header with the Sterling Commerce logo and 'Administration' text. Below this is a navigation bar with 'Header', 'Criteria', and 'Membership' tabs. The 'Criteria' tab is active. The main content area has a title 'Customer Segmentation: Gearheads' and a 'Go to List' link. Below the title, there's a 'Note' explaining how to add attributes. At the bottom, there's a table with three columns: 'Attribute Name', 'Operator', and 'Value'. The 'Attribute Name' column has a 'Select' button. The 'Operator' column has a dropdown menu. The 'Value' column has a text input field.

Attribute Name	Operator	Value
<input type="text" value="Select"/>	<input type="text" value=""/>	<input type="text" value=""/>

FIGURE 198. Add Criteria: User Attribute

- b. Click **Select**. An Attribute Picker pop-up displays, similar to the following figure.

**FIGURE 199. Attribute Picker**

- c. Choose the attribute from the Attribute Picker, then click **Done**.
The system fills in the Criteria page attribute fields based on the picked attribute.
 - d. Enter the desired values or choose allowed values from a drop-down list.
 - e. Choose an operator from the Operator drop-down list.
 - f. Click **Add** to add the criterion to the Regular segment.
4. To add Segment criteria:
 - a. Choose Segment from the Criterion Type drop-down list, and click **New**.
A Segment Picker pop-up displays, similar to the following figure.

Select Segment

Search

Search By: **Segment Name** ▼

Search Criteria: **Search**

Search Result

Page 1 next >>

- ◆ All Anonymous Shoppers
- ◆ All Business Customers / Partners
- ◆ All Consumers
- ◆ All Customers/Partners
- ◆ All Distributors
- ◆ All Gold Customers/Partners
- ◆ All OEMs
- ◆ All Partners Selling to the High Tech Vertical
- ◆ All Platinum Customers/Partners

Delete

Done **Cancel**

FIGURE 200. Segment Picker Pop-Up

- b. Choose the segment from the Segment Picker, then click **Done**.
5. To add User Profile or Organization Profile Field criteria:
 - a. Choose User Profile Field or Organization Profile Field from the Criterion Type drop-down list, and click **New**.

The Add Criteria page displays, similar to the following figure.

sterling commerce
An AT&T Company

Administration

My Home | My Account | About | Help | Logout

Customer Segmentation: Gearheads

[Go to List](#)

Header Criteria Membership

Add **Cancel**

Note: To add a profile field, choose the field from the "Field Name" drop-down box. After selecting the desired field, the allowed values will be shown in the value field. You can select one value. If you want to include multiple values for this field, add the same field to your segment multiple times, once for each value. You can abandon the addition of fields and return to your segment by pressing "Cancel".

Field Name

Field Name	Operator	Value
Profile type	=	Enterprise

FIGURE 201. Add Criteria: User/Organization Profile Field

- b. Choose a Field Name from the drop-down list.
 - c. Choose an allowed value from the drop-down list.
 - d. Choose an operator from the Operator drop-down list.
 - e. Click **Add** to add the criterion to the Regular segment.
6. To add Behavioral-Historical Criteria (BHC's):

You cannot add behavioral criteria to a Regular segment directly. You include behavioral criteria by adding a Behavioral-Historical Segment (BHS).

 - a. Choose New Behavioral Segment from the Criterion Type drop-down list, and click **New**.

The New Behavioral Segment page displays, similar to the following figure.

sterling commerce
An AT&T Company

Administration

My Home | My Account | About | Help | Logout

Customer Segmentation: Gearheads

Header Criteria Membership

Create Cancel

Note: This screen allows you to create a new behavioral segment from within a regular segment. If the behavioral segment you want to use already exists, press cancel, and include it in your criteria as you would any other segment.

If you want to create a new behavioral segment, first select the behavior group you would like, and then select the behavior. Next, the allowed inputs for the behavior will appear. You must define the input values and the time frame in which you would like to look for the behavior. Both relative and absolute timeframes are allowed.

Once you have finished defining the criteria, you must go to the "Membership" tab to process and publish this segment before its members are available to the regular segment. You must process and publish this new behavioral segment separately. Processing and publishing the regular segment you are creating will not process and publish this new behavioral segment.

General Information

Name *

Description

Start Date (M/D/YYYY) *

End Date (M/D/YYYY) *

Segment Status

In Creation

Segment Type

Behavioral

Behavioral Criteria Information

Behavior Group

Behavioral Criterion

FIGURE 202. New Behavioral Segment Page

- b. Enter the BHS header information in the General Info panel.
- c. Use the drop-down lists in the Behavioral Criteria Information panel to choose the BHC to add.

The BHC Input panel displays. The information you see in the BHC Input panel depends on the contents of the BHC.

- d. Enter the BHC information in the BHC Input panel.
 - e. Click **Create** to save the BHC as a BHS and add it to the Regular segment criteria. The page redisplay with the name of the new behavior segment that you just created.
7. Click **Save** to save the new Regular Segment when you finish entering criteria.

You can now calculate the membership for the new Regular segment and view the membership list. See "To Calculate Segment Membership" on page 339 for more information.

Note that you cannot perform on-demand membership calculation for behavioral segments. The two cron jobs Reprocess Segments and Nightly Segments Build must be executed to enable you to see new information in behavioral segments. When you process regular segments that include behavioral segments, the membership information is not up to date until the cron jobs run.

To Enter Behavioral/Historical Segment (BHS) Criteria

1. Click the Criteria tab of the Segment Detail page. The Behavioral Segment Criteria page displays, similar to the following figure.

The screenshot shows the 'Customer Segmentation: Abandoned Carts Customers' page. The 'Criteria' tab is selected. A note explains that this tab allows defining criteria for segment membership based on user behaviors. Below the note, a section titled 'Behavioral Criteria Information' contains a 'Behavior Group' dropdown menu and a 'Behavioral Criterion' input field. A 'Save' button is located in the top right corner of the form area.

FIGURE 203. Behavioral Segment Criteria Page

2. Choose the Behavior Group from the drop-down list.
The available groups depend upon your implementation.
3. Choose the Behavioral Criterion (the name of the BHC) from the drop-down list. The list consists of BHCs that are classified as part of the behavior group that you chose in the previous step.
The BHC Input panel displays. The information you see in the BHC Input panel depends on the BHC definition.
4. Enter BHC criteria in the BHC Input panel.
5. Click **Save** to save the new BHS.

You cannot initiate behavioral segment membership calculation on demand. The two cron jobs Reprocess Segments and Nightly Segments Build must be executed to enable you to see new membership information in behavioral segments.

To Create An Upload Segment

You create upload segments by specifying an upload list file: a file containing the list of users and their related information. You then upload that file. The upload list file is expected to have the following format:

```
<First Name>,<Last Name>,<Email Address>
```

There are no spaces between the fields in the upload list file. Users in the upload list file must be users of your storefront.

For example, an upload list file could include the following entry for the user Brent Wells, whose email address is bwells@rmdsolutions.com:

```
Brent,Wells,bwells@rmdsolutions.com
```

1. On the Customer Segmentation List page, click **New**.

The Customer Segmentation Header page displays.

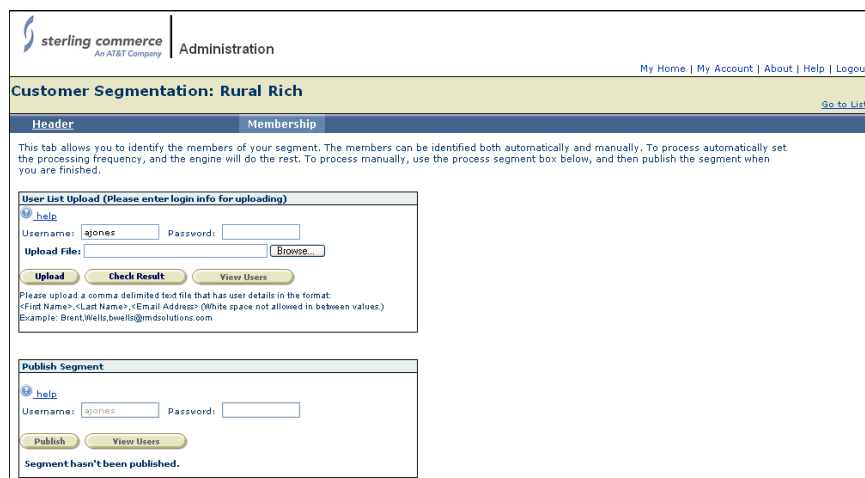
The screenshot shows the 'sterling commerce' Administration interface. The main heading is 'Customer Segmentation:'. Below it is a 'New' button and a 'Go to List' link. A 'Create' button and a 'Cancel' button are also visible. A note states: 'Note: To create your segment, enter the header information and press create. Once you create the segment, you will be able to define its criteria for membership.' Below the note, a paragraph explains the segment types: 'If you want to create a segment that combines attributes and other segments (including multiple behavioral segments), choose segment type "Regular". If you want to create a segment based on one behavior, choose segment type "Behavioral". If you want to upload a list of the segment members from a file, choose segment type "Upload". You cannot change the segment type once it is created, but you can change the other header information.' The form fields include: 'Name' (text input), 'Description' (text area), 'Start Date (M/D/YY)' (calendar icon), 'End Date (M/D/YY)' (calendar icon), 'Segment Status' (radio buttons for 'In Creation' and 'Active'), and 'Segment Type' (dropdown menu with 'Regular' selected).

FIGURE 204. Customer Segmentation Page

2. Enter the Upload Segment header information.
3. Choose Upload from the Segment Type drop-down list.
4. Click **Create**.

The Segment Detail page displays with the **Membership** tab.

5. Click the **Membership** tab. The **Membership** tab of the Segment Detail page displays, similar to the following figure.



sterling commerce
An AT&T Company

Administration

My Home | My Account | About | Help | Logout

Customer Segmentation: Rural Rich [Go to List](#)

Header **Membership**

This tab allows you to identify the members of your segment. The members can be identified both automatically and manually. To process automatically set the processing frequency, and the engine will do the rest. To process manually, use the process segment box below, and then publish the segment when you are finished.

User List Upload (Please enter login info for uploading)

[help](#)

Username: Password:

Upload File: [Browse...](#)

[Upload](#) [Check Result](#) [View Users](#)

Please upload a comma delimited text file that has user details in the format:
 <First Name>, <Last Name>, <Email Address> (White space not allowed in between values.)
 Example: Brent.Wells,bwells@midsolutions.com

Publish Segment

[help](#)

Username: Password:

[Publish](#) [View Users](#)

Segment hasn't been published.

FIGURE 205. Upload Segment: Membership Tab

6. In the User List Upload panel:
 - a. Enter your username and password.
 - b. Enter the name of the upload list file, or click **Browse...** to browse to the file location.
 - c. Click **Upload**.
 - d. When upload is complete, view the membership list by clicking **View Users**.
7. Assign the segment to a marketing activity. See CHAPTER 20, "Advanced Pricing Administration", CHAPTER 22, "Sterling Promotions Administration", or CHAPTER 31, "Sterling Campaigns" for more information.
8. In the Publish Segment panel, enter your username and password, then click **Publish** to publish the segment.

To Calculate Segment Membership

Set up segment membership calculation from the **Membership** tab of the Segment Detail page. To avoid performance issues, set up the calculation as a batch process that the system runs during off-peak hours.

The **Membership** tab is similar to the following figure.

sterling commerce
An AT&T Company | Administration

My Home | My Account | About | Help | Logout

Customer Segmentation: Gearheads [Go to List](#)

Header **Criteria** **Membership**

This tab allows you to identify the members of your segment. The members can be identified both automatically and manually. To process automatically set the processing frequency, and the engine will do the rest. To process manually, use the process segment box below, and then publish the segment when you are finished.

Processing Frequency

[help](#) [Save](#)

Process Start Date (M/D/YY) *
11/14/07

Process every *
1 Week(s)

Process Segment

[help](#)

Username: Password:

[Process](#) [Check Result](#) [View Users](#)

Processing result is not available.

Publish Segment

[help](#)

Username: Password:

[Publish](#) [View Users](#)

Segment hasn't been published.

FIGURE 206. Segment Detail Page: Membership Tab

From the **Membership** tab, you can set up the segment calculation frequency and start date. A cron job runs the segment calculation process. See CHAPTER 40, "Job Scheduling Administration", for details about setting up the segmentation cron jobs.

1. Click the **Process** button to start the calculation process immediately.
2. Click **Check Result** to see the results of the calculation.
3. To see the results of the calculation, click the **View Users** button. You can set the number of users to show using the Maximum number of segment members shown business rule. See CHAPTER 39, "Business Rules Administration", for more information.
4. If the calculation takes too long or there is an indication that the backend processing server crashed, click the **Reset Build Status** link to reset the status and try again.

See "Segment Cron Job Management" on page 346 for information about managing segmentation cron jobs.

To Publish A Segment

You publish segment membership calculation results from the segment's **Membership** tab. The **Publish** button becomes available after a segment is

assigned to one or more marketing activities. Click **Publish** to make the membership calculation results available to the production system.

To Set or Update Membership Calculation Frequency

Set the calculation process frequency for a segment from the Processing Frequency panel of the segment **Membership** tab. You specify that the calculation process should update at specific intervals, for example, every 2 days.

1. Enter the start date. The default is the current date.
2. Enter a numeric value in the text box. This value determines the update interval.
3. Choose an update type from the drop-down list. This value determines the interval type, for example, days. The default frequency is every week.
4. Click **Save**.

Update Segments

This section describes how to update existing segments.

To Update A Segment Header

Segment Administrators can update segment header information. The information you can update depends upon the segment's status. You can never change the segment type.

To update segment header information, click the name of the segment on the Customer Segmentation List page. The Segment Detail page displays.

The Segment Detail page includes **Save**, **Copy**, and **Usage** buttons:

- Use the **Save** button to replace the segment with the updated information.
- Use the **Copy** button to create a copy of the segment with the information you just updated.
- Use the **Usage** button to see where the segment is used, for example, to see the complex segment definitions that include this segment. This button displays only if the segment status is In Creation.

The following table shows the segment header fields and segment status that allows changes for each field. If segment status is different from the status listed, the header field is read-only.

TABLE 19. Segment Header Fields and Change Status

Header field	Okay to change when segment status is...
Name	In Creation, Active, Inactive
Description	In Creation, Active, Inactive
Start Date	In Creation, Inactive
End Date	In Creation, Inactive
Status	In Creation, Active, Inactive, Obsolete

The Update tabs that display depend upon the segment type:

- For regular or Behavioral segments, the **Criteria** and **Membership** tabs display.
- For Upload segments, only the **Membership** tab displays.

Click **Save** to save your changes and replace the segment.

Click **Copy** to create a copy of the segment with the changes you made. See "To Copy A Segment" on page 343 for information about copying segments.

To Update an Upload Segment

1. On the Segment Management page, click the name of the Upload Segment that you want to update. The Segment Detail page displays.
2. Update the segment header information as appropriate, then click **Save**.
3. Click the **Membership** tab. The Membership page displays.
4. Click **Process**. An Upload Picker pop-up displays with a list of user list files.
5. Choose the user list file with which to update the Upload Segment, then click **Upload**.
6. On the Segment Detail page, click **Check Result**. When processing completes, the page displays an upload summary in the Calculation Result panel. Click **View Users** to see the Upload Segment user list.

To Copy A Segment

1. On the Customer Segmentation List page, click the name of the segment that you want to copy. The Segment Detail page displays.
2. Click the **Copy** button. The Copy Segment page displays, similar to the following figure.

FIGURE 207. Copy Segment Page

3. Enter a unique name for the copied segment.
4. Choose whether or not to attach the original segment's activities to the copied segment. Choose Yes if you want to attach the activities of the original segment, or No if you do not want to attach the activities of the original segment.
5. Click Copy to create the copied segment.

When the copy process completes, the Segment Detail page redisplay with the copied segment in Inactive status.

Check Segment Usage and Delete Segments

This section explains how to check where a segment is used and how to delete segments that have not been combined with other segments.

To Check Where A Segment Is Used

Segments can be combined with other segments to define complex customer segments. To ensure that you can delete a specific segment without affecting other segments, check that other segments do not depend on it as part of a complex segment definition.

1. On the Customer Segmentation List page, click the name of the segment whose usage you want to check. The Segment Detail page displays.

- Click the **Usage** button. A Segment Usage pop-up window displays, similar to the following figure.

This report shows all of the locations where this segment is used. The first list shows you where this segment has been included in other segments. The second list shows you any marketing activities that are attached to this segment. (e.g. promotions, coupons, pricing rules, email campaigns).

Segmentation Information

Name	Abandoned Carts Customers
Description	Abandoned Carts Customers

Other Segments that use this segment

--

Activities that use this segment

Name	Type	Is Effective
No Rows Found		

FIGURE 208. Segment Usage Pop-Up Window

The window consists of the following panels:

- Segmentation Information: the segment header information
- Other Segments that use this segment: how the segment is referred to by other segments
- Activities that use this segment: the marketing activities to which the segment is attached

To Delete A Segment

Users with the Segment Administrator role can delete a segment only if the segment's status is In Creation or End State.

- On the Segment Management page, click the check box next to the segment(s) you want to delete.
- Click **Delete**.

Importing and Exporting Segments

You can import and export segments to facilitate migration, upgrade, and synchronizing segments among systems. You must have the Segment Administrator role to import and export segments.

Segment import and export is synchronous. Segment status is irrelevant to segment export.

User attributes must exist and must be consistent on the exporting/importing systems. As segment administrator, you maintain the consistency of attributes on the systems for which you are responsible.

When you export a segment that depends upon other segments, those segments are exported as well as the selected segment. If several segments depend upon the same segments, those segments are exported only once.

To Import A Segment

1. In the Segment Administration panel on the home page, click Import Segments. The Import Segments page displays, similar to the following figure.

The screenshot shows the 'Import Segments' page within the Sterling Commerce Administration interface. The page has a header with the Sterling Commerce logo and 'Administration' text. Below the header is a navigation bar with links: 'My Home | My Account | About | Help | Logout'. The main content area is titled 'Import Segments' and contains a note: 'Note: Press the "Browse" button to find your import file. Then press "Import Now". When the import is completed, you will see a report on the import results including the number of records that were imported and errors if they exist.' Below the note is a form titled 'Select Import File' with an 'Import File:' label, a text input field, a 'Browse...' button, and an 'Import Now' button.

FIGURE 209. Import Segments Page

2. Enter the name of the file to import, or click **Browse...** to select the XML export file to import.
3. Click **Import Now** to start the import process.

The import process runs in a separate pop-up window.

Segments that are new to the importing system have the status In creation. Segments on the importing system with In Creation or Inactive status are overwritten. Segments with other statuses are skipped.

When the import process completes, an Import Summary pop-up window appears. Statistics include:

- Number of imported segments
- Number of successfully imported segments
- Number of segments whose import failed and their names
- Number of segments skipped and their names
- Warnings about any user attributes that do not exist on the importing system

To Export A Segment

1. In the Segment Administration panel on the home page, click Export Segments. The Export Segments page displays, similar to the following figure.

The screenshot shows the 'Export Segments' page within the Sterling Commerce Administration interface. The page has a header with the Sterling Commerce logo and 'Administration' text. A navigation bar includes links for 'My Home', 'My Account', 'About', 'Help', and 'Logout'. The main heading is 'Export Segments'. Below this, a note explains the export process: 'Note: Enter the name you want your export file to be called. Next, choose whether you want to export all of the segments in the system or just a select group. If you choose "Export Selected Segments" you will be prompted to pick the segments you want to export. You will be asked where to save the exported file.' There is a text input field labeled 'Please enter export file name:'. Below the field are two radio buttons: 'Export All' and 'Export Selected Segment(s)'.

FIGURE 210. Export Segments Page

2. Enter the name of a file to contain the exported segments in the export file name field. The format of the file name is *<filename>.xml*, where *<filename>* is the name you entered in the export file name field. The file format is XML.
3. Choose the export type:
 - Export All exports all segments.
 - Export Selected Segment(s) exports only the segments you select from a Segment Picker pop-up.
4. Click **Export** to start the export process.

The export process runs in a separate pop-up window. When the export process completes, a File Download pop-up window appears. Click **Save** to save the export file.

Segment Cron Job Management

System administrators who are responsible for managing segmentation-related cron jobs perform the following tasks:

- "To Set Up the Segmentation Cron Jobs" on page 347
- "To Review the Segment Build Status" on page 348
- "To Search For Failed Segments" on page 348
- "To Mark Segments As Inactive" on page 348
- "To Re-run the Segment Build" on page 349.

The system has an automated process that re-generates and publishes the segments regularly. The frequency at which the process runs is set by your system administrator, but it typically runs nightly. You can also publish segments manually from the segment membership tab.

The system publishes segments only if all segments with status of Active or Obsolete re-generate successfully. If any segment fails, the system logs an error and continues with the re-generation process, but it does not publish any of the segments. The reason is that compound segments may include the failed segment, and compound segments cannot be published if one of the segments they depend upon has failed.

The system updates and publishes segments at intervals that you specify for the segment's update frequency. If you do not see the users that you expect to see in a segment, check the update frequency to find out when the segment is scheduled to be updated.

To Set Up the Segmentation Cron Jobs

Site system administrator users set up the segmentation cron jobs. The default Sterling Multi-Channel Selling Solution system administrator username and password is admin/admin.

To set up the segmentation cron jobs:

- Ensure that the system administrator user or the user assigned to run the cron jobs has the Marketing Manager - Segmentation role. See CHAPTER 6, "User Administration" for more information.
- Ensure that the username/password for running the segmentation cron jobs is correct.
- Ensure that the segmentation cron jobs are active.

Perform these tasks after installing the Sterling Multi-Channel Selling Solution or updating or migrating from a previous release.

1. Log in as a system administrator.
2. Ensure that the user has the Marketing Manager - Segmentation role. See CHAPTER 6, "User Administration" for more information.
3. Navigate to the List of Cron Jobs page from the Job Scheduler link of the System Administration panel.
4. Click the numbered Cron Job List link for the Nightly Segments Build cron job. The Edit Cron Job Configuration page displays.

5. Click the Active checkbox in the Cron Job Information panel.
6. Check the username and password in the Cron Job Type panel. Update the information if necessary.
7. Click **Save All Changes**.
Repeat steps 2 through 6 for the Reprocess Segments cron job.
8. On the List of Cron Jobs page, click the Run Cron Job icon first for the Reprocess Segments cron job, then the Nightly Build Segments cron job.

To Review the Segment Build Status

1. As system administrator, click the Job Scheduler link in the System Administration panel. The List of Cron Jobs page displays.
2. In the Actions column, click the Show History icon of the Nightly Segments Build cron job. The Cron Job History page displays.
3. Examine the Cron Job History page and note the Execution Status. If the Execution Status is Success, all segments re-generated successfully. If the Execution Status is Failed, search for the failed segments from the Customer Segmentation List page of the Segmentation Administration panel and resolve any issues that caused the failure, or mark the failed segments as Inactive until the issues can be resolved.

To Search For Failed Segments

You must have the Marketing Manager - Segmentation role to be able to see the Segmentation Administration panel.

1. Navigate to the Customer Segmentation List page.
2. In the Find: panel, select Build Status from the first drop-down list. A second drop-down list displays.
3. Select Fail from the second drop-down list.
4. Click Search.
5. The list of failed segments displays.

To Mark Segments As Inactive

1. Navigate to the Customer Segmentation List page, then click the link for the segment whose status you want to change to Inactive. The segment **Header** tab displays.

2. In the General Information panel, select Inactive from the Segment Status drop-down list.
3. Click **Save**.

To Re-run the Segment Build

You can re-run the segment build in one of the following ways:

- As system administrator, navigate to the List of Cron Jobs page and click the Run Cron Job icon first for the Reprocess Segments cron job, and then for the Nightly Segments Build cron job.
- As segment administrator, navigate to the **Membership** tab for the failed segment and click the **Process** button. See "To Calculate Segment Membership" on page 339 for more information.

Upload Segment Considerations

This section describes special considerations for handling upload segment failures.

If you decide to re-upload a list while a segment is active, confirm that the upload was successful. If the upload failed, fix it by the end of the day or change its status to Inactive to avoid problems with the automated segment publishing process.

The system allows you to re-upload the membership list for your segment while it is still active so that you can continue using the previous membership list while you work on an updated list. The updated list takes effect when it is published.

If the automated segment build process fails, the system continues to use the previously published build. Your activities that depend on segments will continue to run, but they will use members of the segments as defined when the build last ran successfully, so your information could be out of date.

You can avoid the outdated membership information problem in one of the following ways:

- Fix the failed upload segment while its status is Active or Obsolete before the automated process runs.
- If you do not have time to fix the failed upload segment before the automated process runs, change its status to Inactive and then fix the failed upload segment.
- Copy the failed upload segment to a new segment and make the changes to the copied version as follows:

1. In the Copy Segment panel of the Copy page, click the Yes radio button for the question Copy activities attachments?
2. Click **Copy**.
3. Re-upload the list in the copied segment.
4. When the upload is successful, change the status of the copied version to Active, then click **Save**. Change the status of the old version to Inactive, then click **Save**.

This chapter covers all of the tasks associated with managing basic product information. "Administering the Product Catalog" on page 65 provides an overview of how product administration works.

- "Product Management Interface" on page 353
 - "To Access the Product Manager Page" on page 354
- "Product Category Administration Tasks" on page 355
 - To Create a Product Category
 - To Modify a Product Category
 - To Move a Product to Another Category
 - To Reconcile Feature Mismatch
 - To Delete a Product Category
 - To Enable Access Control
 - To Change the Display of a Product Category
- "Product Administration Tasks" on page 372
 - To Create a Product
 - To Create A Product As a Child of an Aggregated Product

- To Copy a Product
- To Modify a Product
- To Delete a Product
- To Assign Products as Children to an Aggregated Product
- To Unassign Child Products from an Aggregated Product
- To Find and Select a Product in the Navigation Panel
- "Pricing Products" on page 393
 - To Change Prices for a Product
 - To Change All Prices for a Product
- "Related Products" on page 397
 - To Relate One Product to Another
 - To Remove a Product Relationship
- "Superseding a Product" on page 400
 - To Supersede a Product
 - To Remove a Superseding Product
- "Managing Assemblies" on page 401
 - To Define the Parts in an Assembly
 - To Modify a Line Item in an Assembly
 - To Define or Relocate Hot Spots in a Parts Diagram
 - To Delete a Hot Spot
 - To Delete an Item from an Assembly
- "Managing Pre-Configured Products" on page 412
 - To Pre-configure a Configurable Product
 - To Delete a Configuration for a Pre-Configured Product
- "Importing Products" on page 415
 - To Create an Import Set
 - To Delete an Import Set

- To Import a Catalog Immediately
- To Import a Catalog Using a Cron Job
- "Exporting the Product Catalog" on page 424
 - To Create an Export Set
 - To Add or Remove Categories and Products from the Export Set
 - To Add Feature Types and Features to an Export Set
 - To Delete an Export Set
 - To Export the Catalog Immediately
 - To Export the Catalog Using a Cron Job
- "Suppressing Empty Product Categories" on page 433
 - To Suppress Display of Empty Product Categories
- "Product Availability" on page 434
- "Using the Hierarchical Entity Chooser" on page 434
 - To Select Products from the Product Hierarchy
 - To Search for Products in the Hierarchical Entity Chooser
- "Administering Advanced Search" on page 437
 - To Build a New Index
 - To Build an Index Incrementally
 - To Activate an Index Set
 - To Change the Index and Search Settings
 - To Update Dictionary Definitions

Product Management Interface

This section describes the product management interface.

To Access the Product Manager Page

1. Click **Product Master** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.

This displays the Product Management tab of the Sterling Product Manager page.

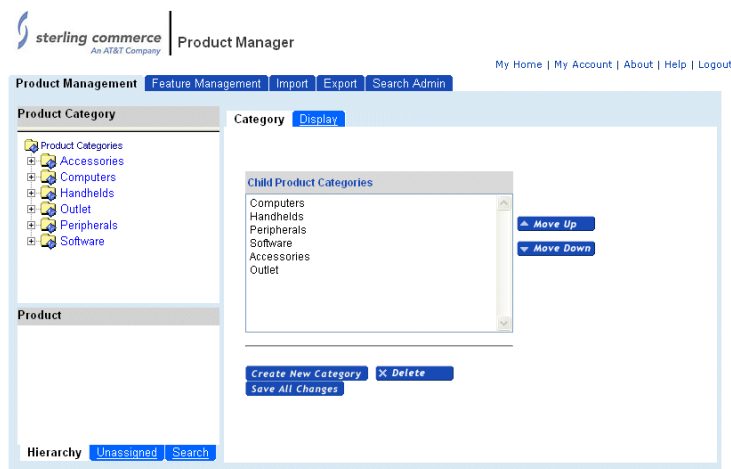


FIGURE 211. Product Manager Page

The Product Manager page provides these tabs:

- **Product Management:** used to manage product categories and products. This means creating and modifying product categories and products (either assigned to categories or unassigned), assigning domains to products, as well as features and resources. This also includes superseding one product with another, and the definition of assemblies.
- **Feature Management:** used to create the features that will be assigned to products and used when creating questionnaires in Sterling Advisor. See CHAPTER 15, "Managing Features in Sterling Product Manager"
- **Import:** used to manage the import of data into the Knowledgebase.
- **Export:** used to manage the export of product information including products, feature types, features, resources, and prices.
- **Suppression:** used to initiate the calculations to suppress empty product categories.

- **Search Admin:** used to manage search indexes: their creation and deletion, and setting the active search index.

Note:	Partner administrators do not have access to the Import , Export , and SearchAdmin tabs.
--------------	---

In the **Product Management** tab display, the upper left panel provides a navigation panel to navigate the product category hierarchy and to select individual product categories. When you select a product category, the products belonging to that category appear in the lower left panel. The right panel is used to display the details of a selected category or product.

Product Category Administration Tasks

To Create a Product Category

Note:	Partner administrators can only create categories within categories they have created or within categories to which they have been given access by the <i>enterprise administrator</i> .
--------------	--

1. Click **Product Master** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.

This displays the Product Management tab of the Sterling Product Manager page.

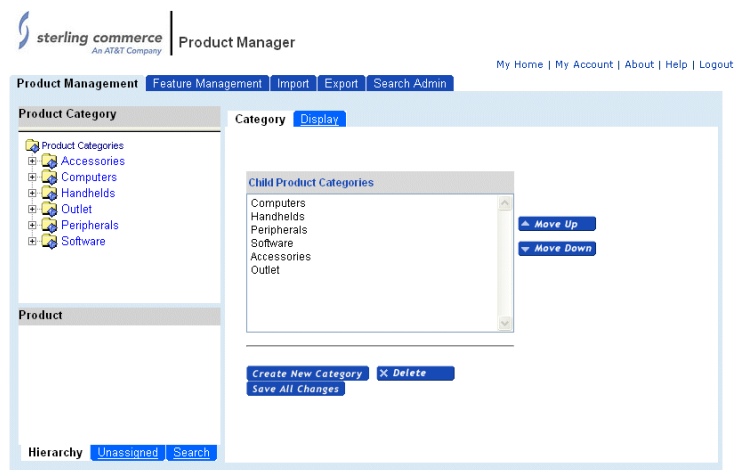


FIGURE 212. Product Management Tab

2. To create the category under the root category, click **Create New Category**.
3. To create the category in a category below the root category:

- a. Navigate to and select the parent category under which you wish to create the new product category.

The content panel displays the details of the selected category.

- b. Click the **Category** tab.

The **Category** tab displays a list of the current child product categories for this product category.

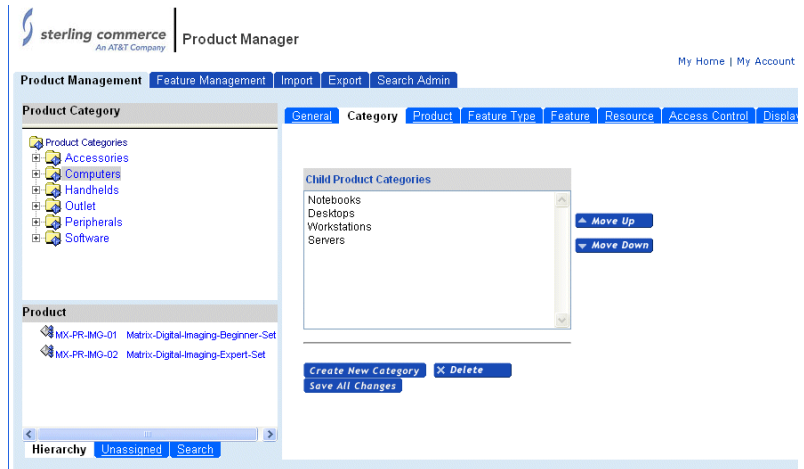


FIGURE 213. Product Management Panel: Category Tab

- c. Click **Create New Category**.

The screenshot shows the 'Category' tab of the Product Manager interface. It contains a form with two input fields: 'Product Category Name' and 'Description'. Below the form are two buttons: 'Save All and Return to List' and 'Cancel and Return to List'.

FIGURE 214. Category Tab Displaying Fields for New Category

4. Enter a name and description for the new product category.
5. Click **Save All and Return to List**.

The parent category's **Category** tab is re-displayed with the new product category added.

At this point, you can follow the instructions in "To Modify a Product Category" on page 358 to do one or more of the following:

- Assign products to the category.

- Assign features types to the category.

When you assign features to products in the category, you can choose from among the features in the assigned feature types.

- Assign features to the category.

These features are automatically assigned to all the products in the category.

- Assign resources.

- Provide access for one or more partners for inserting new products.

To Modify a Product Category

1. Click **Product Master** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.

This displays the Product Management tab of the Sterling Product Manager page.

2. Navigate to and select the product category that you wish to modify.

The **General** tab displays the name and description of the category.

Attention: Make sure you click Save All Changes to save your changes before you move on to another tab.

The screenshot shows the Sterling Commerce Product Manager interface. At the top, there's a logo for "sterling commerce An AT&T Company" and a "Product Manager" title. Below this is a navigation bar with tabs: "Product Management", "Feature Management", "Import", "Export", and "Search Admin". On the right, there are links: "My Home | My Account | About | Help | Logout". The main area is divided into two sections. The left section, titled "Product Category", shows a tree view of categories: "Product Categories", "Accessories", "Computers", "Handhelds", "Outlet", "Peripherals", and "Software". The right section, titled "General", has sub-tabs: "General", "Category", "Product", "Feature Type", "Feature", "Resource", "Access Control", and "Display". The "General" tab is active. It contains fields for "Product Category Name" (set to "Computers"), "Description" (a paragraph about computer technology), "Image URL" (set to "/images/catalog/cat_computers.gif"), and "Datashet URL". There are "Upload" and "Browse Content Manager..." buttons next to the URL fields. A "Save Changes" button is at the bottom.

FIGURE 215. Product Category Detail: General Tab

3. If you want to associate an image with the product category, then perform these steps:
 - a. Click **Upload** next to the Image URL text field.

The screenshot shows a "Product Manager Upload" window. It has a title bar "Product Manager Upload" and a "Close" button. Below the title bar, it displays "Category ID: 1000" and "Category Name: Computers". There is an "Image URL:" label followed by a text input field and a "Browse..." button. Below the input field are "Upload" and "Clear" buttons.

FIGURE 216. Product Manager Upload Window

- b. Click **Browse...** In the File Upload window, navigate to the image file you want to upload.
 - c. Click **Upload**.

d. Click **Save Changes**.

If you have a Content Manager server set up to serve images, then you can navigate to the image by clicking **Browse Content Manager...** The location of the Content Manager is specified by the value of the Sterling Product Manager ContentManager URL business rule. Typically, this is of the form:

`http://server:port/docushare`

4. Click the **Category** tab to display the child product categories of the current product category selected in the navigation panel.
 - You can create a new child product category ("To Create a Product Category" on page 355).
 - You can delete one of the existing child product categories ("To Delete a Product Category" on page 368).
 - You can modify the order in which the product categories are displayed to the customer by moving the child categories up and down.
5. Click **Save All Changes** to save your changes before you move to the next tab.
6. Click the **Product** tab to display a list of the products currently assigned to this product category.

See "To Assign or Remove Products" on page 364.
7. Click **Save All Changes** to save your actions before you move to the next tab.

Note:	If you assigned a product to a category, and if that product was previously assigned to another category, then the product might have features that have no corresponding feature type in the current product category. The tab will display fields that enable you to reconcile the mismatch. You must reconcile these features to the new category. See "To Reconcile Feature Mismatch" on page 367.
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8. Click the **Feature Type** tab to associate feature types to product categories.

General Category Product **Feature Type** Feature Resource Access Control Display

Select 'X' to unassign a feature type. Select 'Unassign All' to unassign all assigned feature types. Select 'Assign' button to assign feature types. Click Save button to update Filter.
Note: Inherited feature types cannot be unassigned.

Unassign All Assign... Save

Feature Type	Filter
<input checked="" type="checkbox"/> Computer Type	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Digital Imaging	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Hard Drive	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Hard Drive Options	<input checked="" type="checkbox"/>

FIGURE 217. Product Category Detail: Feature Type Tab

- To assign a new feature type to the product category, click **Assign...**. Using the Hierarchical Entity Picker, select the feature types you want to assign and click **Done**. When you associate a feature type with a category, you make it possible to assign features belonging to the feature type to all products in the product category.

Click the **Delete** button next to a feature type to remove a feature type.

- Click the **Feature** tab to assign features to (or unassign features from) *all the products* in the product category and its sub-categories.

General Category Product Feature Type **Feature** Resource Access Control

You can create and assign features on the fly or assign existing features to the category. You can also remove assigned features.
Note: Inherited features cannot be unassigned.

Create and Assign Feature Assign Features Unassign Feature

Unassign All Power Assign... Power Unassign...

Feature Type	Feature
<input checked="" type="checkbox"/> Accessory Card Slots	<input checked="" type="checkbox"/> 2
<input checked="" type="checkbox"/> Accessory Type	
<input checked="" type="checkbox"/> Depth (inch)	
<input checked="" type="checkbox"/> Office Solutions	
<input checked="" type="checkbox"/> Product Type	

FIGURE 218. Product Category Detail: Feature Tab

- On this tab, you can perform a number of actions:

- a. To create a new feature within a feature type that is already assigned to the product category, click the **Create and Assign Feature** button next to the feature type. In the Create and Assign New Feature pop-up window, enter information about the new feature and click **Save**.
 - b. To assign an existing feature within a feature type that is already assigned to the product category, click the **Assign Feature** button next to the feature type. In the Assign Feature pop-up window, select the feature(s) and click **Assign**.
 - c. To remove the assignment of a feature from the product category, click the **Delete** button next to the feature.
 - d. To remove all assigned features from this product category, click **Unassign All**.
12. You can use power assignment to assign features to all products within a product category. In doing so, you do not assign the feature to the product category itself, and so if a new product is added to the product category it does not inherit the feature.

To assign features to all the products within the product category, use power assignment as follows:

- a. Click **Power Assign...**
 - b. Using the Hierarchical Entity Chooser window, select one or more features from the feature hierarchy.
 - c. Click **Done**.
 - d. A dialog box is displayed to confirm that the selected features are assigned to the products in the product category.
13. You can unassign features from all products within a product category as follows:
- a. Click **Power Unassign...**
 - b. Using the Hierarchical Entity Chooser window, select one or more features from the feature hierarchy.
 - c. Click **Done**.

- d. A dialog box is displayed to confirm that the selected features are unassigned from the products in the product category.

Any action you take in the **Feature** tab is automatic. You do not have to save changes before you move to the next tab.

Note: Later, if you add additional products to this product category, then you need to assign the feature to each new product individually, or again do a macro (global) assignment to all the products and subcategories in a product category through this **Feature** tab.

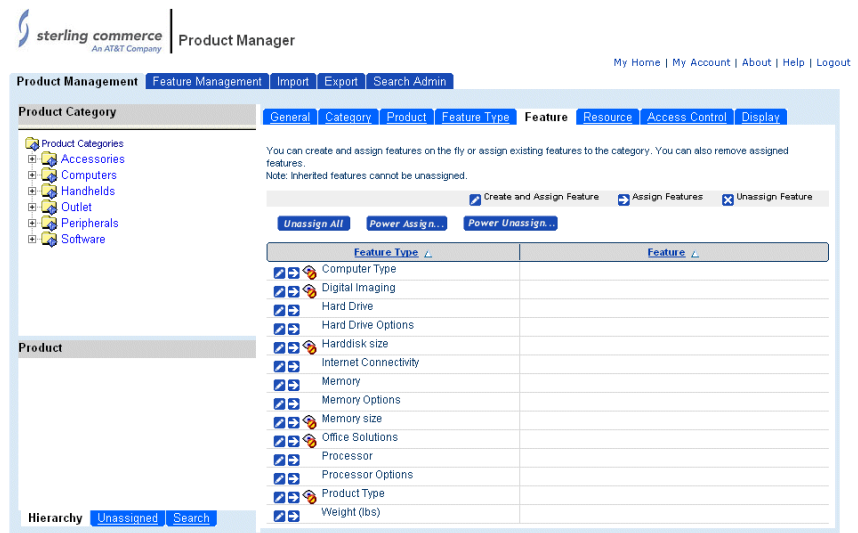


FIGURE 219. Product Management: Feature Tab

14. Click the **Resource** tab to assign resources to the product category and its subcategories.

See "Resources and Resource Types" on page 118 for more information about resources.

- To assign a resource, select the appropriate resource type, click **Assign**, and enter or change the details (Table 20 on page 364).

Note: Unlike features, assigning a resource to a product category *does not* assign the resource to all products and subcategories within that product category. The resource is assigned only to the selected product category itself.

- To unassign a resource, select the appropriate resource type and click **Unassign**.
 - To modify a resource, click on the resource in the list of Assigned Resource Types and edit the appropriate fields.
15. Click **Save All Changes** to save your actions before you move to the next tab.

TABLE 20. Resource Fields

Field	Description
Type	Resource type. For example, white paper, product image, data sheet, URL, and so on.
Value	Location of the resource. For example, the URL address or the path to a resource.
Label	Optional. For example, the image caption, the title of a data sheet or white paper, and so on.
Description	Your comments about this resource.

16. Click the **Access Control** tab to enable or disable partner access (if any) to this category.
- By enabling access, you allow the partner administrator for the enabled partner to create categories and products within this category. See "To Enable Access Control" on page 369 for a description of the procedure.
17. Click **Save All Changes** to save your actions before you move to the next tab.

To Assign or Remove Products

When you modify a product category ("To Modify a Product Category" on page 358), you can assign products to or remove products from a category.

1. Click the **Product** tab.
- This displays the products currently assigned to the product category.



FIGURE 220. Product Management: Product Tab

2. To assign products, click **Assign** to display the Product Browser window.
See "Using the Hierarchical Entity Chooser" on page 434 for information about finding and selecting products in the Product Browser window.
Once you have selected the product(s), the **Product** tab is re-displayed. The products appear in the Assigned Products list box with a plus (+) sign, indicating that the product assignments have not been saved.
3. To unassign products, click the product in the Assigned Product list box, then click **Unassign**.
A minus (-) appears next to the product in the list box, indicating that the product unassignments have not been saved.
4. Click **Save All Changes**.

The product assignments and unassignments are saved.

To Move a Product to Another Category

On occasion, you might want to simply change the product category that a product is in. You could do this by removing the product from the original product category and then assigning the product to the new category as described in "To Assign or Remove Products" on page 364. However, you can do it more quickly as follows:

1. Click **Product Master** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.

This displays the Product Management tab of the Sterling Product Manager page.

2. Navigate to the product category that contains the product you want to move.
3. Click the **Products** tab.

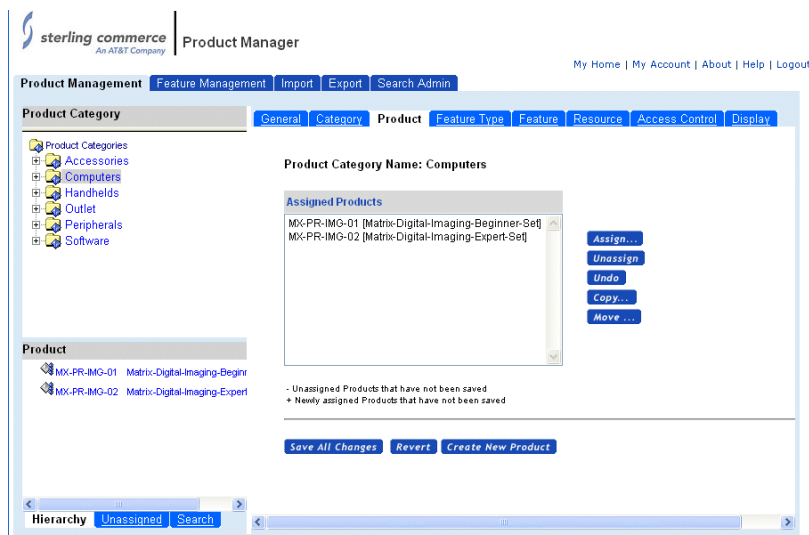


FIGURE 221. Product Management: Products Tab

4. In the Assigned Product list, select the product you want to move, then click **Move...**

This displays a chooser (Figure 222 on page 367).

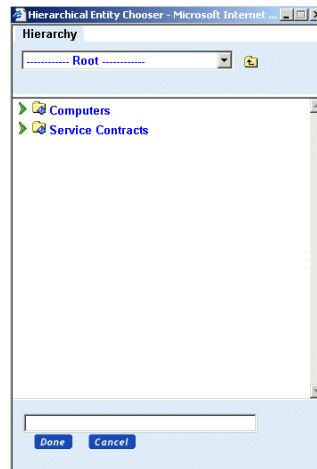


FIGURE 222. Hierarchical Entity Chooser

5. Select the category to which you want to move the product.
 - a. Navigate to and select the category to which you want to move the product.
 - b. Click **Done**.

The product you are moving might have features that have no corresponding feature type in the current product category. The tab will display fields that enable you to reconcile the mismatch. You must reconcile these features to the new category. See "To Reconcile Feature Mismatch" on page 367.

6. Click **Save All Changes**.

To Reconcile Feature Mismatch

When you have assigned products to a category (see "To Assign or Remove Products" on page 364) or when you move a product ("To Move a Product to Another Category" on page 365), the products may contain features that have no corresponding feature types in the current category. In this case, the Feature Reconciliation Panel appears. (See Figure 223 on page 368).

The feature resolution screen provides support for administrators to preserve the feature assignments on products when the target destination does not have the required feature types. The list below shows all the additional feature types that are required on the destination. Select the feature types you want to assign to the target destination and the associated features will be automatically assigned to the copied or moved products.

[Save](#)

[Select All](#)

Feature Type	Product	Feature
<input type="checkbox"/> Digital Imaging	MD-PR-IMG-01	Imaging Solution Still Photography

[Save](#)

FIGURE 223. Feature Reconciliation Panel

The Feature Reconciliation Panel contains a list of the feature types that contain the features associated with the product(s) you are assigning to the category.

1. Check the box next to those feature types you want to retain.
2. Click **Save All Changes**.

The feature types (and their features) you selected will automatically be added to the category. The features belonging to any unselected feature types will automatically be dis-associated from newly assigned products.

To Delete a Product Category

When you delete a product category, all subcategories are automatically deleted. The products assigned to the deleted category are not deleted. If the products in the category are not assigned to other categories, then they become unassigned products.

1. Click **Product Master** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.

This displays the Product Management tab of the Sterling Product Manager page.

2. Using the Navigation Panel, navigate to and select the parent category that contains the category you want to delete.

The **General** tab displays the details of the parent category.

3. On the detail panel, click the **Category** tab.

The **Category** tab displays a list of the current child product categories for the product category selected in the Navigation Panel.

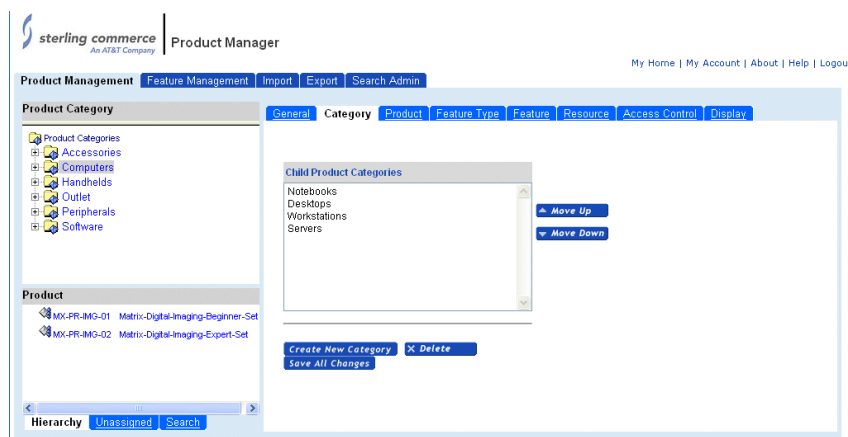


FIGURE 224. Product Category Detail: Category Tab

4. Select the product category you want to delete from the list of child categories.
5. Click **Delete**.
6. Click **Save All Changes**.

To Enable Access Control

Your partners can add and modify products in the Sterling Multi-Channel Selling Solution specific to their storefront organization. To do this, however, they can only add them to categories which they (storefront administrators) have created or to which they have been granted access by the *enterprise administrator*. The *enterprise administrator* uses the following procedure to grant storefront administrators access to product categories.

1. Click **Product Master** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.
This displays the Product Management tab of the Sterling Product Manager page.
2. In the Product Category frame, find and click on the product category to which you want to grant access.
3. Click the **Access Control** tab.

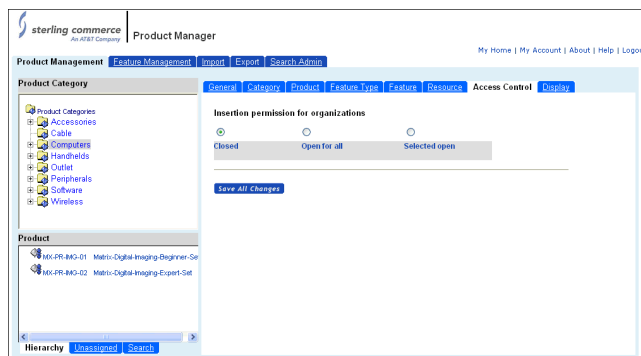


FIGURE 225. Product Category Detail: Access Control Tab

4. Click the appropriate radio button.

To close the category to all partners, click **Closed**. This means only the *enterprise administrator* has access to this category. Partner administrators can browse the information in this category, but they cannot add products, make changes, and so on.

To enable access to all partners, click **Open for all**.

To return ownership to the original owner, click **Owner**.

Note: This button appears only if the category was created by a partner. If subsequently other partners were granted access to this category, then you can click **Owner** to restrict ownership to the partner who originally created the category.

To enable access for selected partners:

- a. Click **Selected open**.

This displays a frame for selecting partners (see Figure 226 on page 371).

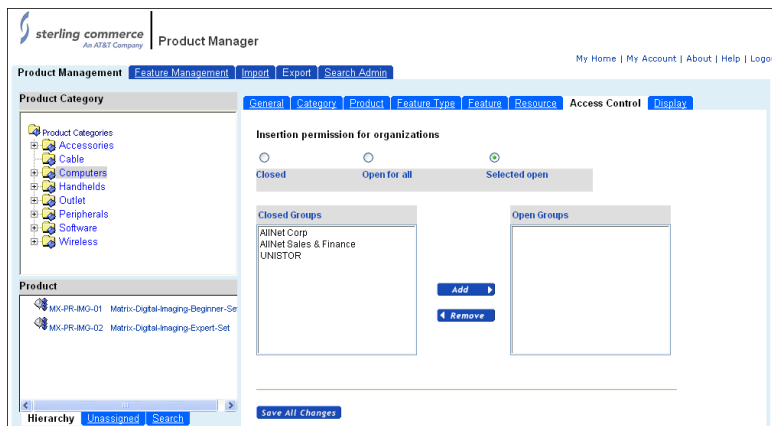


FIGURE 226. Enabling Selected Partner Access

- b. From the Closed Groups list box, select one or more partners.
- c. Click **Add**.

The partner(s) moves to the Open Groups list box.

5. Click **Save All Changes**.

To Change the Display of a Product Category

In this release, you can manage which display style is used to present a product category to end-users. Each display style is set up as part of the implementation of your Sterling Multi-Channel Selling Solution and is defined in the **CategoryDisplayStyle.xml** configuration file. See "Category Display Style" on page 1120 for more information.

Display styles can take additional parameters: you can use these to adjust the display so that the same general display style is used for different categories, but the additional parameters adjust the display for a particular category (such as a background image or color).

By default, categories inherit the display style of their parent product category. When you set a display style for a category, you can also clear the styles used by its children, and in so you can reset all the child categories to use the parent display style.

You can manage how product categories are displayed to end-users as follows:

1. Navigate to the product category whose display you want to change.

2. Click the **Display** tab.

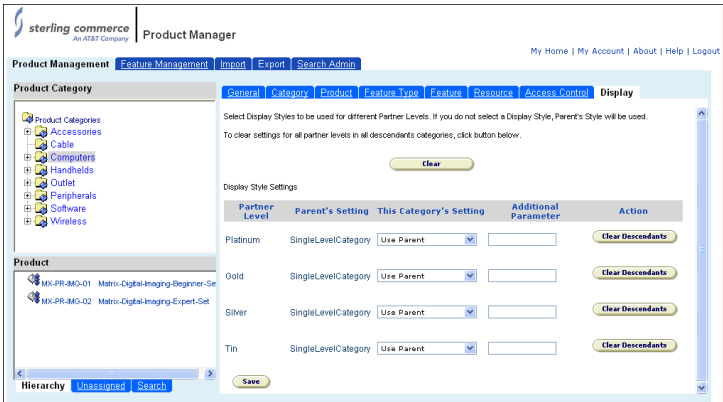


FIGURE 227. Product Category Detail: Display Tab

3. For each partner level, you can specify whether the current category uses the same display style as its parent, or to use a different style.
4. If need be, you can specify additional parameters that should be passed to the display. These take the form of Name-Value pairs: for example, "DisplayImage=Workstation.gif&Background=Plain".
5. If you want to override any previously specified display styles on child product categories, then click **Clear Descendants**.
6. Click **Save**.

Product Administration Tasks

This section contains the tasks related to creating and maintaining specific products.

To Create a Product

Products are created either in the context of a specific product category or as unassigned products, not affiliated with any category.

Note: When you create a product, you should consider adding it to the price list that is used for Sterling Analyzer: the so-called reporting price list. Only products on this price list will have prices associated with them for reporting purposes. By default, this price list is the Enterprise Master List price list.

Depending on the setup of your Sterling Multi-Channel Selling Solution Knowledgebase, product IDs may or may not be case-sensitive. Check with your Sterling Multi-Channel Selling Solution administrator for details.

1. Click **Product Master** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.

The Product Management tab of the Sterling Product Manager page displays.

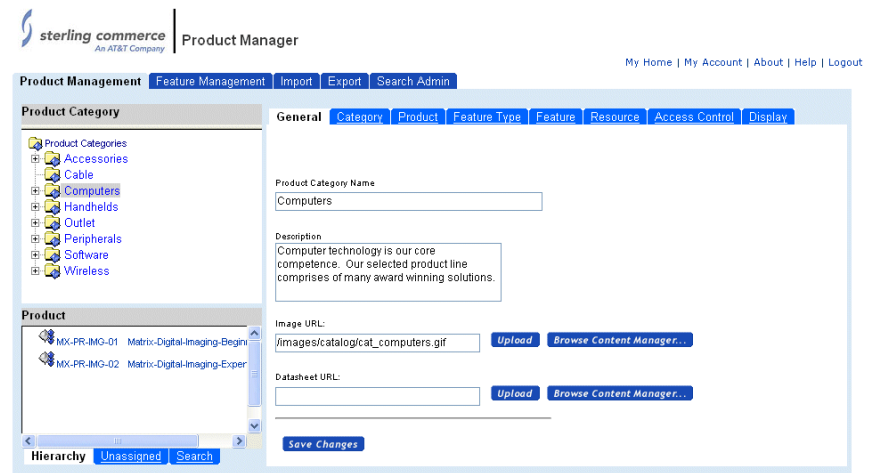


FIGURE 228. Product Management Tab

2. Create and assign the new product.

You can either create the product unassigned, or you can create it assigned to a product category.

To create a product unassigned to a product category, click the **Unassigned** tab. A **New Product** tab appears.

The screenshot displays the Sterling Commerce Product Manager interface. At the top, the Sterling Commerce logo and 'Product Manager' title are visible. Below the title bar, there are tabs for 'Product Management', 'Feature Management', 'Import', 'Export', and 'Search Admin'. The 'Product Management' tab is active, showing a 'Search' section on the left and a 'New Product' form on the right.

Search Section:

- Search By: Product ID (dropdown)
- Search Criteria: (text input)
- Unassigned: ☒
- Search button

Product List:

Product ID	Product Name
MTL01	SKU to test C3 Integ
MTL02	SKU to test C3 Integ
MTL03	SKU to test C3 Integ
MTL05	SKU to test C3 Integ
MX-NSBP	7480 Desktop
MX-PNVE0120	Matrix 7490 Desktop
MX-SRV	Service Contract
MXWS-7550-1	Matrix 7550 Custort
PCO-Z509LS	Matrix Laptop 7500
Test Product	Convergent Product
VM_product	VM product

New Product Form:

- Product ID: (text input)
- Product Name: (text input)
- Description: (text area)
- Component Type: Normal (dropdown)
- Service Item: ☐
- Status: In Creation (dropdown)
- Start Date (MM/DD/YYYY): 11/13/2007
- End Date (MM/DD/YYYY): 11/13/2107
- Save New Product button

FIGURE 229. Product Management Tab: Unassigned Products

To create the product assigned to a product category:

- Navigate to and select the product category in the Product Category navigation frame.
- Click the **Product** tab.
- Click **Create New Product** to display the **New Product** tab.

Note: Partner administrators can only create products within categories they have created or within categories to which they have been given access by the *enterprise administrator*.

- Enter a Product ID, Product Name, and Description for the new product.

Attention: Do not use the characters “*”, “<”, and “>” in product IDs.

4. Select a component type.

TABLE 21. Valid Component Types

Component Type	Description
Normal	Most products belong to this type.
Configurable	<p>A product is configurable if you have implemented Sterling Configurator or support the ability for a customer to punch out to a configuration application to configure this product.</p> <p>If you select this type, then the Model field appears. You must associate the product with a model (created with Visual Modeler), selected from the drop-down list. Note that you can only select models that have been compiled. See "Compiling a Model" on page 554 for more information.</p> <p>Partner administrators cannot create models, but they can associate products they create with models created by enterprise administrators.</p>
Assembly	<p>A product is an Assembly if it is made up of a number of component (sub-assembly) items each of which is a product or a plain text item (an item that can only be ordered as part of the assembly).</p> <p>Assemblies can be bundles or kits:</p> <p>Bundles consist of components such as products, provided services, physical kits, or other bundles. Delivery services cannot be part of a bundle.</p> <p>Kits are maintained as single items and consist of a number of components that must be ordered together. Kits can be physical kits or dynamic physical kits.</p> <p>See "Managing Assemblies" on page 73 for an explanation of this product type.</p> <p>If you select the Assembly option, then you can use the Assembly tab to specify the sub-assembly structure. See "Managing Assemblies" on page 401 for more information.</p>
Aggregated	See "Aggregated Products" on page 69 for an explanation of this product type. See "To Assign Products as Children to an Aggregated Product" on page 388 for information on managing aggregated products.

5. To indicate that the new product is a service contractable item, click the Service Item check box. The Maintenance Model field appears. Maintenance

models enable maintaining the service contract after the customer order is placed.

To select a maintenance model for this product:

- a. Click "...". The Hierarchical Entity Chooser pop-up window displays.
 - b. Navigate to the appropriate maintenance model for this service contractable item. The maintenance model can be the same as the configuration model.
 - c. Select the maintenance model, then click Done.
6. Set the status for the product. See "Product Statuses" on page 67 for more information about product statuses.
 7. Select a start and end date for the product.
 8. Click **Save Changes**.

Once you have saved the product, you can add and modify product information as appropriate. See "To Modify a Product" on page 382 for more information.

If you created the product as assigned to a parent category, then the new product appears among the list of child products for that category in the lower left Navigation Panel. If you created the product unassigned, then the product appears among the unassigned products.

If you selected "Assembly" as the component type, then the new product is preceded by an icon. For Assemblies, you must define the parts that comprise the assembly. See "Managing Assemblies" on page 401.

If you selected "Configurable" as the component type, then you can either leave the product as a generic configured product (no pre-configured items) or you can pre-select the items to be configured with the product. See "Managing Pre-Configured Products" on page 412.

If the product is an aggregated product, then you can assign child products. See "To Assign Products as Children to an Aggregated Product" on page 388.

See "To Modify a Product" on page 382 to:

- Designate a supplier for the product.
- Assign classification codes to the product.
- Assign features and resources.

- Define products that will supersede this product when it reaches its expiration date.
- Define parts that are part of the product, if the product is an assembly.

To Create A Product As a Child of an Aggregated Product

See "Aggregated Products" on page 69 for an overview of aggregated products. Once you have created the aggregated product ("To Create a Product" on page 373), there are two ways to assign products to the aggregated product.

- Use the procedures in "To Assign Products as Children to an Aggregated Product" on page 388.
- Create the product as part of the aggregated product.

The steps in this task describe how to create a product as child of the aggregated product:

1. Click **Product Master** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.

The Product Management tab of the Sterling Product Manager page displays.

2. Navigate to and select the parent category of the aggregated product. If the aggregated product is not assigned to any category, then click the **Unassigned** tab to select from a list of unassigned products.

Once you select the parent category, the products assigned to that category appear in the product frame (lower left) of the navigation panel.

3. Select the aggregated product.

Find and click the product from the list in the product frame. The right-hand frame displays the tabs containing information about the product, as shown in the following figure.

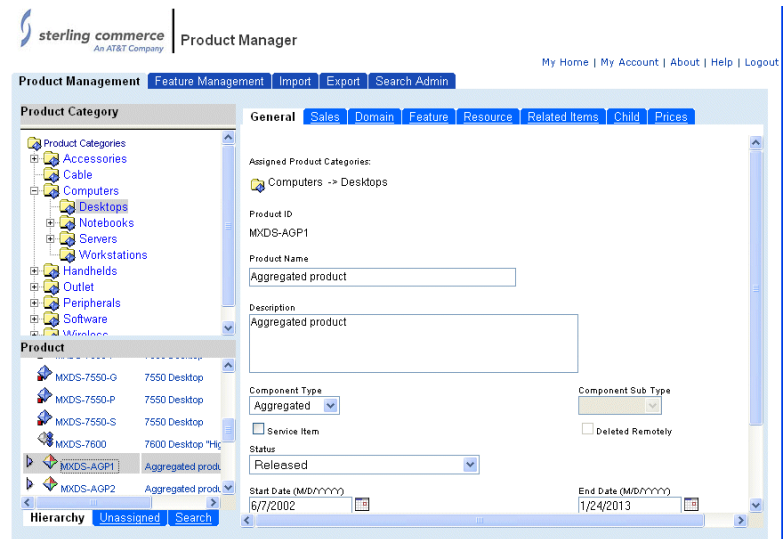


FIGURE 230. Aggregated Product Detail Page: General Tab

4. Click the **Child** tab.

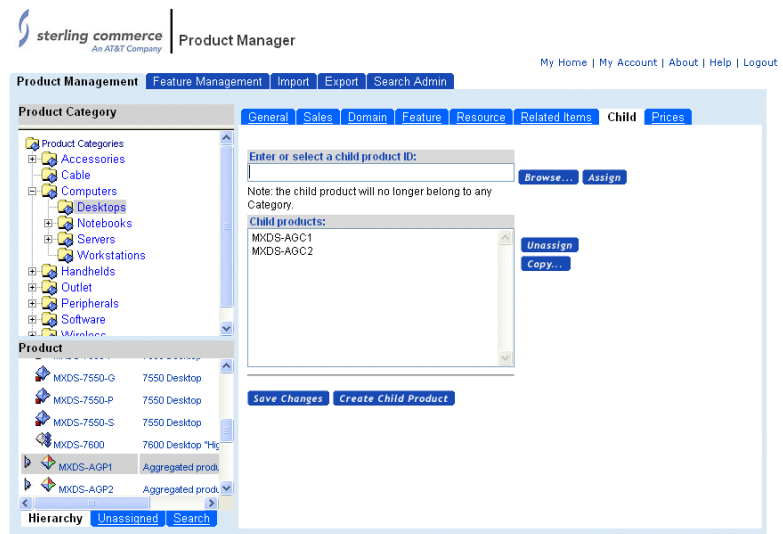


FIGURE 231. Product Detail Page: Child Tab

5. Click **Create Child Product**.

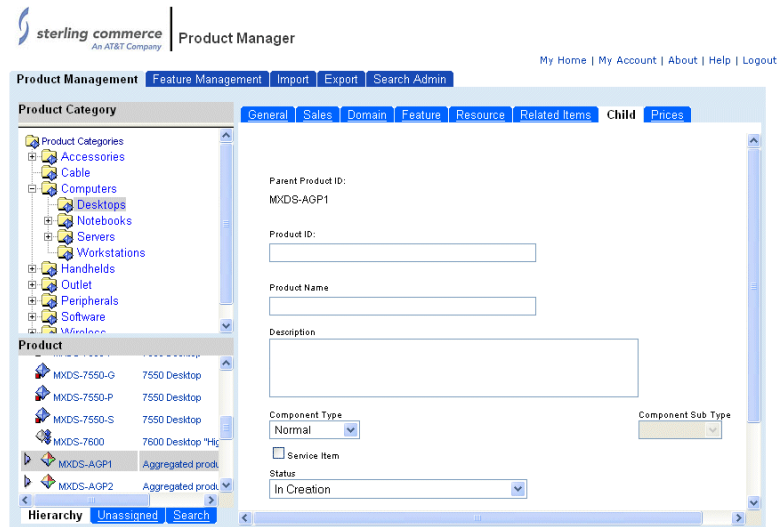


FIGURE 232. Product Detail Page: New Child Product

6. Enter a Product ID, Product Name, and Description for the new child product.
7. Select a component type.

TABLE 22. Valid Component Types

Component Type	Description
Normal	Most products belong to this type.
Configurable	<p>A product is configurable if you support the ability for a customer to punch out to a configuration application to configure this product.</p> <p>If you select this type, then the Model field appears. You must associate the product with a model (created with Visual Modeler), selected from the drop-down list. Note that you can only select models that have been compiled. See "Compiling a Model" on page 554 for more information.</p> <p>Partner administrators cannot create models, but they can associate products they create with models created by the enterprise administrator.</p>

TABLE 22. Valid Component Types

Component Type	Description
Assembly	A product is an Assembly if it is made up of a number of sub-assembly items each of which is a product or a plain text item (an item that can only be ordered as part of the assembly). If you select the Assembly option, then you can use the Assembly tab to specify the sub-assembly structure. See "Managing Assemblies" on page 401 for more information.
Aggregated	A product is an aggregated product if it is used to represent a set of similar products all of which share a common set of features.

8. If the new child product is a service item, click the Service Item check box. The Maintenance Model field appears. Maintenance models enable maintaining the service contract after the customer order is placed.

To select a maintenance model for this product:

- Click "...". The Hierarchical Entity Chooser pop-up window displays.
 - Navigate to the appropriate maintenance model for this service item product. The maintenance model can be the same as the configuration model.
 - Select the maintenance model, then click Done.
9. Set the status for the product. See "Product Statuses" on page 67 for more information about product statuses.
10. Select a start and end date for the product.
11. Click **Save Changes**.

The new product appears indented below its parent product in the lower left Navigation Panel.

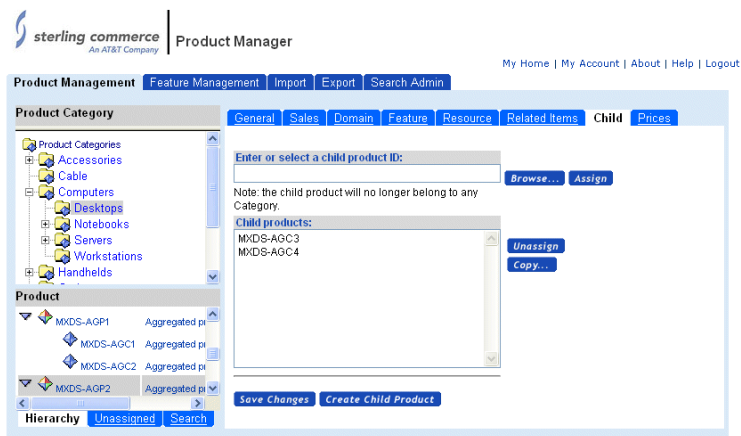


FIGURE 233. Product Detail Page: Child Product Created

For Assemblies, you can define products and text items that comprise the assembly. See "Managing Assemblies" on page 401. For Configurable products, you can either leave the product as a generic configured product (no pre-configured items) or you can pre-select the items to be configured with the product. See "Managing Pre-Configured Products" on page 412.

Now that you have created the product, you can modify the product to:

- Assign domain codes to the product.
- Assign features and resources.

See "To Modify a Product" on page 382.

To Copy a Product

You can create a product by copying an existing product. When you copy a product, you copy its name, description, and other attributes, so after you copy the product, you must go back to modify any attributes that are different.

1. Navigate to the product category of the product that you wish to copy.
2. Click the Product tab.
3. In the list of products, select the product you wish to copy.
4. Click **Copy...** The Copy Products window is displayed.

Copy Products

Copy to Destination:
Please pick a category or an aggregated product as the copy destination. For each product, specify a new product ID and optionally modify the new product name. Note: Cannot copy to an aggregated product if an aggregated product exist in the copy list.

Source Product ID	Source Product Name	New Product ID	New Product Name
MX-PR-IMG-02	Matrix-Digital-Imaging-Expert-Set	<input type="text"/>	Copy of Matrix-Digital-Imagin

FIGURE 234. Copy Products Window

- Click **Browse...** to specify the product category in which you want to create the copy.
- Enter a new product ID for the copied product. As usual, this must be a unique product ID and so must not be the same as an existing product.
- Click **Copy**. A message is displayed to let you know that the copy operation has been successful and then you can close the window.
- Navigate to the new product to complete updating its information.

To Modify a Product

- Click **Product Master** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.

The Product Management tab of the Sterling Product Manager page displays.

- Navigate to and select the product.

See "To Find and Select a Product in the Navigation Panel" on page 392.

- Select the product that you want to modify.

After you select the product, you can modify the information in one or more of the tabs described in the remaining steps.

Note: Click **Save Changes** before you move to another tab.

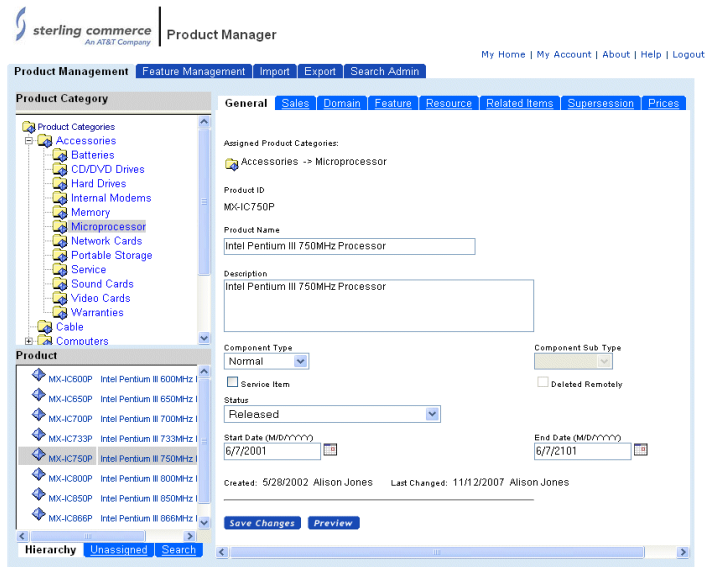


FIGURE 235. Product Detail Page: General Tab

4. In the **General** tab, change general information about the product and click **Save Changes**.
5. Click the **Sales** tab.

The screenshot shows the Sterling Commerce Product Manager interface. The top navigation bar includes 'sterling commerce' and 'Product Manager'. Below this, there are tabs for 'Product Management', 'Feature Management', 'Import', 'Export', and 'Search Admin'. The main content area is divided into a left sidebar for 'Product Category' and 'Product', and a central form for 'Sales' details. The 'Product Category' sidebar shows a hierarchy: Computers > Desktops > Workstations > MXDS-7490. The 'Product' sidebar lists several products: MXDS-7490 Matrix 7490 Desktop, MXDS-7510 Matrix 7510 Desktop, MXDS-7520 Matrix 7520 Desktop, MXDS-7550 Matrix 7550 Desktop, and MXDS-7600 Matrix 7600 Desktop. The central form has tabs for 'General', 'Sales', 'Domain', 'Feature', 'Resource', 'Related Items', 'Supersession', and 'Prices'. The 'Sales' tab is active, showing fields for 'Product ID' (MXDS-7490), 'Unit of Measure' (EA), 'Minimum Order Quantity' (1), and 'Lead Time in days' (0). There are also checkboxes for 'Cannot be Sold Separately', 'Not Eligible for Shipping Discount', 'Not Eligible for In-Store Pickup', and 'Not Shippable'. At the bottom, there are fields for 'Image URL' and 'Large Image URL' with 'Upload' and 'Browse Content Manager...' buttons.

FIGURE 236. Product Detail Page: Sales Tab

- To denote that a product is not sellable as a separate item, click the **Cannot Be Sold Separately** check box.
See "Products Sold Separately" on page 68 for an explanation of this check box.
- To denote that a product is not eligible for in-store pickup, check the **Not Eligible for In-Store Pickup** check box.
- To denote that a product is not eligible for shipping discounts, check the **Not Eligible for Shipping Discount** check box.
- To denote that a product is not shippable, check the **Not Shippable** check box.
- Specify a quantity per unit (the default is one) and a unit of measure.
- Specify a minimum order quantity and the lead time (in days).
- In the Image URL field, enter the URL to an image that can be displayed with the product.

Attention: Do not include any spaces in the image name. For example, you can enter **images/300series.gif** or **images/300_series.gif**, but not **images/300 series.gif**.

- In the Data Sheet URL field, enter the path to a data sheet file that can be displayed with the product.

6. Click the **Domains** tab.

You can assign classification codes to or remove a classification code from a product.

- a. Select the appropriate domain from the drop-down list.
- b. Assign or remove a code
 - To assign a code, enter a classification code for the product and click **Assign**. The classification code is added to the list of assigned classifications for the product in that domain.
 - To remove a code, select the classification from the list of classification codes for the domain and click **Delete Selected**.
- c. Click **Save Changes**.

7. Click the **Features** tab.

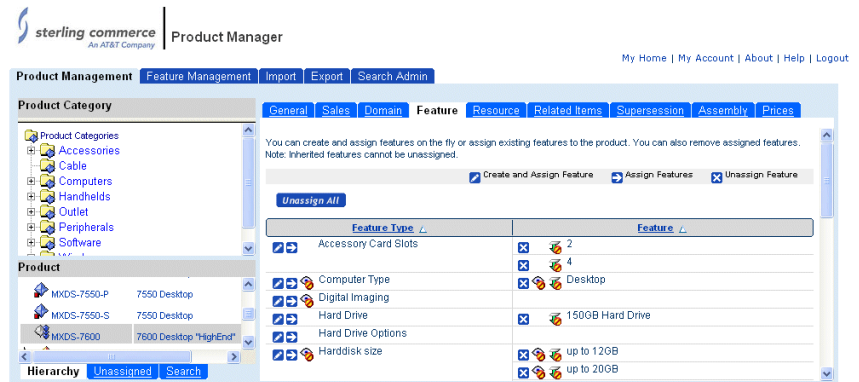


FIGURE 237. Product Detail Page: Feature Tab

- To assign features, select a feature type from the drop-down list, and then select the features from the Unassigned Features list box. Click **Add**.

Note: If the product belongs to multiple categories, then the **Feature** tab includes an extra field called Product Category Paths. This drop-down list displays all the category paths to which the product belongs. If you select a path, then the feature type drop-down list contains the feature types for this path.

- To unassign features, select the features in the Assigned Features list box and click **Remove**.

Note: Users cannot unassign features belonging a category to which the user does not have access.

Make sure you click **Save All Changes** before moving to another tab.

- Click the **Resource** tab.

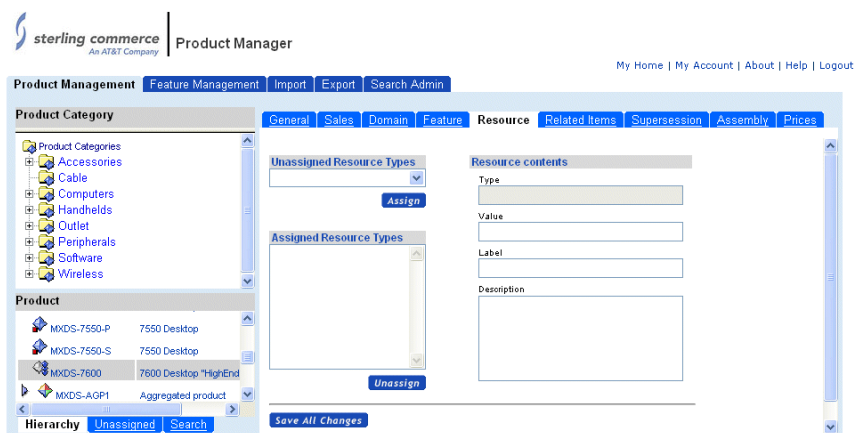


FIGURE 238. Product Detail Page: Resource Tab

- To assign resources, select the appropriate resource type from the drop-down list, and then enter the appropriate details (see Table 23 on page 386). Click **Assign**.

TABLE 23. Resource Fields

Field	Description
Type	Resource type.
Value	Location of the resource. For example, the URL address or the path to a resource.
Label	Optional. For example, the image caption, the title of a data sheet or white paper, and so on.
Description	Your comments about this resource.

- To unassign resources, select them in the Assigned Resources list box, then click **Unassign**.

9. Click the **Related Items** tab.

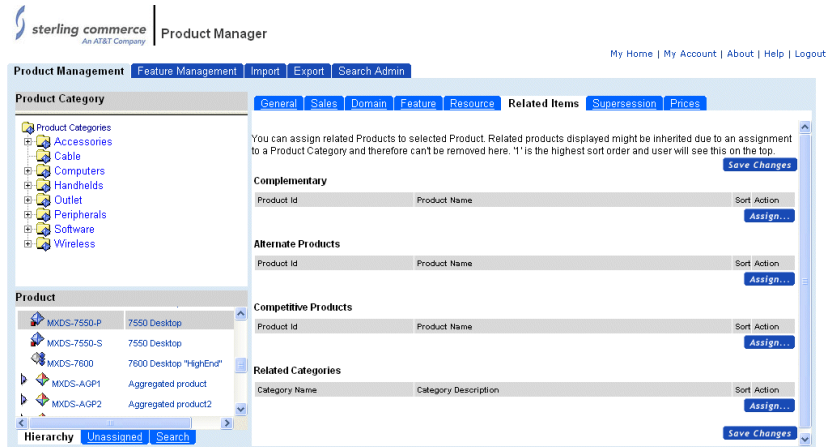


FIGURE 239. Product Detail Page: Related Items Tab

See "Related Products" on page 397 for the more information about related products.

10. Click the **Supersessions** tab.

See "Superseding a Product" on page 400 for the tasks involved in supersession.

11. Click the **Assembly** tab.

See "Managing Assemblies" on page 401 for the tasks involved in managing assembly products.

12. Click the **Prices** tab.

See "Pricing Products" on page 393 for the tasks involved in assigning prices to products, assigning products to price lists, and specifying suppliers for products.

Click **Save All Changes**.

To Delete a Product

You can delete products when you no longer wish to manage them: typically, this is when the products have reached the end of their useful life. Products can only be deleted when their status is either "In Creation" or "Blocked".

1. Navigate to the product that you wish to delete.
2. On the product detail page, verify that the product has either the In Creation or Blocked status.
3. Click **Delete**.
4. A confirmation dialog box is displayed. If you click **OK**, then the Sterling Multi-Channel Selling Solution checks that the product is not currently in use. If the product is in use (as described below), then an error message is displayed to say that the product cannot be deleted. If you want to delete the product, then you must correct the conditions preventing its deletion.

Once the product is deleted, then it is no longer visible to enterprise users or end-users.

TABLE 24. Conditions that Prevent Deletion

Condition	Comments
Pricing	If the product is on any price list, then it cannot be deleted.
Configurator	If the product is attached to any item in a model, then it cannot be deleted.

To Assign Products as Children to an Aggregated Product

You can create a product as a child to a parent product ("To Create A Product As a Child of an Aggregated Product" on page 377), or you can create a product ("To Create a Product" on page 373), then assign the product to the parent. This task describes how to assign a product to a parent.

1. Click **Product Master** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.

This displays the Product Management tab of the Sterling Product Manager page.

2. Navigate to and select the parent category of the aggregated product.

If the aggregated product is not assigned to any category, then click the **Unassigned** tab to select from a list of unassigned products.

Once you select the parent category, the products assigned to that category appear in the product frame (lower left) of the navigation panel.

3. Select the aggregated product.

If the product is assigned to a category, then find and click the product from the list in the product frame. The right-hand frame displays the tabs containing information about the product.

4. Click the **Child** tab.

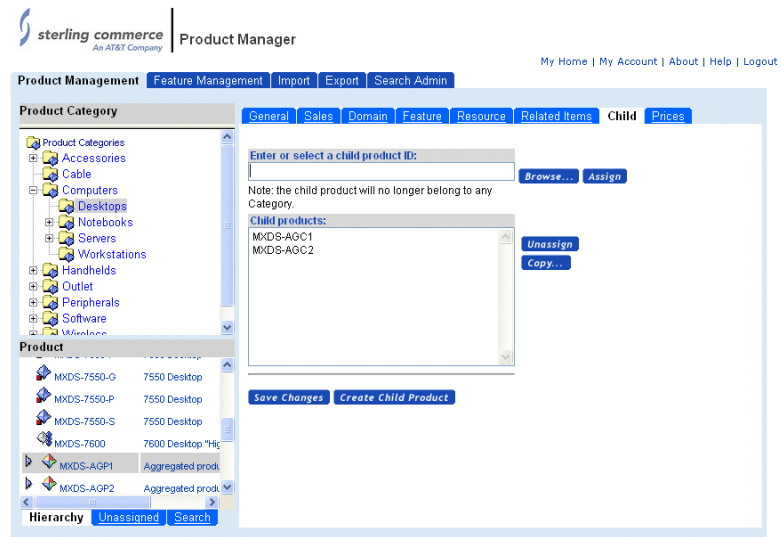


FIGURE 240. Product Detail Page: Child Tab

5. Assign the product.

a. In the **Enter or select a child product ID** field, enter a product ID.

You can click **Browse...** to display the Hierarchical Entity Chooser to browse or search for the product. See "Using the Hierarchical Entity Chooser" on page 434.

b. Click **Assign**.

6. Repeat the last step for each product ID you want to assign.

7. Click **Save Changes**.

8. If there are features associated with the products, then a frame appears to select the feature types:

a. Select feature types.

- b. Click **Save All Changes** in the Feature Type Selection frame.
- c. The Child tab is re-displayed.
- d. Click **Save Changes** in the Child tab.

The newly-assigned products appear indented below the parent product in the lower left frame. If the product that is assigned to the aggregated product belonged to a category, then after assignment the product will belong to no category.

To Unassign Child Products from an Aggregated Product

1. Click **Product Master** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.

This displays the Product Management tab of the Sterling Product Manager page.

2. Navigate to and select the parent category of the aggregated product.

If the aggregated product is not assigned to any category, then click the **Unassigned** tab to select from a list of unassigned products.

Once you select the parent category, the products assigned to that category appear in the product frame (lower left) of the navigation panel.

3. Select the aggregated product.

If the product is assigned to a category, then find and click the product from the list in the product frame. The right-hand frame displays the tabs containing information about the product.

The screenshot shows the Sterling Commerce Product Manager interface. At the top, the Sterling Commerce logo and 'Product Manager' title are visible. Navigation links include 'My Home', 'My Account', 'About', 'Help', and 'Logout'. Below the title bar, tabs for 'Product Management', 'Feature Management', 'Import', 'Export', and 'Search Admin' are present. The main content area is divided into two panes. The left pane, titled 'Product Category', shows a tree view with categories like Accessories, Batteries, CD/DVD Drives, Hard Drives, Internal Modems, Memory, Microprocessor (selected), Network Cards, Portable Storage, Service, Sound Cards, Video Cards, Warranties, Cable, and Computers. Below this is a 'Product' list showing various Intel Pentium III processors. The right pane, titled 'General', contains fields for 'Assigned Product Categories' (Accessories -> Microprocessor), 'Product ID' (MX-IC750P), 'Product Name' (Intel Pentium III 750MHz Processor), and 'Description' (Intel Pentium III 750MHz Processor). It also includes dropdowns for 'Component Type' (Normal) and 'Component Sub Type', checkboxes for 'Service Item' and 'Deleted Remotely', a 'Status' dropdown (Released), and date pickers for 'Start Date' (6/7/2001) and 'End Date' (6/7/2101). At the bottom, it shows 'Created: 5/28/2002 Allison Jones' and 'Last Changed: 11/12/2007 Allison Jones'. Buttons for 'Save Changes' and 'Preview' are at the bottom right.

FIGURE 241. Product Detail Page: General Tab

4. Click the **Child** tab.

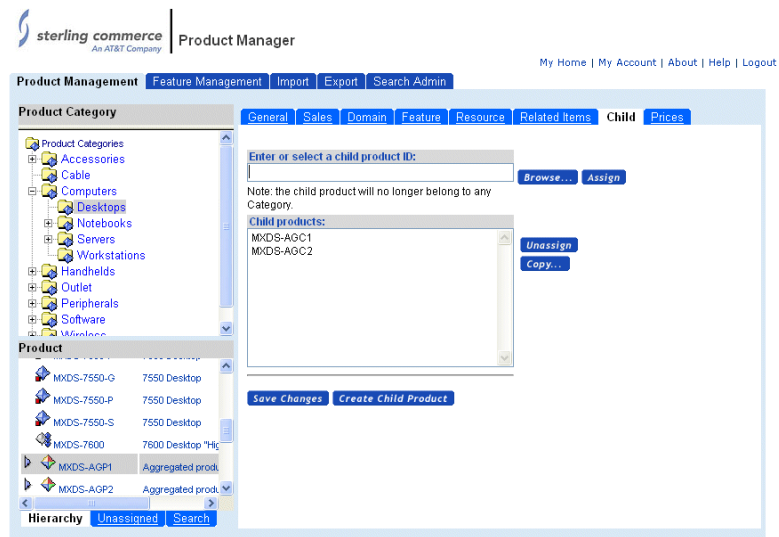


FIGURE 242. Product Detail Page: Child Tab

5. In the list box, find and select the product IDs you want to unassign.
6. Click **Unassign**.
7. Click **Save Changes**.

To Find and Select a Product in the Navigation Panel

There are three ways to find products in the navigation panel: browse the unassigned products, browse products that are assigned to a category, and searching for the product.

To browse unassigned products, click the **Unassigned** tab in the navigation panel, then find and select the assembly from the list.

To browse products assigned to a category:

1. Navigate to the parent category for the product and select the parent category. The product frame displays the products associated with the parent category.
2. In the product frame of the navigation panel, select the assembly.

To search for the product, click the **Search** tab. This enables you to search the product catalog according to product ID, product name, product description, assigned feature, or assigned resource.

Note: An assembly icon next to the product designates the product as an assembly.

Pricing Products

Earlier releases of the Sterling Multi-Channel Selling Solution managed pricing through the pricing administration application as described in "Setting Prices for Products" on page 682. This release also enables you to manage the prices for a product through the product management UI as described in this section. In general, the basic organization of pricing remains the same: products are priced by adding them to price lists and then assigning the prices to partners. Users see prices based on the effective price lists assigned to their partner. See "Setting Prices for Products" on page 22 for more information.

To Add a Product to a Price List

1. Using the product manager UI, navigate to the product.
2. Click the Prices tab.

General Sales Domain Feature Resource Related Items Supersession Prices

Maintain Prices Assign New Mass Update

Product ID: MX-ABAT05 Product Name: Triple-Capacity Lithium-Ion Battery

Find: Price List Name Go Show All Advanced Search

Select appropriate search criteria to find price list(s). Partial entries along with the wild card character(*) are supported. Delete button to delete selected price list. After changing prices, press the Save button to save changes.

Delete

Select All Deselect All

Name	Currency	Start Date	End Date	Supplier	List Price	+/- in %	+/- in Abs. Pr
Enterprise Master List	USD				235.000000		23

FIGURE 243. Prices Tab: Maintain Prices Tab

3. Click the Assign New tab.

GeneralSalesDomainFeatureResourceRelated ItemsSupersessionPrices

Maintain PricesAssign NewMass Update

Product ID: MX-ABAT05Product Name: Triple-Capacity Lithium-Ion Battery

First search for price lists you want to assign to the selected product. Partial entries using the wild card character(*) are supported. Enter price and discounts/uplifts, select the price list and press the Assign button to assign the product to a price list.

Find: Price List Name☐ View Unassigned OnlyGoShow AllAdvanced Search

Assign

Select AllDeselect AllPreviousNext

	Name ^	Currency	Start Date	End Date	Supplier	List Price	+/- in %	+/- in Abs.	Price
<input type="checkbox"/>	actual	USD							
<input type="checkbox"/>	aeβten	USD							
<input type="checkbox"/>	Aeβten_uc	USD							
<input type="checkbox"/>	Aessten_uc1	USD							
<input type="checkbox"/>	aessten1	USD							
<input type="checkbox"/>	aβten	USD							
<input type="checkbox"/>	Aβten_uc3	USD							

FIGURE 244. Prices Tab: Assign New Tab

- For each price list to which you want to add the product, check the price list check box and enter the price for the product. Optionally, you can enter a percentage price adjustment and an absolute price adjustment.
- Click **Assign**.

To Change Prices for a Product

You can update prices for a product through the product manager UI as follows:

- Using the product manager UI, navigate to the product.
- Click the Prices tab.
- For each price list on which to modify the price, check the price list check box and enter the new price for the product on the price list. Optionally, you can modify the percentage price adjustment and the absolute price adjustment.
- If you want to modify the conditional rules associated with this product on this price list, then click the Conditional Rules button.

The Conditional Rules window is displayed.

Euro: MXWS-7650
Close

Edit Quantity Tiers
Edit Conditional Rules

Make changes to quantity tiers and/or conditional rules and save changes by clicking on 'Save'

Save

#	From Qty	To Qty	List Price	+/- in %	+/- in Abs.	Price
1	1		6137.0300			6137.03
2						
3						
4						
5						
6						
7						
8						
9						
10						

FIGURE 245. Conditional Rules Window

- Enter conditional rules as appropriate. See "Conditional Pricing" on page 687 for more information about conditional rules.
- Click **Save**.
- On the Maintain Prices tab, click **Save**.

To Change All Prices for a Product

You can use the mass update functionality of the pricing administration application through the product manager UI to update all the prices for a product as follows:

- Using the product manager UI, navigate to the product.
- Click the Prices tab.
- Click the Mass Update tab.

GeneralSalesDomainFeatureResourceRelated ItemsSupersessionPrices

Maintain PricesAssign NewMass Update

Product ID: MXWS-7530Product Name: 7530 Workstation

Perform changes on all or only the set of price lists specified via the search criteria. First define the scope of the mass update by showing all or searching for a specified subset of price lists. The update button executes defined mass adjustments to all the price lists in scope and saves the changes.

Find: Price List Name

Go

Show All

Advanced Search

Mass Update

Name	Currency	List Price	+/- in %	+/- in Abs.	Price
Education	USD	2350.000000			2350.0
England	GBP	1621.500000			1621.5
Enterprise Master List	USD	2350.000000			2350.0
EOL Products	USD	0.000000			0.0
Euro	EUR	2655.500000			2655.5
France	FRF	17343.000000			17343.0
Germany	DEM	5170.000000			5170.0
Germany	DEM	5170.000000			5170.0

FIGURE 246. Prices Tab: Mass Update Tab

4. Select the price lists to which you want to apply the mass update by conducting a search that retrieves those price lists and no others.
5. Click **Mass Update**.

Pricing Mass Update - Microsoft Internet Explorer

Pricing Mass Update

Product ID: MK-ABAT05 Product Name: Triple-Capacity Lithium-Ion Battery [Close](#)

Perform changes on the selected price lists. The 'Delete' button removes the product from the selected price lists and saves the changes. The 'Update' button executes defined mass adjustments to all the product's prices on the selected price lists and saves the changes.

Prices

For each price list item in scope:

[Delete](#) Delete price list items

[Update](#)

Modify List Price' by ☐ replacing the current value with .

☐ incrementing/decrementing the current value by %.

☐ incrementing/decrementing the current value by .

Modify '% in %' by ☐ replacing the current value with .

☐ incrementing/decrementing the current value by %.

☐ incrementing/decrementing the current value by .

Modify '% in Abs' by ☐ replacing the current value with .

☐ incrementing/decrementing the current value by %.

☐ incrementing/decrementing the current value by .

FIGURE 247. Pricing Mass Update Window

6. Specify the change.
 - a. Click **Delete** to delete the product from all the price lists in scope.
 - b. Click **Update** to apply the change to all of the price lists in scope.

See "To Set Prices for Products as a Mass Update" on page 683 for more information about the sort of changes that you can make.

Related Products

You can link products together by specifying that one product is related to another. When a customer views the product detail page for a product, they can see that the product has related products. Related products include service contracts, warranties, and so on that a customer might want to buy at the same time as the product.

We say that "product B is related to product A" or "product A has product B related to it" if when you view the product detail page for product A, you see product B listed as a related product. Note that this is not a symmetrical relationship: most of the time, the relationship is defined in one direction only.

You can relate one or more products to any product, or you can relate a product to one or more products. For example, a hardware product A may have two related service contract products B and C, and service contract product B may also be related to product D.

- When customers view the product detail page for product A, then they see both related products B and C listed.
- When customers view the product detail page for product D, then they see only related product B listed.

Types of Related Products

The following lists the types of related products:

- Complementary: when an end-user views a product detail page, these products are displayed on the Complementary items tab.
- Alternate: when an end-user views a product detail page, these products display in a list under the Alternative Selections heading.
- Competitive: this type of related product is not displayed through the out-of-the-box UI, but the information can be used to track competitive products for product managers.
- Related Categories: these display to end-users as they navigate the product catalog to help them quickly access products in related categories.

To Relate One Product to Another

If you want to relate product B to product A, then you must decide what type of relation product B has to product A.

1. Using the Product Manager UI, navigate to the product detail page for Product A.
2. Click the Related tab.

General Sales Domain Feature Resource **Related Items** Supersession Prices

You can assign related Products to selected Product. Related products displayed might be inherited due to an assignment to a Product Category and therefore can't be removed here. '1' is the highest sort order and user will see this on the top.

Save Changes

Complementary

Product Id	Product Name	Sort	Action
MX-STDBAT35	Standard Battery	1	<input type="button" value="X"/>

Assign...

Alternate Products

Product Id	Product Name	Sort	Action
MX-PI2000	Matrix MXI-2000 Printer	1	<input type="button" value="X"/>

Assign...

Competitive Products

Product Id	Product Name	Sort	Action
MX-PL1052	Matrix MXL-1052 Printer	1	<input type="button" value="X"/>

Assign...

Related Categories

Category Name	Category Description	Sort	Action
Digital	Enter into digital photography by choosing one of our high quality but affordable cameras. We offer for newcomers and professionals the right solution.	1	<input type="button" value="X"/>

Assign...

Save Changes

FIGURE 248. Product Detail Page: Related Items Tab

3. Click **Assign...** for the appropriate relation type.
4. Using the Hierarchical Entity Chooser, navigate to and select product B, and click **Done**.
5. Check that the correct product is listed in the list of related products.
6. Click **Save Changes**.

You can repeat Steps 2 through 5 as many times as need be to relate other products to product A.

To Remove a Product Relationship

If Product B is related to Product A, and you want to remove this relationship, then do the following:

1. Using the Product Manager UI, navigate to the product detail page for Product A.
2. Click the Related tab.
3. Identify Product B in the lists of related products and click **Delete**.
4. Click **Save Changes**.

Superseding a Product

See "Superseding One Product with Another" on page 74 for an explanation of supersession.

To Supersede a Product

After you have displayed the product you want to supersede (see "To Modify a Product" on page 382), you can use this procedures to supersede a product.

1. Click the **Supersession** tab.

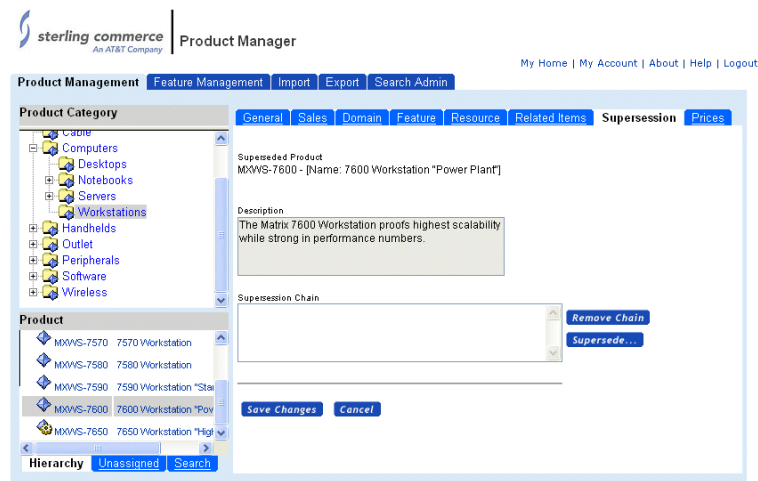


FIGURE 249. Product Management Panel: Supersession Tab

2. Click **Supersede**.

The Hierarchical Entity Chooser displays.

Attention: This step fails if the current product is already superseded. If there is a supersession chain, then click Remove Chain to remove the chain.

- Using the chooser, select the product you want to supersede, then click **Done** in the chooser window.

See "Using the Hierarchical Entity Chooser" on page 434 for detailed instructions on using the chooser.

After you click **Done**, the product ID of the superseding product appears in the Supersession Chain box.

FIGURE 250. Supersession Tab: Superseding Product

To Remove a Superseding Product

After you have displayed the product you want to supersede (see "To Modify a Product" on page 382), you can use this procedures to supersede a product.

- Click the **Supersession** tab.

The Supersession Chain field displays the superseding product (as well as any other products along the chain).

- Click **Remove Chain**.

The superseded product is detached from the entire supersession chain. All superseding products are removed from the supersession chain.

Note:	The relationship between any products in the supersession chain remain valid.
--------------	---

Managing Assemblies

When you create a product as component type "Assembly", you decide the assembly's component sub-type: either bundle (the default) or physical kit. The next step is to define the products and text items that comprise the assembly. See

"Managing Assemblies" on page 73 for information about component sub-types and defining the products and text items that comprise the assembly.

To Define the Parts in an Assembly

1. Create a product with the component type "Assembly".
See "To Create a Product" on page 373. When you click the product in the lower-left navigation panel, you will see a new tab, the **Assembly** tab (Figure 251 on page 402).
2. Click the **Assembly** tab.

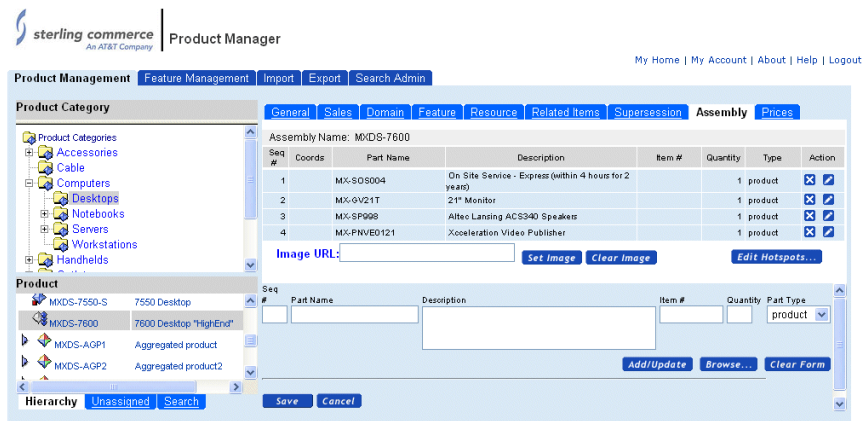


FIGURE 251. Product Management Panel: Assembly Tab

3. Add parts to the list.
You can add parts using the Hierarchical Entity Chooser, or you can add parts manually.
To add parts using the Hierarchical Entity Chooser:
 - a. Click **Browse...** in the work area.
This displays the chooser window. See "Using the Hierarchical Entity Chooser" on page 434 for instructions on using the chooser. The line items will fill the list automatically when you click **Done** in the chooser window.

- b. For each line item, click its corresponding update icon in the Action column.

The selected line item is displayed in the fields at the bottom of the panel.

- c. Enter the information as described in Table 25 on page 403.

Seq # and Quantity are required fields.

- d. Click **Add/Update**.

To add parts manually:

- e. Enter the information as described in Table 25 on page 403.

Seq # and Quantity are required fields.

- f. Click **Add/Update**.

Attention: You must click **Save** to add the part permanently to the assembly list.

- g. Repeat these steps for each component you want to add manually.

TABLE 25. Part Information: Assembly

Field	Description
Seq #	Required. The position of the part relative to the other parts in the assembly, usually mapped to a callout number in a parts diagram.
Part Name	The product ID. If you select a product from the navigation list, then this field is auto-filled with the product ID. If you select "product" as the part type (see below), then you can manually type a product ID. If you select "text", then you can manually type a part name.
Description	The description of the part.
Item #	The item number represents an integral part of the assembly to which the part you are adding will belong. For example, the item number might represent a subassembly of the larger assembly. It could also represent a single item such as a warranty.
Quantity	Required. The quantity-per-assembly (the amount of the part needed in each assembly)

TABLE 25. Part Information: Assembly (Continued)

Field	Description
Part Type	Product (a product used to complete the assembly) or Text (a text item that is included as part of the assembly) If you select Product , then when you click Save the Sterling Multi-Channel Selling Solution will attempt to match the item name with a product ID in the product catalog.

4. Click **Save**.

Once you have added the parts, you can modify the part information ("To Modify a Line Item in an Assembly" on page 404). You can also define "hot spots" within a parts diagram ("To Define or Relocate Hot Spots in a Parts Diagram" on page 405).

To Modify a Line Item in an Assembly

1. Click **Product Master** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.

This displays the **Product Management** tab of the Sterling Product Manager page.

2. Find and select the assembly.

See "To Find and Select a Product in the Navigation Panel" on page 392.

When you select the product, the detail information for the product appears in the content panel. A product of the "Assembly" type includes an **Assembly** tab.

3. Click the **Assembly** tab.

The content panel displays the line items belonging to the assembly.

Seq #	Coords	Part Name	Description	Item #	Quantity	Type
10		MXDS-2001	Docking Station	1	1	text
20		MXPC-2000	Power Cord	2	1	text

Image URL: [Set Image](#) [Clear Image](#) [Edit Hotspots...](#)

[Add/Update](#) [Browse...](#)

[Save](#) [Cancel](#)

FIGURE 252. Assembly Tab

4. In the list of parts in the **Assembly** tab, find the item you want to modify, then click its corresponding update icon in the Action column.

The line item information appears in the fields in the lower area of the Assembly tab.

5. As necessary, modify the information as described in Table 25 on page 403.
6. Click **Add/Update**.

To Define or Relocate Hot Spots in a Parts Diagram

A "hot spot" is a set of coordinates in an image, typically a parts diagram, that enables end-users to order parts by displaying the parts diagram and clicking on the appropriate "hot spot" in the image.

1. Display the Assembly panel as described in either "To Define the Parts in an Assembly" on page 402 or "To Modify a Line Item in an Assembly" on page 404.

Seq #	Coords	Part Name	Description	Item #	Quantity	Type
10		MXDS-2001	Docking Station	1	1	text
20		MXPC-2000	Power Cord	2	1	text

Image URL: [Set Image](#) [Clear Image](#) [Edit Hotspots...](#)

[Add/Update](#) [Browse...](#)

[Save](#) [Cancel](#)

FIGURE 253. Assembly Panel

2. Load an image, if necessary.

Attention: The image you load will replace any image that is currently displayed.

- Scroll to the bottom of the parts list until you see the Image URL field.
- In the Image URL field, type the URL for the image you want to load.

The Sterling Multi-Channel Selling Solution supports any image format that can be invoked by HTML.

- Click **Set Image**.

The image is displayed at the bottom of the list of parts.

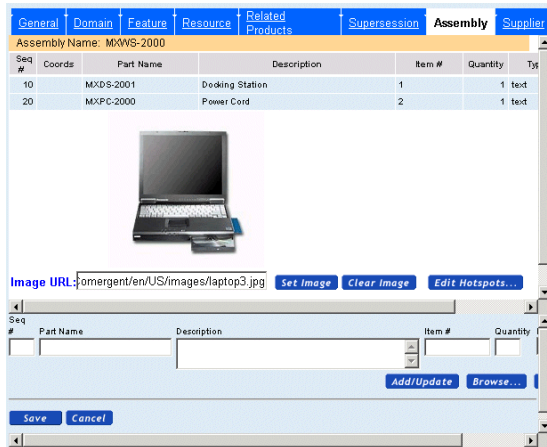


FIGURE 254. Assembly Panel with Image Loaded

3. Click **Save**.
4. Click **Edit Hot Spots**.

This displays the Edit Hot Spots window.

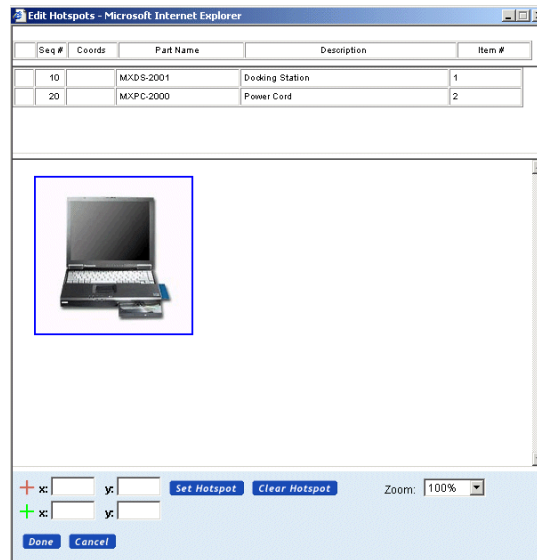


FIGURE 255. Edit Hot Spots Window

5. Create the hot spot.
 - a. In the list of parts, find the part for which you want to define or relocate its “hot spot”.
 - b. Click the radio button at the far left of the line.

If the part already has a designated hot spot, then two sets of crosshairs will be displayed on the image, showing the area designated for the hot spot.
 - c. In the image, find the location that you want for the “hot spot”.

This can be any area you want to designate; for example, the individual part itself or a callout designation for the part.

- d. Click in the upper left-hand corner of the hot spot.

A set of crosshairs appear in the spot you clicking (Figure 256 on page 409), designating the first set of coordinates for the hot spot. The coordinates of this spot also appear in the first set of fields at the bottom of the window.

Note: You can also enter the coordinates manually using the fields in the lower part of the window: the first set of fields for the first set of coordinates, the second set of fields for the second set of coordinates.

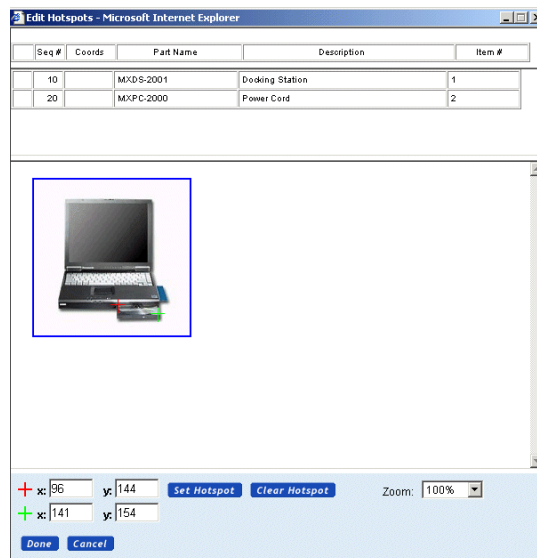


FIGURE 256. Edit Hot Spots Window with Coordinates Selected

- e. Click in the lower right hand corner of the spot.

Another set of crosshairs appear in the spot you clicking, designating the second set of coordinates for the hot spot. The coordinates of this spot also appear in the second set of fields at the bottom of the window.

- f. Click **Set Hotspot**.

A checkmark appears in the Coords column in the list of parts, indicating that this part has a hot spot designated for it in the image.

Note: You can click **Clear Hotspot** to clear the hot spot and start over.

6. Repeat the last step for each hot spot you want to create.
7. Click **Done** when you are done creating hot spots.

This closes the Edit Hot Spot window and returns you to the Edit Assembly tab. A checkmark appears in the Coords column for all parts for which a hot spot is defined.

To Delete a Hot Spot

1. Display the Edit Hot Spots window as described in "To Define or Relocate Hot Spots in a Parts Diagram" on page 405.

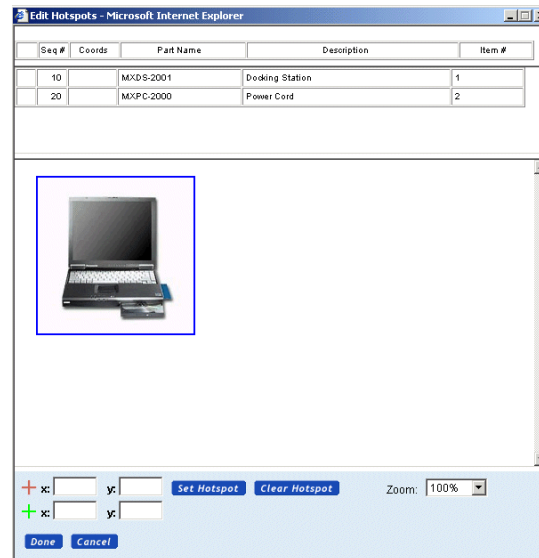


FIGURE 257. Edit Hot Spots Window

2. In the list of parts, find the part whose hot spot you want to delete.
3. Click the radio button at the far left of the line.

Two sets of crosshairs will appear, designating the current hotspot.

4. Click **Clear Hotspot**.

The crosshairs will disappear. The checkmark in the Coords column will be removed.

5. Repeat the last two steps for each hot spot you want to delete.

6. Click **Done** when you are done deleting hot spots.

This closes the Edit Hot Spot window and returns you to the Edit Assembly tab.

To Delete an Item from an Assembly

1. Click **Product Master** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.

This displays the **Product Management** tab of the Sterling Product Manager page.

2. Find and select the assembly.

For assigned products:

- a. Navigate to the parent category for the product and select the parent category. The product frame displays the products associated with the parent category.
- b. In the product frame of the navigation panel, select the product that is the assembly

For unassigned products, click the **Unassigned** tab in the navigation panel, then find and select the assembly from the list.

You can also click the **Search** tab to search the product catalog according to product ID, product name, product description, assigned feature, or assigned resource.

When you select the product, the detail information for the product appears in the content panel.

3. Click the **Assembly** tab.

The content panel displays the line items belonging to the assembly.

4. In the list of items at the top of the tab, find the item that you want to delete.
5. Click the **Delete** icon in the Action column.

The item is no longer displayed in the list of items.

6. Click **Save**.

The item is deleted from the list of items.

Managing Pre-Configured Products

When you create a configurable product, you must associate the new product with a model previously created using the Visual Modeler. You can either leave the product-model association as is, in which case it represents a generic configured product (no pre-defined configurations), or you can pre-configure the product with your own selections. These selections form the starting point for any configuration performed by the end-users.

To Pre-configure a Configurable Product

1. Click **Product Master** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.

This displays the Product Management tab of the Sterling Product Manager page.

2. Find and select the configurable product.

For assigned products:

- a. Navigate to the parent category for the product and select the parent category. The product frame displays the products associated with the parent category.
- b. In the product frame of the navigation panel, select the product.

For unassigned products, click the **Unassigned** tab in the navigation panel, then find and select the product in the list.

You can also click the **Search** tab to search the product catalog according to product ID, product name, product description, assigned feature, or assigned resource.

When you select the product, the detail information for the product appears in the content panel.

3. In the content panel, click the **Configuration** tab.

General Domain Feature Resource Related Products Supersession **Configuration** Supplier

Product ID: MXWS-9999

Model: Computers/Workstations/MXWS-1000

Configuration:

Product ID	Item Name	Item Description	Qty
No Configuration Data			

Save Changes Configure

FIGURE 258. Product Management Panel: Configuration Tab

4. Click **Configure**.

This displays the Configuration screen.

General Domain Feature Resource Related Products Supersession **Configuration** Supplier

Configure:

Price as configured: \$1,000.00

Lead Time: 0.0 week(s)

Done Update Summary Reset

Please select a monitor

☒ None \$0.00

FIGURE 259. Product Configuration Screen

5. Define the configuration.

- Select the items to be included in the configuration.
- Click **Done**.

This re-displays the **Configuration** tab in Sterling Product Manager.

Product ID: MXWS-9999

Model: Computers/Workstations/MXWS-1000

Configuration:

Product ID	Item Name	Item Description	Qty
MXWS-1000	MXWS-1000		1
	Monitors	Please select a monitor	1
	Optquest Q95	Optquest Q95	1

Changes have not been saved.

[Save Changes](#) [Configure](#) [X Delete](#)

FIGURE 260. Configurable Product with Configuration

6. Click **Save Changes**.

To Delete a Configuration for a Pre-Configured Product

Note: The steps described here refer only to deleting the configuration for the associated model. This does not delete the product itself or the product-model association.

1. Click **Product Master** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.

This displays the Product Management tab of the Sterling Product Manager page.

2. Find and select the configurable product.

For assigned products:

- a. Navigate to the parent category for the product and select the parent category. The product frame displays the products associated with the parent category.
- b. In the product frame of the navigation panel, select the product.

For unassigned products, click the **Unassigned** tab in the navigation panel, then find and select the product from the list.

You can also click the **Search** tab to search the product catalog according to product ID, product name, product description, assigned feature, or assigned resource.

When you select the product, the detail information for the product appears in the content panel.

3. In the content panel, click the **Configuration** tab.

The **Configuration** tab displays the items included in the current configuration (see Figure 260 on page 414).

4. Click **Delete**.
5. Click **Save Changes**.

You can either create a new configuration for the product (see "To Pre-configure a Configurable Product" on page 412) or you leave the product as a generic configured product.

Importing Products

When you have large amounts of product data that you want to add to the Sterling Multi-Channel Selling Solution, you can create an import set consisting of the categories and products you want to import. You import the products as a catalog import set in dXML format (see "Import File Properties" on page 417 for its description). You may customize parameters for an import set by using the System Administration feature.

Partners can also use this mechanism to import their catalog data. See "Importing Partner Product Information" on page 423 for more information.

You can also post updates to the product catalog into the Sterling Multi-Channel Selling Solution using the CatalogRequest message. See "Posting CatalogRequest Messages" on page 424 for more details.

To Create an Import Set

1. Click **Product Master** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.

This displays the Product Management tab of the Sterling Product Manager page.

2. Click the **Import** tab.

The screenshot shows the 'Product Manager' interface with the 'Import' tab selected. Under the 'General' section, the 'Import Set Name' is 'CatalogImportSet'. The 'Name' field contains 'CatalogImportSet'. The 'Import Format' is set to 'dXML_4.0'. The 'Price List' is 'China'. The 'Supplier Name' is 'None'. The 'File Name' is 'dxmlimportDataFile'. A 'Save All Changes' button is located at the bottom right of the form.

FIGURE 261. Import Panel

3. Click New....

This screenshot shows the 'Create New Import Set' sub-tab within the 'Import' panel. The fields are identical to Figure 261, but the 'File Name' field is empty. At the bottom of the form, there are 'Save' and 'Cancel' buttons.

FIGURE 262. Import Panel with General Tab: New Import Set

4. Enter the information for the fields listed below.

TABLE 26. Import Set Fields

Field	Description
Name	Description for the import set
Import Format	dXML_3.0 or dXML_4.0

TABLE 26. Import Set Fields (Continued)

Field	Description
Price List	If you want to import price information with the products, then select the price list to which the price information should be added or updated.
Supplier Name	The default supplier name. Select the supplier of the data only if the supplier is not specified in the file being imported.
File Name	The name of the file that contains the data being imported. You can specify the full path. If you do not specify the full path, then the system will default to the following directory <i>debs_home/Sterling/catalogexport/</i> .

5. Select the insertion point.

This is the point in the product hierarchy where the imported data should be placed. To select the point, navigate through the product hierarchy until you find the location you want, then select the directory. The direction appears in the Selected Insertion Point Field.

Note:	If you do not select an insertion point, then the imported data will be placed in the root product category.
--------------	--

6. Click **Save**.

The General tab reappears with the new import set displayed. You can either import the file now ("To Import a Catalog Immediately" on page 420) or schedule the import ("To Import a Catalog Using a Cron Job" on page 421).

Import File Properties

When you import products using the import set mechanism, you must use an XML file that conforms to the Catalog DTD defined in the dXML message family. This section describes the rules that determine how information in this file is processed during the import process.

Note:	Make sure that the files have no formatting information that makes them invalid XML documents. If the file is not a valid XML document, then no information is imported.
--------------	--

The file must begin with the MessageHeader element and declare the MessageType as Catalog:

```
<dXML>
  <MessageHeader>
    <MessageType>Catalog</MessageType>
    <MessageVersion>4.0</MessageVersion>
```

```
<MessageID/>
<SessionID/>
<SessionKeepAlive>30</SessionKeepAlive>
</MessageHeader>
<RemoteUser>
  <UserLogin/>
  <UserAuthenticator/>
</RemoteUser>
<Catalog>
  <CatalogHeader>
    <Description>dXML Catalog</Description>
    <DefaultSettings>
      <Currency>USD</Currency>
      <Language>en-US</Language>
    </DefaultSettings>
    <Supplier>
      <Name Type="PartnerID">Datasolve</Name>
      <SupplierID Domain="Supplier">29</SupplierID>
      <URL/>
      <PriceList>Datasolve Master List</PriceList>
    </Supplier>
  </CatalogHeader>
  <CatalogItems>
    ...
  </CatalogItems>
</Catalog>
</dXML>
```

The **Supplier** element is used to identify from which supplier the catalog data is being imported. In the case of an import of enterprise data, you should set the value of the **Type** attribute to "PartnerID", and set the value of the **Name** child element to the Manufacturer Name system property.

In the **Catalog** element, there is a child element for the **CatalogItems**. Each product that is to be imported is declared using a **ProductUpdate** element. This can include product and resource information for one or more locales.

```
<ProductUpdate Action="FullUpdateOrInsert">
  <Path>/Computers/Desktops</Path>
  <ProductID>MXDS-7510</ProductID>
  ...
</ProductUpdate>
```

You can define the following values for the **Action** attribute for a **ProductUpdate** element:

- **Insert**: use this action to add a product to the product catalog. An error is recorded if the product already exists in the catalog.

- **FullUpdate:** update all the information in the product using values provided in the import set or if nothing is specified the default value for the product. An error is recorded if the product does not exist.
- **IncUpdate:** update all the information in the product using values provided in the import set, but leave values already defined for other fields. An error is recorded if the product does not exist.
- **FullUpdateOrInsert:** if the product does not exist, then treat this in the same way as the Insert action. If it does exist, then treat this as a FullUpdate action.
- **IncUpdateOrInsert:** if the product does not exist, then treat this in the same way as the Insert action. If it does exist, then treat this as a IncUpdate action.

You can import pricing information for the product as part of the ProductUpdate element. This information is used to add or edit price information on the price list defined in the import set. It can include quantity tier information and this will override any quantity tier information currently specified for the product on the price list:

```
<Prices>
  <Price ListPrice="8600" PercentDiscount="100"
    AbsoluteDiscount="200"/>
  <QuantityTier From="100" To="190">
    <Price ListPrice="8000" PercentDiscount="50"/>
  </QuantityTier>
  <QuantityTier From="300">
    <Price ListPrice="70000" AbsoluteDiscount="1300"/>
  </QuantityTier>
  <QuantityTier From="400">
    <Price ListPrice="700000" AbsoluteDiscount="13000"/>
  </QuantityTier>
</Prices>
```

You can provide supplier information for products as part of the product import. This is how supplier information is processed:

1. The application will try to find out if there is a supplier defined in the importing file header. If there is one, then it will be used.
2. If there is no supplier defined in the header, then the supplier name defined in the import set will be used.
 - a. If the supplier name matches the Manufacturer Name system property, then all product IDs will be regarded as enterprise product IDs and imported directly.

- b. If the supplier name does not match the Manufacturer Name, then the product IDs in the importing XML file will be regarded as partner product IDs, and they will be converted to enterprise product IDs using the CMGT_SKU_MAPPING database table.
3. If you do not need product ID mapping, then just make sure the value of the Name child element of the Supplier element in the dXML file matches the Manufacturer Name system property.

To Delete an Import Set

Before you delete an import set, make sure you delete any scheduled cron jobs involving the import set being deleted.

1. Click **Product Master** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.

This displays the **Product Management** tab of the Sterling Product Manager page.

2. Click the **Import** tab.
3. Select the appropriate import set from the Import Set Name drop-down list.
4. Click **Delete**.

To Import a Catalog Immediately

1. Click **Product Master** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.

This displays the Product Management tab of the Sterling Product Manager page.

2. Click the **Import** tab.
3. Select the appropriate import set from the Import Set Name drop-down list.
4. Click **Import Now**.

When you click **Import Now**, the screen displays the progress of your import. You can click **Result Statistics** to display import result statistics.

Also, once the import is complete, three results files are created in the directory defined by the path in the File Name field of the import set (see Table 26 on page 416):

- Import Results File

- **Import Errors File**
Lists all the import records not imported.
- **Import Statistics File**

To Import a Catalog Using a Cron Job

1. Click **Product Master** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.
This displays the Product Management tab of the Sterling Product Manager page.
2. Click the **Import** tab to display the Import page.
3. Click **Schedule**.
This displays a list of the current cron jobs.
4. Click the link for the **Import Catalog** cron job.
5. This displays the Cron Job Configuration page for the Import Catalog cron job.

The screenshot shows the 'Edit Cron Job Configuration' page. At the top, there's a header with the Sterling Commerce logo and 'Administration' text. Below the header, there's a yellow bar with 'Edit Cron Job Configuration' and links for 'My Home', 'My Account', 'About', 'Help', and 'Logout'. Below this, there are 'Save All Changes' and 'Cancel' buttons. The main content area is divided into three sections: 'Cron Job Information', 'Cron Job Type', and 'Cron Job Schedule'. In 'Cron Job Information', 'Job Name' is 'Import Catalog', 'Program' is 'com.comergent.apps.productMgr.dataSynd.CatalogImportC', 'Command Line Arguments' is 'ImportSetName=CatalogImportSet', and 'Active' is unchecked. In 'Cron Job Type', 'Application' is selected, 'Username' is 'ajones', and 'Password' is masked. In 'Cron Job Schedule', 'Start date and time' is 'May 1 2001', 'End date and time' is 'Dec 31 21:59', and 'Frequency' is 'every 1 weeks'.

FIGURE 263. Cron Job Configuration Page

6. Change the information as necessary.

TABLE 27. Cron Job Configuration Page

Field	Description
Job Name	The name of the cron job
Program	The java implementation class that executes the job. You can use the predefined import cron job: com.comergent.apps.productMgr.dataSynd.CatalogImport Cron. Refer to the <i>Sterling Multi-Channel Selling Solution Developer Guide</i> for more information on creating cron jobs.
Command Line Arguments	The command line parameters that provide information about the job. The format is: ImportSetName=NAME, where NAME is the name of the import set you are scheduling.
Cron Job Type	Automatically set to Application . The displayed username and password are defaults. Enter a username and password. These are usernames and passwords for users specific to the Sterling Multi-Channel Selling Solution. The username and password you enter must have the privileges to be able to create import sets.
Start date and time End date and time	The effective start and end period between which dates and times the cron job will run. This, along with Frequency, determines when the job will run. For example, if you entered a frequency of three days, then the job will run every three days from the task start date and time until the task end date and time is reached. You can enter the same dates and times for both start date and time, in which case the job will be run only once, at a specific time.
Frequency	How often will the job be run? Every three days? Every week? Every five minutes? and so on.

7. Activate the job by checking the **Active** check box.
8. Click **Save All Changes**.

The import creates three results files in the directory defined by the path in the File Name field of the export set (see Table 26 on page 416):

- Import Results File

- **Import Errors File**
Lists all the import records not imported.
- **Import Statistics File**

Importing Partner Product Information

Partners can use the import sets to import catalog and pricing data into the Sterling Multi-Channel Selling Solution using their own product IDs and other product information. To import a product, they must perform these steps:

1. Define a SKU mapping entry which maps their product ID to a corresponding enterprise product ID. In defining the mapping, they must specify the enterprise partner ID as the Pricing SKU Authority using the unique string for the enterprise. This is defined as the Partner.com Manufacturer Name system property. They specify the enterprise product ID as the Pricing SKU and their corresponding product ID as the Mapped SKU. For example:

```
Pricing SKU Pricing SKU Authority Mapped SKU
MX-GV15F Matrix DS-GV15F
```

2. Create a catalog import set that includes the product in an element along these lines. The Name element in the Supplier element must take the value defined as the External Partner ID in the partner profile for their partner. You must set the value of the Type attribute to “PartnerID”.

```
<Supplier Type="PartnerID">
  <Name>Datasolve</Name>
  <SupplierID Domain="InternalSupplierID">29</SupplierID>
  <URL/>
  <PriceList>Datasolve Enterprise Master List</PriceList>
</Supplier>
...
<ProductUpdate Action="FullUpdateOrInsert">
<Path>/Computers/Notebooks</Path>
  <ProductID>DSLP-7410</ProductID>
  ...
</ProductUpdate>
```

Here the ProductID element is the partner product ID previously declared as the Mapped SKU.

Note that you can use a legacy form of the Catalog dXML file, in which you do not specify a Type attribute in the Supplier element. However, to use this legacy form, you must upload the SKU mapping information using the legacy form of the uploaded SKU mapping, in which the SKU authority is set to the partner external Partner ID.

3. Send the catalog import file to an enterprise administrator.
4. The enterprise administrator copies the catalog import file to the standard import location on the file system: ***debs_home/Sterling/catalogexport/***.
5. The enterprise administrator creates an import set as described in "To Create an Import Set" on page 415.
6. The enterprise administrator executes the import as described in "To Import a Catalog Immediately" on page 420 or "To Import a Catalog Using a Cron Job" on page 421.

Posting CatalogRequest Messages

You can update the product catalog by using a utility to post XML messages into the Sterling Multi-Channel Selling Solution. The XML message must conform to the CatalogRequest DTD which is defined in ***debs_home/Sterling/dXML/4.1/CatalogRequest.dtd***. See "CatalogRequest DTD" on page 1119 for more information.

To Update the Product Catalog using CatalogRequest

1. Create an XML document that conforms to the CatalogRequest DTD and which provides the update information you want to submit. Make sure that the MessageType element has the value "CatalogRequest" and the MessageVersion element has the value "4.0".
2. Using a utility such as the LocalPost utility, post the XML document into the Sterling Multi-Channel Selling Solution using the standard message URL with "/catalogimport" appended. For example:

`http://server:port/Sterling/msg/matrix/catalogimport`
3. Verify that a CatalogResponse message is returned. This provides information about the status of the request.

Exporting the Product Catalog

To export products and product categories, you create an export set that defines the product and categories to be exported, the file format to be used, and the name of the file to be generated. When the set is exported, the file is generated in the selected format and stored, by default, in the ***debs_home/Sterling/catalogexport/*** directory. You can change the name of the ***catalogexport*** directory, but the new directory *must* be located in the ***debs_home/Sterling/*** directory. See the *Sterling*

Multi-Channel Selling Solution Implementation Guide for the location of the **debs_home** directory.

If you export catalog information and specify one of the dXML formats, then the exported XML file will conform to the DTD defined by the **Catalog.dtd** file of the corresponding dXML message family.

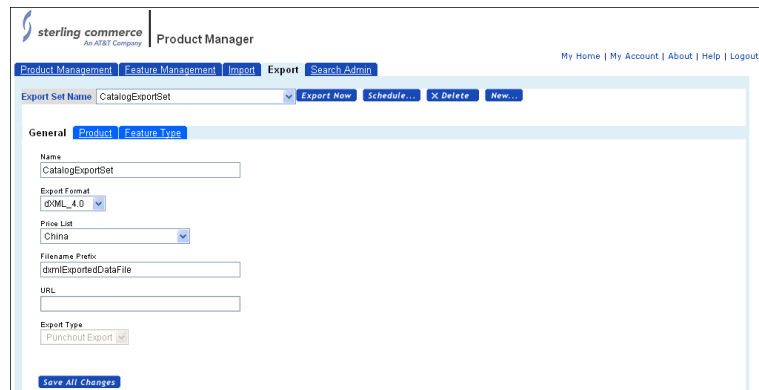
To Create an Export Set

1. Click **Product Master** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.

This displays the **Product Management** tab of the Sterling Product Manager page.

2. Click the **Export** tab.

The Export page appears.



The screenshot shows the 'Product Manager' interface for Sterling Commerce. The 'Export' tab is selected, displaying the 'Export Set Name' as 'CatalogExportSet'. Below this, there are tabs for 'General', 'Product', and 'Feature Type'. The 'General' tab is active, showing fields for 'Name' (CatalogExportSet), 'Export Format' (dXML_4.0), 'Price List' (China), 'Filename Prefix' (dxmlExportedDataFile), 'URL', and 'Export Type' (Punchout Export). A 'Save All Changes' button is at the bottom.

FIGURE 264. Product Management: Export Tab

3. Click **New...**

The Create New Export Set panel appears.

Create New Export Set

Name

Export Format

Price List

Filename Prefix

URL

Export Type

[Save](#) [Cancel](#)

FIGURE 265. Create New Export Set Tab

4. Enter the information for the fields listed below.

TABLE 28. Export Set Fields

Field	Description
Name	A name to describe the export set
Export Format	dhXML_1.0, dXML_4.0, or cXML_1.1 Note that dhXML is a variation of the dXML format in which the product category hierarchy is also preserved.
Price List	The price list that contains the products in the export set. Each product in the export set must have corresponding price information. Therefore each product must be part of the selected price list. Note: only list price information is exported. The export does not include any conditional pricing that might be part of the price list.
Filename Prefix	A maximum of 10 characters. The filename can contain an underscore or dash, but cannot contain spaces or periods.

TABLE 28. Export Set Fields (Continued)

Field	Description
URL	This field is only available for cXML_1.1 export format. URL provides a link for the customer to obtain more information about the products in this export set.
Export Type	This drop-down list is only available for cXML_1.1 export format: Punchout Export or Item Add Export. Punchout Export enables customers to punch out to your catalog to find and order products. Item Add Export encapsulates all the product information into an export set and the customer experience is dictated by a separate catalog management system.

5. Click **Save**.

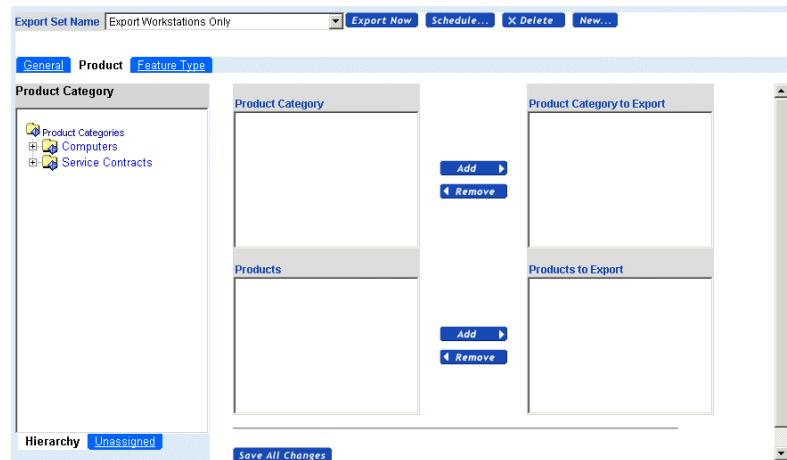
The screen re-displays the original export page with the new export set selected.

To Add or Remove Categories and Products from the Export Set

1. Click **Product Master** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.

This displays the **Product Management** tab of the Sterling Product Manager page.

2. Click **Export** to display the Export page.
3. Select the appropriate export set from the Export Set Name drop-down list.
The **General** tab displays the information for this set.
4. Click the **Product** tab.

**FIGURE 266. Export Panel with Product Tab**

5. Add a product category and products.
 - a. In the navigation panel, navigate through the product hierarchy and select a product category.

The children of this category (categories and products) are displayed in their respective lists.
 - b. In either the Product Category or the Products list, click the item you want to export.

When you add a category, you are adding all the products in that category to the export set.
 - c. Click **Add**.

The selected items appear in the appropriate list on the right.

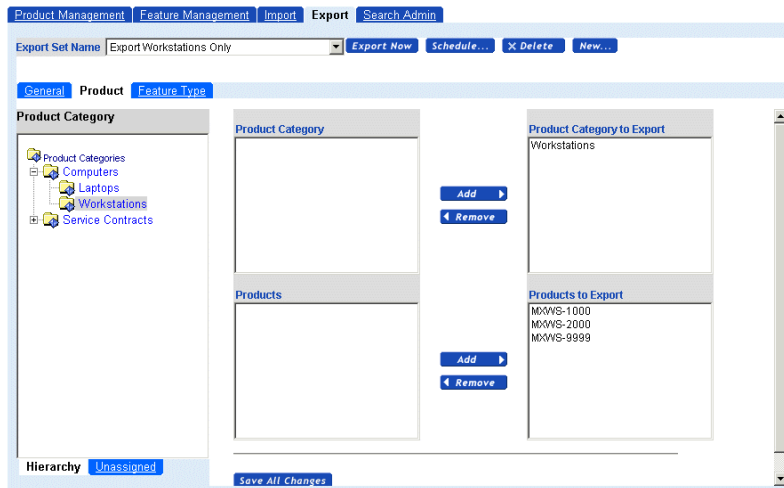


FIGURE 267. Adding Products to the Export Set

6. Add unassigned products.
 - a. Click the **Unassigned** tab in the navigation panel.
The unassigned products are displayed in the Products list.
 - b. Click on the product you want to export.
 - c. Click **Add**.
The selected items appear in the Products To Export list.
7. Remove categories and products from the export set.
 - a. Click on the category or product in the appropriate list box.
 - b. Click **Remove**.
The category or products are removed from the set.
8. Click **Save All Changes**.

To Add Feature Types and Features to an Export Set

You can select specific features of the products in the export set that will be exported with the product.

1. Click **Product Master** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.

This displays the **Product Management** tab of the Sterling Product Manager page.

2. Click **Export** to display the Export page.
3. Select the appropriate export set from the Export Set Name drop-down list.
The **General** tab displays the information for this set.
4. Click the **Feature Type** tab to display the Feature Type panel.

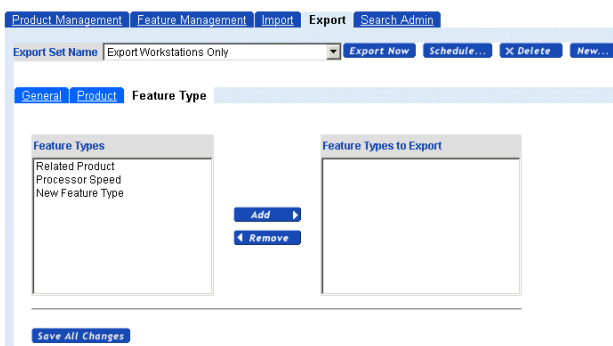


FIGURE 268. Export Panel with Feature Type Tab

5. In the Feature Types list, select the feature types you want to export, then click **Add**.

The selected feature types appear in the Feature Types to Export list.

6. Click **Save All Changes**.

To Delete an Export Set

Before you delete an export set, make sure you delete any scheduled cron jobs that involve the export set being deleted.

1. Click **Product Master** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.

This displays the Product Management tab of the Sterling Product Manager page.

2. Click the **Export** tab.

3. Select the appropriate export set from the Export Set Name drop-down list.
4. Click **Delete**.

To Export the Catalog Immediately

1. Click **Product Master** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.

This displays the **Product Management** tab of the Sterling Product Manager page.

2. Click the **Export** tab.
3. Select the appropriate export set from the Export Set Name drop-down list.
4. Click **Export Now**.

When you click **Export Now**, the system starts a separate process to generate the file that is created under the filename you selected. This filename is appended with a timestamp and by default, is stored in the *debs_home/Sterling/htdocs/catalogexport/* directory when the process is complete.

To Export the Catalog Using a Cron Job

1. Click **Product Master** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.

This displays the Product Management tab of the Sterling Product Manager page.

2. Click **Export** to display the Export page.
3. Click **Schedule**.

This displays a list of the current cron jobs.

4. Click the link for the **Export Catalog** cron job.

This displays the Cron Job Configuration page for the Export Catalog cron job.

The screenshot shows the 'Edit Cron Job Configuration' page in the Sterling Commerce Administration interface. The page has a header with the Sterling Commerce logo and navigation links. Below the header, there are 'Save All Changes' and 'Cancel' buttons. The main content area is divided into sections: 'Cron Job Information' with fields for Job Name, Program, Catalog, Active checkbox, and Command Line Arguments; 'Cron Job Type' with a radio button for Application, Username, and Password fields; and 'Cron Job Schedule' with fields for Start date and time, End date and time, and Frequency. The Program field is populated with 'com.comergent.apps.productMgr.dataSynd.CatalogExportCron' and the Command Line Arguments field with 'ExportSetName=CatalogExportSet'.

FIGURE 269. Cron Job Configuration Page

5. Enter the information about the job.

TABLE 29. Cron Job Configuration Page

Field	Description
Job Name	The name of the cron job
Program	The java implementation class that executes the job. You can use the predefined export cron job: com.comergent.apps.productMgr.dataSynd.CatalogExportCron.
Command Line Arguments	The command line parameters that provide information about the job. The format is: ExportSetName=NAME, where NAME is the name of the export set you are scheduling.
Cron Job Type	Automatically set to Application . The displayed username and password are defaults. Enter a username and password. (The username and password you enter must have the privileges to be able to create export sets.)
Start date and time End date and time	The effective start and end period between which dates and times the cron job will run. This, along with Frequency, determines when the job will run. For example, if you entered a frequency of three days, then the job will run every three days from the task start date and time until the task end date and time is reached. You can enter the same dates and times for both start date and time, in which case the job will be run only once, at a specific time.
Frequency	How often will the job be run? Every three days? Every week? Every five minutes? and so on.

6. Activate the job by checking the **Active** check box.
7. Click **Save All Changes**.

Suppressing Empty Product Categories

To Suppress Display of Empty Product Categories

See "Suppressing Display of Empty Product Categories" on page 81 for an explanation of suppressed display. Before starting this task, make sure that the Sterling Product Manager business rule to suppress empty categories has been set to "suppress empty categories". You have to re-start the servlet container for this rule to take effect. See CHAPTER 39, "Business Rules Administration" for further information on business rules.

1. Click **Product Master** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page, or click on the root category in the Product Category navigation panel.
2. Click the **Suppression** tab.

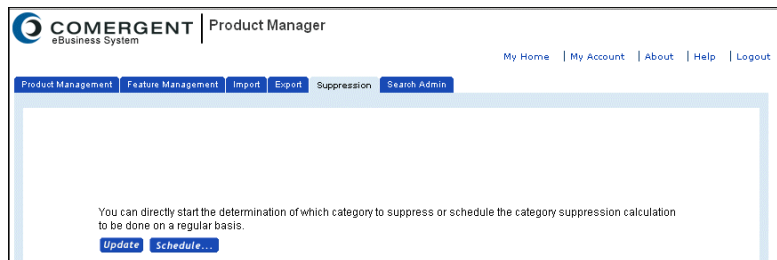


FIGURE 270. Product Management: Suppression Tab

3. Click **Update**.
4. Optionally, click **Schedule...** to navigate to the Job Scheduler page to calculate suppression using a cron job.

A message displays noting that the calculation started. The calculation can take some time to complete. You can check the log located in the servlet container log file for the result of the calculation.

Note:	You can also schedule a cron job to calculate product category suppression. Click Schedule to display the Job Scheduler window. See CHAPTER 40, "Job Scheduling Administration", for instructions on creating a cron job and "Update Catalog" on page 1109 for the details of the specific cron job.
--------------	--

Product Availability

As part of the shopping experience you offer customers, you can enable them to check for the availability of products. In the reference implementation of the Sterling Multi-Channel Selling Solution, a **Check Availability** button is provided as part of the UI that end-users see as they place orders.

Availability data for products is maintained in the CMGT_AVAILABILITY table of the Knowledgebase. See CHAPTER 14, "Managing Availability Information" for more information.

To support the check availability function, you must make sure that the message URL field of the Enterprise profile is set to the standard message URL for the Sterling Multi-Channel Selling Solution. For example, suppose that the main enterprise administration URL is:

```
http://catalog.matrix.com:1030/Sterling/en/US/enterpriseMgr/matrix
```

Then, in the Enterprise profile, set the Message URL field to:

```
http://catalog.matrix.com:1030/Sterling/msg/matrix
```

Partner administrators can maintain availability information for their products as described in CHAPTER 14, "Managing Availability Information".

Using the Hierarchical Entity Chooser

At certain points during product administration, you can use a chooser window to navigate the product catalog and select product IDs to populate fields or add products to lists. When you click the appropriate button, a Hierarchical Entity Chooser window is displayed as shown in Figure 271 on page 435.

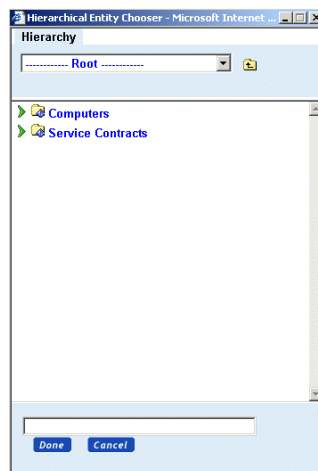


FIGURE 271. Hierarchical Entity Chooser

To Select Products from the Product Hierarchy

This task describes procedures according to the window shown in Figure 271 on page 435.

1. If the tab is not already selected, then click the **Hierarchy** tab.
2. Navigate to the category that contains the product or products you want.
When you expand the category, the products and categories assigned to the category appear in the chooser.
3. Find and click the product you want.
The product ID appears in the list box at the bottom of the window.
4. Repeat the last two steps for each product you want to add.
To remove a product from the list box, click on the product then click **Remove**.
5. Click **Done**.

The product or products appear in the field for which you accessed the Product Browser window.

To Search for Products in the Hierarchical Entity Chooser

This task describes procedures according to the window shown in Figure 271 on page 435.

1. If the tab is not already selected, then click the **Search** tab.

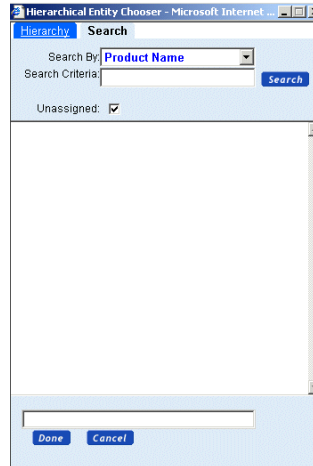


FIGURE 272. Hierarchical Entity Chooser: Search Tab

2. In the Search Type drop-down list, select the search type: product name, product ID, or product description.
3. In the Search Criteria field, type the search string.
You use an asterisk (*) to perform wildcard searches.
4. If desired, uncheck the Unassigned check box to search only among products assigned to product categories.
5. Click **Search**.
The chooser displays the results of the search.
6. Find and select the product(s) you want.
The product ID(s) appears in the list box at the bottom of the window.
7. Repeat from Step 2 for each product you want to add.
To remove a product from the list box, click on the product, and then click **Remove**.

8. Click **Done**.

The product or products appear in the field for which you accessed the Product Browser window.

Administering Advanced Search

Overview

This release of the Sterling Multi-Channel Selling Solution provides advanced capabilities for searching for products and for creating advanced searches in other parts of the system. This section describes how this functionality is implemented. See "Supported Search Syntax" on page 446 for a description of the supported search syntax that your customers can use.

Conceptually, there are two components to the advanced search functionality:

- Searching
- Index Building

Attention: To generate search indexes, you must enable application Cron jobs and set the message URL for Cron jobs. See "Job Scheduler Settings" on page 1078 for general information about setting cron job system properties. Update the Job Scheduler settings to support application Cron jobs and the message URL should be of the form:
`http://<servername:port>/Sterling/msg/matrix`

Note that both "Sterling" and "matrix" may be changed in your implementation of the Sterling Multi-Channel Selling Solution. In a clustered installation of the Sterling Multi-Channel Selling Solution, use the entry point to the cluster, not any particular member of the cluster.

Searching

When end-users perform a search, the search is performed against an index: the index ensures that the search engine can rapidly retrieve all the objects that meet the search criteria and can assign a *score* to each match. The score can be used to rank the results in such a way that the best matches are displayed first to a user. The search index is a set of files generated by the index building process.

The Quick Search field provides a convenient way to search for products. When a user searches for a single string, the Sterling Multi-Channel Selling Solution looks for the string in the product ID, product name, product description, and names of features assigned to the product. If the user enters two terms separated by a space,

then this is treated as an OR search: products are returned that match either term. If the user enters two terms separated by “+”, then this is treated as an AND search: products are returned only if both terms occur in one of the product ID, product name, product description, and names of features assigned to the product.

Index Building

A search index is created by the index building process. Administrators initiate the building of an index or it can be automated using a Cron job. Each index entry is associated with a *weight*: these reflect the relative importance that you want to associate with the indexing fields. For example, you might want it to be more important that the occurrences of a string in product IDs is more important than in their occurrence in product descriptions. Weights are used to calculate the score for each search result: the scores reflect how well each item matches the search criteria.

At any one time, there can be one or more indexes created, but only one is the *current* index. When a user conducts a search the current index is used to retrieve the search results.

You can customize the index by:

- determining which fields in data objects are used to create the index
- specifying the weight associated with each field

The configuration parameters that control these factors are defined in the **SearchConfigurationProperties.xml** configuration file. See "To Change the Index and Search Settings" on page 442 for more information.

Administration Tasks

If your implementation of the Sterling Multi-Channel Selling Solution supports advanced search capabilities, then you can initiate the creation of a new search index and specify whether user searches should use the most recent index. You can also set the configuration parameters that determine the relative weight of occurrences of search words. See:

- "Index Building Tasks" on page 439
- "To Activate an Index Set" on page 441
- "To Change the Index and Search Settings" on page 442
- "To Update Dictionary Definitions" on page 444

You can also use XML messages to build, activate, and delete indexes. See "Using XML Messages to Manage Search Indexes" on page 444 for more information.

Index Building Tasks

Over time, you may add new products, features, data sheets, and so on to your product catalog. You may also decide that certain search characteristics are more important than others and so should be weighted differently. To reflect these changes in the advanced search functions, you must re-build the search index. You can either build a new index by re-indexing the whole product catalog or build a new index incrementally by generating a new index based on an existing index and all the product catalog changes made since the existing index was built. See:

- "To Build a New Index" on page 439
- "To Build an Index Incrementally" on page 440

You can determine how the index builders work through system properties.

To Build a New Index

1. Click **Product Master** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.

This displays the Product Management tab of the Sterling Product Manager page.

2. Click the **Search Admin** tab.

The screenshot shows the 'Search Admin' tab in the Sterling Product Manager. It contains three main sections:

- Generate Index:** A section for creating a new index set or scheduling it. It includes a text box for 'Username' (containing 'sjones') and a password field. Below are buttons for 'Generate New' and 'Schedule...'.
- Refresh Search Properties:** A section with a description and a 'Reload Search Settings' button.
- Manage Search Indexes:** A section with a description and a 'Delete' button. Below is a table of index sets.

Date	Name	Index Set Path	Status	Action
11/26/2007 5:18 PM	MasterIndex	MasterIndex_600500	Active	Delete

FIGURE 273. Product Management: Search Admin tab

3. Enter your enterprise administrator password.

4. Click **Generate New**.

A new index build is initiated and a dialog box gives you the name of the log file that is generated by the build process. The index can take several minutes to build. Once the build has completed, the status of the build is recorded: if the build is successful, then you can set the operational index to this new build. See "To Activate an Index Set" on page 441.

Note:	If you initiate index building manually, then you do not have to enable application cron jobs, but you must make sure that the cron job message URL is set correctly.
--------------	---

Note:	If your Sterling Multi-Channel Selling Solution installation runs in a clustered environment, then ensure that you configure the cluster such that all servers in the cluster pick up new and updated files, including newly-generated index files, as soon as possible. This ensures that all servers are in sync and will serve the same information to customers accessing your site.
--------------	--

Then, set the `AutoReload` element of the

SearchConfigurationProperties.xml file as follows:

```
<AutoReload activated="true" reloadFilePeriod="30"/>
```

This activates the `AutoReload` function and instructs the cluster to check for updates every 30 seconds.

To Build an Index Incrementally

1. Click **Product Master** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.

This displays the **Product Management** tab of the Sterling Product Manager page.

2. Click the **Search Admin** tab.

Generate Index
You can start creating a new index set or schedule index set creation on a regular basis. You need to enter the user name and password for generating a new index.

Username: Password:

[Generate New](#) [Schedule...](#)

Refresh Search Properties
Click the button below to reload the settings from the "SearchConfigurationProperties.xml" file.

[Reload Search Settings](#)

Manage Search Indexes
Below are the latest 1 index sets. You can activate or remove an index set using the action buttons. Set the date and click the "Delete" button to remove older index sets. Click "Refresh" to refresh the table.

Delete index sets older than: [X Delete](#) [Refresh](#)

Date	Name	Index Set Path	Status	Action
11/26/2007 5:18 PM	MasterIndex	MasterIndex_600500	Active	X

FIGURE 274. Product Management: Search Admin tab

3. In the list of search indices, identify the index from which you want to incrementally build the new index.
4. Click the **Build New Set Incrementally** button in its row.

An incremental index build is initiated and a dialog box is displayed to let you know that the index building process has been started. The index can take several minutes to build, although typically incremental builds are relatively quick to build. The name of the index is the same as the existing index, with an appropriate version number. For example, if you build a new index incrementally from MasterIndex_600501, then the new index will be called MasterIndex_600501.1. Once the build has completed, the status of the build is recorded: if the incremental build is successful, then you can set the operational index to this new build. See "To Activate an Index Set" on page 441.

To Activate an Index Set

Once a new index build has completed, you may want to update the advanced search so that the new index is used in searches. To do this, you must set the operational index to this new build as follows:

1. Click **Product Master** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.

This displays the **Product Management** tab of the Sterling Product Manager page.

2. Click the **Search Admin** tab.

3. In the list of current indexes, identify the index you want to use: typically, this is the most recently created index as identified by the Date column.
4. Click **Activate Index Set** in the row for the selected index set.

The advanced search functionality is set to use the most recently activated index set. New users performing searches will have their search results generated from this new index set. Users currently performing searches will continue to use the results from their current search until they initiate a new search.

To Change the Index and Search Settings

You can customize the settings used to create an index and settings used while performing a search as follows:

1. Edit the **SearchConfigurationProperties.xml** and **CatalogDictionary.mappings** files. The meaning of the elements and attributes in this file are described below. See "Configuration File Settings" on page 442.
2. Click **Product Master** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.

This displays the Product Management tab of the Sterling Product Manager page.
3. Click the Search Admin tab.
4. Click **Reload Search Settings**.
5. Click **Generate New**.
6. Activate the new index set as described in "To Activate an Index Set" on page 441.

Configuration File Settings

The **SearchConfigurationProperties.xml** file is used to determine how an search index set is created and how it is used in searches. A sample file is included in "Search Configuration Parameters" on page 1123.

Each index set is described in an IndexSet element. It has the following child elements:

- **Locales:** specifies for what locales indexes should be created. You can only specify locales that are defined in your Knowledgebase.

- **SearchFields:** this specifies what fields in data objects can be searched on. Each SearchField element declares an id attribute: this is the name that the search application uses to refer to the indexed field, and the key attribute references the field created by the indexing process.
 - The defaultWeight attribute is used to calculate the score for each search result: if you want a particular field to be most significant in ranking search results, then you should set its defaultWeight higher than the other search results.
 - The useDictionary attribute determines whether the search uses the dictionary mappings defined in the CatalogDictionary.mappings file. See "To Update Dictionary Definitions" on page 444 for more information about the use of dictionary terms.
- **Builder:** the builderClass attribute specifies which indexing class should be used to build the index. The key attribute specifies the initial part of the index string used to retrieve fields. Typically, each builder will use the following child elements:
 - **IndexFields:** the IndexField elements determine what fields of data objects are indexed and how they are mapped to keys in the index. The id attribute must correspond to the name of a data field of a data object and the key attribute must correspond to the key attribute declared in the SearchField element that you want to use to reference the field.

The store attribute specifies whether the value of the field is saved with the index: setting this attribute to true simply ensures that the search operation can retrieve the value without having to restore the data object. The index attribute specifies whether the field can be used during the search operation. The tokenize attribute determines whether the value of the data field is broken down into its component tokens (such as individual words) or treated as a single string. If you set this attribute to true, then there is an index entry for each of the tokens that make up the value of the data field.

- **Builder:** a builder class may invoke other builders. In building the index, the key attribute of a child builder is appended to the key attribute of its parent builder.

For example, suppose that you have a parent builder whose key attribute is set to "product" and it declares an IndexField whose key is "id". Suppose that it also has a child builder whose key is "name" and it has two IndexField elements: "short" and "long". Then you can declare the following search fields:

```
<SearchField id="productID" key="product.id" active="true"
  defaultWeight="1"/>
<SearchField id="productShortName" key="product.name.short"
  active="true" defaultWeight="1"/>
<SearchField id="productLongName" key="product.name.long"
  active="true" defaultWeight="1"/>
```

To Update Dictionary Definitions

If a user is searching for "color", then you might want them to find items that use the terms "colour" or "hue". You specify the equivalence of search terms and words using the **CatalogDictionary.mappings** file. Each line of this file takes the form:

```
term, word, word, word, ...
```

The first string is referred to as the "term" and the following words are equivalent words. You can add terms or edit terms to specify the word equivalences you want. When a search is performed, occurrences of these words are regarded as equivalent to occurrences of the term. If a user searches for the term, they will see results that contain any of the other words. For example, suppose that you have in the mappings file:

```
color, colour, hue
```

Searches for "color" will also return references to "colour" and "hue"; however, searches for "hue" will not return references to "color" and "colour" unless you have another line that reads:

```
hue, color, colour
```

Using XML Messages to Manage Search Indexes

You can perform some search-related tasks by posting XML messages into the Sterling Multi-Channel Selling Solution as follows:

1. Create an XML message for the search index action. You can generate a new index, activate an index, and delete an index using XML messages.

You must provide user authentication information in the RemoteUser element. The user must be an enterprise user with the Program Management function.

2. Using your preferred tool, post the XML message into the Sterling Multi-Channel Selling Solution using the standard message URL, for example:

`http://server:port/Sterling/msg/matrix`

- You must use POST rather than GET.
- Set the Content-type to "application/x-icc-xml".
- The XML message must be the body of the request.

The following is an example of a message used to generate a new index:

```
<Comergent>
  <MessageHeader>
    <MessageType>MaintainIndex</MessageType>
    <MessageVersion>4.0</MessageVersion>
    <MessageID>1</MessageID>
    <SessionID>???Remote SessionId Unknown???</SessionID>
    <MessageTimeStamp>
      Thu Jan 22 11:25:43 PST 2004
    </MessageTimeStamp>
    <SystemCredentials>
      <SenderID>Matrix</SenderID>
      <SenderName>Matrix</SenderName>
    </SystemCredentials>
  </MessageHeader>
  <RemoteUser>
    <UserLogin>admin</UserLogin>
    <UserFullName>Not required</UserFullName>
    <UserAuthenticator>admin</UserAuthenticator>
  </RemoteUser>
  <IndexMaintenance state="INSERTED" type="BusinessObject">
    <CommandName state="INSERTED">BuildIndexFull</CommandName>
    <IndexSetName state="INSERTED">MasterIndex</IndexSetName>
    <IndexSetPath state="INSERTED">MasterIndex</IndexSetPath>
    <RunningMode state="INSERTED">Build</RunningMode>
    <EmailAddress state="INSERTED">
      changeme@changeme.com
    </EmailAddress>
    <NumberOfBuilderThreads state="INSERTED">
      1
    </NumberOfBuilderThreads>
  </IndexMaintenance>
</Comergent>
```

```
<ListSizePerThread state="INSERTED">200</ListSizePerThread>
<UpdateListName state="INSERTED">None</UpdateListName>
<StartingFrom state="INSERTED"/>
<CheckDBUpdateList state="INSERTED">true</CheckDBUpdateList>
<PreprocessList state="INSERTED"/>
<Result state="INSERTED"/>
</IndexMaintenance>
</Comergent>
```

The `CommandName` element can take the following values:

- `BuildIndexFull`
- `BuildIndexIncrementalNewFromLatest`
- `ActivateIndex`
- `DeleteIndex`

When you are building a new index, then you can specify whether the new index is to be activated by using the `RunningMode` element: this can be set to "Build" or "Build_Activate".

When activating or deleting an index set, you must specify the name of the index set using the `IndexSetName` element and the path to the index set files using `IndexSetPath` element.

Supported Search Syntax

This section describes the supported search syntax that users may use as they conduct searches. It is based on the Lucene search syntax.

As well as space-separated strings, users may also enter:

- `+`: this unary operator specifies that the string must be present.
- `-`: this unary operator specifies that the string must not be present
- `AND`: this binary operator specifies that the two clauses joined by the operator must both be satisfied. In its simplest form it is used to specify that two words must both be present.
- `OR`: this binary operator specifies that one or both clauses joined by the operator must be satisfied. In its simplest form it is used to specify that either one word or the other must be present.

Examples

This section provides examples of the uses of these operators:

- +MXWS-7600: will return any product in which the string "MXWS-7600" occurs.
- -MXLP-7410: will exclude products in which the string "MXLP-7410" occurs.
- MXWS* AND graphics: will return products in which there is a match for MXWS* and the string "graphics" occurs.
- MXLP* OR laptops: will return products in which there is a match for either MXLP* or the string "laptops" occurs.

This chapter covers tasks that are performed only by enterprise or partner administrators.

Note:	You can set a business rule so that price lists are used determine product entitlements. See "Create Product Entitlement Based on Pricelist" on page 1090 for more information.
--------------	---

See "Product Entitlements" on page 77 for an overview of product entitlements in the Sterling Multi-Channel Selling Solution. This chapter covers the following tasks:

- "To Create a Product Entitlement" on page 450
- "To Modify a Product Entitlement" on page 451
- "To Delete a Product Entitlement" on page 452
- "To Assign a Product Entitlement" on page 452
- "To Unassign a Product Entitlement" on page 453
- "To Search for a Product Entitlement" on page 454

Managing Product Entitlements

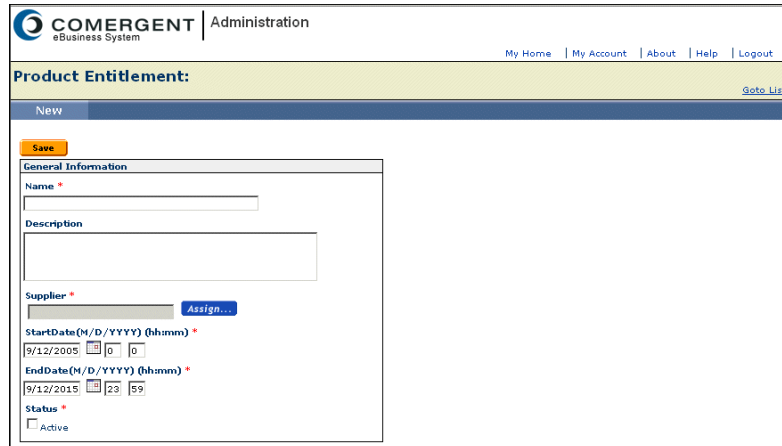
You must have the appropriate administrative functions in order to perform these tasks:

- "To Create a Product Entitlement" on page 450
- "To Modify a Product Entitlement" on page 451
- "To Delete a Product Entitlement" on page 452
- "To Assign a Product Entitlement" on page 452
- "To Unassign a Product Entitlement" on page 453

Users do not require administrative functions in order to search for product entitlements, described in "To Search for a Product Entitlement" on page 454.

To Create a Product Entitlement

1. Click **Product Entitlement** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.
2. On the Product Entitlement List page, click **New Product Entitlement**. This displays the Product Entitlement Detail page.



The screenshot displays the 'Product Entitlement: New' form in the COMERGENT Administration interface. The form is titled 'General Information' and contains the following fields:

- Name ***: A text input field.
- Description**: A larger text input field.
- Supplier ***: A dropdown menu with an 'Assign...' button next to it.
- StartDate(M/D/YYYY) (hh:mm) ***: A date and time picker set to 9/12/2005 00:00.
- EndDate(M/D/YYYY) (hh:mm) ***: A date and time picker set to 9/12/2015 23:59.
- Status ***: A checkbox labeled 'Active'.

At the top of the form is a 'Save' button. The page header includes the COMERGENT logo, 'Administration', and navigation links: 'My Home', 'My Account', 'About', 'Help', and 'Logout'. A 'Goto List' link is also present in the top right corner.

FIGURE 275. Product Entitlement Detail Page: New Tab

3. On the New tab, enter the header information. See Table 31 on page 457 for a complete description of the fields on this page.
4. Click **Save**.

Define the items on the product entitlement as follows:

5. Click the **Item** tab.
6. Select the type of product entitlement and click **New**. You can specify one of the following types:
 - a. Price List: all product IDs on the selected price list are on the item.
 - b. Product Category: all products in the selected product category are on the item.
 - c. Feature: all products that are assigned the feature are on the item.
7. The Hierarchical Entity Picker window is displayed: navigate to the appropriate price list, product category, or feature for the item. Click it, and then click **Done**.

The selected item displays.

8. You can specify whether to use the item to include or exclude products. Check the check box next to the item and click **Include** or **Exclude**.
9. You can add more items by repeating Step 6 through Step 8 as many times as you like.

The order of items is important: items are evaluated for inclusion and exclusion in the order displayed in the Order column: 1, 2, and so on. Thus if the first item on a product entitlement excludes a product, but a subsequent item includes it, then the effect of the product entitlement as a whole is to include the item.

10. You can change the order of items by editing the sequence number values, and then clicking **Update Order**.

To Modify a Product Entitlement

1. Search for the product entitlement. See "To Search for a Product Entitlement" on page 454.
2. On the Product Entitlement Detail page Info tab, modify the header details as appropriate.

3. For example, you can modify the starting or ending dates or the status of the product entitlement. See Table 31 on page 457 for a description of the fields.
4. Save your changes by clicking **Save**.
5. Modify the list of product entitlement items as appropriate:
 - a. Click the **Item** tab.
 - b. Remove items by checking their check boxes and clicking **Delete**.
 - c. Change the order in which items are evaluated by editing the sequence number values for each item, and then click **Update Order**.

To Delete a Product Entitlement

1. Search for the product entitlement(s) you want to delete. See "To Search for a Product Entitlement" on page 454.
2. On the resulting Product Entitlement Search page, check the check box(es) next to the product entitlement(s) that you want to delete, and click **Delete**.

To Assign a Product Entitlement

You assign product entitlements to a partner to manage the products that the partner's users can see as they browse or search the product catalog. You can assign a product entitlement to a partner either from the Product Entitlement UI as described here or from the Sterling Profile Manager UI: see "To Assign a Product Entitlement to a Profile" on page 197.

1. Search for the product entitlement(s) you want to assign. See "To Search for a Product Entitlement" on page 454.
2. Click its link to display its Product Entitlement Detail page.

COMERGENT Administration

My Home | My

Product Entitlement: Allnet Price List

Info Item Organization

Save

General Information

Name *
Allnet Price List

Description

Supplier *
Allnet Corp **Assign...**

StartDate(M/D/YYYY) (hh:mm) *
9/1/2005 00:00

EndDate(M/D/YYYY) (hh:mm) *
9/30/2005 00:59

Status *
☒ Active

FIGURE 276. Product Entitlement Detail Page

3. Click the Organization tab.
4. Click **Assign...**
5. In the Hierarchy Entity Picker window, navigate to or search for the partner(s) to which you want to assign the product entitlement.
6. Select the partner and their name is displayed in the lower list box.
7. Repeat Step 6 for each partner to which you want to assign this product entitlement.
8. Click **Done**.

The Organization tab is re-displayed and now includes the selected partner(s).

To Unassign a Product Entitlement

1. Search for the product entitlement(s) you want to unassign. See "To Search for a Product Entitlement" on page 454.
2. Click its link to display its Product Entitlement Detail page.

COMERGENT Administration
eBusiness System

My Home | My

Product Entitlement: Allnet Price List

Info Item Organization

Save

General Information

Name *

Allnet Price List

Description

Supplier *

Allnet Corp. Assign...

StartDate(M/D/YYYY) (hhmm) *

9/1/2005 00

EndDate(M/D/YYYY) (hhmm) *

9/30/2005 00 59

Status *


☒ Active

3. Click the Organization tab.
4. Check the check box(es) for the profile(s) you want to unassign this product entitlement from.
5. Click **Unassign**.

To Search for a Product Entitlement

1. Click **Product Entitlement** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.

This displays the Product Entitlement List Page.


Administration

[My Home](#) | [My Account](#) | [About](#) | [Help](#) | [Logout](#)

Product Entitlement List:

Find:

[Previous](#) [Next](#)

<input type="checkbox"/>	ListID	Name	Description	Start Date	End Date	Supplier	Status
<input type="checkbox"/>	10	Germany	German Mark	1/17/2001	8/21/2006	Enterprise	Active
<input type="checkbox"/>	1	Government	US Dollar	1/17/2001	10/6/2003	Enterprise	Active
<input type="checkbox"/>	5	High Technology	US Dollar	1/17/2001	10/6/2003	Enterprise	Active
<input type="checkbox"/>	11	Japan	Japanese Yen	1/17/2001	5/1/2004	Enterprise	Active
<input type="checkbox"/>	600004	NorthSea Tech - Yonkers	US Dollar	1/17/2001	10/6/2003	Enterprise	Active
<input type="checkbox"/>	600003	NorthSea Tech Eastern Division	US Dollar	1/17/2001	10/6/2003	Enterprise	Active
<input type="checkbox"/>	10027	Ost_uc9	Ost	9/25/2001	12/31/2999	Enterprise	Active
<input type="checkbox"/>	10032	Ostrich_uc1	Ostrich	9/25/2001	12/31/2999	Enterprise	Active
<input type="checkbox"/>	3	Pharmaceutical	US Dollar	1/17/2001	10/6/2003	Enterprise	Active
<input type="checkbox"/>	16	Pricelist_allnet	Pricelist for allnet	1/17/2001	10/4/2010	AllNet Corp	Active

FIGURE 277. Product Entitlement List Page

2. Search for the product entitlement(s).
 - a. Enter search criteria. You can use an asterisk (*) wild card character with all criteria to perform a wild card search.

TABLE 30. Product Entitlement Search Fields

Field	Description
List ID	The ID of the product entitlement.
Name	Enter the name of the product entitlement.
Description	Search for a string in the product entitlement description.
Effectivity Date	You can search for product entitlements by specifying an effectivity date. Only those product entitlements that are effective on that date are displayed. Click the calendar icon to select the date you want.
Supplier	You can search for product entitlements by the name of the supplier.
Status	You can search for either active or inactive product entitlements.


b. Click **Search**.

The search results are displayed as a list on the Product Entitlement Search page.

Note: Partner administrators will only see product entitlements created by partner administrators in their own organization.

3. In the list of results, find the product entitlement whose details you want to view.
4. In the List ID column, click the ID of the product entitlement to view its details.

This displays the Product Entitlement Detail page for that product entitlement.



Administration

[My Home](#) | [My Account](#) | [About](#) | [Help](#) | [Logout](#)

Product Entitlement List:

Find:

ListID

Search Show All

New Delete

Previous Next

<input type="checkbox"/>	ListID	Name	Description	Start Date	End Date	Supplier	Status
<input type="checkbox"/>	10	Germany	German Mark	1/17/2001	8/21/2006	Enterprise	Active
<input type="checkbox"/>	1	Government	US Dollar	1/17/2001	10/6/2003	Enterprise	Active
<input type="checkbox"/>	5	High Technology	US Dollar	1/17/2001	10/6/2003	Enterprise	Active
<input type="checkbox"/>	11	Japan	Japanese Yen	1/17/2001	5/1/2004	Enterprise	Active
<input type="checkbox"/>	600004	NorthSea Tech - Yonkers	US Dollar	1/17/2001	10/6/2003	Enterprise	Active
<input type="checkbox"/>	600003	NorthSea Tech Eastern Division	US Dollar	1/17/2001	10/6/2003	Enterprise	Active
<input type="checkbox"/>	10027	Ost_uc9	Ost	9/25/2001	12/31/2999	Enterprise	Active
<input type="checkbox"/>	10032	Ostrich_uc1	Ostrich	9/25/2001	12/31/2999	Enterprise	Active
<input type="checkbox"/>	3	Pharmaceutical	US Dollar	1/17/2001	10/6/2003	Enterprise	Active
<input type="checkbox"/>	16	Pricelist_allnet	Pricelist for allnet	1/17/2001	10/4/2010	AllNet Corp	Active

FIGURE 278. Product Entitlement List Page

5. Search for the product entitlement(s).

- a. Enter search criteria. You can use an asterisk (*) wild card character with all criteria to perform a wild card search.

TABLE 31. Product Entitlement Search Fields

Field	Description
List ID	The ID of the product entitlement.
Name	Enter the name of the product entitlement.
Description	Search for a string in the product entitlement description.
Effectivity Date	You can search for product entitlements by specifying an effectivity date. Only those product entitlements that are effective on that date are displayed. Click the calendar icon to select the date you want.
Supplier	You can search for product entitlements by the name of the supplier.
Status	You can search for either active or inactive product entitlements.

- b. Click **Search**.

The search results are displayed as a list on the Product Entitlement Search page.

Note: Partner administrators will only see product entitlements created by partner administrators in their own organization.

6. In the list of results, find the product entitlement whose details you want to view.
7. In the List ID column, click the ID of the product entitlement to view its details.

This displays the Product Entitlement Detail page for that product entitlement.

Administration

[My Home](#) | [My Account](#) | [About](#) | [Help](#) | [Logout](#)

Product Entitlement: Allnet Price List[Goto List](#)

InfoItemOrganization

Pricelist


New

Update OrderExcludeIncludeDelete

<input type="checkbox"/>	Name	Seq. #	Type	Inclusion/Exclusion
<input type="checkbox"/>	Allnet Price List	0	Pricelist	Inclusion

FIGURE 279. Product Entitlement Detail Page: Item Tab

- **Organization:** use this tab to assign the product entitlement to partners.

Administration

[My Home](#) | [My Account](#) | [About](#) | [Help](#) | [Logout](#)

Product Entitlement: Allnet Price List[Goto List](#)

InfoItemOrganization

Assign...UnassignUpdate

Shareable	Inherited	Profile Name	Root Profile Name	Profile Type	Profile Level
<input type="checkbox"/>	<input type="checkbox"/>	AMT Systems		Reseller	Gold
<input type="checkbox"/>	<input type="checkbox"/>	AffinityNet		Reseller	Gold
<input type="checkbox"/>	<input type="checkbox"/>	Allnet Corp		Distributor	Silver

FIGURE 280. Product Entitlement Detail Page: Organization Tab

This chapter covers all of the tasks associated with managing availability information for your products: inventory, warehouse, and restock quantities and dates. See "Managing Availability Information" on page 79 for an overview of availability information. This chapter covers the following tasks:

- "To Upload Product Availability" on page 459
- "To Download Product Availability" on page 461
- "To Update Product Availability" on page 462

You must be assigned the Program Management function to manage availability information.

Product Availability Tasks

To Upload Product Availability

Use this task to upload product availability to the database. See "Product Availability File Format" on page 1128 for the required format and an example.

1. Click **Upload and Maintain Product Inventory Information** in the SKU Mapping and Availability Administration panel on the Sterling Multi-Channel Selling Solution home page.

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POWERED BY **COMERGENT**

My Home | My Account | Account Activity | Help | Logout

Availability Administration

Availability Update | Availability Download | Availability Upload

Find ProductID: **Find**

Warehouse Location:

Search Results:

ProductID:

Warehouse Location:

Available Qty: **Update**

Restock Qty:

Restock Date: (MM/DD/YY)

ETA: (MM/DD/YY)

FIGURE 281. Partner Availability Update Page

2. Click **Availability Upload**.

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My Home | My Account | Account Activity | Help | Logout

Availability Administration

Availability Update | Availability Download | Availability Upload

Uploadfile: **Browse...** **Upload**

Please select a tab delimited text file that has Availability details in the format:
 <Status> <SKU Name> <Warehouse Location> <Availability> <Restock Date> <Restock Quantity> <ETA>

FIGURE 282. Partner Availability Upload Page

3. Select the file that contains the products by completing one of the following:
 - Enter the filename (including the path) in the Upload file field.
 - Click **Browse...** and select the appropriate filename.
4. Click **Upload**.

To Download Product Availability

1. Click **Upload and Maintain Product Inventory Information** in the SKU Mapping and Availability Administration panel on the Sterling Multi-Channel Selling Solution home page.
2. Click **Availability Download**.



FIGURE 283. Partner Availability Download Page

3. Select the format for the products that are to be downloaded.
 - Click **in Excel format** for the information to be displayed in an Excel spreadsheet.

Attention: If you are using Internet Explorer 5.0 on a Windows NT 4.0 machine with cookies turned on, then you cannot download product availability information in a Microsoft Excel format. Instead, download this information in a text format.

If you have Microsoft Excel installed, then the application is opened in a browser window and the information is displayed in an Excel spreadsheet. Use the Excel program to save or print the product information.

- Click **in Text format** for the information to be displayed in a text format. The information is displayed in text format in a browser window. Save or print the product information.

To Update Product Availability

1. Click **Upload & Maintain Product Inventory Information** in the Availability Administration panel on the Sterling Multi-Channel Selling Solution home page.
2. Click the **Availability Update** tab.

The screenshot shows the 'Availability Administration' page with the 'Availability Update' tab selected. The page has a header with the 'atrix SOLUTIONS' logo and navigation links: 'My Home', 'My Account', 'Account Activity', 'Help', and 'Logout'. Below the header, there are three tabs: 'Availability Update', 'Availability Download', and 'Availability Upload'. The 'Availability Update' tab is active. The main content area contains a search section with 'Find ProductID:' and 'Warehouse Location:' labels, each followed by a text input field and a 'Find' button. Below this is a 'Search Results:' section. The results section contains the following fields: 'ProductID:', 'Warehouse Location:', 'Available Qty:', 'Restock Qty:', 'Restock Date:', and 'ETA:'. Each field has a corresponding input field. The 'Restock Date' and 'ETA' fields have a calendar icon and a '(MM/DD/YYYY)' placeholder. An 'Update' button is located to the right of the 'Available Qty' field.

FIGURE 284. Availability Update Tab

3. Enter a product ID and Warehouse Location in the appropriate fields.
This field is case sensitive. You cannot use asterisks (*) to perform a wildcard search.
4. Click **Find**.
The current availability information for that product is displayed.
5. As necessary, modify the information for the fields listed in Table 32, "Product Availability Fields", on page 462:

TABLE 32. Product Availability Fields

Field	Description
Available Quantity	Number of the products that are available for purchase.
Restock Date	Expected date of the restock.

TABLE 32. Product Availability Fields (Continued)

Field	Description
Restock Quantity	Number of products that will be restocked.
ETA	Estimated time of availability of the product to the customer.

6. Click **Update**.

Managing Features in Sterling Product Manager

This chapter describes the tasks used to manage the feature hierarchy. "Feature Management in Sterling Product Manager" on page 70 provides a description of the feature elements, how they relate to Sterling Multi-Channel Selling Solution, and how you use Sterling Product Manager to manage them.

Note:	You can also manage features through the Sterling Advisor Administration user interface. See CHAPTER 23, "Managing Features in Sterling Advisor".
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- "To Create a Feature Type Group" on page 466
- "To Modify a Feature Type Group" on page 468
- "To Delete a Feature Type Group" on page 469
- "To Create a Feature Type within a Feature Type Group" on page 469
- "To Create an Unassigned Feature Type" on page 472
- "To Modify a Feature Type" on page 475
- "To Assign a Feature Type to a Product Category" on page 478
- "To Unassign a Feature Type from a Product Category" on page 480
- "To Assign a Feature Type to a Feature Type Group" on page 481
- "To Unassign a Feature Type from a Feature Type Group" on page 482

- "To Delete a Feature Type" on page 483
- "To Create a Feature" on page 484
- "To Modify a Feature" on page 486
- "To Modify a Feature from the Feature Type Detail Panel" on page 488
- "To Delete a Feature" on page 491
- "To Assign a Feature to a Product Category" on page 492
- "To Unassign a Feature from a Product Category" on page 494
- "To Assign a Feature to a Product" on page 495
- "To Unassign a Feature from a Product" on page 497
- "To Assign a Resource to an Entity" on page 498
- "To Unassign a Resource from an Entity" on page 500

Working with Feature Type Groups

In the feature hierarchy, features belong to feature types. When you create feature types, you have the option of assigning feature types to a feature type group. Therefore, when you build your feature hierarchy, you should create feature type groups first.

Feature types that are not assigned to a feature type group are displayed on the Unassigned tab in the Feature Hierarchy panel.

To Create a Feature Type Group

1. Click **Product Master** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.

This displays the **Product Management** tab of the Sterling Product Manager page.

2. Click the **Feature Management** tab.

This displays the Feature Management panel.

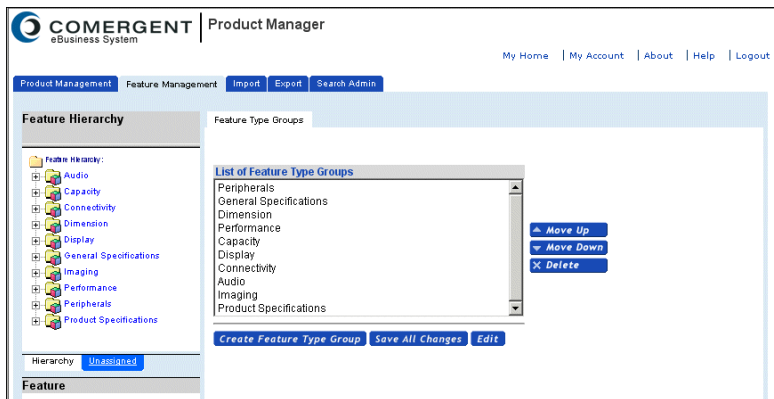


FIGURE 285. Feature Management Panel

3. In the Feature Type Groups panel, click **Create Feature Type Group** to display the New Feature Type Group Panel.

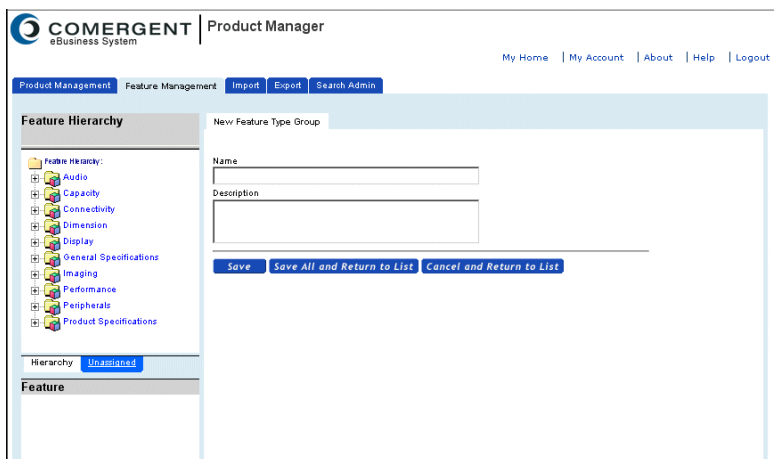


FIGURE 286. New Feature Type Group Panel

4. In the New Feature Type Group panel, enter a name and description for this feature type group.

5. Save the new feature type group.

You can click **Save** to save the feature type group and remain at the New Feature Type Group panel (to create more groups).

You can click **Save All and Return to List** to return to the Feature Type Groups panel. The new feature type group appears in the List of Feature Type Groups list box. The new feature type group also appears in the Feature Hierarchy panel.

To Modify a Feature Type Group

1. Click **Product Master** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.

This displays the **Product Management** tab of the Sterling Product Manager page.

2. Click the **Feature Management** tab.
3. In the Feature Hierarchy Panel, click the feature type group that you want to modify.

This displays the Feature Type Group detail tabs.

FIGURE 287. Feature Type Group Detail: General Tab

4. In the **General** tab make any necessary changes to the Name, and Description of the feature type group, and click **Save All Changes**.
5. Click the **Feature Types** tab to manage the feature types assigned to this group. You can:
 - Create feature types within this group. See "To Create a Feature Type within a Feature Type Group" on page 469.
 - Rearrange the order of the feature types currently assigned to this group. This rearranges the order of how the feature types appear to the end-user.

- Delete a feature type. See "To Delete a Feature Type" on page 483.
 - Unassign a feature type currently assigned to this group.
6. Click the **Assign** tab to assign unassigned feature types to this group.
 7. Click the **Resource** tab to assign or unassign resources.
See "Resources and Resource Types" on page 118 for explanation of resources and resource types.
 - For each resource you want to assign, follow the procedure in "To Assign a Resource to an Entity" on page 498.
 - For each resource you want to unassign, follow the procedure in "To Unassign a Resource from an Entity" on page 500.
 8. Click **Save All Changes**.

To Delete a Feature Type Group

When you delete a feature type group, the feature types belonging to the group become unassigned feature types.

1. Click **Product Master** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.
This displays the **Product Management** tab of the Sterling Product Manager page.
2. Click the **Feature Management** tab.
3. In the Feature Type Group panel, find and select the group you want to delete in the List of Feature Type Groups.
4. Click **Delete**.
The feature type group is deleted from both the list box and the Feature Hierarchy panel.
5. Click **Save All Changes**.

Working with Feature Types

Feature types can belong to a feature type group, or they can be unassigned.

To Create a Feature Type within a Feature Type Group

You can create a feature type either as assigned to a feature type group, or as unassigned, that is, not assigned to any feature type group. This task describes how

to create a feature type assigned to a group. See "To Create an Unassigned Feature Type" on page 472 for instructions on creating feature types unassigned to any group.

1. Click **Product Master** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.

This displays the **Product Management** tab of the Sterling Product Manager page.

2. Click the **Feature Management** tab.

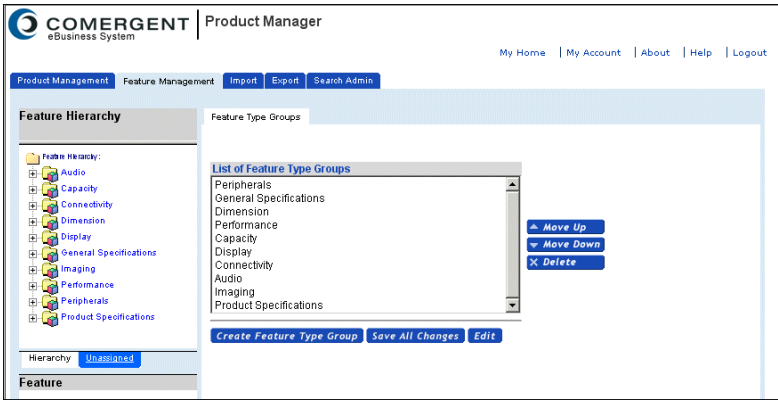


FIGURE 288. Feature Management Panel

3. In the Feature Hierarchy Panel, find and click the feature type group within which you want to create the feature type.

This displays the Feature Type Group Detail.

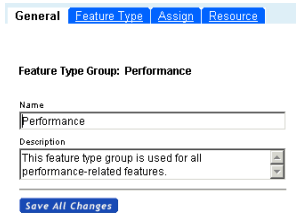


FIGURE 289. Feature Type Group Detail: General Tab

4. Click the **Feature Type** tab.

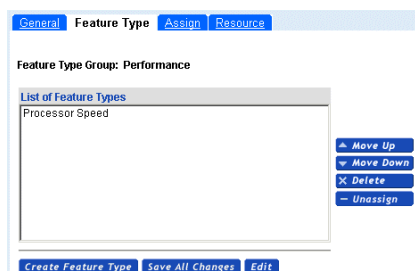


FIGURE 290. Feature Type Group Detail: Feature Type Tab

5. Click **Create Feature Type** to display the New Feature Type panel.

FIGURE 291. New Feature Type Panel

6. Type a name and description for the new feature type in the appropriate fields.

The Name field is the name your customers will see. The Description field is for internal use. Your customers will never see this text.

7. Select the Row Type from the drop-down list.

Row type determines how the features within the feature type will be displayed when products having this feature type are compared.

- **Multiple Feature Row** specifies that all of the features within this feature type that apply to the product will appear in a single row of the comparison table.
- **Single Feature Row** specifies that each feature within this feature type will have its own row in the comparison table.

8. Check **Use to compare** to include all the features associated with the feature type in any product comparisons.

When you check this box, the **Use to compare** check box for each of its corresponding features is automatically checked.

9. Save the new feature type.

You can click **Save** to save the new type and remain at the New Feature Type panel (to create more feature types).

You can click **Save All and Return to List** to return to the Feature Types Panel. The new feature type appears in the List of Feature Types list box. The new feature type appears in the Feature Hierarchy panel.

To Create an Unassigned Feature Type

You can create a feature type either as assigned to a feature type group, or as unassigned, that is, not assigned to any feature type group. This task describes how to create a feature type that is not assigned to any feature type group. See "To Create a Feature Type within a Feature Type Group" on page 469 for instructions on creating feature types assigned to a specific feature type group.

1. Click **Product Master** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.

This displays the **Product Management** tab of the Sterling Product Manager page.

2. Click the **Feature Management** tab.

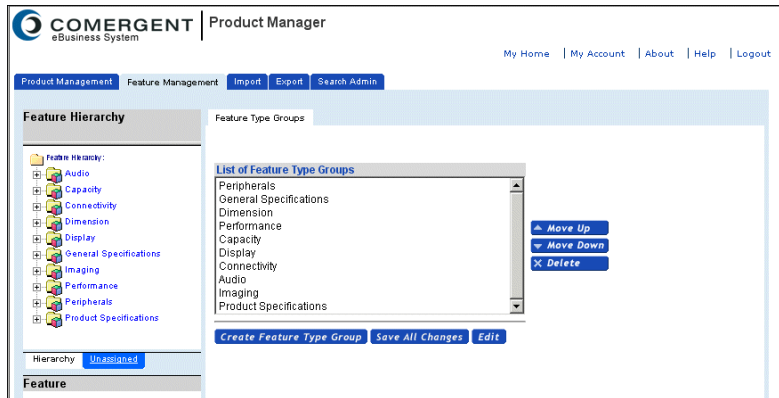


FIGURE 292. Feature Management Panel

3. In the Feature Hierarchy Panel, click the **Unassigned** tab.

This displays the Unassigned Feature Type panel.



FIGURE 293. Unassigned Feature Type Panel

4. Click **Create Feature Type** to display the New Feature Type panel.

FIGURE 294. New Feature Type Panel

5. Type a name and description for the new feature type in the appropriate fields.

The Name is the name your customers will see. The Description is for internal use. Your customers will never see this text.

6. Select the Row Type from the drop-down list.

Row type determines how the features within the feature type will be displayed when products having this feature type are compared.

- **Multiple Feature Row** specifies that all of the features within this feature type that apply to the product will appear in a single cell of the comparison table.
- **Single Feature Row** specifies that each feature within this feature type will have its own row in the comparison table.

7. Check **Use to compare** to include all the features associated with the feature type in any product comparisons.

The **Use to compare** check box determines whether or not the features belonging to this type are included in a product comparison. When your customer uses your questionnaire to find products, they are free at any time to select two or more products from the product list, and compare them. When they do this, Sterling Advisor generates and displays a *product comparison table*, which lists the products and the features they have, allowing your customer to compare the products.

Note: If you check **Use to compare** for a feature, then you must make sure that **Use to compare** is checked for its feature type also.

8. Save the new feature type.

You can click **Save** to save the new feature type and remain at the New Feature Type panel (to create more feature types).

You can click **Save All and Return to List** to return to the Feature Types Panel. The new feature type appears in the List of Feature Types list box as well as in the Feature Hierarchy panel.

To Modify a Feature Type

1. Click **Product Master** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.

This displays the **Product Management** tab of the Sterling Product Manager page.

2. Click the **Feature Management** tab.

3. Find and select the feature type.

If the feature type is assigned to a feature type group:

- a. Navigate the hierarchy until you find the group to which the feature type belongs.
- b. Expand the group to display the feature types by clicking the plus (+) symbol.
- c. Navigate the feature types and click on the feature type you want to modify.

This displays the Feature Type Detail Panel.

If the feature type is unassigned:

- a. In the Feature Hierarchy panel, click the **Unassigned** tab.
- b. Click on the feature type you want to modify.

This displays the Feature Type Detail panel.

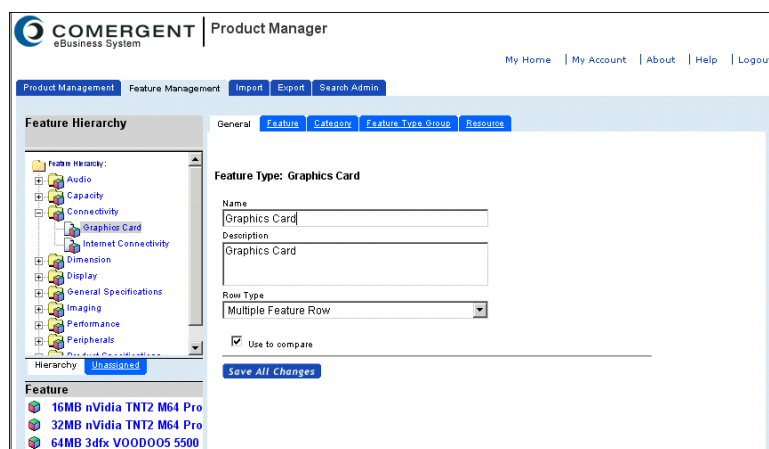


FIGURE 295. Feature Type Detail: General Tab

4. In the **General** tab make any necessary changes.

- Name and Description

The Name is the name your customers will see. The Description is for internal use. Your customers will never see this text.

- Row Type

Row type determines how the features within the feature type will be displayed when products having this feature type are compared.

- **Multiple Feature Row** specifies that all of the features within this feature type that apply to the product will appear in a single row of the comparison table.
- **Single Feature Row** specifies that each feature within this feature type will have its own row in the comparison table.
- Check **Use to compare** to include all the features associated with the feature type in any product comparisons.

5. Click the **Feature** tab.

You can:

- Create features within this type. See "To Create a Feature" on page 484.
- Rearrange the order of the features currently assigned to this feature type.

- Delete a feature. See "To Delete a Feature" on page 491.
- Modify a feature. See "To Modify a Feature from the Feature Type Detail Panel" on page 488.

6. Click the **Category** tab.

In this tab, you can:

- View the categories to which the feature type is currently assigned.
- Assign the feature type to a category. See "To Assign a Feature Type to a Product Category" on page 478.
- Unassign the feature type from existing categories. See "To Unassign a Feature Type from a Product Category" on page 480.

7. Click the **Feature Type Group** tab.

In this tab, you can:

- Assign the feature type to a feature type group.

If the feature type is already assigned to a group, then you can use this tab to reassign it. Otherwise, you can use this tab to assign an unassigned feature type to a feature type group. See "To Assign a Feature Type to a Feature Type Group" on page 481.

Note:	A feature type can only belong to one feature type group. When you reassign the feature type, the feature type is unassigned from its original feature type group.
--------------	--

- Unassign a feature type.

See "To Unassign a Feature Type from a Feature Type Group" on page 482.

8. Click the **Resource** tab.

See "Resources and Resource Types" on page 118 for more detailed information about resources.

- For each resource you want to assign, follow the procedure in "To Assign a Resource to an Entity" on page 498.
- For each resource you want to unassign, follow the procedure in "To Unassign a Resource from an Entity" on page 500.

9. Click **Save All Changes**.

To Assign a Feature Type to a Product Category

When you modify a feature type ("To Modify a Feature Type" on page 475), you can assign the feature type to a product category. Assigning a feature type to a product category enables you to assign the features in that feature type to the product category and to products in the product category.

Note: You can also assign feature types to a product category through the **Product Management** tab. See "To Modify a Product Category" on page 358. By assigning the features from the **Feature Management** tab, however, you can assign a single feature type to more than one category at the same time.

1. Navigate to the feature type using the Feature Hierarchy panel.
2. Display the **Category** tab.

See "To Modify a Feature Type" on page 475.

FIGURE 296. Feature Type Detail: Category Tab

3. Find the category you want.
 - a. Click **Browse....**

This displays the Hierarchical Entity Chooser.

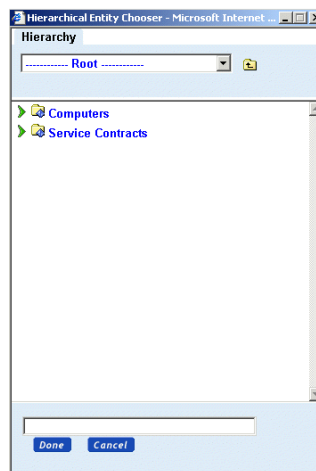


FIGURE 297. Hierarchical Entity Chooser

- b. Find the product category to which you want to assign the feature type.

Using the Hierarchical Entity Chooser, navigate down through the product category hierarchy to find the product category you want. Click the plus (+) sign to expand the category to display its contents.

Notice that when you click a product category, the chooser window is re-displayed with a list of nested categories (if any) within the category.

Notice also that the name of the selected category appears in the drop-down list at the top of the chooser window. As you click categories in the window, the category will appear in this field. You can re-display categories you have selected by selecting the category from the drop-down list.

- c. When you find the product category you want, click the category name.

The selected category appears in the field at the bottom of the window.

- d. Click **Done**.

The category is displayed in the **Category** tab, along with the parent category path, if any.

The screenshot shows the 'Category' tab of the Sterling Product Manager interface. At the top, there are five tabs: 'General', 'Feature', 'Category' (which is selected), 'Feature Type Group', and 'Resource'. Below the tabs, the text 'Feature Type: Processor Speed' is displayed. A text input field contains the placeholder 'Enter or select a category to assign to'. To the right of this field are two buttons: 'Browse...' and 'Assign'. Below the input field is a list box titled 'Assigned Categories' which contains the entry 'Laptops'. To the right of this list box is an 'Unassign' button. At the bottom of the form is a 'Save All Changes' button.

FIGURE 298. Category Tab with Entry

4. Click **Assign**.
5. Click **Save All Changes**.

The category appears in the Assigned Categories list along with the parent category path, if any.

To Unassign a Feature Type from a Product Category

When you modify a feature type ("To Modify a Feature Type" on page 475), you can unassign the feature type to a product category.

1. Navigate to the feature type using the Feature Hierarchy panel.
2. Display the **Category** tab.

See "To Modify a Feature Type" on page 475.

This screenshot is identical to Figure 298, showing the 'Category' tab with the 'Feature Type: Processor Speed' and the 'Assigned Categories' list containing 'Laptops'.

FIGURE 299. Category Tab

3. Find the category (or categories) you want in the Assigned Categories list.
4. Select the category (or categories) you want.

You can select multiple categories using the Shift or Control key.

5. Click **Unassign**.

The selected category (or categories) is removed from the Assigned Categories list.

6. Click **Save All Changes**.

To Assign a Feature Type to a Feature Type Group

When you modify a feature type ("To Modify a Feature Type" on page 475), you can assign an unassigned feature type to a feature type group, or you can re-assign an assigned feature type to a different feature type group.

1. Navigate to the feature type using the Feature Hierarchy panel.
2. Display the **Feature Type Group** tab.

See "To Modify a Feature Type" on page 475.

Note: If you are assigning a currently unassigned feature type, then the **Feature Type Group** tab appears as in Figure 300 on page 481. If you are re-assigning an assigned feature type, then the tab appears the same, but contains only **Assign** and **Cancel** buttons.

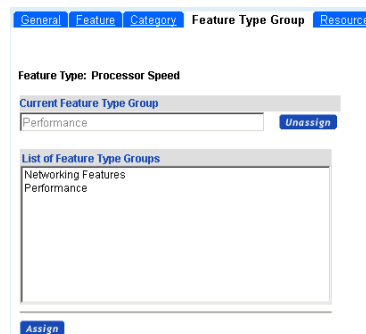


FIGURE 300. Feature Type Group Tab

3. In the List of Feature Type Groups, find the feature type group to which you want to assign the feature type.

4. Click the feature type group in the list.
5. Assign the feature type.

If you are assigning an unassigned feature type, then you can click **Assign** or **Assign and Continue**. Click **Assign** to assign the feature type and re-display the Feature Hierarchy with the feature type displayed within its assigned feature type group. Click **Assign and Continue** to assign the feature type and continue to display the unassigned feature types.

If you are reassigning an already assigned feature type, then click **Assign** to assign the feature type to the selected feature type group. The Feature Hierarchy is re-displayed with the feature type displayed within its newly assigned feature type group.

To Unassign a Feature Type from a Feature Type Group

When you modify a feature type ("To Modify a Feature Type" on page 475), you can unassign a feature type from its assigned feature type group.

1. Navigate to the feature type using the Feature Hierarchy panel.
2. Display the **Feature Type Group** tab.

See "To Modify a Feature Type" on page 475.



FIGURE 301. Feature Type Detail: Feature Type Group Tab

3. Click **Unassign**.

The page re-displays. The Feature Hierarchy panel displays the unassigned feature types, now including the feature type you unassigned.

To Delete a Feature Type

Deleting a feature type automatically deletes its features as well as any assignments.

1. Click **Product Master** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.

This displays the **Product Management** tab of the Sterling Product Manager page.

2. Click the **Feature Management** tab.
3. In the Feature Hierarchy Panel, find the feature type.

If the feature type belongs to a feature type group:

- a. Find the group in the Feature Hierarchy panel.
- b. Click on the name of the group.

This displays the detail for the group.

- c. Click the **Feature Type** tab.

This displays the list of feature types belonging to this group.

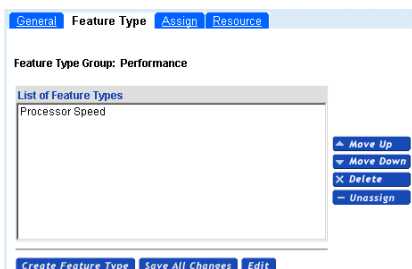


FIGURE 302. Feature Type Tab

- d. In the List of Feature Types, click on the feature type you want to delete.
- e. Click **Delete**.

If the feature type is unassigned, then temporarily assign it to a feature type group and delete it from the feature type group.

4. Click **Save All Changes**.

Working with Features

Each feature is created as a member of a specific feature type. See "Feature Management in Sterling Product Manager" on page 70 for a discussion of features and the concepts involved.

To Create a Feature

1. Click **Product Master** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.

This displays the **Product Management** tab of the Sterling Product Manager page.

2. Click the **Feature Management** tab.
3. Find the feature type within which you want to create the feature.

The feature type can be an assigned feature type (that is, assigned to a feature type group) or an unassigned type.

If you want to create the feature as part of an assigned feature type, then in the upper-left Feature Hierarchy panel, navigate to the feature type within which you want to create the features. If you have not created the feature type, see "To Create a Feature Type within a Feature Type Group" on page 469.

If you want to create the feature within an unassigned feature type, then in the upper-left Feature Hierarchy panel, click the **Unassigned** tab, find the feature type among the list of unassigned types. If you have not created the feature type, then see "To Create an Unassigned Feature Type" on page 472.

4. Click the feature type within which you want to create the new feature.
This displays the detail panel for that feature type.
5. Click the **Feature** tab.

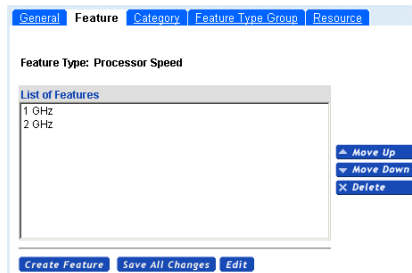


FIGURE 303. Features Tab

6. Click **Create Feature**.

This displays the New Feature Panel.

FIGURE 304. New Feature Panel

7. Enter a name and description for the feature.

This name is also the name your customers will see. The description is for internal use only. Your customers will never see this text.

8. If you want this feature to be used to compare products, then check the **Use To compare** box.

The **Use to compare** check box determines whether or not this feature is included in a product comparison. When your customer uses your questionnaire to find products, they are free at any time to select two or more products from the product list, and compare them. When they do this,

Sterling Advisor generates and displays a *product comparison table*, which lists the products and the features they have, allowing your customer to compare the products.

Note: If you check Use to compare for a feature, then you must make sure that Use to compare is checked for its feature type also.

9. Use the Start Date and End Date controls to define the effectivity of the feature.

For features that are only effective over a specific time period, the start date defines when the feature becomes effective. The end date defines when the feature ceases to be effective.

Feature effectivity is described in the section "Feature Effectivity" on page 72.

10. Save the new feature.

Click **Save** to save the feature and remain at the New Feature panel.

Click **Save All and Return to List** to save the feature and return to the **Features** tab of the Feature Types Detail Panel.

The new feature appears in the List of Features list box. The new feature appears in the Feature Hierarchy panel.

To Modify a Feature

Note: You can also modify a feature when you modify a feature type. See "To Modify a Feature from the Feature Type Detail Panel" on page 488.
--

1. Click **Product Master** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.

This displays the **Product Management** tab of the Sterling Product Manager page.

2. Click the **Feature Management** tab.
3. Find and select the feature.

If the feature belongs to an assigned feature type:

- a. Navigate the hierarchy until you find the group to which the type belongs.
- b. Expand the group to display the feature types by clicking the plus (+) symbol.

- c. Navigate the feature types and click on the feature type to which the feature belongs.

The features appear in the lower-left panel.

- d. Find and click the feature you want to modify.

This displays the detail panel for the feature.

If the feature type is unassigned:

- a. In the Feature Hierarchy panel, click the **Unassigned** tab.
- b. Click on the feature type to which the feature belongs.

The features appear in the lower-left panel.

- c. Find and click the feature you want to modify.

This displays the detail panel for the feature.

General Category Product Resource

Feature: 1 GHz

Name
1 GHz

Description

☒ Use to compare

Start Date (MM/DD/YYYY)
10/20/2003

End Date (MM/DD/YYYY)
10/20/2103

Save All Changes

FIGURE 305. Feature Detail Panel

4. In the **General** tab make any necessary changes.

- Name and Description

This name is also the name your customers will see. The description is for internal use only. Your customers will never see this text.

- Use to compare

The **Use to compare** check box determines whether or not this feature is included in a product comparison. When your customer uses your questionnaire to find products, they are free at any time to select two or more products from the product list, and compare them. When they do

this, Sterling Advisor generates and displays a *product comparison table*, which lists the products and the features they have, allowing your customer to compare the products.

Note: If you check Use to compare for a feature, then you must make sure that Use to compare is checked for its feature type also.

- Start Date and End Date

For features that are only effective over a specific time period, the start date defines when the feature becomes effective. The end date defines when the feature ceases to be effective.

Feature effectivity is described in the section "Feature Effectivity" on page 72.

5. Click **Save All Changes**.

6. Click the **Category** tab.

You can assign the feature to or unassign the feature from a product category. When you do this, the feature is automatically assigned to all the products within the category or within any nested categories. See "To Assign a Feature to a Product Category" on page 492 or "To Unassign a Feature from a Product Category" on page 494.

7. Click the **Product** tab.

You can assign or unassign the feature being modified to individual products within a category. See "To Assign a Feature to a Product" on page 495 or "To Unassign a Feature from a Product" on page 497.

8. Click the **Resource** tab.

Modifying resource assignment includes assigning and unassigning resources. See "Resources and Resource Types" on page 118 for more details about resources.

- For each resource you want to assign, follow the procedure in "To Assign a Resource to an Entity" on page 498.
- For each resource you want to unassign, follow the procedure in "To Unassign a Resource from an Entity" on page 500.

9. Click **Save All Changes**.

To Modify a Feature from the Feature Type Detail Panel

You can also modify a feature from within the detail panel for a feature type.

1. Click **Product Master** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.

This displays the **Product Management** tab of the Sterling Product Manager page.

2. Click the **Feature Management** tab.
3. Find and select the feature type.

If feature type is assigned to a feature type group:

- a. Navigate the hierarchy until you find the group to which the type belongs.
- b. Expand the group to display the feature types by clicking the plus (+) symbol.
- c. Navigate the feature types and click on the feature type you want to modify.

This displays the Feature Type Detail Panel.

If the feature type is unassigned:

- a. In the Feature Hierarchy panel, click the **Unassigned** tab.
- b. Click on the feature type you want to modify.

This displays the Feature Type Detail panel.

4. Click the **Feature** tab.

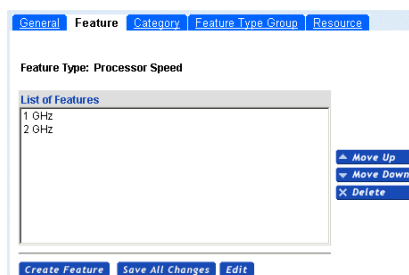


FIGURE 306. Feature Type Detail: Feature Tab

5. In the List of Features list box, click on the feature you want to modify.
6. Click **Edit**.

This displays the Feature Detail Panel for the selected feature.

7. In the **General** tab make any necessary changes.

- Name and Description

This name is also the name your customers will see. The description for internal use. Your customers will never see this text.

- **Use to compare**

The **Use to compare** check box determines whether or not this feature is included in a product comparison. When your customer uses your questionnaire to find products, they are free at any time to select two or more products from the product list, and compare them. When they do this, Sterling Advisor generates and displays a *product comparison table*, which lists the products and the features they have, allowing your customer to compare the products.

Note: If you check Use to compare for a feature, then you must make sure that Use to compare is checked for its feature type also.

- Start Date / End Date

For features that are only effective over a specific time period, the start date defines when the feature becomes effective. The end date defines when the feature ceases to be effective.

Feature effectivity is described in the section "Feature Effectivity" on page 72.

8. Click **Save All Changes**.

9. Click the **Category** tab.

You can assign the feature to or unassign the feature from a product category. When you do this, the feature is automatically assigned to all the products within the category. See "To Assign a Feature to a Product Category" on page 492 or "To Unassign a Feature from a Product Category" on page 494.

10. Click the **Product** tab.

You can assign or unassign the feature being modified to individual products within a category. See "To Assign a Feature to a Product" on page 495 or "To Unassign a Feature from a Product" on page 497.

11. Click the **Resource** tab.

Modifying resource assignment includes assigning and unassigning resources.

- For each resource you want to assign, follow the procedure in "To Assign a Resource to an Entity" on page 498.
- For each resource you want to unassign, follow the procedure in "To Unassign a Resource from an Entity" on page 500.

12. Click **Save All Changes**.**To Delete a Feature**

1. Click **Product Master** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.

This displays the **Product Management** tab of the Sterling Product Manager page.

2. Click the **Feature Management** tab.
3. In the upper-left Feature Hierarchy panel, find and click the feature type to which the feature belongs.

The **General** tab of the Feature Type detail panel appears.

4. Click the **Feature** tab.

The **Feature** tab appears.

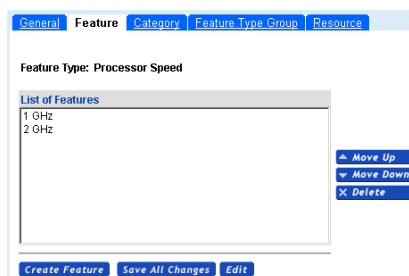


FIGURE 307. Feature Type Detail: Feature Tab

5. In the List of Features list box, highlight the feature you want to delete, and click **Delete**.

The feature disappears from the list box.

6. Click **Save All Changes**.

To Assign a Feature to a Product Category

When you modify a feature ("To Modify a Feature" on page 486), you can assign the feature to a product category. When you assign a feature to a product category, the feature is automatically assigned to the products belonging to the category.

Note: You can only assign features to a product category if the feature type to which the feature belongs has been assigned to the product category. See "To Assign a Feature Type to a Product Category" on page 478.

You can also assign feature types to a product category through the **Product Management** tab. See "To Modify a Product Category" on page 358. By assigning the features from the **Feature Management** tab, however, you can assign a single feature type to more than one category at the same time.

1. Navigate to the feature using the Feature Hierarchy and Feature panels.
2. Display the **Category** tab.

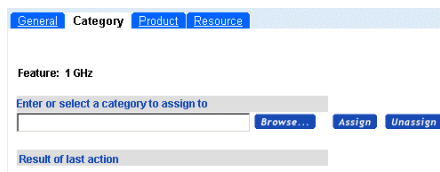


FIGURE 308. Feature Detail: Category Tab

3. Find the product category you want.
 - a. Click **Browse...**

This displays the Hierarchical Entity Chooser.

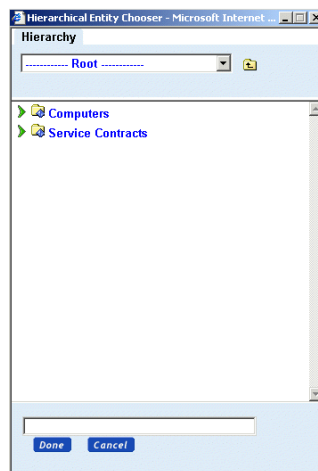


FIGURE 309. Hierarchical Entity Chooser

- b. Find the product category to which you want to assign the feature.

Using the Hierarchical Entity Chooser, navigate down through the product hierarchy to find the category you want. Click the plus (+) sign to expand the category to display its contents.

Notice that when you click a product category, the chooser window is re-displayed with a list of nested categories (if any) within the category.

Notice also that the name of the selected category appears in the drop-down list at the top of the chooser window. As you click categories in the window, the category will appear in this field. You can re-display categories you have selected by selecting the name from the drop-down list.

- c. When you find the category you want, click the category name.

The selected category appears in the field at the bottom of the window. (Notice that some categories are unselectable: these are displayed in black. This means that the feature type to which the feature belongs is not assigned to those categories.)

- d. Click **Done**.

The category is displayed in the **Category** tab, along with the parent category path, if any.

4. Click **Assign**.

The feature is assigned to the category and to all the products in the category. The lower part of the frame displays the assignments to categories. The green and red icons indicate whether the assignment is direct or by inheritance.

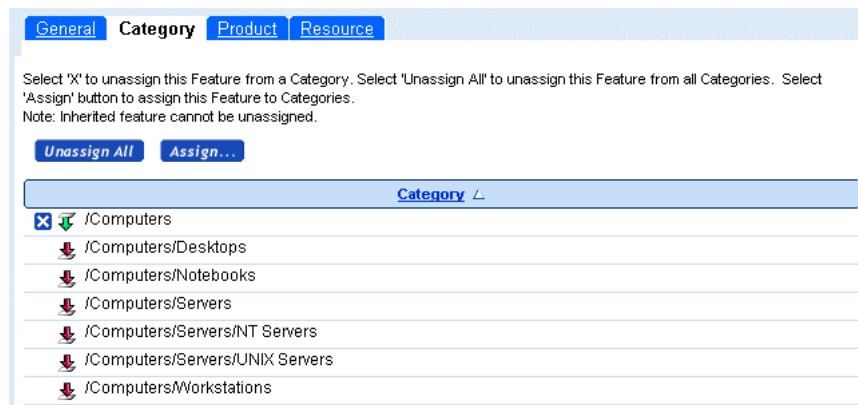


FIGURE 310. Category Tab Showing Assignments

To Unassign a Feature from a Product Category

When you modify a feature ("To Modify a Feature" on page 486), you can unassign the feature from a product category.

1. Navigate to the feature using the Feature Hierarchy and Feature panels.
2. Display the **Category** tab.

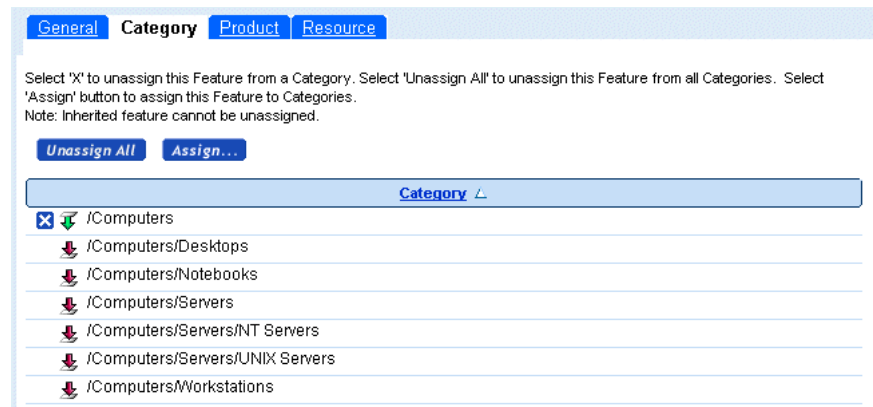


FIGURE 311. Feature Detail: Category Tab

3. From the displayed list of categories, identify the category from which you want to unassign the feature.
4. Click the Unassign icon.

The feature is unassigned from the category and from all the products in the category. You can unassign the feature from all product categories by clicking **Unassign All**.

To Assign a Feature to a Product

When you modify a feature ("To Modify a Feature" on page 486), you can assign the feature to an individual product within a category.

Note: You can only assign features to a product if the feature type to which the feature belongs has been assigned to the product category to which the product belongs. See "To Assign a Feature Type to a Product Category" on page 478.

1. Navigate to the feature using the Feature Hierarchy and Feature panels.
2. Display the **Product** tab.

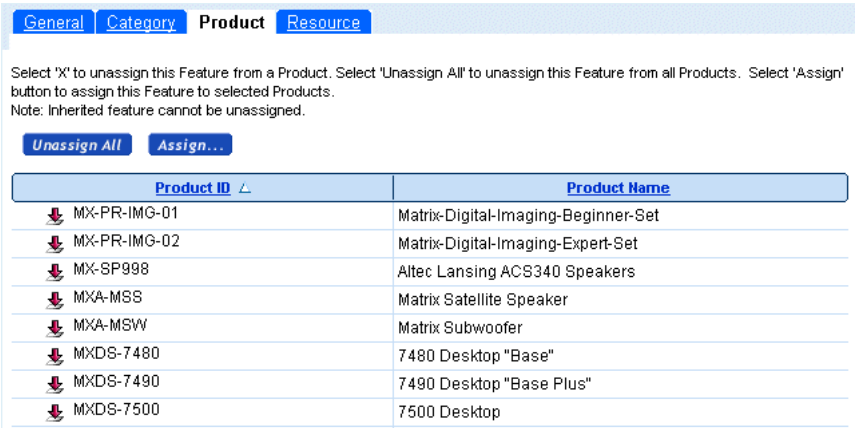


FIGURE 312. Feature Detail: Product Tab

3. Find the product you want.
 - a. Click **Assign...**

This displays the Hierarchical Entity Chooser.

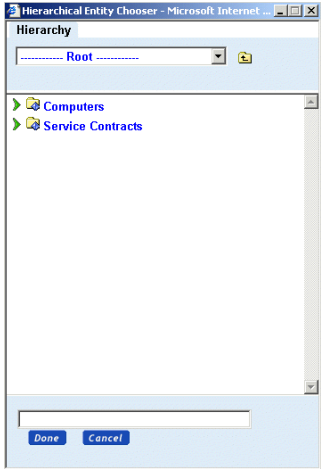


FIGURE 313. Hierarchical Entity Chooser

- b. Find the product to which you want to assign the feature.

Using the Hierarchical Entity Chooser, navigate down through the product hierarchy to find the product you want.

Notice that when you click a product category, the chooser window is re-displayed with a list of nested categories (if any) within the category. (Notice that some categories are unselectable. This means that the feature type to which the feature belongs is not assigned to those categories.)

- c. Notice also that the name of the selected category appears in the drop-down list at the top of the chooser window. As you click categories in the window, the category will appear in this field. You can re-display categories you have selected by selecting the name from the drop-down list.
- d. When you find the product you want, click the product name.

The selected product appears in the field at the bottom of the window.

- e. Click **Done**.

The feature is assigned to the product.

To Unassign a Feature from a Product

When you modify a feature ("To Modify a Feature" on page 486), you can unassign the feature from an individual product within a category.

1. Navigate to the feature using the Feature Hierarchy and Feature panels.
2. Display the **Product** tab.

General
Category
Product
Resource

Select 'X' to unassign this Feature from a Product. Select 'Unassign All' to unassign this Feature from all Products. Select 'Assign' button to assign this Feature to selected Products.
Note: Inherited feature cannot be unassigned.

Unassign All
Assign...










Product ID 	Product Name
 MX-PR-IMG-01	Matrix-Digital-Imaging-Beginner-Set
 MX-PR-IMG-02	Matrix-Digital-Imaging-Expert-Set
 MX-SP998	Altec Lansing ACS340 Speakers
 MXA-MSS	Matrix Satellite Speaker
 MXA-MSW	Matrix Subwoofer
 MXDS-7480	7480 Desktop "Base"
 MXDS-7490	7490 Desktop "Base Plus"
 MXDS-7500	7500 Desktop

FIGURE 314. Feature Detail: Product Tab

- In the Assigned Products list box, find the product you want.
- Click the **Unassign** icon.

The feature is unassigned from the product.

Assigning Resources to Feature Type Groups, Feature Types, and Features

See "Resources and Resource Types" on page 118 for an overview of resources. You create resources in Sterling Advisor, but you assign the resources in Sterling Product Manager. See CHAPTER 24, "Managing Resources in Sterling Advisor", for the tasks involved in managing resources.

To Assign a Resource to an Entity

When you modify an entity (feature type group, feature type or feature), you can assign resources.

- Click **Product Master** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.

This displays the **Product Management** tab of the Sterling Product Manager page.
- Click the **Feature Management** tab.

3. In the Feature Hierarchy Panel, find the feature type group, feature type, or feature to which you want to assign resources.
4. Click the link of the entity to which you want to assign a resource to display its detail panel.
5. Click the **Resource** tab.

The screenshot shows a web-based configuration interface. At the top, there are five tabs: 'General', 'Feature', 'Category', 'Feature Type Group', and 'Resource'. The 'Resource' tab is selected. Below the tabs, the text 'Feature Type: Processor Speed' is displayed. The main area is divided into two columns. The left column has a section titled 'Unassigned Resource Types' containing a dropdown menu with 'Datasheet' selected and an 'Assign' button. Below this is an 'Assigned Resource Types' section with an empty box and an 'Unassign' button. The right column is titled 'Resource contents' and contains four input fields: 'Type', 'Value', 'Label', and 'Description'. At the bottom of the interface is a 'Save All Changes' button.

FIGURE 315. Feature Type: Resource Tab

6. In the Unassigned Resource Types drop-down list, select the resource type you want to assign to this entity, and click **Assign**.

The following things occur:

- The resource type is removed from the Unassigned Resource Types drop-down list and appears in the Assigned Resource Types list box.
 - The resource type appears in the Type field.
 - The resource type's label appears in the Label field.
 - The resource type's description appears in the Description text box.
7. In the Value field, type the location of the resource you want to assign.

This can be either a path to the file selected as the resource, or it can be a URL to a Web page that displays the information for the resource.

8. (Optional) In the Label field, type the text you want to use as a label for the resource when it is displayed.

When you assign a resource type, its label is automatically populated in the Label field. You can choose to use this label if you want. You only need to overwrite the label if you want to give the resource a label that is different from the resource type's label.

9. (Optional) In the Description field, type the text you want to use as a description for the resource when it is displayed on a questionnaire page.

When you assign a resource type, the resource type's description is automatically populated in the Description field. You can choose to use this description if you want. You only need to overwrite the description if you want to give the resource a description that is different from the resource type's.

10. Click **Save All Changes**.

To Unassign a Resource from an Entity

1. Click **Product Master** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.

This displays the **Product Management** tab of the Sterling Product Manager page.

2. Click the **Feature Management** tab.
3. In the Feature Hierarchy Panel, find the feature type group, feature type, or feature from which you want to unassign resources.
4. Click the link of the entity from which you want to unassign a resource to display its detail panel.
5. Click the **Resource** tab.

The resource types currently assigned to the entity are displayed in the Assigned Resource Types list box.

6. In the Assigned Resource Types list box, select the resource type you want to unassign.

The defined value, label, and description for the resource appear in the appropriate fields.

7. Click **Unassign**.

The following actions occur:

- The resource type disappears from the Assigned Resource Types list box and appears in the Unassigned Resource Types drop-down list.
 - The Value, Label, and Description fields are emptied.
8. Click **Save All Changes**.

This chapter covers the tasks involved in creating and modifying models. See "Using the Sterling Visual Modeler" on page 82 for an overview of the modeling process.

Attention:	Models are compiled to XML files. Consequently, do not use the following characters when naming models and model entities such as groups, properties, and rules: "&", "/", "@", "!", and the quote characters " and '.
-------------------	--

Visual Modeler Interface

The Visual Modeler page consists of three frames:

- **Model Groups:** When you first access the Visual Modeler page, this frame displays the root model group, that is, the highest group in the model group hierarchy. See "Model Group Hierarchy" on page 84 for a more detailed explanation of the hierarchy.

You can expand a model group to display the model groups within it by clicking the plus (+) sign.

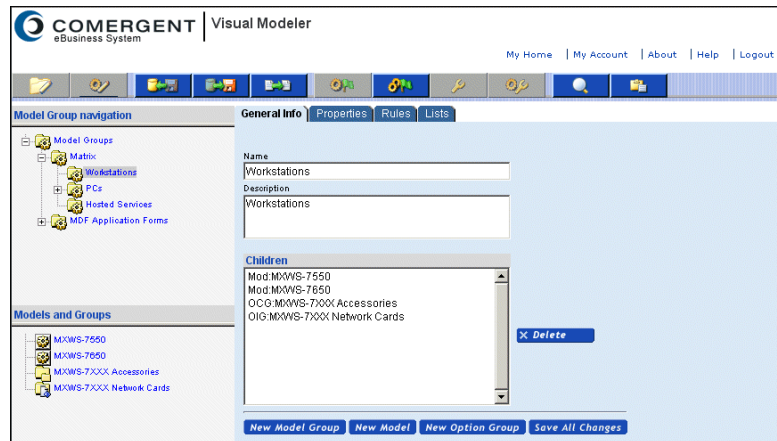


FIGURE 316. Visual Modeler Page

- **Models and Groups:** This displays the models and groups that are children of the model group selected in the Model Groups frame.
- **Content:** This displays information about the model group selected in the Model Groups frame. The information is collected into the following tabs:
 - **General Info:** Displays the children of the model group (where you can select, delete, and reorder children). You can also create new model groups, new models, and new groups. You can also upload models or model groups to the currently selected model group.
 - **Properties:** You can define new properties in this tab which you can then attach to any model, option class, or option item within the model group for which the property was defined. In the same way, you can also use the property in rules defined for any model or model group in the hierarchy below the model group for which it is defined.
 - **Rules:** You can define rules for the model group. These rules can be attached to any models, option classes, or option items in the hierarchy below the model group for which it is defined.
 - **Lists:** The list you define here can be used in any properties in the hierarchy below the model group for which it is defined.

In addition, the Visual Modeler page contains a *toolbar* across the top with access to the following tasks:

- **Edit:** This enables you to edit a model, option class group, or option item group highlighted in the Models and Groups frame.
- **Compile:** This enables you to compile a model, option class group, or option item group into an XML file. See "Compiling a Model" on page 554. Only compiled models can be associated with configurable products.
- **Test:** This enables you to test a model that you are creating or modifying. See "Testing a Model" on page 552.
- **Copy:** This enables you to copy a selected entity (model group, model, option class group, and so on).
- **Import:** This enables you to import an entity into your library of entities. See "Importing Model Groups and Models" on page 632
- **Export:** This enables you to export an entity. See "Exporting Model Groups and Models" on page 634.
- **Report:** This enables you to produce a report on some entity in the model library. See "Reporting" on page 640.
- **Search:** This enables you to search for entities based on selected search parameters. See "Searching" on page 637.

When you build a model, you use the model detail page. The detail page contains the following frames:

- **Toolbar:** as described above.
- **Navigation:** Click the plus (+) sign to expand the model or group and display the elements of the model or group: the sub-models, option classes, option items, or groups.
- **Content:** This displays information about the model selected in the Navigation frame. By navigating to a particular node in the model, you can create and update information on that node. This information is collected into the following tabs:
 - **General Info:** Displays general information about the model or group, as well as the children. You can delete or re-order children in this frame. You can translate the model, assign a product ID to the model, create option

classes and (for option item groups) option items, and attach groups. You can also download models from here.

Note: Only the General Info tab appears for option class groups or option item groups.
--

- **Display:** This tab enables you to define display properties at the model level. These properties include things like constant guiding text, as well as pre- and post-pick guiding text. Some display properties have default values which can be overridden by display values set at the option class or option item levels. Note that all the properties displayed on the **Display** tab can also be set by setting UI properties on the **Properties** tab. See "Working with Display Properties" on page 644 for more information about display properties and UI properties.
- **Properties:** If the current node is a model, then this tab consists of two tabs: **Attach** and **Define**, and **Input/Output**; otherwise you can use this tab to attach properties to the node. In the **Attach** tab, you can attach to the model properties to which the model has access. (The model has access either to properties defined specifically for the model itself or to properties defined for any model group above the model in the model group hierarchy.) In the **Define** tab, you can define new properties for use locally, in the model's structure. In the Input/Output tab, you can specify the properties required by the submodel to be passed as input from the parent model or external system, and the properties that the submodel should pass as output to be used by the parent model or external system.
- **Rules:** If the current node is a model, then this tab consists of two tabs: **Attach** and **Define**; otherwise you can use this tab to attach rules to the node. In the **Attach** tab, you can attach to the model rules to which the model has access. (The model has access either to rules defined specifically for the model or rules defined for any model group above the model in the model group hierarchy.) In the **Define** tab, you can define new rules for use locally, in the model's structure.
- **Lists:** If the current node is a model, then the lists you define here can be used locally, in any properties you define for the model.
- **Tables:** If the current node is a model, then you create constraint tables here. See "Managing Option Constraints" on page 101 for an explanation of table constraints.

- **Tabs:** If the current node is a model, then you can create a tab-based configuration for your customers here. See "Working with a Tabbed User Interface" on page 556.
- **Worksheets:** If the current node is a model, then this tab enables you to manage properties using worksheets. These provide you with a quick way to view and manage related properties and option items. See "Using Worksheets" on page 576.

To Access the Visual Modeler

1. Click **Configuration Models** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.

This displays the Visual Modeler page (Figure 316 on page 504).

2. In the Models and Groups frame, click on a model or a group.

This displays the current structure (option classes, option items, and groups) for the selected model or group. Click the plus (+) sign to the left to expand the structure of the model.

The screenshot displays the Visual Modeler interface with the following components:

- Model Group navigation:** A tree view on the left showing a hierarchy: Model Groups > Matrix > Computers > Workstations > MXWS-7700. The 'MXWS-7700' node is selected.
- Model preview:** A central panel showing details for the selected model.

Name	MXWS-7700
Description	Matrix Graphics Workstation
Start Date	2/3/2005
End Date	2/3/2055
Product ID assigned	MXWS-7700
Referenced	0
Contains	
Option Classes	8
Option Items	17
References to Models	0
References to Option Class	0
References to Option Item Groups	0
- Model Structure:** A tree view on the right showing the hierarchical structure of the model.
 - MXWS-7700
 - Monitors
 - Optiquest 095
 - Optiquest 0115
 - Graphics Cards
 - Processors
 - RAM
 - SDRAM 256MB
 - DDR 256MB
 - RDRAM 256MB
 - Keyboards
 - Case
 - Monitor Weight
 - Color

FIGURE 317. Model Structure Panel

3. Click **Edit** in the taskbar.

This displays the detail page for the model, option class group, or option item group.

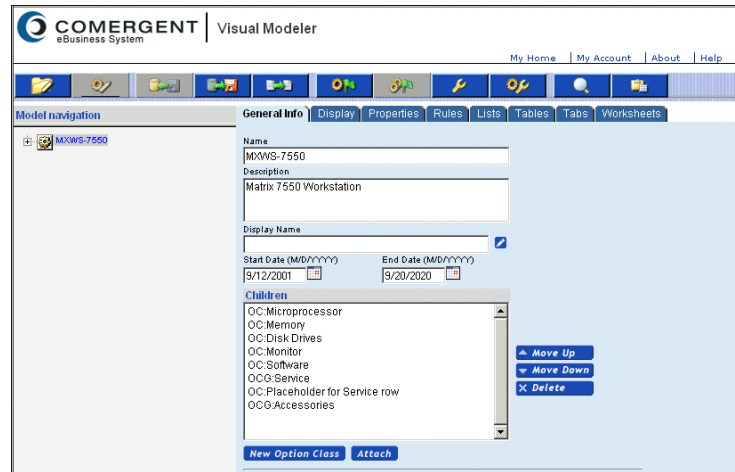


FIGURE 318. Model Detail Page

4. In the Navigation frame, click on the plus (+) sign to expand the model or group (see Figure 319 on page 508).

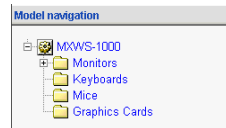


FIGURE 319. Navigation Frame

5. Click an option class.

This displays the following tabs in the Content frame (see Figure 320 on page 509):

- **General Info:** This tab provides general information about the selected option class. A list box displays the children belonging to this option class. You can also assign a product ID here, define a ratio for the class (the number by which the option item quantity will be multiplied to get the necessary option item quantity). You can create nested option classes and option items as well as attach groups.
- **Display:** This tab enables you to set display property values specific to the selected option class.

- **Properties:** You can associate with the option class properties to which the option class has access. (The option class has access either to properties defined specifically for the model to which the option class belongs or to properties defined for any model group above the option class in the model group hierarchy.)
 - **Rules:** You can attach rules defined for the model, as well as for the model group to which it belongs (or to any ancestor model group).
6. In the Navigation frame, click the plus (+) to expand the option class.
- This displays the children of the option class: these may be option items or option classes.

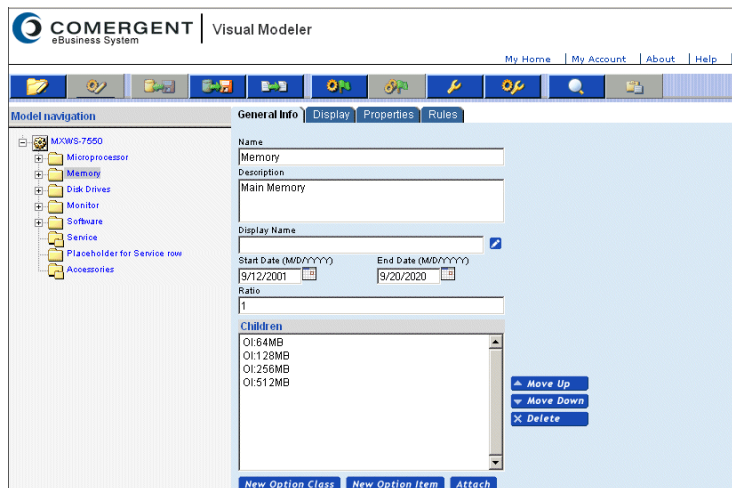


FIGURE 320. Model Detail Page with Option Class Selected

7. Click an option item.

This displays the following tabs in the Content frame (see Figure 321 on page 510):

- **General Info:** This tab provides general information about the selected option item: name and description, effectivity dates, and a field for assigning a product ID.
- **Display:** You can set display property values specific to the selected option item.

- **Properties:** You can associate with the option items properties to which the option item has access. (The option item has access either to properties defined specifically for the model to which the option item belongs or to properties defined for any model group above the option item in the model group hierarchy.)
- **Rules:** You can attach any accessible rules to the option item. (The option item has access to any rules defined at any level above it in the model group hierarchy.)

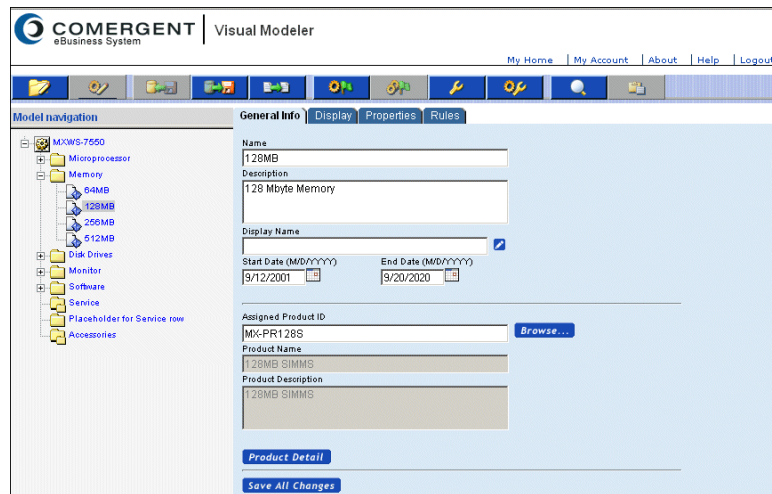


FIGURE 321. Model Detail Page with Option Item Selected

Working with Model Groups

Model groups provide you with a way of organizing related models into appropriate sections. See "Model Group Hierarchy" on page 84 for more information about how model groups relate to models, option classes, and so on.

To Create a Model Group

1. Navigate to and select the model group under which you wish to create the new model group.

See "To Access the Visual Modeler" on page 507 for information on how to display the model group.

2. Click **New Model Group**.

This displays the **New Model Group** tab.

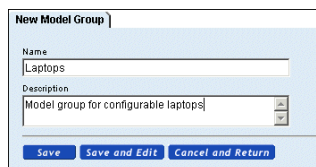


FIGURE 322. New Model Group Tab

3. Enter a name and description for the new model group.

Note:	On Windows platforms, there is a 256 character limit for a fully-qualified pathname (this includes the pathname <i>and</i> the filename). Therefore, in Visual Modeler, take care not use long names for either model groups or models, particularly if you are using non-ASCII characters. When you compile a model, Visual Modeler recreates the model group structure as directories in the file system and, in the process, expands any non-ASCII characters.
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4. Click **Save** or **Save and Edit** to save the new model group.

The new model group appears in the Model Groups frame. If you clicked **Save and Edit**, then the Visual Modeler page appears, ready for you to edit the new model group. See "To Modify a Model Group" on page 511.

To Modify a Model Group

1. Navigate to and display the model group you want to modify.

See "To Access the Visual Modeler" on page 507 for information on how to display the model group.

This displays the **General Info** tab where you can modify the name and description of the group. You can also do one or more of the following:

- Delete model groups, models, or groups that are children of the selected model group (see "To Delete the Children of a Model Group" on page 512).

Attention:	Click Save All Changes to save your changes before you leave the General Info tab.
-------------------	--

- Create a model group as a child of this group. See "To Create a Model Group" on page 510.
 - Create a model as a child of this group. See "To Create a Model" on page 515.
 - Create either an option class group or an option item group. See "Working with Option Class Groups and Option Item Groups" on page 534.
2. Click the **Properties** tab to create or modify properties for this model group. See "Properties" on page 564.

Attention: Click Save All Changes to save your changes before you leave the Properties tab.
--

3. Click the **Rules** tab to create or modify rules for this model group. See "Rules" on page 587.
4. Click the **Lists** tab to create or modify lists for this model group. See "Lists" on page 583.

To Delete the Children of a Model Group

To delete one or more children in a group (a model group, a model, an option class group, or an option item group), use the following procedure:

1. Navigate to and select the parent model group that contains the child you want to delete.

See "To Access the Visual Modeler" on page 507 for information on how to display the model group.
2. In the list box, select one or more model groups (MG), models (M), option class groups (OCG) or option item groups (OIG) to be deleted.
 - You cannot delete a model group if the group has children. You must delete the children first.
 - You cannot delete a model if it is attached as a sub-model elsewhere in the model group hierarchy.
 - You cannot delete an option class group if it is attached to another model or option class group.
 - You cannot delete an option item group if it is attached to another model, option class group, or option item group.

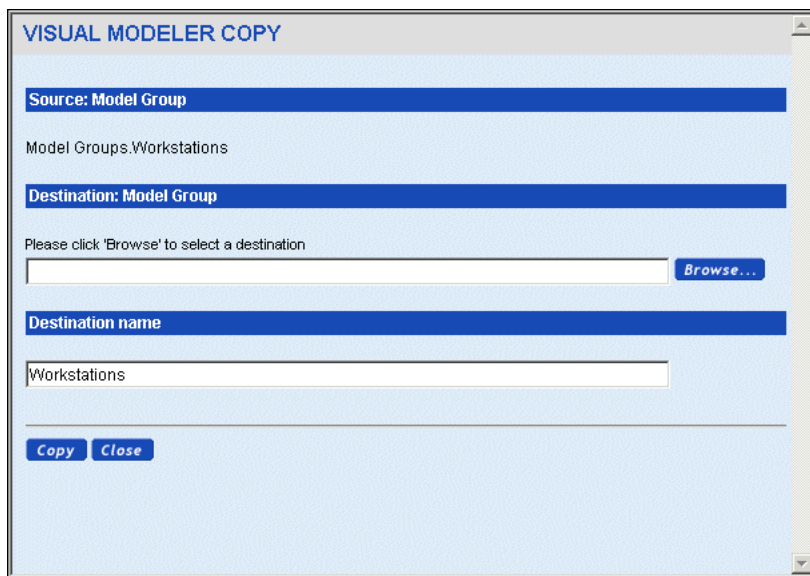
3. Click **Delete**.
4. Click **Save All Changes**.

The model group hierarchy will no longer display the deleted items.

To Copy a Model Group

You can copy a model group and its components into another model group. See "Copying and Embedding" on page 102 for an explanation of this process and the effect it has on properties.

1. Navigate to and select the model group you wish to copy.
See "To Access the Visual Modeler" on page 507 for information on how to display the model group.
2. In the taskbar, click **Copy**.
This displays the Copy window.



The screenshot shows a dialog box titled "VISUAL MODELER COPY". It has a light blue background. At the top, there's a header bar with the title. Below it, there are two main sections. The first section is labeled "Source: Model Group" in a blue bar, and below it, the text "Model Groups.Workstations" is displayed. The second section is labeled "Destination: Model Group" in a blue bar. Below this, there's a text input field containing the word "Workstations". To the right of this input field is a "Browse..." button. Above the input field, there's a small text prompt: "Please click 'Browse' to select a destination". At the bottom of the dialog, there are two buttons: "Copy" and "Close".

FIGURE 323. Copy Window for Model Groups

3. Enter the Destination Model Group.

- a. Click **Browse....**

This displays a Hierarchy Browser.

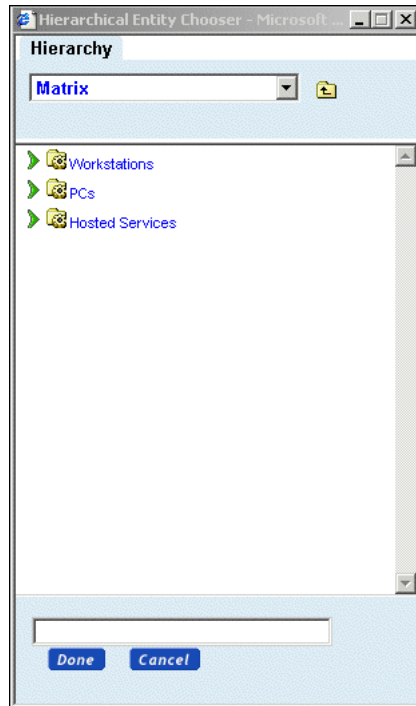


FIGURE 324. Hierarchical Entity Chooser

- b. Browse the model group hierarchy until you find the destination model group.
- c. Select the destination model group.
- d. Click **Done**.

The model group appears in the Destination Model Group field.

4. As desired, modify the Destination Name field.

The name defaults to the name of the model group being copied.

5. Click **Copy** in the Copy window.

The model group is copied to the destination model group. Properties are handled as described in "Copying and Embedding" on page 102.

Working with Models

To Create a Model

1. Navigate to and display the model group under which you wish to create a model.

See "To Access the Visual Modeler" on page 507 for information on how to display the model group.

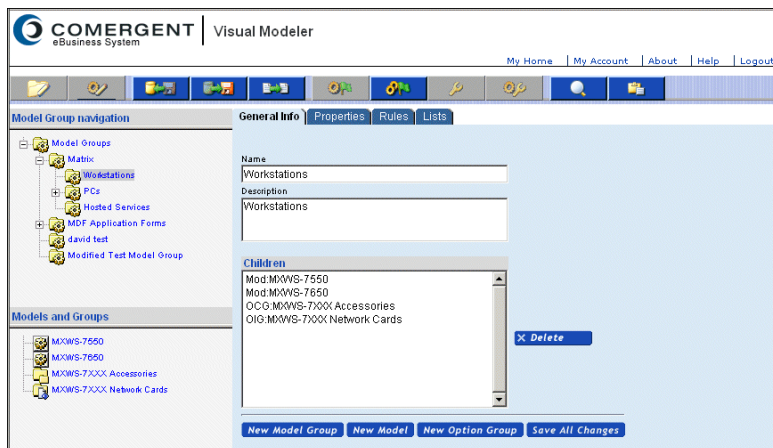


FIGURE 325. General Info Tab

2. In the **General Info** tab, click **New Model**.

This displays the **New Model** tab.

FIGURE 326. Creating a New Model

3. Enter a name and description for the new model.

If you plan to associate the model with a product ID, consider skipping this step. If the name and description match the name and description of the product ID, you can auto-fill these fields when you assign the product ID in Step 5.

Note: On Windows platforms, there is a 256 character limit for a fully-qualified pathname (this includes the pathname *and* the filename. Therefore, in Visual Modeler, take care not use long names for either model groups or models, particularly if you are using non-ASCII characters. When you translate a model, Visual Modeler recreates the model group structure as directories in a file system and, in the process, expands any non-ASCII characters.

4. Select the Start Date and End Date for the model.

These are the dates within which the model is available for configuration. If the current date is outside these dates, the model is not available for configuration for any product with which it is associated.

5. If applicable, assign a product ID.

See "To Associate a Product with a Model, Option Class, or Option Item" on page 518.

6. Click **Save** or **Save and Edit** to save the new model.

If you click **Save**, the **New Model** tab remains and the new model appears in the Models and Groups frame. You can create another model in this group.

If you click **Save and Edit**, the Model Detail page appears with the new model in the Navigation frame. You can now add properties, rules, lists, and constraint tables for this model. You can also associate the model with a product. See "To Modify an Existing Model" on page 517.

To Modify an Existing Model

1. In the model group hierarchy, navigate and display the Model Detail page for the model you want to modify.

See "To Access the Visual Modeler" on page 507 for information on how to display the Model Detail page.

2. In the **General Info** tab, you can do one or more of the following:
 - Modify the name, description, and/or the start and end dates.
 - Delete one or more of the option classes or groups associated with the model. See "To Delete the Children of a Model" on page 518.
 - Arrange the order of the children in the list.
 - Assign a product to the model, or change the current product assignment.See "To Associate a Product with a Model, Option Class, or Option Item" on page 518.

Attention: Click Save All Changes to save your changes before you leave the General Info tab.
--

- Create one or more option classes. See "To Create an Option Class" on page 524.
 - Attach an option class group. See "Working with Option Class Groups and Option Item Groups" on page 534.
 - Modify display properties. See "Working with Display Properties" on page 644.
3. Click the **Properties** tab to define properties for or to attach properties to this model.
See "Properties" on page 564.
 4. Click the **Rules** tab to define rules for or attach rules to this model.
See "Rules" on page 587.
 5. Click the **Lists** tab to create lists for this model.
See "Lists" on page 583.
 6. Click the **Tables** tab to create or modify constraint tables.
See "Option Constraints" on page 623.

To Delete a Model

You delete a model by finding the model group that is its parent, then deleting the model from that group. You cannot delete a model if it is attached as a sub-model elsewhere in the model group hierarchy.

See "To Delete the Children of a Model Group" on page 512 for the procedure.

To Delete the Children of a Model

Use this procedure to delete one or more option classes or groups that are children of a model:

1. Navigate to and display the Model Detail page for the model with the elements you want to delete.

See "To Access the Visual Modeler" on page 507 for information on how to display the model.

The **General Info** tab contains a list box showing the option classes (OC), option class groups (OCG) or option item groups (OIG) that are children to the model.

2. In the list box, select one or more objects to be deleted.
3. Click **Delete**.

Note:	Attached sub-models and groups are not deleted by this action. Only the attachment to those models and groups is removed. See "To Delete a Group" on page 549.
--------------	--

4. Click **Save All Changes**.

The model hierarchy no longer displays the deleted children.

To Associate a Product with a Model, Option Class, or Option Item

You can reference a model, option class, or option item to a product ID in the product catalog. If the product ID has been assigned to one or more price lists in Sterling Pricing, then this enables you to associate a price with the entity. In addition, if the item associated with a product is selected as part of a configuration, then when the user adds the configured product to their cart, the item is displayed with associated product ID and product information. See "Associating a Product with a Model, an Option Class, or Option Item" on page 85 for more information.

1. In the model group hierarchy, find the entity that you want to associate with a product ID.

See "To Access the Visual Modeler" on page 507 for information on how to navigate the model group hierarchy.

2. In the **General Info** tab for the model, option class, or option item, click **Browse...** to search for the product ID in the product catalog.
 - The product ID must exist in the product catalog. You create the product using Sterling Product Manager. See "Product Administration Tasks" on page 372 for information about creating products.
 - See "Searching the Product Catalog for a Product ID" on page 555 for help in browsing for a product ID. When you select the product ID, the product ID is displayed in the Assigned Product ID field and its product name and description are auto-filled into those fields.
 - You can manually enter the product ID in the Assigned Product ID field, but the Product Name and Product Description fields are not auto-filled until you save the information.
 - You can use the product name as the name of the new model. If the Name field is blank, then the field will be auto-filled with the product name. If the field has an entry already, then you will be prompted to use the product name.
 - If you are modifying a model, then you can click **Product Detail** to view the details of the assigned product.
3. Click **Save All Changes**.

To Copy a Model

You can copy a model and its components into a model group. See "Copying and Embedding" on page 102 for an explanation of this process and the effect it has on properties.

1. In the Model Groups frame, navigate to and select the model group that contains the model you want to copy. The model name is displayed in the Models and Groups frame.

See "To Access the Visual Modeler" on page 507 for information on how to navigate the model group hierarchy.

2. In the Models and Groups frame, click on the model you want to copy.

This displays the current structure of the model.

3. Click **Copy** in the taskbar.

This displays the Copy window.

VISUAL MODELER COPY

Source: Model

Model Groups.Workstations.MXWS-7550

Destination: Model Group

Please click 'Browse' to select a destination

Browse...

Destination name

Copy **Close**

FIGURE 327. Copy Window for Models

4. Enter the Destination Model Group.

- a. Click **Browse...**

This displays a Hierarchy Browser.

- b. Browse the hierarchy until you find the destination model group.
 - c. Select the destination model group.
 - d. Click **Done**.

The model group appears in the Destination Model Group field.

5. As desired, modify the Destination Name field.

The name defaults to the name of the model being copied.

6. Click **Copy** in the Copy window.

The model is copied to the destination model group. Properties are handled as defined in "Copying and Embedding" on page 102.

To Copy a Model Reference

As described in "Groups and Sub-Models" on page 87, you can re-use a model as part of another entity without having to recreate the model. You do this by attaching the model to the entity. The attachment then becomes a model reference. You can copy this model reference; that is, instead of copying the actual model, you can copy the reference to a model that is attached.

1. In the Model Groups frame, navigate to and select the model group that contains the entity with the model reference you want to copy. The entity name is displayed in the Models and Groups frame.

See "To Access the Visual Modeler" on page 507 for information on how to navigate the model group hierarchy.

2. In the Models and Groups frame, click on the entity that contains the reference you want to copy.

This displays the current structure of the entity.

3. Click **Edit** in the taskbar.

This displays the **General Info** tab.

4. In the Navigation frame, find and select the model reference you want to copy.

5. Click **Copy** in the taskbar.

This displays the Copy window.

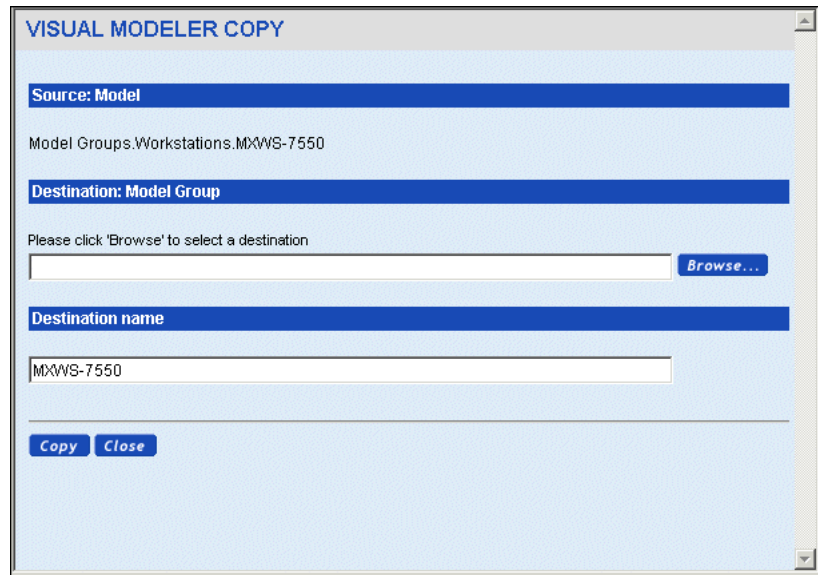


FIGURE 328. Copy Window for Copying Model References

6. Enter the Destination Option Class.
 - a. Click **Browse....**

This displays a Hierarchy Browser.
 - b. Browse the model group hierarchy until you find the destination option class.
 - c. Select the destination option class.
 - d. Click **Done**.

The option class appears in the Destination Option Class field.
7. As desired, modify the Destination Name field.

The name defaults to the name of the model reference being copied.
8. Click **Copy** in the Copy window.

The model reference is copied to the destination option class. Properties are handled as defined in "Copying and Embedding" on page 102.

To Embed a Model

You can embed a model within an option class. See "Copying and Embedding" on page 102 for an explanation of the process and its effect on properties.

1. In the Model Groups frame, navigate to and select the model group that contains the model structure you want to embed. The model name is displayed in the Models and Groups frame.

See "To Access the Visual Modeler" on page 507 for information on how to navigate the model group hierarchy.

2. In the Models and Groups frame, click on the model whose structure you want to embed.

This displays the current structure of the model.

3. Click **Edit** in the taskbar.

This displays the **General Info** tab.

4. Click **Copy** in the taskbar.

This displays the Copy window.

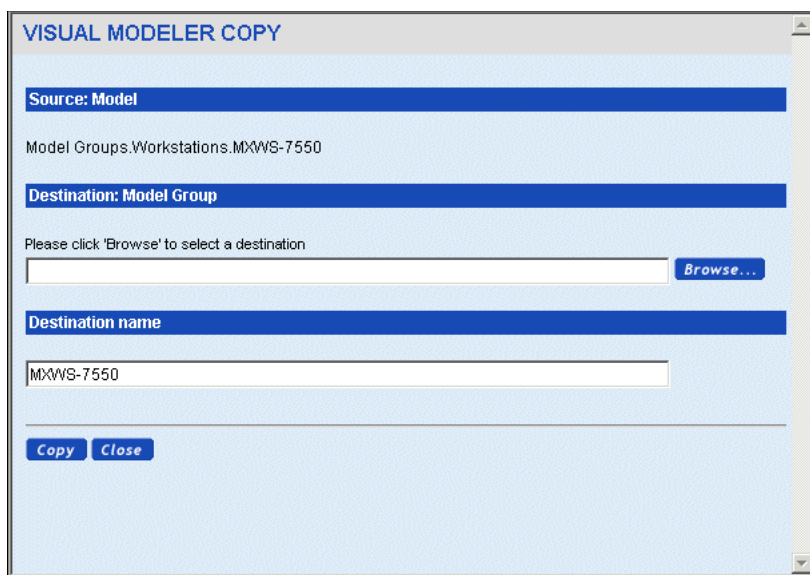


FIGURE 329. Copy Window for Embedding Models

5. Enter the Destination Option Class by typing or by browsing.

To browse for the option class:

- a. Click **Browse....**

This displays a Hierarchy Browser.

- b. Browse the model group hierarchy until you find the destination option class.
- c. Select the destination option class.
- d. Click **Done**.

The option class appears in the Destination Option Class field.

6. As desired, modify the Destination Name field.

The name defaults to the name of the model being embedded.

7. Click **Copy** in the Copy window.

Working with Option Classes and Option Items

Option classes and option items comprise configurable parts or services of a model. You can think of option classes as representing questions or components that need to be configured, while option items represent answers or choices of components. Sometimes the answer to a question can give rise to further questions. In these cases it is useful to nest option classes within other option classes to help guide a user to the configuration that best meets their needs.

To Create an Option Class

1. In the model group hierarchy, navigate to and display the model, option class group, or option class in which you want to create the option class.

See "To Access the Visual Modeler" on page 507 for information on how to navigate the model group hierarchy.

You can create an option class within another option class, within a model, or within an option class group.

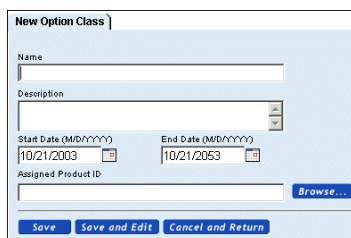
2. To create option classes as children of the model or option class group:

- a. Click **New Option Class**.

This displays the **New Option Class** tab.

- b. Proceed to Step 4.
 3. To create nested option classes:
 - a. In the Navigation frame, navigate to and select the option class where you want to nest the new class.
 - b. Click **New Option Class**.

This displays the **New Option Class** tab.
 - c. Proceed to Step 4.



The screenshot shows a web-based form titled "New Option Class". It contains the following fields and controls:

- Name:** A text input field.
- Description:** A text area with a "Show/Hide" toggle button on the right.
- Start Date (M/D/YYYY):** A date picker showing 10/21/2003.
- End Date (M/D/YYYY):** A date picker showing 10/21/2053.
- Assigned Product ID:** A text input field with a "Browse..." button to its right.
- Buttons:** At the bottom, there are three buttons: "Save", "Save and Edit", and "Cancel and Return".

FIGURE 330. New Option Class Tab

4. Enter a name and description for the new option class.

If you plan to associate the option class with a product ID, then you might consider skipping this step. If the name and description match the name and description of the product ID, then you can auto-fill these fields when you assign the product ID in Step 6.
 5. Define the effectivity dates by modifying the start and end dates.

You can click the calendar icon to select the dates from a calendar.
 6. If applicable, assign a product ID.

See "To Associate a Product with a Model, Option Class, or Option Item" on page 518.
 7. Click **Save** to save the new option class and remain at the **New Option Class** tab (to create additional option classes); click **Save and Edit** to save the new option class and display the option class tabs for editing.

The new option class appears in the Navigation frame. The new option class is selected, ready to be modified.

To Modify an Option Class

1. In the model group hierarchy, navigate to and display the model, option class group, or option class that contains the option class.

See "To Access the Visual Modeler" on page 507 for information on how to navigate the model group hierarchy.

2. In the Navigation frame, find and click on the option class that you want to modify.

This displays the **General Info** tab for the option class.

The screenshot shows the COMERGENT Visual Modeler interface. On the left is a 'Model navigation' pane with a tree view containing folders like Microprocessor, Memory, Disk Drives, Monitor, Software, Service, Placeholder for Service row, and Accessories. The 'Memory' folder is expanded, and 'Main Memory' is selected. The main area has tabs for 'General Info', 'Display', 'Properties', and 'Rules'. The 'General Info' tab is active, showing fields for Name (Memory), Description (Main Memory), Display Name, Start Date (9/12/2001), End Date (9/20/2020), Ratio (1), and a list of Children (OI:64MB, OI:128MB, OI:256MB, OI:512MB). There are buttons for 'Move Up', 'Move Down', and 'Delete' on the right. At the bottom are buttons for 'New Option Class', 'New Option Item', and 'Attach'.

FIGURE 331. Model Detail Page with Option Class Selected

3. Modify Name, Description, and Start and End Dates as applicable.
4. Enter a ratio in the **Ratio** field, if applicable.

The ratio field determines the quantity of option items that are added to a customer's order. The quantity of any child item selected is multiplied by this ratio to compute the "extended" quantity of the child item. For example, a bicycle model may have a wheel option class defined with a ration of "2". When a user selects a particular wheel item from this option class, then two wheels will be added to the configured product.

You can enter the **Ratio** as either a whole number or a decimal.

5. As applicable, modify the order of the children or delete the children.
See "To Delete the Children of an Option Class" on page 533.
6. If applicable, assign a product ID or modify the current assignment.
See "To Associate a Product with a Model, Option Class, or Option Item" on page 518.
7. Before you click the other tabs, click **Save All Changes**.
8. Click the **Display** tab to modify the display properties for this option class.
See "Working with Display Properties" on page 644.
9. Click the **Properties** tab to attach properties to this option class.
See "To Attach a Property" on page 567.
10. Click the **Rules** tab to attach rules to this option class.
See "To Attach a Rule" on page 592.

When you have completed modifying the option class, click **Save All Changes**.

You can also create option items for this option class. See "To Add Option Items to an Option Class" on page 527.

To Add Option Items to an Option Class

1. In the model group hierarchy, navigate to the option class to which you want to add the option items.
See "To Access the Visual Modeler" on page 507 for information on how to navigate the model group hierarchy.
2. In the **General Info** tab, click **New Option Item** to display the **New Option Item** tab.

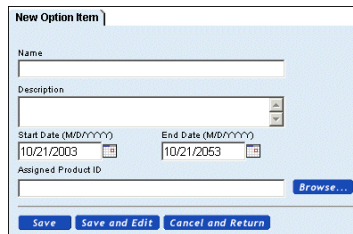


FIGURE 332. New Option Item Tab

3. Enter a name and description for the new option item.

If you plan to associate the option item with a product ID, then you might consider skipping this step. If the name and description match the name and description of the product ID, then you can auto-fill these fields when you assign the product ID in Step 5.

4. Define the effectivity dates by modifying the start and end dates.
5. If applicable, assign a product Id.

See "To Associate a Product with a Model, Option Class, or Option Item" on page 518.

6. Click **Save** or **Save and Edit**.

The new option item appears in the model hierarchy in the Navigation frame.

To Copy an Option Class

You can copy an option class and its components into a model, an option class group, or another option class. See "Copying and Embedding" on page 102 for an explanation of this process and the effect it has on properties.

1. Navigate to and select the parent model group for the model or option class group that contains the option class.

See "To Access the Visual Modeler" on page 507 for information on how to navigate the model group hierarchy.

2. In the Models and Groups frame, click on the model or option class group that contains the option class.

This displays the current structure of the model or option class group.

3. Click **Edit** in the taskbar.

This displays the **General Info** tab for the model or option class group.

4. In the Navigation frame, find and click on the option class that you want to copy.

This displays the **General Info** tab for the option class.

5. Click **Copy** in the taskbar.

This displays the Copy window.

Source: Option Class

Model Groups.Workstations.MXWS-7650.Custom Color

Destination: Model/Option Class Group/Option Class

Please click 'Browse' to select a destination

Browse...

Destination name

Custom Color

Copy Close

FIGURE 333. Copy Window for Option Classes

6. Enter the destination model, option class group, or option class as follows:
 - a. Click **Browse...**

This displays a Hierarchy Browser.
 - b. Browse the model group hierarchy until you find the destination model, option class group, or option class and select it.

- c. Click **Done**.

The model, option class group, or option class appears in the Destination Model/OCG/Option Class field.

7. Enter the Destination name.

The name defaults to the name of the option class being copied.

8. Click **Copy** in the Copy window.

The option class is copied to the destination model, option class group, or option class. Properties are handled as defined in "Copying and Embedding" on page 102.

To Modify an Option Item

1. Find the option item that you want to modify.

See "To Access the Visual Modeler" on page 507 for information on how to navigate the model group hierarchy.

When you click the option item, the **General Info** tab is displayed.

The screenshot displays the COMERGENT Visual Modeler web application. On the left is a 'Model navigation' tree with categories like Microprocessor, Memory, Disk Drives, Monitor, Software, Service, Placeholder for Service row, and Accessories. The 'Memory' category is expanded, showing options like 0-4MB, 128MB, 256MB, and 512MB. The main area has tabs for 'General Info', 'Display', 'Properties', and 'Rules'. The 'General Info' tab is selected, showing a form with the following fields: Name (128MB), Description (128 Mbyte Memory), Display Name (with a checkmark icon), Start Date (3/12/2001), End Date (3/20/2020), Assigned Product ID (MX-PR128S with a 'Browse...' button), Product Name (128MB SIMMS), and Product Description (128MB SIMMS). At the bottom are buttons for 'Product Detail' and 'Save All Changes'.

FIGURE 334. Model Detail Page with Option Item Selected

2. If applicable, modify the name, description, start/end dates.

3. If applicable, assign a product Id.

See "To Associate a Product with a Model, Option Class, or Option Item" on page 518.

Attention: Before you click the other tabs, click Save All Changes .
--

4. Click the **Display** tab to modify the display properties for this option item.

See "Working with Display Properties" on page 644.

5. Click the **Properties** tab to attach properties to this option item.

See "To Attach a Property" on page 567.

6. Click the **Rules** tab to attach rules to this option item.

See "To Attach a Rule" on page 592.

To Copy an Option Item

You can copy an option item into an option item group or an option class. See "Copying and Embedding" on page 102 for an explanation of this process and the effect it has on properties.

1. Find the option item that you want to copy.

See "To Access the Visual Modeler" on page 507 for information on how to navigate the model group hierarchy.

When you click the option item in the Navigation frame, the **General Info** tab is displayed.

2. Click **Copy** in the taskbar.

This displays the Copy window.

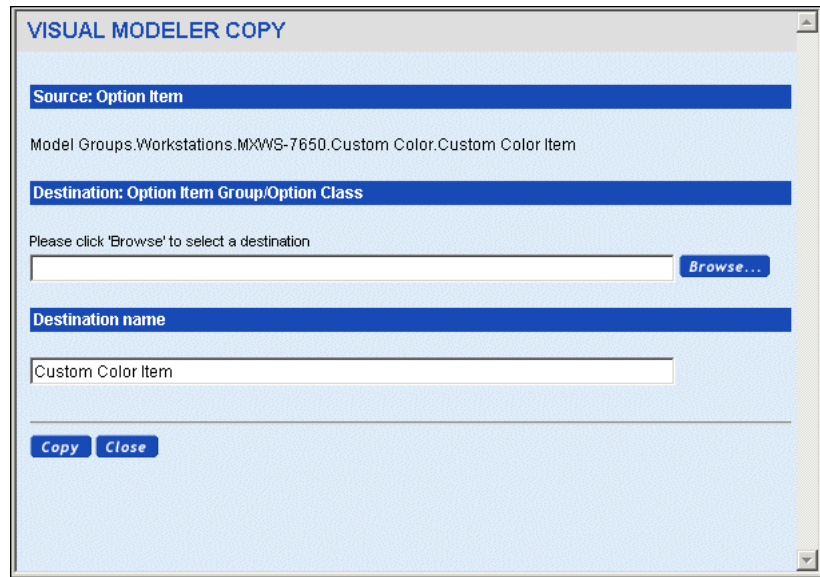


FIGURE 335. Copy Window for Option Items

3. Enter the destination option item group or option class.

a. Click **Browse....**

This displays a Hierarchy Browser.

b. Browse the model group hierarchy until you find the option item group or option class and select it.

c. Click **Done**.

The option item group or option class appears in the Destination: Option Item Group/Option Class field.

4. Enter the Destination name.

The name defaults to the name of the option item being copied.

5. Click **Copy** in the Copy window.

The option item is copied to the destination option item group or option class. Properties are handled as defined in "Copying and Embedding" on page 102.

To Delete an Option Class

You delete an option class by deleting the option class as a child of the parent to which it belongs. This can be one of the following:

- A model. See "To Delete the Children of a Model" on page 518.
- An option class. See "To Delete the Children of an Option Class" on page 533.
- An option class group. See "To Delete the Children of a Group" on page 550.

Deleting the option class automatically deletes any option items, nested option classes, or attachments to groups.

Note:	Nested groups are not deleted when you delete an option class, only the attachment to those groups.
--------------	---

To Delete the Children of an Option Class

You can delete option items and nested option classes, as well as any attachments to groups.

1. Navigate to and display the detail page for the model or option class group that contains the option class.

See "To Access the Visual Modeler" on page 507 for information on how to navigate the model group hierarchy.

2. In the Navigation frame, navigate to and select the option class.

This displays the **General Info** tab which contains a list box showing the children of the option class.

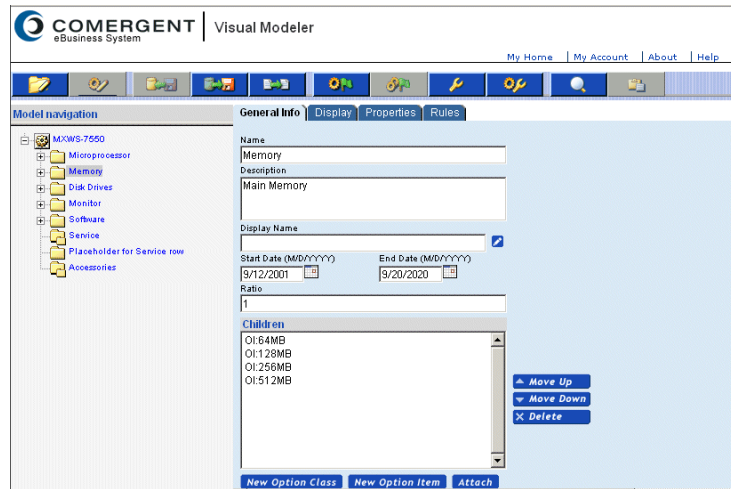


FIGURE 336. Model Detail Page with Option Class Selected

3. Click the item to be deleted: option item (OI), option class (OC), model, option class group (OCG), or option item group (OIG).

Note: Nested groups are not deleted. However, the attachment to those groups is removed.

4. Click the **Delete** button.
5. Click **Save All Changes**.

The items are no longer displayed in the Navigation frame.

Working with Option Class Groups and Option Item Groups

See "Groups and Sub-Models" on page 87 for an explanation of how groups work.

To Create a Group

1. In the Model Groups frame, navigate to and select the model group for which you are creating the option class group or option item group.

See "To Access the Visual Modeler" on page 507 for information on how to navigate the model group hierarchy.

This displays the **General Info** tab for the group. Make sure you are creating the group within the appropriate model group. The group will be available for attachment to any items below this model group in the model group hierarchy.

2. Click **New Option Group**.

This displays the **New Option Class/Item Group** tab (see Figure 337 on page 535).

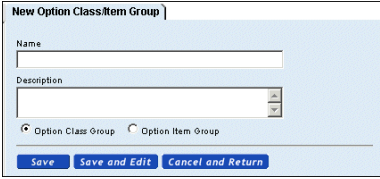


FIGURE 337. New Option Class/Item Group tab

3. Enter a name and description for the group.
4. Select the type of group (Option Class Group or Option Item Group).
5. Click **Save** or **Save and Edit**.

The group appears in the hierarchy. You can now begin to build the group. The first step is to create one or more option classes. See "To Create an Option Class" on page 524.

To Modify a Group

When you modify a group and then compile it, the modifications are reflected in any model to which the group is attached, once the model is recompiled.

1. In the model group hierarchy, navigate to and select the option class group or option item group that you want to modify.

See "To Access the Visual Modeler" on page 507 for information on how to navigate the model group hierarchy.

This displays the **General Info** tab for the group.

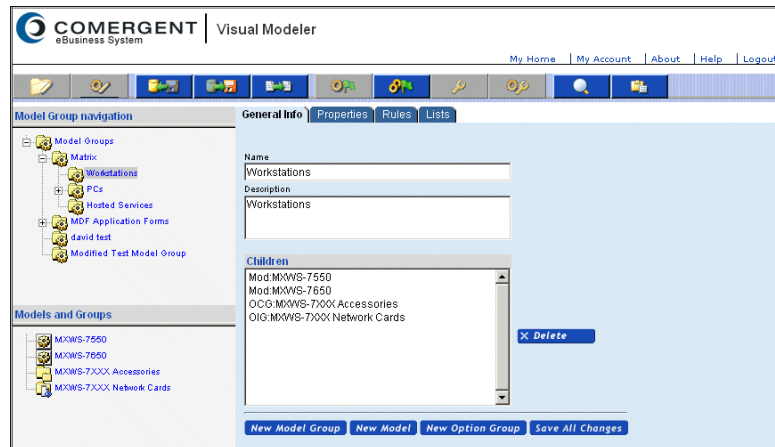


FIGURE 338. Modifying a Group

2. Modify the name and description, reorder or delete the children.

See "To Delete the Children of a Group" on page 550 for information about deleting the children of a group.

3. (Option item groups only) If applicable, define start/end dates.
4. Click **Save All Changes**.

You can also do the following:

- Add option classes to an option class group. See "To Create an Option Class" on page 524.
- Attach groups to the group. See "To Attach a Group to a Model or Another Group" on page 542.

To Copy an Option Class Group

You can copy an option class group to a model group.

1. In the Model Groups frame, navigate to and select the model group that contains the group you want to copy. (See "To Access the Visual Modeler" on page 507 for information on how to navigate the model group hierarchy.)
2. In the Models and Groups frame, click on the group you want to copy.
The current structure of the group, if any, appears in the content frame.
3. Click **Copy** in the taskbar.

This displays the Copy window.

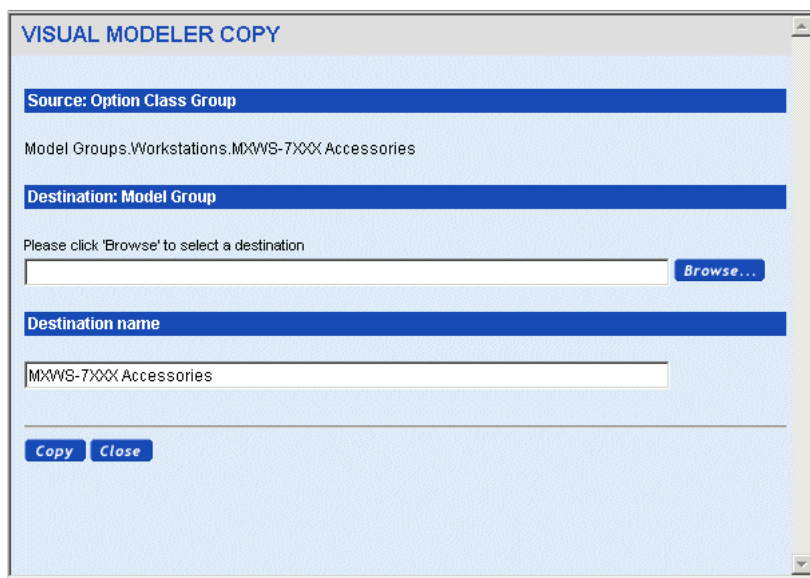


FIGURE 339. Copy Window for Option Class Groups

4. Enter the Destination Model Group.
 - a. Click **Browse...**
This displays a Hierarchy Browser.
 - b. Browse the model group hierarchy until you find the destination model group and select it.
 - c. Click **Done**.

The model group appears in the Destination Model Group field.

5. Enter the Destination name.

The name defaults to the name of the option class group being copied.

6. Click **Copy** in the Copy window.

The option class group is copied to the destination model group. Properties are handled as defined in "Copying and Embedding" on page 102.

To Embed an Option Class Group

You can embed an option class group within a model, another option class group, or an option class. See "Copying and Embedding" on page 102 for an explanation of how the process handles properties.

1. In the Model Groups frame, navigate to and select the model group that contains the option class group you want to embed. The group name is displayed in the Models and Groups frame.

See "To Access the Visual Modeler" on page 507 for information on how to navigate the model group hierarchy.

2. In the Models and Groups frame, click on the group you want to embed.

This displays the current structure of the group.

3. Click **Edit** in the taskbar.

This displays the **General Info** tab.

4. Click **Copy** in the taskbar.

This displays the Copy window.

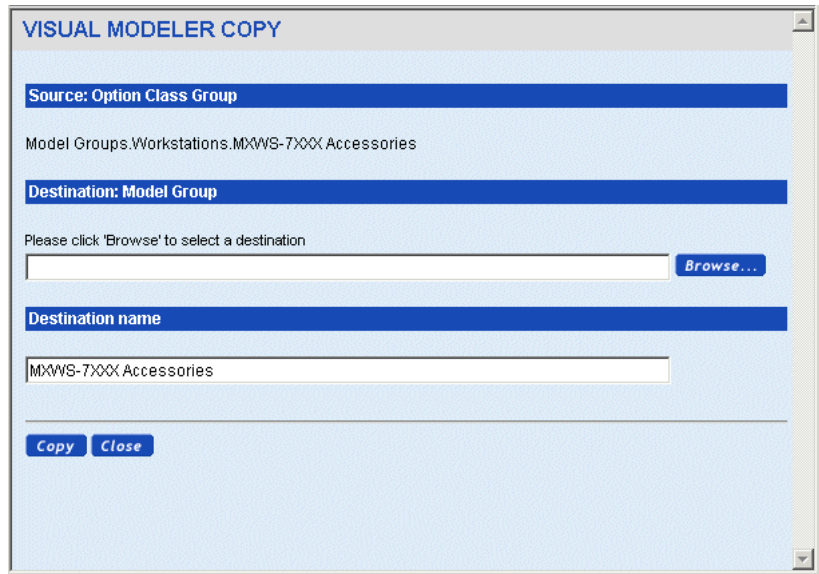


FIGURE 340. Copy Window for Embedding Option Class Groups

5. Enter the destination model, option class group, or option class as follows:

- a. Click **Browse....**

This displays a Hierarchy Browser.

- b. Browse the model group hierarchy until you find the destination model, option class group, or option class and select it.

- c. Click **Done**.

The model, option class group, or option class appears in the Destination Model/Option Class Group/Option Class field.

6. Click **Copy** in the Copy window.

The option class group is embedded in the destination model, option class group, or option class. Properties are handled as defined in "Copying and Embedding" on page 102.

To Copy an Option Item Group

You can copy an option item group to a model group.

1. In the Model Groups frame, navigate to and select the model group that contains the option item group you want to copy. (See "To Access the Visual Modeler" on page 507 for information on how to navigate the model group hierarchy.)
2. In the Models and Groups frame, click on the option item group you want to copy.

The current structure of the group, if any, appears in the content frame.

3. Click **Copy** in the taskbar.

This displays the Copy window.

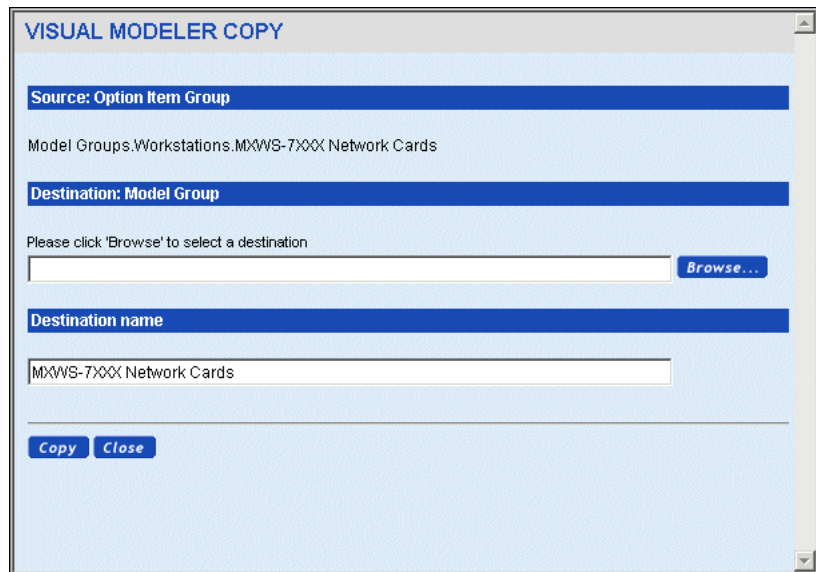


FIGURE 341. Copy Window for Option Item Groups

4. Enter the Destination Model Group.
 - a. Click **Browse...**

This displays a Hierarchy Browser.
 - b. Browse the model group hierarchy until you find the destination model group.
 - c. Select the destination model group.

- d. Click **Done**.

The model group appears in the Destination Model Group field.

5. Enter the Destination name.

The name defaults to the name of the option item group being copied.

6. Click **Copy** in the Copy window.

The option item group is copied to the destination model group. Properties are handled as defined in "Copying and Embedding" on page 102.

To Embed an Option Item Group

You can embed an option item group within another option item group or option class. See "Copying and Embedding" on page 102 for an explanation of how the process handles properties.

1. In the Model Groups frame, navigate to and select the model group that contains the option item group you want to embed. The group name is displayed in the Models and Groups frame.

See "To Access the Visual Modeler" on page 507 for information on how to navigate the model group hierarchy.

2. In the Models and Groups frame, click on the group you want to copy.

This displays the current structure of the group.

3. Click **Edit** in the taskbar.

This displays the **General Info** tab.

4. Click **Copy** in the taskbar.

This displays the Copy window.

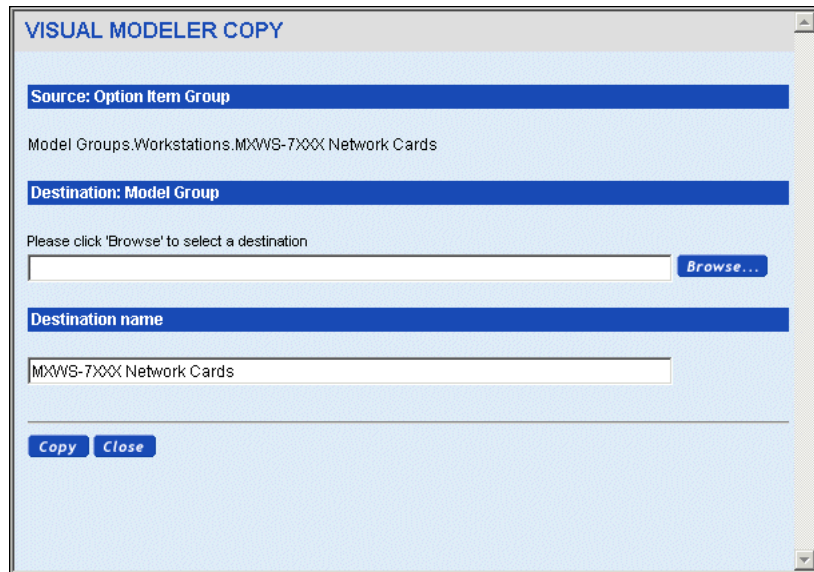


FIGURE 342. Copy Window for Embedding Option Item Groups

5. Enter the destination option item group or option class.

a. Click **Browse...**

This displays a Hierarchy Browser.

b. Browse the model group hierarchy until you find the destination option item group or option class and select it.

c. Click **Done**.

The option item group or option class appears in the Destination OIG/Option Class field.

6. Click **Copy** in the Copy window.

The option item group is embedded in the destination option item group or option class. Properties are handled as defined in "Copying and Embedding" on page 102.

To Attach a Group to a Model or Another Group

You can attach a model only to an option class (see "To Attach a Model, Option Class Group, or Option Item Group to an Option Class" on page 544). You can attach an option class group to a model, an option class, or another option class

group. You can attach an option item group to an option class or to another option item group.

1. In the Model Groups frame, navigate to and select the model group that contains the model or group to which you want to attach the group.

See "To Access the Visual Modeler" on page 507 for information about how to navigate the model group hierarchy.

2. In the Models and Groups frame, click on the model or group to which you want to attach the option class group or option item group.
3. Click **Edit**.

This displays the **General Info** tab for the model or group.

4. In the **General Info** tab, click **Attach**.

This displays the **Attach** tab.

The screenshot shows a web-based form titled "Attach". It contains two text input fields: "Name" and "Description". Below the "Description" field is a small icon of a folder with a checkmark. Below this is a text prompt: "Please click 'Browse' to select a Model/OCG/DIG to attach". There is a "Browse..." button to the right of this prompt. At the bottom of the form are two buttons: "Assign" and "Return to General".

FIGURE 343. Attach Tab

5. Enter a name and description for the attachment to the group or model.
6. Select the option class group or option item group to be attached.

- a. Click **Browse...**

This displays a Hierarchy Browser.

- b. Browse the model group hierarchy until you find the option class group or option item group.
- c. Select the group.
- d. Click **Done**.

The group appears in the selection field.

7. Click **Assign**.

You can click **Return to General** to return to the **General Info** tab.

The name you entered for the attached group or model appears in the model hierarchy in the Navigation frame.

To Attach a Model, Option Class Group, or Option Item Group to an Option Class

You can attach a model, an option class group, or an option item group to an option class.

1. In the Model Groups frame, navigate to and select the model group that contains the model with the option class.

See "To Access the Visual Modeler" on page 507 for information on how to navigate the model group hierarchy.

2. In the Models and Groups frame, click on the model or option class group that contains the option class.

The current structure of the model or group, if any, appears in the content frame.

3. Click **Edit**.

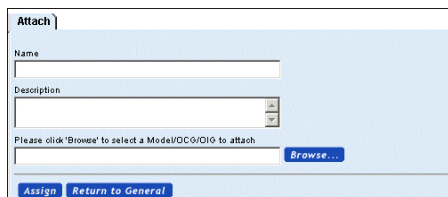
This displays the **General Info** tab for the model or group.

4. In the Navigation frame, navigate to and select the option class to which you want to attach the group.

This displays the **General Info** tab for the option class.

5. In the **General Info** tab, click **Attach**.

This displays the **Attach** tab.



The screenshot shows the 'Attach' tab interface. It has a title bar 'Attach |'. Below it are two text input fields: 'Name' and 'Description'. The 'Description' field has a small dropdown arrow on its right. Below these fields is a message: 'Please click 'Browse' to select a Model/OCG/DIG to attach'. Underneath this message is another text input field and a blue button labeled 'Browse...'. At the bottom of the form are two blue buttons: 'Assign' and 'Return to General'.

FIGURE 344. Attach Tab

6. Enter a name and description for the attached group or model.
7. Select the model, option class group, or option item group to be attached.

- a. Click **Browse....**

This displays a Hierarchy Browser.

- b. Browse the model group hierarchy until you find the model, option class group, or option item group.
- c. Select the model or group.
- d. Click **Done**.

The model or group appears in the selection field.

8. Click **Assign**.

You can click **Return to General** to return to the **General Info** tab.

The name you entered for the attached model or group appears in the model hierarchy in the Navigation frame.

To View the Structure of an Attached Group

Once a group is attached, you can view the group's structure by clicking **Show Detail**.

1. Navigate to the level in the hierarchy (model, option class or option item) where the group is attached.

See "To Access the Visual Modeler" on page 507 for information on how to navigate the model group hierarchy.

2. Click **Show Detail**.

This displays a read-only view of the group's structure.

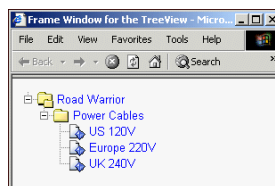


FIGURE 345. Model Group View

To Copy an Option Class Group Attachment

You can copy a reference to an option class group; that is, rather than copy the group itself, you copy the reference to the group. You can copy the reference into either a model, an option class group or into an option class.

1. In the Model Groups frame, navigate to and select the model group that contains the entity with the option class group attachment you want to copy. (See "To Access the Visual Modeler" on page 507 for information on how to navigate the model group hierarchy.)
2. In the Models and Groups frame, click on the entity that contains the attachment you want to copy.

The current structure of the model appears in the content frame.

3. Click **Edit** in the taskbar.

This displays the model in the Navigation frame and the **General Info** tab for the group.

4. In the Navigation frame, navigate the model until you find the attached group you want to copy.
5. Click the attached group.
6. Click **Copy** in the taskbar.

This displays the Copy window.

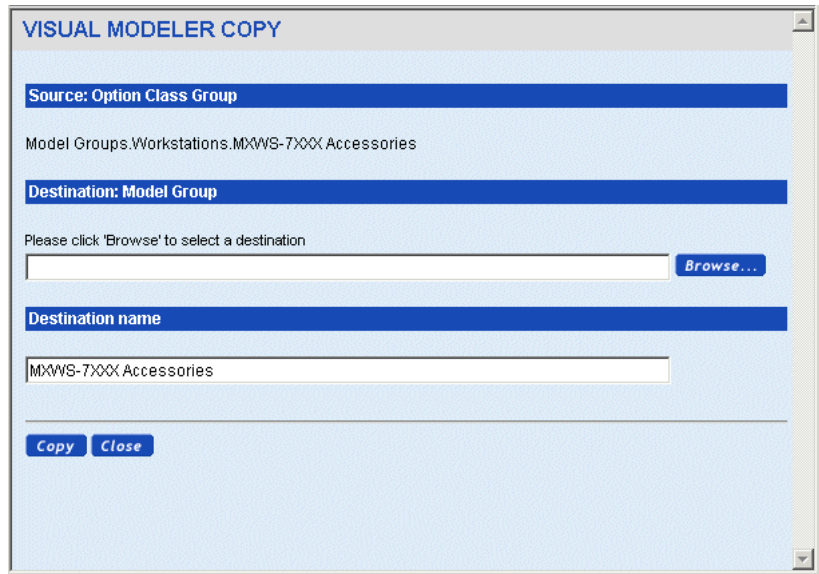


FIGURE 346. Copy Window for Option Class Group Attachments

7. Enter the destination model, option class group, or option class as follows:
 - a. Click **Browse....**
This displays a Hierarchy Browser.
 - b. Browse the model group hierarchy until you find the destination model, option class group, or option class and select it.
 - c. Click **Done**.

The model, option class group, or option class appears in the Destination Model/Option Class Group/Option Class field.

8. Enter the Destination name.

The name defaults to the name of the option class group being copied.

9. Click **Copy** in the Copy window.

The attachment is copied to the destination model, option class group, or option class. Properties are handled as defined in "Copying and Embedding" on page 102.

To Copy an Option Item Group Attachment

You can copy a reference to an option item group; that is, rather than copy the group itself, you copy the reference to the group. You can copy the reference into either an option item group or into an option class.

1. In the Model Groups frame, navigate to and select the model group that contains the entity with the option item group attachment you want to copy. (See "To Access the Visual Modeler" on page 507 for information on how to navigate the model group hierarchy.)
2. In the Models and Groups frame, click on the entity that contains the attachment you want to copy.

The current structure of the entity appears in the content frame.

3. Click **Edit** in the taskbar.

This displays the entity in the Navigation frame and the **General Info** tab for the group.

4. In the Navigation frame, navigate the entity until you find the attached group you want to copy.
5. Click the attached group.
6. Click **Copy** in the taskbar.

This displays the Copy window.

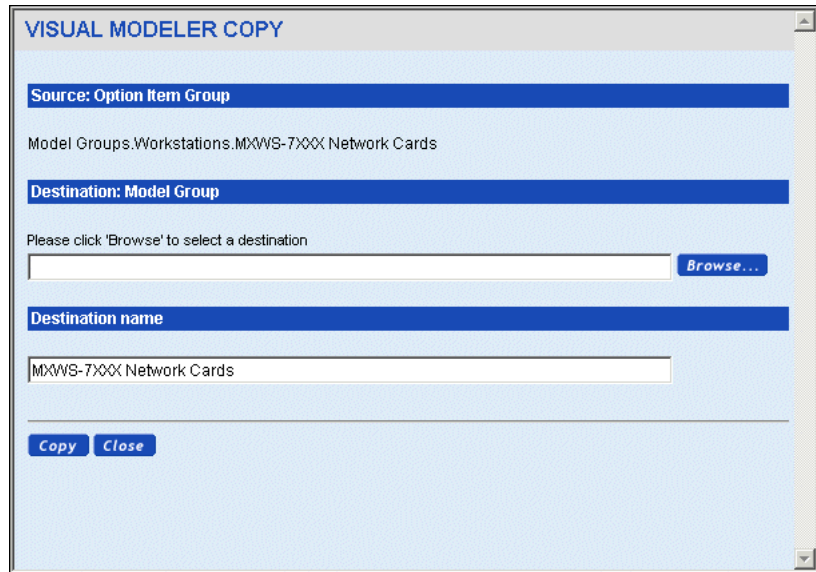


FIGURE 347. Copy Window for Option Item Group Attachments

7. Enter the destination option item group or option class.
 - a. Click **Browse...**
This displays a Hierarchy Browser.
 - b. Browse the model group hierarchy until you find the option item group or option class and select it.
 - c. Click **Done**.
The option item group or option class appears in the Destination Option Item Group/Option Class field.
8. Click **Copy** in the Copy window.

The attachment is copied to the destination option item group or option class. Properties are handled as defined in "Copying and Embedding" on page 102.

To Delete a Group

You delete a group by finding the model group that is the parent of the group you want to delete, then deleting the group from that model group. See "To Delete the Children of a Model Group" on page 512 for the procedure.

- You cannot delete an option class group if it is being referenced from another model or option class group.
- You cannot delete an option item group if it is referenced from another model, option class group, or option item group.

To Delete the Children of a Group

Use this procedure to delete one or more option classes or groups that are children of a group:

1. Navigate to and select the parent model group that contains the group with the children you want to delete.

See "To Access the Visual Modeler" on page 507 for information on how to navigate the model group hierarchy.

2. In the Models and Groups frame, click on the group.

This displays the current structure of the group.

3. Click **Edit**.

This displays the **General Info** tab that contains a list box showing the children belonging to the group. This can include option classes (OC) and option class groups (OCG).

4. In the list box, select one or more elements to be deleted.
5. Click **Delete**.

Note: Groups are not deleted by this action. Only the attachment to those groups is removed. See "To Delete a Group" on page 549.
--

6. Click **Save All Changes**.

The model hierarchy no longer displays the deleted elements.

Including Sub-Models in Models

You can include one model in another so that a sub-component of the parent model can be modeled and configured separately. For example, you might have a parent model for cellular products that includes configurable sub-components for cell phones and calling plans.

To Include a Sub-Model in a Model

Suppose that you have a model A, and you want to use Model B as an option item in Model A, so that end-users can configure the Model B component as part of a session to configure model A.

1. Create Model B as a model in its own right, and compile it. Make a note of the location of this model in the model group and model hierarchy. For example: Matrix/Computers/Workstations/Configurable Monitors/Matrix Monitor.
2. Navigate to Model A and to the location in the Model hierarchy at which you want to include Model B as an option item.
3. Create the option item and enter a name, description, and effectivity dates for it. Click **Save**.
4. Click the **Properties** tab.
5. Select CONFIG: SUBMODEL NAME in the Unattached Properties drop-down list.
6. In the Value field, enter the fully qualified name to Model B. For example, Matrix/Computers/Workstations/Configurable_0020Monitors/Matrix_0020Monitor. Note the use of escape characters to encode special characters such as spaces. See "Special Characters Encoding" on page 552 for more information.
7. Click **Attach**.
8. Click **Save All Changes**.
9. A separate property called CONFIG: SUBMODEL RETURN controls whether end-users return to the main model after configuring the child model.
 - a. If you want to have end-users return to the main model when they have finished configuring Model B, then set the value of CONFIG: SUBMODEL RETURN to "true".
 - b. If you want to have end-users return to directly to the calling application when they have finished configuring Model B, then set the value of CONFIG: SUBMODEL RETURN to "false".
10. Click **Attach**.
11. Click **Save All Changes**.
12. Click **Compile** to re-compile Model A.
13. To test the model, click **Test**.

Special Characters Encoding

You must encode any special characters in model group and model names when you provide model group path names and model names.

The following table lists some common special character encodings:

TABLE 33. Character Encodings

Character	Encoding
" " (blank)	_0020
"_"	_002D
"/"	_002F
"!"	_0021
"@"	_0040
"#"	_0023
"\$"	_0024

Testing a Model

You can test the model at any point while you are creating it. The test model feature performs the following steps:

1. Compiles the model into an XML file.
2. Launches the browser.
3. Displays the model as a HTML page.

To Test a Model

1. Navigate to the model that you want to test.

See "To Access the Visual Modeler" on page 507 for information on how to navigate the model group hierarchy.

2. Click **Compile**.

A dialog box reports that compilation is successful.

3. Click **Test Model**.

This displays a configuration window as the end-user will see it, based on the current model.

Note that if you click **Compile and Test**, then both actions are taken.

4. To change some of the environmental variables that affect how a model displays, click **Set Defaults**.

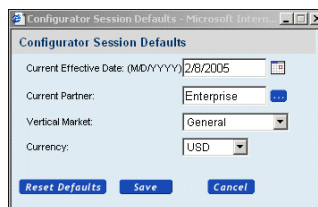


FIGURE 348. Set Defaults Window

Model display environmental variables include:

- **Current Effective Date:** by changing the date in this field, you can view the model as it would be viewed by a customer on the specified date. This means that you would see only option classes and option items that are effective on that date, and the prices that you see are based on price lists effective on that date.
- **Current Partner:** By selecting a specified a partner, you view the model as it would be seen by a user of that particular partner. Depending on the assignment of price lists to the partner, this may affect which option classes and option items are displayed.
- **Vertical Market:** When customers create carts and orders, they can specify a customer type: this is used to filter which price lists are to be used in calculating prices. By selecting a customer type, you can check how the model will be seen by customers who select the same customer type.
- **Currency:** When customers create carts and orders, they can specify a currency: this is used to filter which price lists are to be used in calculating prices. By selecting a currency, you can check how the model will be seen by customers who select the same currency.

Compiling a Model

Before a model can be associated with a configurable product and a customer can use the model you have created to configure a product, you must compile the model into XML format and store the model in a location accessible by Sterling Configurator. Only compiled models can be associated with configurable products.

To Compile a Model

1. Navigate to the model that you want to compile.

See "To Access the Visual Modeler" on page 507 for information on how to navigate the model group hierarchy.

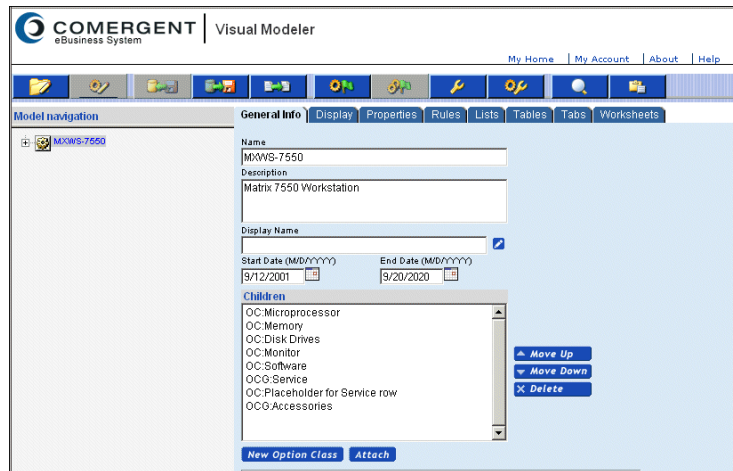


FIGURE 349. Model Navigation Detail Page

2. Click **Compile**.

The model is compiled into an XML file. This XML file is placed in the following location in *debs_home*/Sterling/WEB-INF/data/config/. This directory contains several directories, one for each locale. The model resides within the directory representing your preferred locale in either the folder representing the root model group folder or in one of the folders representing model groups within the root

model group. They are stored in the shared location of a clustered deployment of the Sterling Multi-Channel Selling Solution.

<p>Attention: If your implementation of the Sterling Multi-Channel Selling Solution makes use of a staging and a production system, then bear in mind that the XML files may have to be moved over to the production environment or the model directories must be shared between the systems.</p> <p>In addition, the product records in the Knowledgebase for configurable products may have to be updated to point to the location of the XML files.</p>

If your model group and model hierarchy include special characters (that is, non-alphanumeric characters), then these are encoded in the directory and files names that correspond to them. See "Special Characters Encoding" on page 552 for more information.

To Compile All Models

Rather than compile models one by one, you can also compile all the models in a model group at once.

1. Navigate to the model group whose models you want to compile. This can be the top-level model group.
2. Click **Compile All**.
3. In the Compile All Models window, click **Compile All Models**.
4. The Compile All Models Status window is displayed.
5. When it reports that all the models have been compiled, then click **Close**.

Searching the Product Catalog for a Product ID

See "Associating a Product with a Model, an Option Class, or Option Item" on page 85 for a description of associating products with models, option classes, and option items. When you assign a product ID, you can click **Browse...** to display the Hierarchical Entity Chooser.

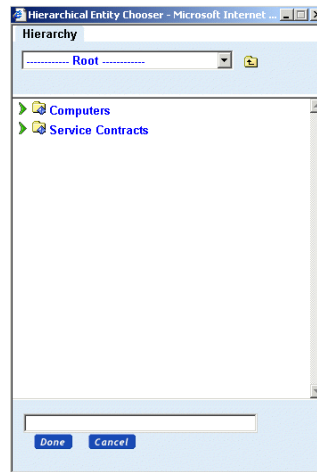


FIGURE 350. Hierarchical Entity Chooser

You can use this window to navigate through the hierarchy until you find the product ID that you want to assign to the model object. You can click the **Search** tab to search through products unassigned to any product category.

Click **Done** when you find the product ID that you want to assign. The product ID appears in the Assigned Product ID field.

Working with a Tabbed User Interface

You can design your end-user interface so that, rather than being displayed in a single frame, the option classes appear within a series of tabs. You do this by first selecting the Tabbed Configurator JSP template at the model level, which sets the display property UI:JSP Filename (see "Working with Display Properties" on page 644). You then design the end-user interface using **Tabs** tab.

To Create a Tabbed User Interface

1. Navigate to the model for which you want to create the tabbed interface.

See "To Access the Visual Modeler" on page 507 for information about how to navigate the model group hierarchy.

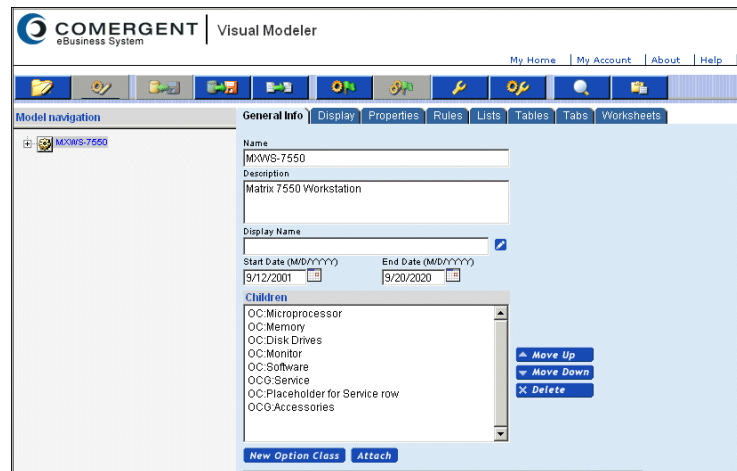


FIGURE 351. Detail Page with Model Selected

2. Click the **Display** tab.

The **Display** tab displays.

The screenshot shows the 'COMERGENT Visual Modeler' interface. The top navigation bar includes 'My Home | My Account | About | Help | Logout'. Below this is a toolbar with various icons. The 'Display' tab is selected in the main navigation bar. On the left, a 'Model navigation' pane shows a tree structure with 'MXWS-7550' selected. The main content area is titled 'Display' and contains several sections: 'Configurator Behaviour' with checkboxes for 'Default Selection', 'Ignore In Quote', and 'Multi-Pass Rule Firing', a text input for 'Number of Columns' (set to 3), a dropdown for 'JSP Template' (set to 'Tabbed Configurator'), and a dropdown for 'Submit to Server' (set to 'Automatically after each user selection'); 'Pricing and Lead time' with a dropdown for 'Price Display', and text inputs for 'Price' and 'Lead Time in Days'; and 'User Guidance' with text inputs for 'Help URL', 'Image' (set to './images/workstation.gif'), 'Constant Guiding Text', 'Pre-Pick Guiding Text', 'Post-Pick Guiding Text', 'Option Class Display Name', and 'Option Item Display Name'. Each section has 'Reset' and 'Save All Changes' buttons at the bottom.

3. Select Tabbed Configurator from the JSP Template drop-down list.

This automatically sets the UI: JSP FILENAME property to Configurator_Tabbed.jsp.

4. Click the **Tabs** tab.

This displays the **Tabs** tab.



FIGURE 352. Tabs Tab

5. Enter a name for the tab in the Tab Name field.
6. Click **Add**.

The content frame displays an area for editing the new tab.

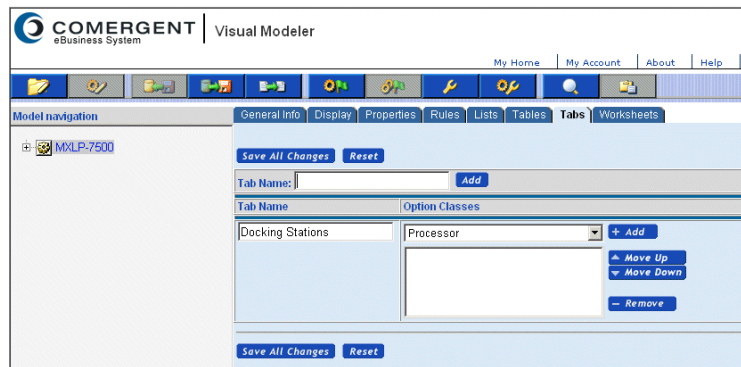


FIGURE 353. Tabs Tab with Entry

7. Select the option classes or option class groups for the tab.
 - a. Select an option class or option class group from the drop-down list.
 - b. Click **Add**.

- Repeat the last step for each option class or option class group you want in the tab.

Note: If you are creating a tabbed UI, then not all option classes must be accounted for in the tabs. Any option classes not included in a tab will not be displayed to the end-user.

- Click **Move Up** or **Move Down** to arrange the order of the entities. To remove an entity, click the entity, then click **Remove**.
- Click **Save All Changes**.

To Modify a Tab

- Navigate to the model with the tabbed interface.

See "To Access the Visual Modeler" on page 507 for information on how to navigate the model group hierarchy.

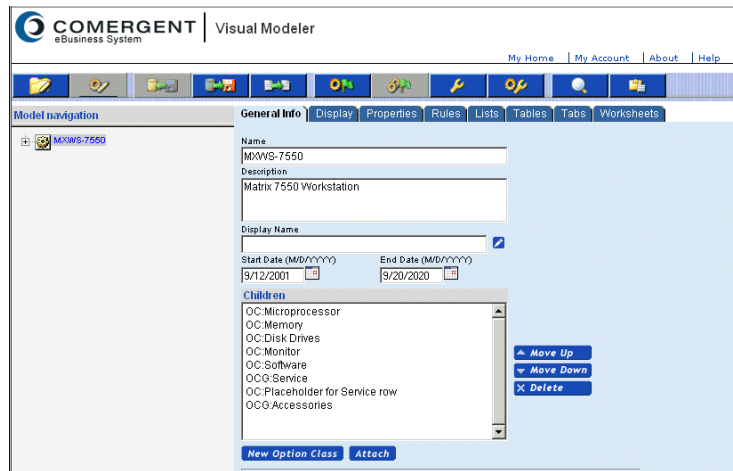


FIGURE 354. Detail Page with Model Selected

- Click the **Tabs** tab.
This displays the **Tabs** tab.

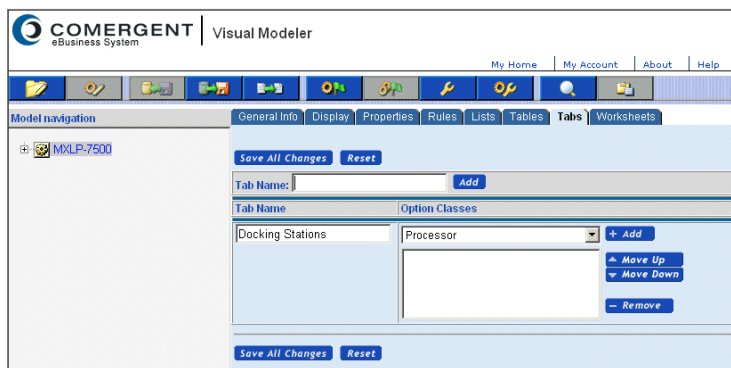


FIGURE 355. Tabs Tab

3. Find the tab element you want to modify.
4. To rearrange the order of the entities within the tab:
 - a. Find and select the entity you want to move.
 - b. Click **Move Up** or **Move Down**.
5. To remove an entity:
 - a. Find and select the entity you want to remove.
 - b. Click **Remove**.
6. To rearrange the location of the tab within the list of tabs, click the up or down arrows in the far right.
7. Click **Save All Changes**.

To Delete a Tab

1. Navigate to the model with the tabbed interface.

See "To Access the Visual Modeler" on page 507 for information on how to navigate the model group hierarchy.
2. Click the **Tabs** tab.

This displays the **Tabs** tab.

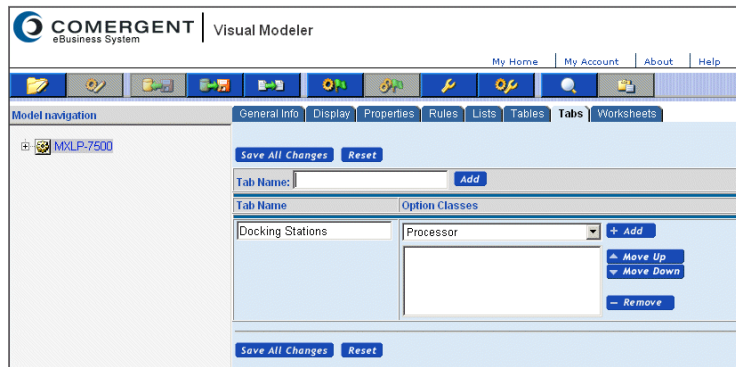


FIGURE 356. Tabs Tab

3. Find the tab element you want to delete.
4. On the far right, click the **Delete** icon (X) for that tab.
5. Click **Save All Changes**.

The basic concepts and tasks of modeling are covered in CHAPTER 16, "Using the Visual Modeler". This chapter and the next, CHAPTER 18, "Visual Modeler UI Concepts", describes the more advanced concepts associated with building complex models. This chapter covers:

- "Properties" on page 564
 - "Working With Properties" on page 565
 - "Using Worksheets" on page 576
 - "Properties as Variables" on page 579
 - "Sterling Multi-Channel Selling Solution Properties" on page 582
- "Lists" on page 583
 - "Working With Lists" on page 584
- "Rules" on page 587
 - "Working With Rules" on page 587
 - "Working With Rule Fragments" on page 601
 - "Working with Rule Actions" on page 616
- "Fragments" on page 601

- "Working with Rule Actions" on page 616
- "Option Constraints" on page 623
 - "Working With Constraints" on page 623
- "Importing and Exporting Models" on page 632
 - "Importing Model Groups and Models" on page 632
 - "Exporting Model Groups and Models" on page 634
- "Using Dynamic Instantiation" on page 635
- "Searching" on page 637
- "Reporting" on page 640

Properties

As described in "Properties" on page 88, a property is an attribute of a model, option class, or option item. It is used as a basic building block for rule creation.

The Sterling Multi-Channel Selling Solution provides a set of built-in properties which are understood by the Sterling Configurator engine. These control the behavior of the engine and the presentation of the model to the end-user. These properties are summarized in "Sterling Multi-Channel Selling Solution Properties" on page 582.

You can specify the properties that a submodel expects as input from its parent model or external system, and the properties that a submodel outputs to its parent model or external system. This ensures that only those properties that the submodel depends upon are imported from the parent model, and that only those properties that the submodel provides for the parent model's use are exported from the submodel.

You can also define properties and they are available for use in any part of the model group and model hierarchy beneath the point at which they are defined. These defined properties are used to describe the product so that the Sterling Configurator engine can ensure that the user-configured model is valid.

You can also use properties as variables and write rules that reason on the properties' values using functions such as value and expand, and the date functions provided by the DateFunctions class.

Working With Properties

To Define a Property

1. Navigate to and select the location in the model group hierarchy where you want to create the property.

See "To Access the Visual Modeler" on page 507 for information about how to navigate the model group hierarchy.

This is important since where you create the property determines what objects in the hierarchy can use the property. See "Properties" on page 88 for a more detailed explanation.

2. When you reach the appropriate level, click the **Properties** tab.

The screenshot displays the 'Model Properties Tab: Attach Sub-Tab' interface. At the top, there are tabs for 'General Info', 'Display', 'Properties' (which is the active tab), 'Rules', 'Lists', 'Tables', and 'Tabs'. Below these tabs, there are two buttons: 'Attach' and 'Define'. The main content area is divided into two sections: 'Unattached Properties' and 'Attached Properties'. Each section contains a table with three columns: 'Name', 'Value', and 'Action'. In the 'Unattached Properties' section, the 'Name' column has a dropdown menu currently showing 'controller cards', and the 'Value' column has a text input field with the number '1'. An 'Attach' button is located to the right of the 'Value' field. The 'Attached Properties' section lists several properties with their corresponding values and 'Remove' links. Both sections also have 'Reset' and 'Save All Changes' buttons at the bottom.

Unattached Properties		
Name	Value	Action
controller cards	1	Attach

[Reset](#) [Save All Changes](#)

Attached Properties		
Name	Value	Action
UITEMP:num_cols	2	Remove
MX75_Mem_Ordered	0	Remove
MX75_Mem_Required	0	Remove
MX75_Card_Slot_Available	4	Remove
MX75_Bays_Available	2	Remove

[Reset](#) [Save All Changes](#)

FIGURE 357. Model Properties Tab: Attach Sub-Tab

The screenshot shows the 'Properties' tab of a software interface. At the top, there are tabs for 'General Info', 'Properties', 'Rules', and 'Lists'. Below these, there is a 'New property' section with fields for 'Name', 'Type' (set to 'Number'), 'Default Value', 'Localize', and an 'Add' button. Below this is a 'Reset' and 'Save All Changes' section. The main area is titled 'Defined properties' and contains a table with the following data:

Name	Type	Default Value	Localize	Action
Mx75_HDD_Raid_List	List	Mx75XX-RAID_0_allowed_Qty	<input type="checkbox"/>	In use
Mx75_Memory_Slots_available	Number	4	<input type="checkbox"/>	In use
Mx75_Memory_Slots_required	Number	4	<input type="checkbox"/>	In use
Mx75_Raid_1_List	List	Mx75XX-RAID_1_allowed_Qty	<input type="checkbox"/>	Delete
Mx75_Raid_5_List	List	Mx75XX-RAID_5_allowed_Qty	<input type="checkbox"/>	Delete
Mx75_Raid_Level_0	Number	0	<input type="checkbox"/>	In use
Mx75_Raid_Level_1	Number	1	<input type="checkbox"/>	In use
Mx75_Raid_Level_5	Number	5	<input type="checkbox"/>	In use
RAID_wizard_RAID_level	Number	0	<input type="checkbox"/>	In use
RAID_wizard_selected	String	Yes	<input type="checkbox"/>	In use
up to RAID level 5	String	Yes	<input type="checkbox"/>	Delete

At the bottom, there are 'Reset' and 'Save All Changes' buttons.

FIGURE 358. Model Group Properties Tab

3. If you are working in a model, then within the **Properties** tab, click the **Define** tab.

The screenshot shows the 'Define' sub-tab within the 'Properties' tab. At the top, there are tabs for 'General Info', 'Display', 'Properties', 'Rules', 'Lists', 'Tables', 'Tabs', and 'Worksheets'. Below these, there is an 'Attach' and 'Define' section. Below this is a 'New property' section with fields for 'Name', 'Type' (set to 'Number'), 'Default Value', 'Localize', and an 'Add' button. Below this is a 'Reset' and 'Save All Changes' section. The main area is titled 'Defined properties' and contains a table with the following data:

Name	Type	Default Value	Localize
Color	String	Beige	<input type="checkbox"/>
IsPicked	Number	0	<input type="checkbox"/>
Maximum Resolution	String		<input type="checkbox"/>
Maximum Weight	Number	0	<input type="checkbox"/>
Monitor Area	Number	0	<input type="checkbox"/>
Monitor Area String	String		<input type="checkbox"/>
Monitor Size	Number	15	<input type="checkbox"/>
Monitor Weight	Number		<input type="checkbox"/>
Resolution	String		<input type="checkbox"/>

At the bottom, there are 'Reset' and 'Save All Changes' buttons.

FIGURE 359. Properties Tab: Define Sub-Tab

4. Enter a name for the property.

Note: Do not begin a property name with "UI:" or "CONFIG". Do not include a period (.) in a property name.

5. Select a property type from the drop-down list.
 - **Number**: use this for any property whose value is determined by a number. For example, the weight of an item could be expressed as a real number of grams (including decimals).
 - **String**: use this for any property that is expressed as a word or phrase. For example, you can use a string-valued property to indicate the color of an option item.

If you select this type, then the Localize field is enabled. If you check this box, then you can enter values for this property in any of the supported locales. In other words, if you enter the original value in English, then you can change the system locale to German and then modify the property's value in German. The German value will appear for those users whose locale is German; the English value will appear for those users whose locale is English.

- **List**: use this for any property where the value of the property must be selected from a list. For example, the availability of an item might be limited to specifying one or more days of the week. You can capture this in the form of a property by defining a list called "Weekdays" whose values are Sunday, Monday, and so on, concluding with Saturday.
6. If applicable, define a default value that this property takes. You can override this value when you apply the property to an item or class.

If you selected "List" as the property type, then the Value field displays a drop-down selection of the current lists available. Select a list. See "Lists" on page 583 for information about creating lists.

7. Click **Add**.

The new property appears in the boxes below the fields.

8. Click **Save All Changes** to save the new property.

To Attach a Property

You define a property at the model group or model level (see "To Define a Property" on page 565). You attach a property to a model, an option class, or an option item.

1. Click **Configuration Models** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.

2. In the Navigation frame, navigate to the object to which you want to attach the property.

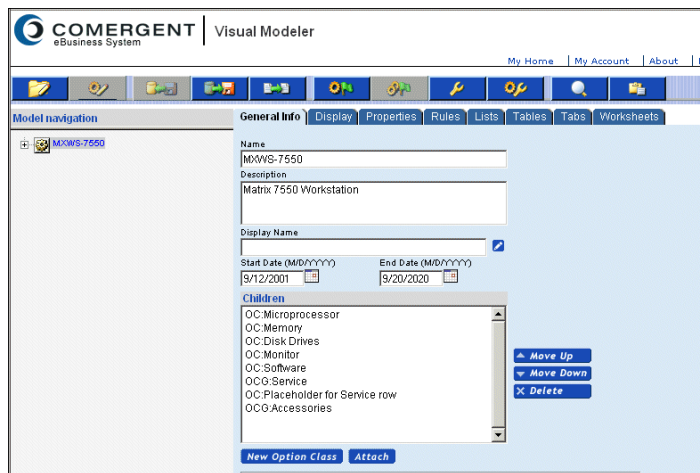


FIGURE 360. Detail Page with Model Selected

3. Click the **Properties** tab.

This displays two sets of fields: one called Unattached Properties for selecting properties and defining values for them, and one called Attached Properties that shows the properties that are currently attached.

Note: The **Properties** tab for a model contains two tabs: **Attach** and **Define**. You use the **Define** tab to define properties. See "To Define a Property" on page 565.

Unattached Properties		
Name	Value	Action
controller cards	1	Attach

Reset Save All Changes

Attached Properties		
Name	Value	Action
UITEMP:num_cols	2	Remove
MX75_Mem_Ordered	0	Remove
MX75_Mem_Required	0	Remove
MX75_Card_Slot_Available	4	Remove
MX75_Bays_Available	2	Remove

Reset Save All Changes

FIGURE 361. Properties Tab

4. Select a property from the Unattached Properties drop-down list.
The property will display any default value defined for it.
5. Enter a value for the property. You can set the value of a property simply by entering its value in the text field, or you can use a property editor window to set a value. See "To Use the Property Editor Window" on page 571 for details.
6. Click **Attach**.
The newly-attached property appears among the Attached Properties.
7. Click **Save All Changes**.

Attention: You must perform this last step. Otherwise the property will not be attached.

To Define Input/Output Properties

When working with a submodel, you can specify that only the properties required by the submodel are passed as input from the parent model or external system. You can also specify that the submodel pass as output only those properties to be used by the parent model or external system.

1. Click **Configuration Models** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.
2. In the Navigation frame, navigate to the submodel for which you want to specify input and output properties.

- Click the **Properties** tab, then click the **InputOutput** tab.

The screenshot shows the 'Properties' tab selected in the top navigation bar. Below it, the 'Input/Output' sub-tab is active. The interface is divided into two main sections: 'Input Properties' and 'Output Properties'. Each section contains a table with columns for 'Property Name' and 'Action'.

Input Properties	
Property Name	
_description	Add
Name ▲	Action

Output Properties	
Property Name	
_description	Add
Name ▲	Action

FIGURE 362. Input/Output Properties Tab

- Use the Input Properties drop-down list to select the properties that this submodel expects to import from the parent model or external system, then click the **Add** button.
- Use the Output Properties drop-down list to select the properties that this submodel will export to the parent model, then click the **Add** button.

All changes take effect immediately. To remove an input or output property, click the **Remove** button next to the property.

This screenshot is similar to Figure 362, but it shows the 'Remove' button next to the '_enddate' property in the 'Input Properties' table. The 'Add' button is still present next to the '_description' property.

Input Properties	
Property Name	
_description	Add
Name ▲	Action
_enddate	Remove

FIGURE 363. Input/Output Properties Tab Remove Button

To Use the Property Editor Window

The Numeric Property Editor window and the String Property Editor window are used to edit property values.

1. You can invoke the property window editor simply by clicking the **Edit** button next to any property.

When you do so, a Property Editor window is displayed.

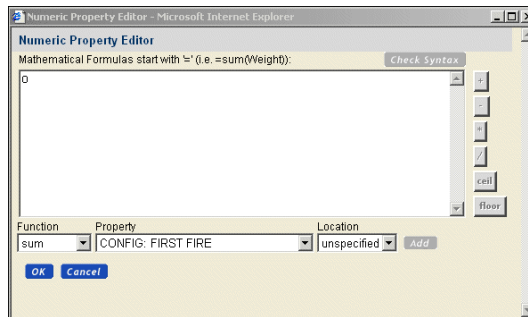


FIGURE 364. Numeric Property Editor Window

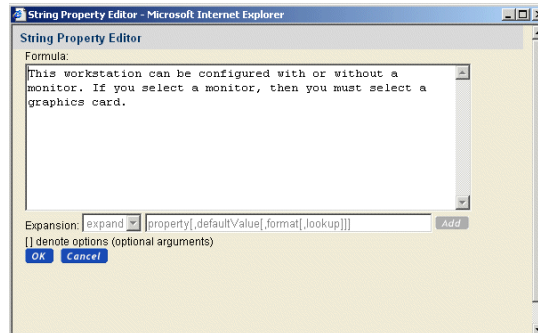


FIGURE 365. String Property Editor Window

2. You can use this window to specify a fixed value of a property or to specify a formula that is used to calculate a value at runtime. If the first character of the text area is "=", then the editor window assumes that you want to create a formula, and the expansion fields are activated to help you define the formula.

3. The syntax of a formula depends on whether you are editing a numeric or a string property:
 - a. If you are working on a numeric property, then when you specify a formula, use the drop-down lists as follows:
 - **Function:** select one of the defined functions. See Table 12, "Function Definitions", on page 94 for a description of the available functions.
 - **Property:** specify the property whose values should be used to calculate the function.
 - **Location:** specify where the named property (or properties) should be located. You can select an option item or select one of the following values for the location:
 - **unspecified:** select this to use the named property anywhere it is defined in the model. First, the current position is checked to see if the property is defined at that location, if not, then the standard algorithm is followed to see if the property is defined anywhere else in the model.
 - **relative:** select this to use the named property at the current location.
 - a. If you are working on a string property, then when you specify a formula, use the drop-down lists as follows:
 - **Choose among gather, match, and expand:**
 - **gather:** use this in assigning actions to a string property. It finds all occurrences of the specified property in the property pool and creates a string with the semicolon separating the values of these occurrences.
 - **match:** use this in writing rule fragments. It provides a mechanism to compare a string to the value of a property.
 - **expand:** use the expand function as described in "Working with Display Properties" on page 644.

To Modify or Remove an Attached Property

You can only modify the value of an attached property at the local level to which it is attached. To modify the name or default value, see "To Modify or Delete a Property Definition" on page 573.

1. Click **Configuration Models** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.

2. In the Model Groups frame, navigate to the element to which the property is attached.

If the property is attached to a model:

- a. In the Model Groups frame, click the model group that contains the model.
- b. In the Models and Groups frame, click the model to which the property is attached.
- c. Click **Edit** in the toolbar.

If the property is attached to an option class or option item:

- a. In the Model Groups frame, click the model group that contains either the model or group with the option class or option item.
 - b. In the Models and Groups frame, click the model or group.
 - c. Click **Edit** in the toolbar.
 - d. In the Navigation frame, find and click the option class or option item.
3. Click the **Properties** tab.

This tab displays two sets of fields: one called Unattached Properties for selecting properties and defining values for them, and one called Attached Properties that shows the properties that are currently attached.

Note: If the property is attached to a model, you will see two tabs within the Properties tab: **Attach** and **Define**. The **Attach** tab is automatically displayed.

4. Find the property you want to modify or remove.
5. Modify or remove the attached property:
 - If necessary, change the value of a property.

Note that this only changes the value locally, at the level it is attached. To change the default value of the property, see "To Modify or Delete a Property Definition" on page 573.
 - To remove an attached property, click **Remove**.
6. Click **Save All Changes**.

To Modify or Delete a Property Definition

1. Click **Configuration Models** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.

2. Navigate to and select the location in the model group hierarchy where the property is defined.

- At the root model group level:

The Visual Modeler page automatically displays the root model group when you access Visual Modeler. If the root model group is not selected, then click on the root model group.

- At the model group level, navigate to and click the model group in the Model Groups frame.
- At the model level, navigate to and click the model group that contains the model. Then, in the Models and Groups frame, click the model. Now click **Edit Model** in the toolbar.

In all of these cases, this displays the **General Info** tab for the group or model.

3. Click the **Properties** tab.

At the model group level, this displays the properties defined at that level.

At the model level, this displays two tabs: **Attach** and **Define**. If the property is attached anywhere in the model group hierarchy, you will not be able to modify the property type. If the property is attached anywhere in the model group hierarchy, you will not be able to delete the property definition.

4. If you want to modify an unattached property, click the **Define** tab. Within the **Define** tab, find the property you want to modify or delete.

General Info Display Properties Rules Lists Tables Tabs Worksheets					
Attach Define					
New property					
Name	Type	Default Value	Localize	Action	
	Number			Add	
Reset Save All Changes					
Defined properties					
Name	Type	Default Value	Localize	Action	
Time to deliver	Number	0		Delete	
Time to manufacture	Number	0		Delete	
Reset Save All Changes					

FIGURE 366. Model Properties Define Tab

5. If you want to modify an attached property, click the **Attach** tab. Within the **Attach** tab, find the property you want to modify or remove.

General Info | Display | **Properties** | Rules | Lists | Tables | Tabs | Worksheets

Attach | Define

Unattached Properties

Name	Value	Action
color	black	Attach

Reset | Save All Changes | New Property

☐ Hide UI Properties

Attached Properties

Name	Value	Action
_description	Matrix 7650 Workstation	Remove
_enddate	9/20/2020	Remove
_sku	MxvS-7650	Remove
_startdate	9/12/2001	Remove
MX75_Bays_Available	6	Remove
MX75_Card_Slot_Available	8	Remove
MX75_HDD_Ordered	0	Remove
MX75_Memory_Slots_available	8	Remove

FIGURE 367. Model Properties Attach Tab

6. Modify or delete the property definition (property type or value).
7. To specify the properties that a child model imports from and exports to a parent model, click the **Input/Output** tab. Within the Input/Output tab, use the Input Properties field to specify the properties that the child model will take as input from the parent model or external system, and use the Output Properties field to specify the properties that the child model will export to the parent model or external system.

The screenshot displays the 'Model Properties' window with the 'Input/Output' tab selected. It contains two main sections: 'Input Properties' and 'Output Properties'. Each section has a 'Property Name' field with a dropdown menu showing '_description', an 'Add' button, and an 'Action' button. The 'Input Properties' section also has a 'Name' field with a dropdown arrow.

FIGURE 368. Model Properties Input/Output Tab

8. Click **Save All Changes**.

Name changes and value changes will be propagated to anywhere the property is attached. The value change is the default value for the property. It will not override any values set for the attached property.

Using Worksheets

Worksheets provide quick access to a group of properties, enabling you to easily maintain all of a model's properties in one place. A worksheet is a table that assigns property values to option items:

- Rows represent option items
- Columns represent properties

Each worksheet belongs to a model and can be used to set the values of properties of that model. You can still set the values for properties as described in "To Attach a Property" on page 567.

For example, suppose that a model of a computer has an option class for hard drives. Each hard drive option item has a number of properties such as capacity,

RPM, latency, and buffer cache. You can create a worksheet to maintain the hard drive properties, similar to the following table:

TABLE 34. Hard Drive Worksheet

Option Item	Capacity	RPM	Latency	Buffer Cache
WD Protege	160	5400	5.00	2
WD Caviar	250	7200	4.20	2
WD Caviar SE	250	7200	4.20	8
WD Essential	250	7200	4.20	2

To Create a Worksheet

1. Navigate to the model for which you want to create a worksheet.
2. Click the Worksheets tab.
3. Click **New...**
4. In the New Worksheet window, enter a name for the worksheet, and click **Create**.
5. Add the option items whose properties you want to set using this worksheet. You do this by clicking **Add Row**, and then navigating to each option item in turn using the entity picker window.
6. Add the properties to the worksheet by clicking **Add Column** and in the Add Column dialog box, select each property from the drop-down list of properties defined for this model. You can create a new property by clicking **New Property** in the Add Column window, and then entering the new property details in the Define New Property window.
7. After you have added the rows and columns for your worksheet, you can enter values for each option item and property.
8. Click **Save All Changes**.

To Modify a Worksheet

You can modify a worksheet at any time. Changes to property values are effective immediately, and will be compiled with the other model details when you next compile the model.

1. Navigate to the model to which the worksheet belongs.
2. Click the Worksheets tab.

3. Select the name of the worksheet from the drop-down list.
4. Click **Select**.
5. In the worksheet, you can do the following:
 - Change the name of the worksheet: click the worksheet name and enter a new name for the worksheet.
 - Add a new row: click **Add Row** and select option items as required.
 - Move a row: click the link to the row, and select its new position from the drop-down list of rows.
 - Remove a row: click the link to the row, and click **Delete**.
 - Add a new column: click **Add Column**, and select the property from the drop-down list.
 - Move a column: click the column name, and select its new position from the drop-down list of columns.
 - Delete a column: click the column name and click **Delete**.

To Export a Worksheet

There are times when it is more convenient to manage the values of properties when you have the worksheet in the form of a spreadsheet that you maintain on your local machine. You can export a worksheet in the form of a comma-separated values (CSV) file, and then open this file in your preferred spreadsheet program to manage the values. You can then import the modified spreadsheet to update the values in the worksheet: see "To Import a Worksheet" on page 579 for details on importing a worksheet.

1. Navigate to the model to which the worksheet belongs.
2. Click the Worksheets tab.
3. Select the name of the worksheet from the drop-down list.
4. Click **Select**.
5. Click **Export...**
6. In the File Download window, click **Save**.
7. In the Save As window, navigate to the directory on your local machine to which you want to save the file, and then click **Save**.

The file is saved to your local machine.

To Import a Worksheet

When you have finished editing a spreadsheet for a worksheet, save it as a comma-separated values (CSV) file. Follow these steps to import the worksheet into the Sterling Multi-Channel Selling Solution.

1. Navigate to the model to which the worksheet belongs.
2. Click the Worksheets tab.
3. Click **Import....**
4. In the Worksheet Import window, click the **Browse...** button.
5. In the Choose File window, navigate to and select the spreadsheet that you want to import.
6. Click **Open**.
7. In the Worksheet Import window, click **Import Now**.

The spreadsheet is imported into the Sterling Multi-Channel Selling Solution.

Properties as Variables

You can evaluate the value of a property in defining rules and properties using this syntax: `${function(...)}`. This enables you to define a property as a function of another property. This can be useful in defining display properties and in defining mathematical formulae for rules. For example, you can use `${expand(property[,default[,format]])}` to display properties of models.

For example, suppose that you have a numerical property called "Monitor Size" defined on a series of monitors that expresses the screen size in inches and suppose that you want to present this information in a table in the form "17.00 inches". You can define a property called Display Monitor Size by `"${expand("Monitor Size","n/a",0.00)} inches"`. Now use this new property in the display of the model and users will see the size expressed as "17.00 inches" if the underlying Monitor Size property has the value "17". Note that if the Monitor Size property is not defined, then "n/a inches" is displayed.

Properties and the Date Functions

The property type UI: UEV DATE VALUE enables users to enter date values such as starting and ending dates for service contracts. You can reason on these dates using DateFunctions class functions. The general syntax is:

```
DateFunctions.functionName(parameter1, parameter2, ...)
```

where functionName is the name of the date function, and parameter1, parameter2, and so on are the function parameters.

The following table lists the DateFunctions class functions.

TABLE 35. DateFunctions Class Functions

Function/Syntax	Description
addMonth(double startDate, double number)	<p>Add the specified number of months to the date specified by the startDate parameter. To subtract a number of months from the date, the number parameter must be negative.</p> <p>For example, to add five months to the CONTRACT: START_DATE property:</p> <p>DateFunctions.addMonth(value("CONTRACT: START_DATE"), 5)</p>
addWeek(double startDate, double number)	<p>Add the specified number of weeks to the date specified by the startDate parameter. To subtract a number of weeks from the date, the number parameter must be negative.</p>
addDay(double startDate, double number)	<p>Add the specified number of days to the date specified by the startDate parameter. To subtract a number of days from the date, the number parameter must be negative.</p>
addYear(double startDate, double number)	<p>Add the specified number of years to the date specified as the startDate parameter. To subtract a number of years from the date, the number parameter must be negative.</p>
daysBetween(double startDate, double endDate)	<p>Calculate the number of days between two dates. If the endDate parameter is earlier than the startDate parameter, then the result is negative.</p> <p>For example, to calculate the number of days between the CONTRACT: START_DATE value and the CONTRACT: END_DATE value:</p> <p>DateFunctions.daysBetween(value("CONTRACT: START_DATE"), value("CONTRACT: END_DATE"))</p>

TABLE 35. (Continued) DateFunctions Class Functions

Function/Syntax	Description
weeksBetween(double startDate, double endDate)	Calculate the number of weeks between two dates. If the endDate parameter is earlier than the startDate parameter, then the result is negative.
daysBetweenDaysRemainder(double startDate, double endDate)	Calculate the number of days remaining after the exact number of weeks between two dates has been calculated. For example, if the difference between two dates is 4 weeks and 3 days, then this method returns 3.
monthsBetween(double startDate, double endDate)	Calculate the number of months between two dates. If the endDate parameter is earlier than the startDate parameter, then the result is negative.
monthsBetweenDaysRemainder(double startDate, double endDate)	Calculate the number of days remaining after the exact number of months between two dates has been calculated. For example, if the difference between two dates is 4 months and 3 days, then this method returns 3.
yearsBetween(double startDate, double endDate)	Calculate the number of years between two dates. If the endDate parameter is earlier than the startDate parameter, then the result is negative.
yearsBetweenMonthsRemainder(double startDate, double endDate)	Calculate the number of months remaining after the exact number of years between two dates has been calculated. For example, if the difference between two dates is 1 year, 4 months, and 14 days, then this method returns 4.
yearsBetweenDaysRemainder(double startDate, double endDate)	Calculate the number of days remaining after the exact number of years between two dates has been calculated. For example, if the difference between two dates is 1 year, 4 months, and 14 days, then this method returns 14.
getCurrentDate()	Return the current date.

Sterling Multi-Channel Selling Solution Properties

The following table summarizes the properties that are built in to the Sterling Multi-Channel Selling Solution. Note that UI properties are covered in CHAPTER 18, "Visual Modeler UI Concepts".

TABLE 36. Sterling Multi-Channel Selling Solution Properties

Property	Type	Comments
CONFIG: CONTAINER ONLY	string	"yes" or "true" indicates that the assigned product ID is a dummy product used to group related orderable products together, especially hard goods and service goods. For example, a cellular solution product may include several related items such as cell phones and calling plans featuring various plan options.
CONFIG: FIRST FIRE	numeric	1 if this is the first time firing rules, 0 otherwise.
CONFIG: INPUT PROPERTIES	list	
CONFIG: OUTPUT PROPERTIES	list	
CONFIG: POOL SIZE	numeric	Number of copies of a model to keep in the model pool.
CONFIG: PRICE LOCKED	numeric	Determines whether or not the price of a particular line item in a bill of materials is locked. Set CONFIG: PRICE LOCKED > 0 to lock the price; 0 to unlock the price.
CONFIG: REPEAT FIRING	string	"yes" or "true" turns on looping in the rule engine, causing rules to fire as long as the current state keeps changing. Since rules are removed from the rule list whenever they fire, this is not an infinite loop.
CONFIG: SUBMODEL NAME	string	The encoded name of another model. Encoding replaces potentially unsafe file system characters with _XXXX where XXXX is the hex representation of their Unicode character code. For example, a space is represented by "_0020". See "Special Characters Encoding" on page 552 for more information.

TABLE 36. Sterling Multi-Channel Selling Solution Properties (Continued)

Property	Type	Comments
CONFIG: SUBMODEL RETURN	string	"yes" or "true" implies that when we punch into a submodel specified by the previous property we will be returning with that models BOM as a child of this model.
_cacheKey	string	Used on a model node to contain the key used to store the model in the model cache.
_description	string	The description of an item.
_errorCount	numeric	Number of errors encountered during rule firing.
_fileSize	string	String representation of a Long value, size of the XML file for a model.
_lastModified	string	Last modified date for a model as a string (number of seconds since some important date).
_modelTabs	list	List of tab names for the model.
_name	string	The name of an option item, option class, or model.
_parent.<item names>	varies	Properties inherited by a submodel from the parent.
_pickItems	list	Internally used to keep track of picked items.
_pickmap.<itemKey>	string	Mapping of an item to an option class.
_picks	list	Internally used to keep track of picked items.
_quantity	integer	Quantity selected, if >0 the item is picked.
_sequence	numeric	Rule firing sequence, if 0 this is the first time through the loop, 1 is the second, and so on.
_tabMembers<#>	list	Where <#> is a tab number (0...N), these properties contains the names of the root level option classes that are part of the tab whose index is <#>.

Lists

In many cases, the values a property may take can be expressed as a number or as a string of characters. In some cases however, a property has to take one of a certain number of pre-specified values such as the days of the week, or one of a set of manufacturer-specified formats such as SM, M, L, or XL.

In these situations, the best approach to take is to define a property, of List type. Then you can write rules to test whether the value of the first property is in the list that is the value of the List property. See "Lists" on page 91 for a more detailed explanation of lists.

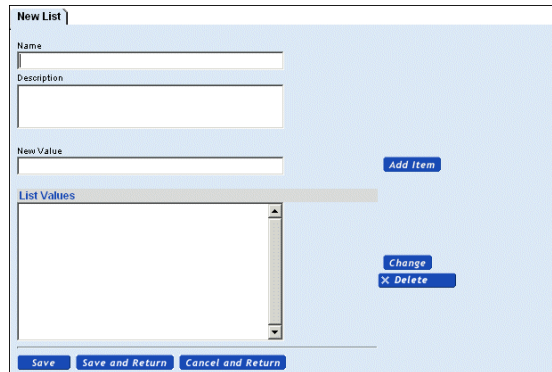
Thus, if you have a property called ShirtSize and you want to restrict the choices that a user can select to SM, M, L, or XL, then the steps are:

1. Create a list called ShirtSizeList. Enter values for the list: in this case SM, M, L, and X.
2. Create a property called AvailableShirtSizes whose type is List and assign it the value ShirtSizeList.
3. Create the ShirtSize property and assign it to option items as appropriate.
4. Create a rule that specifies that the value of the ShirtSize property must be in the list of the AvailableShirtSizes property.

Working With Lists

To Define a List

1. Navigate to the model group or model for which you want to define the list.
See "To Access the Visual Modeler" on page 507 for information about how to navigate the model group hierarchy.
2. Click the **Lists** tab.
This displays any lists already defined.
3. Click **New....**
This displays the **New List** tab.

**FIGURE 369. New List Tab**

4. Enter a name and description for the list.
5. Define the values for the list.
 - a. Enter a value in the New Value field.
 - b. Click **Add Item**.
6. Repeat the last step for each value you want to add.
7. Click **Save** to save the values and remain at the **New List** tab.

When you click **Save and Return**, you save the values and return to the **Lists** tab. The new list appears among the defined lists.

To Modify a List

1. Navigate to the model which contains the list you want to modify.

See "To Access the Visual Modeler" on page 507 for information about how to navigate the model group hierarchy.
2. Click the **Lists** tab (see Figure 370 on page 586).

This displays any lists already defined.

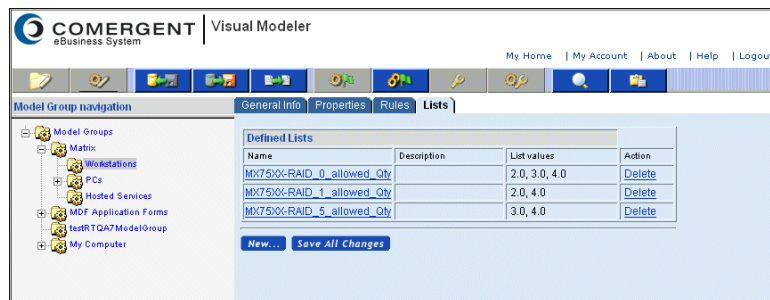


FIGURE 370. Lists Tab with Defined Lists

- Click the name of the list you want to modify.

This displays the **Edit List** tab.

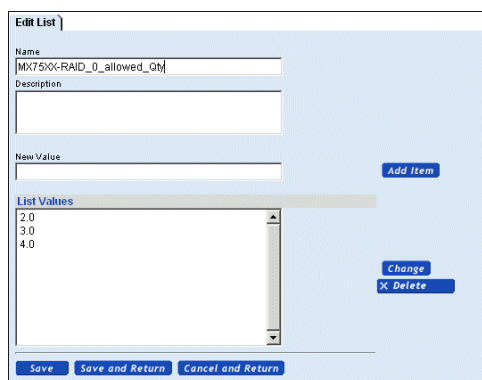


FIGURE 371. Edit List Tab

- Modify the name or description.
- Delete values from the list.
 - Select one or more values in the list.
 - Click **Delete**.
- Add values to the list.
 - Type a value in the New Value field.

- b. Click **Add Item**.
7. Modify values in the list.

There is no way to modify a value in a single step. You must delete the old value and add the new one.
8. Click **Save** to save the values and remain at the **Edit List** tab.

When you click **Save and Return**, you save your changes and return to the **Lists** tab.

To Delete a List

1. Navigate to the model which contains the list you want to delete.

See "To Access the Visual Modeler" on page 507 for information on how to navigate the model group hierarchy.
2. Click the **Lists** tab (see Figure 370 on page 586).

This displays any lists already defined.
3. Among the defined lists, find the list you want to delete.
4. Click **Delete** on the same line as the list you want to delete.

The list disappears from among the defined lists.

Attention: This last step is important! If you click Delete , but do not click Save All Changes , then the list will not be deleted.

5. Click **Save All Changes**.

Rules

See "Rules in Sterling Visual Modeler" on page 92 for an explanation of rules and how they work.

Working With Rules

To Define a Rule

1. Navigate to the detail page for the model group or model where you want to create the rule.

See "To Access the Visual Modeler" on page 507 for information on how to navigate the model group hierarchy.

2. Click the **Rules** tab.
 - a. If you are defining the rule at the model level, then the **Rules** tab displays two tabs: **Attach** and **Define**. Click the **Define** tab.
 - b. The model group level contains a single tab for defining the rule.

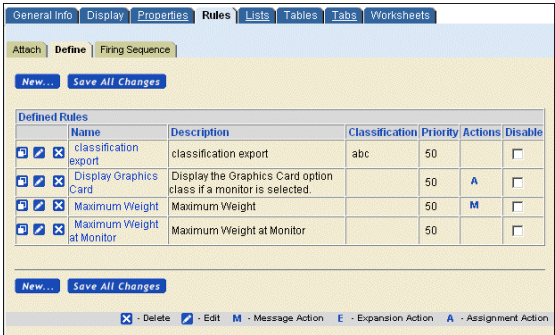


FIGURE 372. Define Tab for a Model Rule

3. Click **New...**.

This displays the **New Rule** tab.

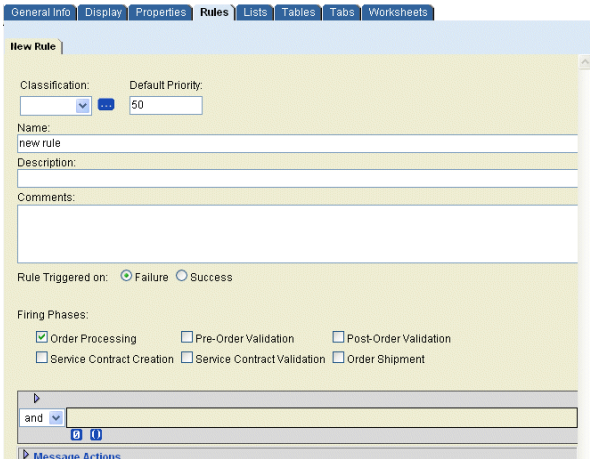


FIGURE 373. Model Page: New Rule Tab

FIGURE 374. Model Group Page: New Rule Tab

4. Select a classification for the rule and specify a priority.

You can create your own rule classifications: see "To Create a Rule Classification" on page 591. Rule priorities are used to determine the order in which rules are fired: lowest numbers fire first. You should use values between 0 and 100: 50 is the default value.

5. Enter a name and description for the rule. Also, select whether the rule is triggered when the rule's conditions are met (success) or not met (failure).
6. Define the fragments of the rule.

See "Fragments" on page 601.

7. Define the rule actions.

You can define messages to be displayed, a rule expansion formula, or you can assign properties and values. See "Working with Rule Actions" on page 616.

Note: No syntax checking is performed on rules. The configurator engine will fail to load a model if there is a syntax error in any of the assigned rules.

8. Click **Save**.

To Modify a Rule

1. Navigate to the model group or model where the rule was created.
See "To Access the Visual Modeler" on page 507 for information on how to navigate the model group hierarchy.

2. Click the **Rules** tab.

The **Rules** tab for the Model level displays two tabs: **Attach** and **Define**. To modify the rule, click the **Define** tab. The model group level contains a single tab for defining the rule.

The **Rules** tab displays a table with the currently defined rules.

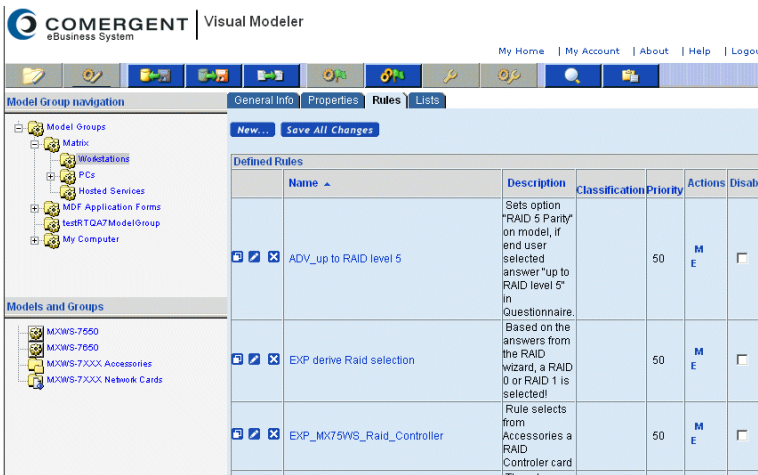


FIGURE 375. Model Group Page: Rules Tab with Current Rules

3. Find the rule you want to modify, then click the **Edit** icon.
The **Edit Rule** tab displays.
4. Modify the Name and Description as necessary.
5. Add or modify Comments as necessary.
6. Modify whether the rule is triggered when the rule's conditions are met (success) or not met (failure, as necessary).
7. Modify the firing phases for this rule as necessary.

Edit Rule

Classification: Default Priority:

Name: ADV_up to RAID level 5

Description: Sets option "RAID 5 Parity" on model, if end user selected answer "up to RAID level 5" in Questionnaire.

Comments:

Rule Triggered on: ☐ Failure ☒ Success

Fragments	If Not Specified	Actions
and value(up to RAID level 5) = Yes	Rule is false	<input type="button" value="Add Item"/>

Message Actions

Type	Message
Error	

FIGURE 376. Edit Rule Tab

8. Modify the rule fragments in the Fragments table.

See "Fragments" on page 601.

9. Add or modify actions in the Actions area.

You can define messages to be displayed, a rule expansion formula, or assign properties and values. See "Working with Rule Actions" on page 616.

Repeat these steps for each rule you want to modify. You can click **Where Used** at the bottom of the tab to view the entities to which the rule is attached. See "To View Rule Attachments" on page 595.

To Create a Rule Classification

You can create new rule classifications as follows.

1. Navigate to the rule creation page: see "To Define a Rule" on page 587.
2. Click ... next to the Classification drop-down list.

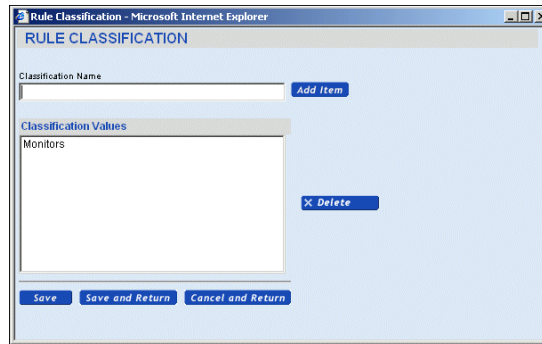


FIGURE 377. Rule Classification Window

3. In the Rule Classification Window, enter a name for the classification, and click **Add Item**.
4. Click **Save and Return**.

To Attach a Rule

1. Navigate to the level in the model hierarchy (model, option class or option item) where you want to attach the rule.

See "To Access the Visual Modeler" on page 507 for information on how to navigate the model group hierarchy.

2. Click the **Rules** tab.

At the model level, the **Rules** tab contains two tabs: **Attach** and **Define**. At the option class and option item levels, the **Rules** tab looks like the **Attach** tab.

The **Attach** tab displays a drop-down list of the unattached rules, as well as a table showing the rules that are currently attached.

General Info | Display | Properties | **Rules** | Lists | Tables | Tabs

Attach | Define

Unattached Rules

Name	Description	Action
EXP_MX75_Automatic_Memory_Selection	This rule adds and selects the minimum required memory for an end user	Attach

Reset Save All Changes

Attached Rules

Name	Start date (MM/YYYY)	End date (MM/YYYY)	Stop firing	Action
MSG_S_MX75_Accessories_Warranty	6/23/2002	6/23/2052	<input type="checkbox"/>	⬆ ⬇ ⬆
MSG_E_MX75_HW_Service_Warranty	6/23/2002	6/23/2052	<input type="checkbox"/>	⬆ ⬇ ⬆

Reset Save All Changes

FIGURE 378. Rules Tab

3. Select a rule from the drop-down list in the Unattached Rules table.
4. Click **Attach**.
The rule is appended to the end of the current rules in the Attached Rules table.
5. Define the start and end dates for the rule.
6. If you want this rule to be a checkpoint, check the box the Stop Firing column.
When checked, this rule acts as a checkpoint: if any errors have occurred up to this point in the rule firing, then processing will stop at this point and the errors will be displayed. If no errors have occurred, then rule firing will continue until all the rules are fired or the next checkpoint is hit.
7. Determine the sequence.
The rules will fire within the element to which they are attached in the order they appear in the list. You can modify the order using the up or down arrows to the right of the rule. See "Rule Firing" on page 100 for a complete description of how rules are fired.
8. Click **Save All Changes**.

To View the Details of an Attached Rule

Once you have attached a rule, you can view the details of the attached rule by clicking the rule's name in the **Attach** tab.

1. Navigate to the level in the hierarchy (model, option class, or option item) where the rule is attached.

See "To Access the Visual Modeler" on page 507 for information on how to navigate the model group hierarchy.

2. Click the **Rules** tab.

At the model level, the **Rules** tab contains two tabs: **Attach** and **Define**. At the option class and option item levels, the **Rules** tab looks like the **Attach** tab.

The **Attach** tab displays a drop-down list of the unattached rules, as well as a table showing the rules that are currently attached.

Name	Description	Action
EXP_MX75_Automatic_Memory_Selection	This rule adds and selects the minimum required memory for an end user	Attach

Name	Start date (M/D/YYYY)	End date (M/D/YYYY)	Stop firing	Action
MSG_S_MX75_Accessories_Warranty	6/23/2002	6/23/2052	<input type="checkbox"/>	✕ ↻ ⬆ ⬇
MSG_E_MX75_HW_Service_Warranty	6/23/2002	6/23/2052	<input type="checkbox"/>	✕ ↻ ⬆ ⬇

FIGURE 379. Attach Tab

3. Find the rule among the list of attached rules in the lower part of the frame.
4. Click the name of the rule.

This displays the Rule Detail Viewer.

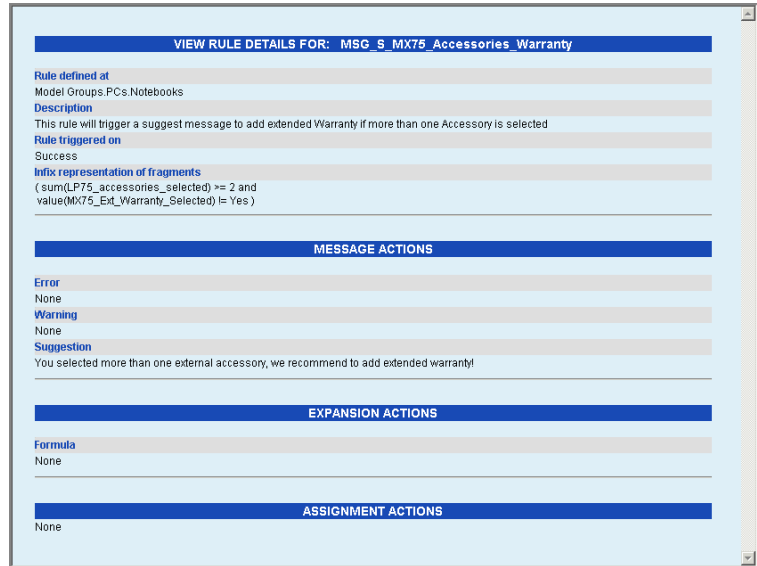


FIGURE 380. Rules Detail Viewer

To View Rule Attachments

You can use this procedure to see where a rule is attached.

1. Navigate to the model group or model where the rule was created.

See "To Access the Visual Modeler" on page 507 for information on how to navigate the model group hierarchy.

2. Click the **Rules** tab.

The **Rules** tab for the Model level displays two tabs: **Attach** and **Define**. To modify the rule, click the **Define** tab. The model group level contains a single tab for defining the rule.

The **Rules** tab displays a table with the currently defined rules.

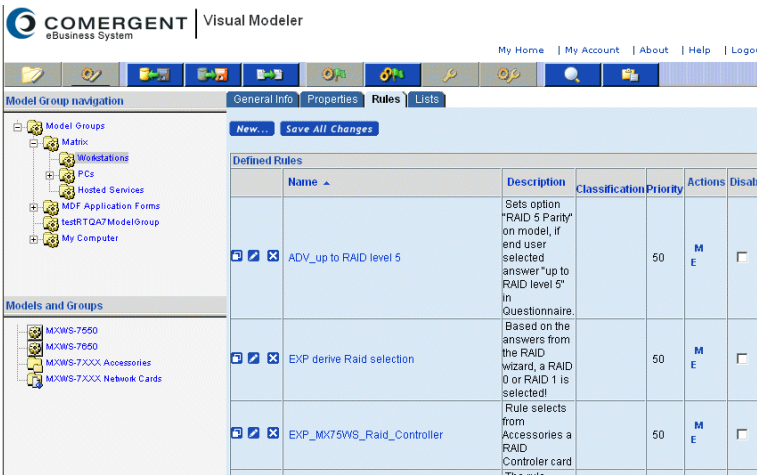


FIGURE 381. Rules Tab with Current Rules

3. Find the rule you want to modify, then click the **Edit** icon.

The **Edit Rule** tab displays.

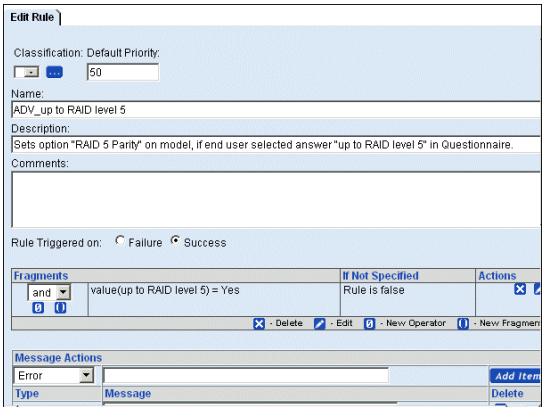


FIGURE 382. Edit Rule Tab

4. Click **Where Used...**

The Rule Usage window displays.

VIEW RULE USAGE FOR: MSG E MX75 Memory Software Check.		
Rule Usage		
Model Group	Model Name	Attached At
Workstations	MXWS-7650	MXWS-7650 Software
Workstations	MXWS-7550	MXWS-7550 Software
PCs.Desktops	MXDS-7500	MXDS-7500 Software
PCs.Desktops	MXDS-7500	MXDS-7500 Memory
PCs.Desktops	MXDS-7550	MXDS-7550 Memory
PCs.Desktops	MXDS-7550	MXDS-7550 Software
Workstations	MXWS-7550	MXWS-7550 Memory
Workstations	MXWS-7650	MXWS-7650 Memory
PCs.Desktops	MXDS-7550	MXDS-7550

FIGURE 383. Rule Usage Window

To Unattach a Rule

1. Navigate to the level in the model hierarchy (model, option class or option item) where the rule is attached.

See "To Access the Visual Modeler" on page 507 for information about how to navigate the model group hierarchy.

2. Click the **Rules** tab.

At the model level, the **Rules** tab contains two tabs: **Attach** and **Define**. At the option class and option item levels, the **Rules** tab only contains attachments.

The Rules tab displays a drop-down list of the unattached rules, as well as a table showing the rules that are currently attached.

3. Find the rule in the Attached Rules table.
4. Click the **Delete** symbol (X) at the end of the rule's row in the table.

The rule returns to the Unattached Rules table.

5. Click **Save All Changes**.

To Delete a Rule

You can delete rules when they are no longer required.

Note:	You cannot delete a rule if the rule is currently attached to any node in the model hierarchy.
--------------	--

1. Navigate to the model group or model where you created the rule.

See "To Access the Visual Modeler" on page 507 for information about how to navigate the model group hierarchy.

2. Click the **Rules** tab.

At the model level, the **Rules** tab contains two tabs: **Attach** and **Define**. At the model group level, you can only define. If the rule you want to delete was created at the model level, then click the **Define** tab.

3. Find the rule you want to delete.
4. Click the **Delete** icon next to the rule you want to delete.
5. Click **Save All Changes**.

To Move or Copy a Rule

It is sometimes necessary to re-organize your model hierarchy and in doing so, you may need to move the rule definitions too. You can move or copy a rule: *moving* means that the rule definition is deleted from its previous location whereas *copying* means that you create a copy of the rule without deleting its original definition.

1. Navigate to the rule definition that you wish to move or copy.
2. Click **Copy Rule**.

VISUAL MODELER RULE COPY OR MOVE

Source: Rule to Copy/Move

Model Groups.Computers.Workstations.MXWS-7700.Maximum Weight

Destination: Model Group/Model

Please click 'Browse' to select a destination

Browse...

Destination Rule Name

Copy Move Close

FIGURE 384. Rule Copy or Move Window

3. Click **Browse...** to open the entity picker window.
4. Navigate to the model group or group to which you want to move or copy the rule definition, select it and click **Done**.
5. If you want to, you can then change the name of the rule definition.

- Click **Move** or **Copy** as appropriate.

An error message is displayed if a rule with the same name already exists in the target location. If a property referenced in the rule does not exist in the new location, then it is created at the same time as the rule is.

- Click **Close**.

Rule Firing

Each time a model is validated, the rules are fired to determine whether each rule succeeds or fails. You can control the order in which rules fire by setting a priority for each rule: see "To Specify the Rule Firing Sequence" on page 599. When you are testing a model, you can review the model firing behavior: see "To Review Rule Firing" on page 599. You can also specify whether rules are fired just once or possibly multiple times: see "To Force Multiple-Pass Rule Testing" on page 601.

To Specify the Rule Firing Sequence

- Navigate to the model.
- Click the Rules tab.
- Click the Firing Sequence sub-tab.

Attach Define Firing Sequence			
Reset Save All Changes			
Attached Rules			
Priority	Classification	Name	End date
50		ASG Service offerings visible	MX-7500 Service.Warranty
50		MSG_E_MX75_HVW_Service_Warranty	MX-7500 Service.Hardware
50		ASG Service offerings visible	MX-7500 Service.Hardware
50		MSG_E_Available_Card_Slots_Check	MXDS-7500.Accessory Car
50		EXP_MX75_Fire_Wire	MXDS-7500.Software Appli
50		MSG_VV_Num_OS_Check	MXDS-7500.Software

FIGURE 385. Firing Sequence Tab

- Enter a priority for each rule: this should be an integer between 0 and 100.

The higher the value the lower the priority: that is rules with lower priority value will fire before rules with a higher priority value. The default value is 50.

To Review Rule Firing

- Navigate to the model whose rule firing you want to review.

2. Click **Test**.
3. In the Product Configurator window, click **Show Trace Log**.

MatrixWorkstations/MXWS_002D7550 Rule Firing Trace	
#	Result
0	Firing phase [0]:begin
1	Firing rules on MXWS-7550.Memory
2	
3	MSG_E_max_memory_slots_exceeded ==> fires on FALSE
4	Property not found [MX75_Memory_Slots_available or MX75_Memory_Slots_required], taking null action
5	
6	MSG_E_MX75_Memory_Software_Check ==> fires on TRUE
7	Property not found [MX75_Mem_Ordered or MX75_Mem_Required], taking null action
8	
9	Firing rules on MXWS-7550.Disk Drives
10	
11	MSG_E_Available_HDD_Slots ==> fires on TRUE
12	TESTING:sum(MX75_HDD_Ordered) >value(MX75_Bays_Available) [nullreturn=false]
13	FALSE: 1.0>MX75_Bays_Available:4.0
14	FALSE: sum(MX75_HDD_Ordered) >value(MX75_Bays_Available) [nullreturn=false]
15	
16	Firing rules on MXWS-7550.Software.Application
17	
18	EXP_MX75_Fire_Wire ==> fires on TRUE
19	Left side property [MX75_Video_Editing] not found, taking null action
20	

FIGURE 386. Configurator Rule Firing Trace Window

4. The secondary window displays a trace of the results of the rule firing. You can review this to determine if rules are firing as you expect.

Controlling Rule Firing

When Sterling Configurator validates a model and the current set of picks, it tests each rule in turn to evaluate them for success or failure, and performs expansion and assignment actions as appropriate. There are different ways in which rule firing can behave:

- Each rule is tested only once when a model is validated. This is referred to as single-pass rule firing.

- You can configure a model so that if any rules are fired, the fired rules are removed from the rules list and the remaining rules are tested again. This process continues until no more rules are fired. This is referred to as multiple-pass rule firing.

The property `CONFIG: REPEAT FIRING` controls this behavior. By default, only single-pass firing is performed.

To Force Multiple-Pass Rule Testing

1. Navigate to the model whose rule firing you want to control.
2. Click **Properties**.
3. Select `CONFIG: REPEAT FIRING` from the **Unattached Properties** drop-down list.
4. Set its value to “true” and click **Attach**.
5. Click **Save All Changes**.

You can verify that the rules fire only once by following the steps described in "To Review Rule Firing" on page 599. In the summary section of the trace log, you should see that there was one firing phase.

48	Summary of rules fired during this pass
49	Firing phase [0]:end (rules fired=0)
50	Applying picks
51	done
52	Applying Constraints

FIGURE 387. Trace Log Summary Section

Fragments

As you create rules, you must create rule fragments that perform the rule logic. This section describes in detail how to create and work with rule fragments.

Working With Rule Fragments

This section describes the procedures to define or modify the fragments of a rule when you are creating ("To Define a Rule" on page 587) or modifying ("To Modify a Rule" on page 590) a rule. The Fragment area appears as in Figure 388 on page 602.

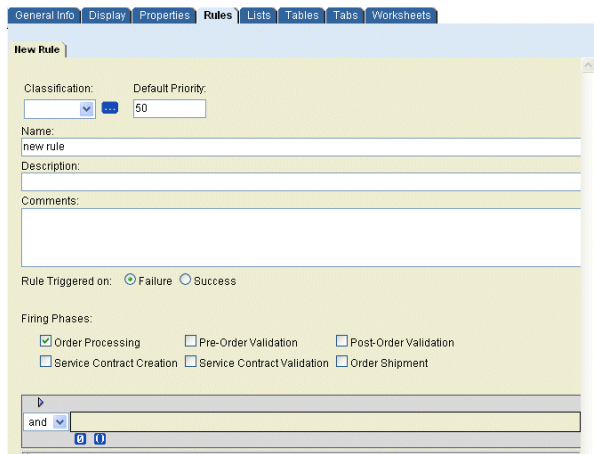



FIGURE 388. New Rule and Defining Fragments

Click the arrow icon, , to toggle the visibility of sections of the Fragments area and enable working with them. For example, click the arrow to display the foreach section:

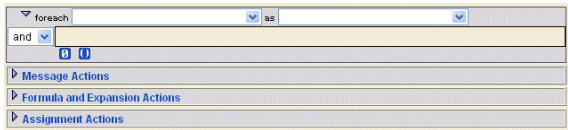


FIGURE 389. New Rule and Foreach Section Display

The following table describes the buttons that display in the Fragments area of the New Rule tab.

TABLE 37. Rule Buttons





Button	Name
	New Operator button
	New Fragment button

TABLE 37. Rule Buttons (Continued)

Button	Name
	Delete button
	Edit button

Click the **New Operator** icon to create a nested level for creating fragments, as shown in Figure 390 on page 604. The new level displays a new set of **New Fragment** and **New Operator** links. You use this **New Fragment** link to create the fragments at this nested level. If you click **New Operator** at this level, then you will create another nested level below this one with another set of **New Fragment** and **New Operator** links for that level.

Click the **New Fragment** icon to create a fragment at the currently displayed level (in this case, the top level) in the rule structure. Click **New Fragment** again to create a second fragment at the currently displayed level. In other words, the rule would be:

FragmentA AND FragmentB

Click the **Delete** button to delete the fragment.

Click the **Edit** button to modify the fragment.

FIGURE 390. New Rule Tab with Nested Levels

Foreach

A rule condition can have a property called the foreach property. Use the foreach property to loop through the property pool, identify all instances of a specified property, and act on a set of found values. You associate the foreach property with a property defined in the model. Each occurrence of the foreach property is bound to an "as" property.

For example, to increase the price of any node found selected in the model that has the SKU MXDS-7500 and for which the rackMountable property is true, you could use foreach in the following way:

```
foreach sku as tempSku
  IF value(tempSku) == literal(MXDS-7500)
  AND propval(itemType) == literal("rackMountable")
  THEN UI: PRICE = value(UI: PRICE) * 1.1
```

Example: To Create a Simple Level of Fragments

In this example, you are attempting to create a rule consisting of two fragments, joined by a single operator, with no nested levels: FragmentA AND FragmentB. When you access the tab, the **New Rule** tab appears as in Figure 391 on page 605.

The screenshot shows the 'New Rule' tab in a software interface. The tab is titled 'New Rule' and contains the following fields and options:

- Classification:** A dropdown menu.
- Default Priority:** A text input field with the value '50'.
- Name:** A text input field with the value 'new rule'.
- Description:** A text input field.
- Comments:** A large text area.
- Rule Triggered on:** Radio buttons for 'Failure' (selected) and 'Success'.
- Firing Phases:** A section with checkboxes for 'Order Processing' (checked), 'Pre-Order Validation', 'Post-Order Validation', 'Service Contract Creation', 'Service Contract Validation', and 'Order Shipment'.
- Boolean Operator:** A dropdown menu showing 'and'.
- Message Actions:** A button at the bottom.

FIGURE 391. New Rule Tab for a Single-Level Rule

1. Select the boolean operator you want for these fragments.
2. Click the **New Fragment** icon

This displays the **New Fragment** tab.

FIGURE 392. New Fragments Tab

3. Define the fragment.
 - a. Check the **Not** check box if you want to define the fragment as a negative: "NOT (sum(PropertyA <= 250))".
 - b. Select the first function from the Function1 drop-down list.
See Table 12, "Function Definitions", on page 94.
 - c. Select a property from the Property1 drop-down list.
 - d. Select the operator.
See Table 13, "Operators", on page 96.
 - e. Select the second function from the Function2 drop-down list.
 - f. In the Property2 field, select a property from the drop-down list or enter a literal value in the field (if you selected "literal" as the function).
 - g. Select the value for the If Not Specified drop-down list.
See "If Not Specified" on page 97 for an explanation of these values.
4. Click **Save and Return**.

This re-displays the **New Rule** tab with the new fragment, as shown in Figure 393 on page 607. Also, notice the infix representation.

General Info | Display | Properties | **Rules** | Lists | Tables | Tabs

New Rule

Name:

Description:

Comments:

Rule Triggered on: ☒ Failure ☐ Success

Operator	Fragment	If Not Specified	Actions		
and	sum(PropertyA) <= 250	Rule is true	<table border="1"> <tr> <td>Add Item</td> <td>Delete</td> </tr> </table>	Add Item	Delete
Add Item	Delete				

Message Actions

Error

Type

Formula

Expansion Actions

Min	Max	Qty	Item	Actions
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="Browse..."/> <input type="button" value="Add Item"/>

Assignment Actions

Property	Value	Assign To	Actions
controller cards	<input type="text"/>	<input type="text"/>	<input type="button" value="Browse..."/> <input type="button" value="Add Item"/>

FIGURE 393. New Rule Tab with New Fragment

5. Click the **New Fragment** icon to create the next fragment in the rule.
6. Repeat Step 3 to define the second fragment.
7. Click **Save and Return**.

This re-displays the **New Rule** tab with the fragment you created, as shown in Figure 394 on page 608. Notice that the rule has two fragments now.

You can click **Save** to save the rule and continue defining the rule. Click **Save and Return** to return to the list of rules in the **Define** tab.

General InfoDisplayPropertiesRulesListsTablesTabs

Edit Rule

Name:

Simple Level of Fragments

Description:

Simple Level of Fragments

Comments:

Rule Triggered on: ☒ Failure ☐ Success

Fragments		If Not Specified	Actions
and	sum(PropertyA) <= 250	Rule is true	<div>✕</div> <div>✎</div>
<div>0</div> <div>0</div>	sum(PropertyB) <= 200	Rule is true	<div>✕</div> <div>✎</div>
		<div>✕</div> Delete <div>✎</div> Edit <div>0</div> New Operator <div>0</div> New Fragment	

Message Actions

Error

Add Item

Type

Message

Delete

Formula

Expansion Actions

Browse...

Add Item

MinMaxQtyItemDelete

Assignment Actions

controller cards

Browse...

Add Item

PropertyValueAssign ToDelete

Save

Save and Return

Cancel and Return

Where Used...

FIGURE 394. New Rule Tab with Two New Fragments

Example: To Create Nested Fragments

In this example, the modeler is creating the following rule with nested fragments:

(FragmentA AND FragmentB) OR (FragmentC AND FragmentD)

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The screenshot shows a software interface with a tabbed menu at the top: General Info, Display, Properties, Rules, Lists, Tables, Tabs, and Worksheets. The 'Rules' tab is selected, and within it, the 'New Rule' sub-tab is active. The form contains the following fields and options:

- Classification:** A dropdown menu.
- Default Priority:** A text box containing the value '50'.
- Name:** A text box containing 'new rule'.
- Description:** An empty text box.
- Comments:** A larger empty text box.
- Rule Triggered on:** Radio buttons for 'Failure' (selected) and 'Success'.
- Firing Phases:** A group of checkboxes:
 - ☒ Order Processing
 - ☐ Pre-Order Validation
 - ☐ Post-Order Validation
 - ☐ Service Contract Creation
 - ☐ Service Contract Validation
 - ☐ Order Shipment
- Logic Builder:** A section with a 'and' dropdown, a right-pointing arrow, and two empty boxes with plus icons.

FIGURE 395. New Rule Tab

1. Click **New Operator** icon.

A nested level appears in the **New Rule** tab, as shown in Figure 396 on page 610. This level has its own drop-down boolean operators, as well as its own **New Fragment**, **New Operator**, and **Delete Operator** icons.

The screenshot shows the 'New Rule' tab in a software application. The tab is active and displays the following fields and sections:

- Name:** Nested Level of Fragments
- Description:** Nested Level of Fragments
- Comments:** Nested Level of Fragments
- Rule Triggered on:** ☒ Failure ☐ Success
- Fragments:** A section containing two nested levels of fragments. Each level has a dropdown menu set to 'and' and a 'New Fragment' icon. To the right of the fragments is an 'If Not Specified' section.
- Message Actions:** A section with a dropdown menu set to 'Error' and an 'Add Item' button.
- Formula:** A section with a text input field.
- Expansion Actions:** A section with a 'Browse...' button and an 'Add Item' button.
- Assignment Actions:** A section with a dropdown menu set to 'controller cards', a 'Browse...' button, and an 'Add Item' button.
- Property:** A section with a dropdown menu set to 'Value' and an 'Assign To' button.
- Buttons:** 'Save', 'Save and Return', and 'Cancel and Return' buttons at the bottom.

FIGURE 396. New Rule Tab with Nested Fragments

2. Create two fragments as described in "Example: To Create a Simple Level of Fragments" on page 605.

Use the nested drop-down list to select the boolean operator for these fragments. The default is AND.

Use the nested **New Fragment** icon to create the fragments at this nested level.

When the two fragments are completed, the **New Rule** tab appears as in Figure 397 on page 611.

You can nest as many fragments as you want by clicking the nested **New Operator** icon. Each time, a new nested operator will appear with a new set of nested icons. You use these nested icons to create the fragments for the nested level.

The screenshot shows a 'New Rule' configuration window with several tabs: General Info, Display, Properties, Rules (selected), Lists, Tables, and Tabs. The 'New Rule' section includes fields for Name, Description, and Comments, all containing the text 'Nested Level of Fragments'. Below these is a 'Rule Triggered on' section with radio buttons for 'Failure' (selected) and 'Success'.

The 'Fragments' section contains a table with two rows of nested conditions:

Fragments	If Not Specified	Actions
and [] []	sum(PropertyA) <= 250	Rule is true [X] [✓]
[] [] [X]	sum(PropertyB) <= 200	Rule is true [X] [✓]

Below the table are buttons: [X] - Delete, [✓] - Edit, [] - New Operator, and [] - New Fragment.

The 'Message Actions' section has a dropdown menu set to 'Error' and a text input field. Below it is a 'Type' dropdown set to 'Message'.

The 'Formula' section has a large text input field.

The 'Expansion Actions' section has a table with columns: Min, Max, Qty, Item, and a 'Browse...' button. Below the table is a 'Delete' button.

The 'Assignment Actions' section has a dropdown menu set to 'controller cards' and a text input field. Below it is a table with columns: Property, Value, Assign To, and a 'Delete' button.

At the bottom are buttons: Save, Save and Return, and Cancel and Return.

FIGURE 397. New Rule Tab with Nested Fragments

- Using the top-level list, select the boolean operator (in this example, OR) that will join the two nested levels.

New Rule

Name: Nested Level of Fragments

Description: Nested Level of Fragments

Comments:

Rule Triggered on: ☒ Failure ☐ Success

Fragments		If Not Specified	Actions
or	sum(PropertyA) <= 250	Rule is true	Delete Edit
and	sum(PropertyB) <= 200	Rule is true	Delete Edit

Message Actions

Error

Type Message

Formula

Expansion Actions

Min Max Qty Item

Assignment Actions

controller cards

Property Value Assign To

Save Save and Return Cancel and Return

FIGURE 398. Nested Fragments with OR Boolean

- Click the **New Operator** icon at the top level.

A new nested level appears in the fragments tab, as shown in Figure 399 on page 613. This level has its own drop-down boolean operators, as well as its own **New Fragment**, **New Operator**, and **Delete Operator** icons.

General Info	Display	Properties	Rules	Lists	Tables	Tabs												
New Rule																		
Name: <input style="width: 90%;" type="text" value="Nested Level of Fragments"/>																		
Description: <input style="width: 90%;" type="text" value="Nested Level of Fragments"/>																		
Comments: <div style="border: 1px solid #ccc; height: 40px; width: 95%;"></div>																		
Rule Triggerred on: <input checked="" type="radio"/> Failure <input type="radio"/> Success																		
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 2px;">Fragments</th> <th style="text-align: left; padding: 2px;">If Not Specified</th> <th style="text-align: left; padding: 2px;">Actions</th> </tr> </thead> <tbody> <tr> <td style="padding: 2px;"> <div style="display: flex; align-items: center;"> <div style="border: 1px solid #ccc; padding: 2px; margin-right: 5px;">or</div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid #ccc; padding: 2px; margin-right: 5px;">and</div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid #ccc; padding: 2px; margin-right: 5px;">0</div> <div style="border: 1px solid #ccc; padding: 2px; margin-right: 5px;">0</div> <div style="border: 1px solid #ccc; padding: 2px; margin-right: 5px;">x</div> </div> </div> </div> </td> <td style="padding: 2px;">sum(PropertyA) <= 250</td> <td style="padding: 2px;">Rule is true</td> </tr> <tr> <td style="padding: 2px;"></td> <td style="padding: 2px;">sum(PropertyB) <= 200</td> <td style="padding: 2px;">Rule is true</td> </tr> <tr> <td style="padding: 2px;"> <div style="display: flex; align-items: center;"> <div style="border: 1px solid #ccc; padding: 2px; margin-right: 5px;">and</div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid #ccc; padding: 2px; margin-right: 5px;">0</div> <div style="border: 1px solid #ccc; padding: 2px; margin-right: 5px;">0</div> <div style="border: 1px solid #ccc; padding: 2px; margin-right: 5px;">x</div> </div> </div> </td> <td colspan="2" style="padding: 2px;"></td> </tr> </tbody> </table>							Fragments	If Not Specified	Actions	<div style="display: flex; align-items: center;"> <div style="border: 1px solid #ccc; padding: 2px; margin-right: 5px;">or</div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid #ccc; padding: 2px; margin-right: 5px;">and</div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid #ccc; padding: 2px; margin-right: 5px;">0</div> <div style="border: 1px solid #ccc; padding: 2px; margin-right: 5px;">0</div> <div style="border: 1px solid #ccc; padding: 2px; margin-right: 5px;">x</div> </div> </div> </div>	sum(PropertyA) <= 250	Rule is true		sum(PropertyB) <= 200	Rule is true	<div style="display: flex; align-items: center;"> <div style="border: 1px solid #ccc; padding: 2px; margin-right: 5px;">and</div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid #ccc; padding: 2px; margin-right: 5px;">0</div> <div style="border: 1px solid #ccc; padding: 2px; margin-right: 5px;">0</div> <div style="border: 1px solid #ccc; padding: 2px; margin-right: 5px;">x</div> </div> </div>		
Fragments	If Not Specified	Actions																
<div style="display: flex; align-items: center;"> <div style="border: 1px solid #ccc; padding: 2px; margin-right: 5px;">or</div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid #ccc; padding: 2px; margin-right: 5px;">and</div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid #ccc; padding: 2px; margin-right: 5px;">0</div> <div style="border: 1px solid #ccc; padding: 2px; margin-right: 5px;">0</div> <div style="border: 1px solid #ccc; padding: 2px; margin-right: 5px;">x</div> </div> </div> </div>	sum(PropertyA) <= 250	Rule is true																
	sum(PropertyB) <= 200	Rule is true																
<div style="display: flex; align-items: center;"> <div style="border: 1px solid #ccc; padding: 2px; margin-right: 5px;">and</div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid #ccc; padding: 2px; margin-right: 5px;">0</div> <div style="border: 1px solid #ccc; padding: 2px; margin-right: 5px;">0</div> <div style="border: 1px solid #ccc; padding: 2px; margin-right: 5px;">x</div> </div> </div>																		
<input checked="" type="checkbox"/> - Delete <input checked="" type="checkbox"/> - Edit <input type="checkbox"/> - New Operator <input type="checkbox"/> - New Fragment																		
Message Actions <div style="display: flex; align-items: center;"> <div style="border: 1px solid #ccc; padding: 2px; margin-right: 5px;">Error</div> <div style="border: 1px solid #ccc; flex-grow: 1; margin-right: 5px;"></div> <div style="background-color: #007bff; color: white; padding: 2px 5px; border-radius: 3px;">Add Item</div> </div> <div style="display: flex; justify-content: space-between; padding: 2px 5px;"> Type Message Delete </div>																		
Formula <div style="border: 1px solid #ccc; height: 40px; width: 95%;"></div>																		
Expansion Actions <div style="display: flex; align-items: center;"> <div style="border: 1px solid #ccc; padding: 2px; margin-right: 5px;"></div> <div style="border: 1px solid #ccc; padding: 2px; margin-right: 5px;"></div> <div style="border: 1px solid #ccc; padding: 2px; margin-right: 5px;"></div> <div style="border: 1px solid #ccc; padding: 2px; margin-right: 5px;"></div> <div style="border: 1px solid #ccc; flex-grow: 1; margin-right: 5px;"></div> <div style="background-color: #007bff; color: white; padding: 2px 5px; border-radius: 3px;">Browse...</div> <div style="background-color: #007bff; color: white; padding: 2px 5px; border-radius: 3px;">Add Item</div> </div> <div style="display: flex; justify-content: space-between; padding: 2px 5px;"> Min Max Qty Item Delete </div>																		
Assignment Actions <div style="display: flex; align-items: center;"> <div style="border: 1px solid #ccc; padding: 2px; margin-right: 5px;">controller cards</div> <div style="border: 1px solid #ccc; flex-grow: 1; margin-right: 5px;"></div> <div style="background-color: #007bff; color: white; padding: 2px 5px; border-radius: 3px;">Browse...</div> <div style="background-color: #007bff; color: white; padding: 2px 5px; border-radius: 3px;">Add Item</div> </div> <div style="display: flex; justify-content: space-between; padding: 2px 5px;"> Property Value Assign To Delete </div>																		

Save
Save and Return
Cancel and Return

FIGURE 399. Nested Fragments

5. Create two fragments as described in "Example: To Create a Simple Level of Fragments" on page 605.

Use the nested drop-down list of boolean operators and the nested **New Fragment** icon for these fragments.

When the two fragments are completed, the **New Rule** tab appears as in Figure 400 on page 614.

General Info | Display | Properties | **Rules** | Lists | Tables | Tabs

Edit Rule

Name:
Nested Level of Fragments

Description:
Nested Level of Fragments

Comments:

Rule Triggered on: ☒ Failure ☐ Success

Fragments			If Not Specified	Actions
or <input checked="" type="radio"/> <input type="radio"/>	and <input type="radio"/> <input checked="" type="radio"/>	sum(PropertyA) <= 250	Rule is true	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
	<input checked="" type="radio"/> <input type="radio"/>	sum(PropertyB) <= 200	Rule is true	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
	and <input type="radio"/> <input checked="" type="radio"/>	sum(PropertyC) <= sum(PropertyD)	Rule is true	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
	<input checked="" type="radio"/> <input type="radio"/>	sum(PropertyC) <= sum(PropertyA)	Rule is true	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> - Delete <input checked="" type="checkbox"/> - Edit <input type="checkbox"/> - New Operator <input type="checkbox"/> - New Fragment				

Message Actions

Error

Type	Message	Delete
		<input type="checkbox"/>

Formula

Expansion Actions

Min	Max	Qty	Item	Delete
			<input type="text"/> <input type="button" value="Browse..."/>	<input type="checkbox"/>

Assignment Actions

Property	Value	Assign To	Delete
controller cards		<input type="text"/> <input type="button" value="Browse..."/>	<input type="checkbox"/>

FIGURE 400. Two Nested Fragments Joined by OR

To Modify a Fragment

1. Find the fragment you want to modify, then click on the **Edit Fragment** icon in the Actions column.

This displays the **Edit Fragment** tab.

Edit Fragment

Name: EXP derive Raid selection
 Description: Based on the answers from the RAID wizard, a RAID 0 or RAID 1 is selected!
 Rule Triggered on: Success

Infix representation of fragments:
 value(RAID_Wizard_RAID_level) >= 0

☐ Not

Function1: Property1: Location1:
 value RAID_Wizard_RAID_level any

Operator:
 >=

Function2: Property2:
 literal 0

If not specified:
 Rule is false

Model to use for locations: [Browse...](#)

[Save and Return](#) [Cancel and Return](#)

FIGURE 401. Edit Fragment Tab

2. Modify one or more elements of the fragment.
 - a. Check the **Not** check box if you want to define the fragment as a negative: “NOT (sum(PropertyA <= 250))”.
 - b. Select the first function from the Function1 drop-down list.
See Table 12, "Function Definitions", on page 94.
 - c. Select a property from the Property1 drop-down list.
 - d. Select the operator.
 - e. See Table 13, "Operators", on page 96.
 - f. Select the second function from the Function2 drop-down list.
 - g. In the Property2 field, select a property from the drop-down list or enter a literal value in the field (if you selected “literal” as the function).
 - h. Select the value for the If Not Specified drop-down list.
See "If Not Specified" on page 97 for an explanation of these values.
3. Click **Save And Return**.

To Delete a Fragment

Find the fragment you want to delete in the Fragments table, then click the **Delete** icon in the Actions column on the same line as the fragment.

Working with Rule Actions

Perform these tasks when you want to include a rule action when you are creating ("To Define a Rule" on page 587) or modifying ("To Modify a Rule" on page 590) a rule.

You define rule actions in the lower part of the **New Rule** or **Edit Rule** tab. Rule actions comprise three types of actions:

- **Message Actions:** A message that is displayed when the rule is triggered.
- **Formula and Expansion Actions:** Defines an expansion action based on a rule expansion formula.
- **Assignment Actions:** Assigns the value calculated by the rule formula to one or more properties when the rule is triggered.

The screenshot shows the 'Edit Rule' tab with the 'Rules' section active. The 'Name' field is 'Simple Level of Fragments' and the 'Description' is also 'Simple Level of Fragments'. The 'Rule Triggered on' is set to 'Failure'. The 'Fragments' section contains two conditions: 'sum(PropertyA) <= 250' and 'sum(PropertyB) <= 200'. The 'Message Actions' section has an 'Error' message. The 'Formula' section is empty. The 'Expansion Actions' section has a 'Browse...' button. The 'Assignment Actions' section has a 'controller cards' property and a 'Browse...' button. At the bottom are buttons for 'Save', 'Save and Return', 'Cancel and Return', and 'Where Used...'.

Fragments		If Not Specified	Actions
and	sum(PropertyA) <= 250	Rule is true	[X] [✓]
	sum(PropertyB) <= 200	Rule is true	[X] [✓]

Message Actions	
Error	[Add Item]
Type	Message [Delete]

Expansion Actions	
Min	Max Qty Item [Browse...] [Add Item]
	[Delete]

Assignment Actions	
controller cards	[Browse...] [Add Item]
Property	Value Assign To [Delete]

Save Save and Return Cancel and Return Where Used...

FIGURE 402. New Rule Tab Showing Action Area

To Create a Message Action

When you are creating ("To Define a Rule" on page 587) or modifying ("To Modify a Rule" on page 590) a rule, you perform this task in the Message Actions area of the **New Rule** or **Edit Rule** tab.

1. Select the type of message action from the drop-down list: Error, Warning, Suggestion.
2. Type the message.
3. Click **Add Item**.
4. Repeat these steps to enter additional messages.
5. Click **Save** to save the message action and continue editing. Click **Save and Return** to save the message and return to the **Define** tab.

The screenshot shows the 'Edit Rule' tab in a software interface. The interface has a top navigation bar with tabs: General Info, Display, Properties, Rules, Lists, Tables, and Tabs. The 'Edit Rule' tab is selected. Below the navigation bar, there are several sections:

- Name:** Simple Level of Fragments
- Description:** Simple Level of Fragments
- Comments:** (empty text area)
- Rule Triggered on:** Failure (selected), Success
- Fragments:** A table with columns: Fragments, If Not Specified, and Actions.

Fragments	If Not Specified	Actions
and	sum(PropertyA) <= 250	Rule is true
	sum(PropertyB) <= 200	Rule is true
- Message Actions:** A section with a dropdown menu set to 'Error', a text input field containing 'We recommend you order more memory!', and an 'Add Item' button.
- Formula:** A text input field.
- Expansion Actions:** A table with columns: Min, Max, Qty, and Item, and a 'Browse...' button.
- Assignment Actions:** A section with a dropdown menu set to 'controller cards', a text input field, and a 'Browse...' button.

At the bottom of the interface, there are four buttons: Save, Save and Return, Cancel and Return, and Where Used.

FIGURE 403. Edit Rule Tab with Message Action

To Create an Expansion Action

When you are creating ("To Define a Rule" on page 587) or modifying ("To Modify a Rule" on page 590) a rule, you perform this task in the Expansion Actions area of the **New Rule** or **Edit Rule** tab.

1. Enter a formula. The formula can use the supported functions as described in "Rule Fragments" on page 94.

The results of formula will be used to perform the expansion. See "Expansion" on page 98 for an explanation of rule formulas.

The screenshot shows the 'Edit Rule' dialog box with the 'Expansion Actions' section active. The 'Name' field is 'EXP_MX75_Automatic_Memory_Selection'. The 'Description' is 'This rule adds and selects the minimum required memory for an end user'. The 'Rule Triggered on' is set to 'Success'. The 'Fragments' section shows a single fragment: 'and value(MX75_Mem_Auto_Select) = Yes'. The 'Message Actions' section shows a 'Message' type with the text 'RAM modules are autoselected based on your software choi'. The 'Formula' section contains the formula 'sum(MX75_Mem_Required) - sum(MX75_Mem_Ordered)'. The 'Expansion Actions' table lists four items with their minimum, maximum, and quantity values. The 'Assignment Actions' section shows a table with 'Property' and 'Value' columns, where 'isVisibleable' is set to '1'.

Min	Max	Qty	Item
128	256	1	*AutoMemory.Auto Memory.256MB
0	64	1	*AutoMemory.Auto Memory.64MB
64	128	1	*AutoMemory.Auto Memory.128MB
256	512	2	*AutoMemory.Auto Memory.256MB

Property	Value	Assign To
isVisibleable	1	

FIGURE 404. Expansion Action

2. Enter a minimum and a maximum amount of the formula result.

The minimum amount is the minimum value the rule formula result must be greater than. This value can be negative or greater than or equal to zero. The value must be less than the maximum value (Max). The maximum amount is the maximum value the rule formula result must match. This value must be greater than the minimum value (Min).

Note: Min and Max work slightly differently: for a fragment to evaluate to true, the rule formula must evaluate to greater than the Min value, but less than *or equal* to the Max value.

3. Enter the quantity of the expansion items (must be greater than zero). You can use the supported functions to calculate the quantity and so you can specify the quantity as a function of a property. For example:

2*value(Memory Cards)

4. Enter the item that will be expanded.

You must provide the full path to the expansion item within the current model. In the figure above, for example, the rule adds an option item called either 64MB, 128MB, or 256MB, located in option class AutoMemory in the current model.

Formula			
value(Expansion Cards)			
Expansion Actions			
			Browse...
Min	Max	Qty	Item
0	10	3*value (Expansion Cards)	MXWS-7550.Memory.64MB

FIGURE 405. Expansion Action With Example of Using Quantity Function

When a rule is used in multiple models, this fully qualified path could be difficult to specify since the current model name will very likely not be "MXWS-7650" for all the models where the rule is attached. To facilitate the use of expansion rules across multiple models, you can use special symbols as follows:

- You can begin the path with a period (.), which means “from the attachment point of the rule”. In other words, if you attach a rule to a

model, then ".Memory.64MB" means "an option item called 64MB in an option class called Memory in the current model".

- You can begin the path with an asterisk (*), which means from the root of the model group hierarchy.
- If the name of a path component includes a quote character (' or "), then you must escape the quote character or wrap the whole expression in quotes. For example, to get the gauge property from the Tubing.3" pipe.threading option item, you can use

```
x = value(Tubing.3\"pipe.threading.gauge)
```

or

```
x = value('Tubing.3"pipe.threading.gauge')
```

To retrieve Board.8'plank.thickness, use

```
x = value(Board.8\'plank.thickness)
```

or

```
x = value("Board.8'plank.thickness")
```

5. Repeat these steps to enter additional items.

6. Click **Save All Changes**.

The result of an expansion action picks a quantity selected on an option item. If the option item quantity is a drop-down list, ensure that the possible calculated values are consistent with the pickable values: otherwise, the drop-down list will not be able to display the calculated value.

To Create an Assignment Action

When you are creating ("To Define a Rule" on page 587) or modifying ("To Modify a Rule" on page 590) a rule, you perform this task in the Assignment Actions area at the bottom of the **New Rule** or **Edit Rule** tab.

New Rule

Name: Assignment Rule

Description: Assignment Rule

Comments:

Rule Triggered on: ☒ Failure ☐ Success

Fragments	If Not Specified	Actions
and		

Message Actions

Type	Message
Error	

Formula

Expansion Actions

Min	Max	Qty	Item

FIGURE 406. Assignment Actions

1. Select a property from the drop-down list. The table below summarizes some of the special properties that can be assigned.
2. Enter a value for the property. You can use the supported functions to calculate the value and so you can specify the value as a function of a property. For example:

2*value(Memory Cards)

When you are assigning a value to a property whose type is String, you must use the following syntax to refer to properties:

$\${function(arg1, arg2, ..., arg N)}$

For example, $\${expand("Color", "Black", 0)}$. See "Example Uses of Expand" on page 622 for other examples of the usage of the expand function.

3. Type the entity to which you want to assign the property and its value.
If you leave this field blank, the assignment defaults to the entity to which the rule is attached.
4. Click **Add Item**.

Assignment Actions		
CONFIG: FIRST FIRE		Browse...
Property	Value	Assign To
Expansion Slots	2*value(Expansion Cards)	MXWS-7550

FIGURE 407. Assignment Action With Example of Using Quantity Function

- Repeat these steps to add additional items.
- Click **Save All Changes**.

The following table summarizes some of the available properties for assignment. These properties may change in each release, so check with your Sterling Commerce representative for further information if required.

TABLE 38. Assignment Action Properties

Property	Action
_constraintMessage	String: a message on an item because it is constrained
_constraintType	Integer: type of constraint; 0 is suggest, 1 is warn, and 2 is error
_description	String: an items description
_amEntitled	Integer: 0 false, 1 true
_isConstrained	Integer: 0 false, 1 true
_isSelected	Integer: 0 false, 1 true
_isViewable	Integer: 0 false, 1 true
_itemKey	Integer: database key of the item
_pickOverride	Integer: 0 false, 1 true; pick was overridden by a rule
_quantity	Integer: quantity; 0 quantities are not in the rule pool
_ratio	Numeric: ratio of this item to its children, computed if nested within another parent
_rawRatio	Numeric: raw ratio used in previous computation
_rulePick	Integer: 0 false, 1 true
_tabLevel	Integer: depth of this item

Example Uses of Expand

The syntax of the expand function is:

```
${expand(property[,defaultValue[,format[,lookup]]])}
```


For example, suppose that you want to display the name of the model as the name of the associated product together with the product description. At the model level, set the value of the UI: DISPLAY NAME property to: `${expand("UI: PRODUCT NAME")}` or `${expand("UI: PRODUCT DESCRIPTION","Description not available")}`.

Doing this ensures that if the product name or description changes and you recompile the model, the name or description displays with the new version when users next configure the product.

Here are some further examples of the expand function:

- String-valued property:
 - `${expand("color")}`
 - `${expand("color", "Black")}`
- Numeric-valued property:
 - `${expand("weight")}`
 - `${expand("weight", 0.0)}`
 - `${expand("weight", 0.0, #.00)}`

Option Constraints

Constraint tables enable you to limit a customer's choice of one or more option items based on the customer's choice of another option item. For example, the choice of an exterior color for a car might limit the choice of interior colors.

Working With Constraints

To Create a Constraint Table

You create an option constraint by creating a constraint table. You define constraint tables at the model level.

1. Navigate to the model where you want to create the constraint table.

See "To Access the Visual Modeler" on page 507 for information about how to navigate the model group hierarchy.

2. Click the **Tables** tab.

This displays two tabs: **General Info** and **Records**. The **General Info** tab displays general information about the table displayed in the Table Name field.

The screenshot shows the 'VISUAL MODELER' application window. The top menu bar includes 'Home', 'Group', and 'Detail'. Below the menu is a toolbar with various icons. The 'Model navigation' pane on the left shows a tree structure with 'MXWS-7700' selected. The main area has tabs for 'General Info', 'Display', 'Properties', 'Rules', 'Lists', 'Tables', 'Tabs', and 'Worksheets'. The 'Tables' tab is active, and within it, the 'General Info' sub-tab is selected. The 'General Info' form contains fields for 'Name', 'Description', 'Start Date (MM/DD/YYYY)' (set to 2/8/2005), 'End Date (MM/DD/YYYY)' (set to 2/8/2055), 'Message Type' (set to Error), and a 'Message' text area. There is also a 'Disable' checkbox and a 'Save Changes' button at the bottom.

FIGURE 408. Tables Tab

3. Click **New...**

This displays the **Create New Constraint Table** tab.

FIGURE 409. Create New Table Tab

4. Enter a Table Name, a Description, and a date range (Start Date/End Date) for the table. (You can click the **Calendar** icon to select dates from the calendar.)
5. Enter a message.

This message appears when the end-user chooses a selection which is incompatible with a constraint defined in the table.

- a. Select the message type: error, warning, or suggestion.
- b. Enter the message in the Message field.

6. Click **Save Changes**.

This re-displays the **Tables** tab with the new table in the Table Name field. The next step is to create the option constraints that are a part of the table. You do this in the **Records** tab. See "To Define Option Constraints" on page 626.

To Modify a Constraint Table

1. Navigate to the model that contains the table you want to modify.
See "To Access the Visual Modeler" on page 507 for information on how to navigate the model group hierarchy.
2. Click the **Tables** tab.
3. Select the table from the Table Names drop-down list.

4. Modify the table. You can:
 - Define option constraints (see "To Define Option Constraints" on page 626).
 - Modify option constraints (see "To Modify an Option Constraint" on page 630).
 - Delete option constraints (see "To Delete Option Constraints" on page 631).
 - Modify the name, description, or effectivity dates in the **General Info** tab.
 - Modify the error/warning/suggestion message in the **General Info** tab.

To Define Option Constraints

After you create a table and the option classes that will provide the constraints, you define the constraints. Each row in the table represents a constraint.

1. Navigate to the model that contains the table for which you want to define the constraint.

See "To Access the Visual Modeler" on page 507 for information on how to navigate the model group hierarchy.
2. Click the **Tables** tab.

This displays two tabs: **General Info** and **Records**. The **General Info** tab displays general information about the table displayed in the Table Name field. The **Records** tab is where you will define the constraints.

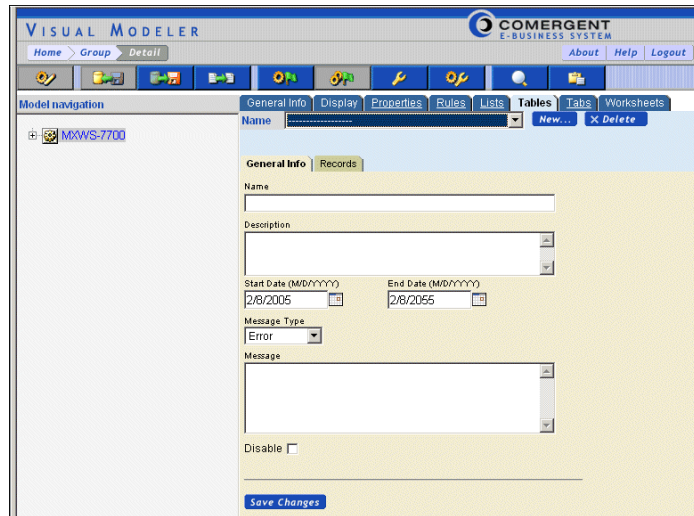


FIGURE 410. Tables Tab

3. Select the table from the Table Names drop-down list.
4. Click the **Records** tab.

This displays the currently defined option constraints.



FIGURE 411. Records Tab

5. Add columns to the constraint table.

- a. Select an option class from the Table Column name drop-down list.

The drop-down list includes all the option classes belonging to the model including any option classes nested within option classes as well as option classes that are part of option class groups attached to the model. The drop-down list will display the path to the option class relative to the model.

For example, the following figure shows two selections in the drop-down list called **Monitor** and **Software**. Notice that the Navigation frame shows two option classes by these names directly below the model.

The drop-down list has another selection, **Software.Application**. Notice that the model has an option class called **Software** directly below the model, with a nested option class called **Application**. Notice how the drop-down list indicates the path relative to the model, **Software.Application**.

The drop-down list also includes a selection, **MX-7500 Service.Warranty**. This corresponds to the option class group, **MX-7500 Service**, directly below the model. **Warranty** is an option class within the group.

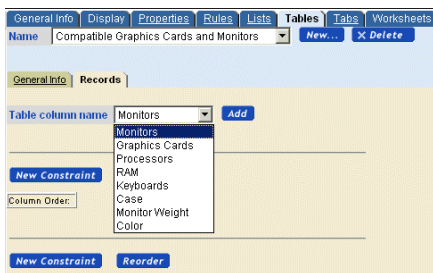


FIGURE 412. Records Tab with Drop-Down List

- b. Click **Add**.

The column name is added to the table.

- c. Repeat the last two steps for every column you want to add.

General Info | Display | Properties | Rules | Lists | **Tables** | Tabs | Worksheets

Name: Compatible Graphics Cards and Monitors [New...] [Delete]

General Info | **Records**

Table column name: Processors [Add]

[New Constraint] [Reorder]

Seq	Action	Valid	Monitors	Graphics Cards
Column Order:			1	2

[New Constraint] [Reorder]

FIGURE 413. Records Tab with Columns

6. Define an option constraint.
 - a. Click **New Constraint** to add a new row to the table.

General Info | Display | Properties | Rules | Lists | **Tables** | Tabs | Worksheets

Name: Compatible Graphics Cards and Monitors [New...] [Delete]

General Info | **Records**

Table column name: Processors [Add]

[New Constraint] [Reorder]

Seq	Action	Valid	Monitors	Graphics Cards
1	[Edit]	[X]	Optiquet Q95	6C-3000
2	[Edit]	[✓]	Optiquet Q115	6C-1000
Column Order:			1	2

[New Constraint] [Reorder]

FIGURE 414. Constraint Table with New Constraint Added

- b. Click **Edit**.

This displays the option classes as table columns, along with their option items.

The option items that display include any option items belonging to an any option item group attached to the option class.

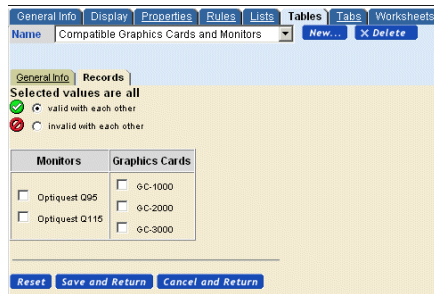


FIGURE 415. Defining Constraints

- c. Define compatibility ("Selected Values are all"). That is, will the selections you make in one column be valid or invalid with the selections in the other column(s)?
- d. Select one or more option items in each column.
- e. Click **Save**.

A new row appears in the table.

7. Repeat the last step for each constraint you want to define.

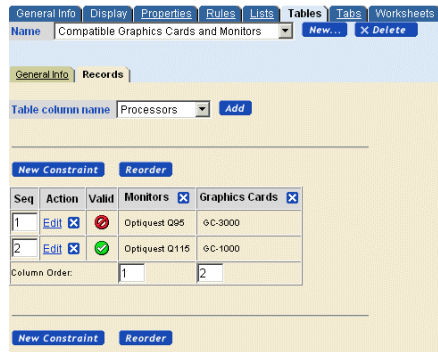
To Modify an Option Constraint

1. Navigate to the model that contains the table with the constraint you want to modify.

See "To Access the Visual Modeler" on page 507 for information on how to navigate the model group hierarchy.

2. Select the table from the Table Names drop-down list.
3. Click the **Records** tab.

This displays the currently defined option constraints.

**FIGURE 416. Records Tab**

4. Find the constraint row you want to modify and click **Edit**.

This displays the constraint information.

5. Modify the constraint information.

- a. Modify compatibility.

Will the selections you make in one column be valid/invalid with the selections in the other column(s)?

- b. Modify the option items in each column.
- c. Click **Save**.

The row is changed based on your modifications.

To Delete Option Constraints

1. Navigate to the model that contains the table with the constraint you want to delete.

See "To Access the Visual Modeler" on page 507 for information on how to navigate the model group hierarchy.

2. Click the **Tables** tab.
3. Select the table from the Table Names drop-down list.
4. Click the **Records** tab.

This displays the currently defined option constraints.

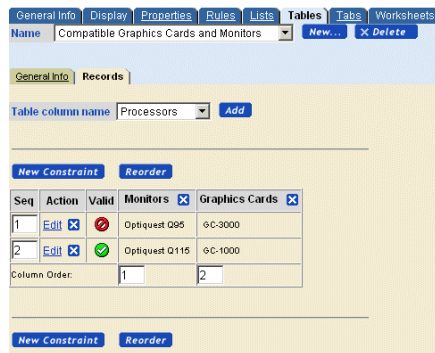


FIGURE 417. Records Tab

- Find the constraint row you want to delete.
- Click **Delete (X)**.

The constraint row is deleted.

To Delete a Constraint Table

- Navigate to the model that contains the table with the constraint you want to delete.

See "To Access the Visual Modeler" on page 507 for information about how to navigate the model group hierarchy.

- Click the **Tables** tab.
- Select the table from the Table Names drop-down list.
- Click the **Delete** button.

The constraint table is deleted.

Importing and Exporting Models

Importing Model Groups and Models

You can import model groups and models in the form of XML files. You can either import the entity relative to its original root model group, or you can designate a location into which to import. The model will appear in the Navigation frames, enabling you as modeler to add to or modify the imported model.

See "Importing and Exporting" on page 104 for an explanation of the process.

To Import Model Groups and Models

See "Importing and Exporting" on page 104 for an explanation of this process as well as an explanation of how the process handles properties, rules, and attached groups.

1. Access the Visual Modeler page.

See "To Access the Visual Modeler" on page 507 for information on how to navigate the model group hierarchy.

2. If you want to import to a selected point, then navigate to the model group within which you want to import the file.

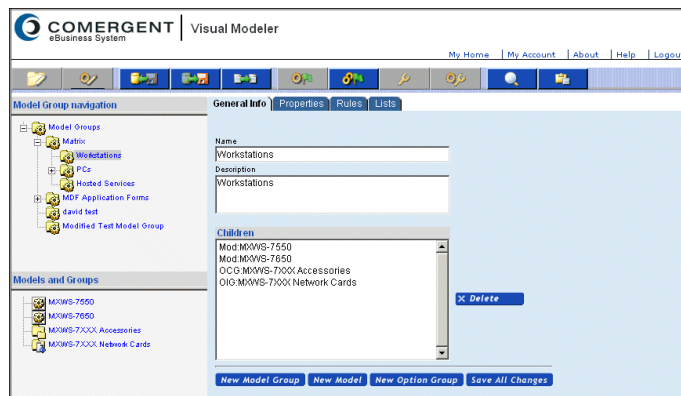


FIGURE 418. Visual Modeler Page

3. Click **Import** in the toolbar.

This displays the Visual Modeler Import window (see Figure 419 on page 634).

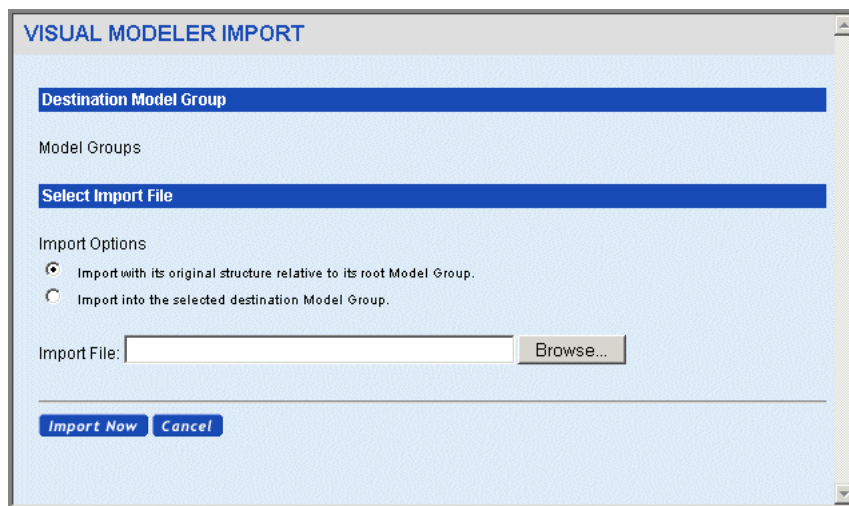


FIGURE 419. Import Window

4. Click **Browse...** to find the XML file you want to import.

When you select the file, the file will be displayed in the field along with the complete path to the file.

5. Select the import option.
 - **Import with its original structure relative to its root model group**

When you make this selection, the Import process will ignore any Destination Model Group indicated at the top of the window.
 - **Import into the selected destination model group**
6. Click **Import Now**.

The imported model group or model and its structure will be imported based on the import option you selected. See "Importing and Exporting" on page 104 for an explanation of the process.

Exporting Model Groups and Models

You can export any model group or model as an XML file to a specified location on your machine.

To Export a Model Group or Model

1. Navigate to the model group or the model that you want to export.

See "To Access the Visual Modeler" on page 507 for information on how to navigate the model group hierarchy.

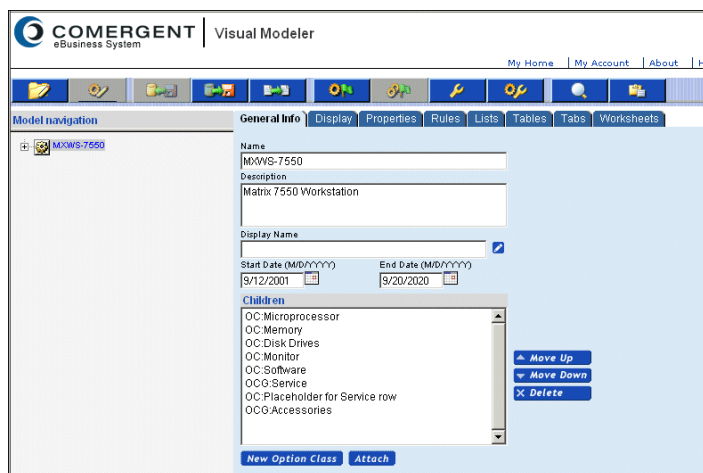


FIGURE 420. Model Navigation Detail Page

2. Click **Export** in the toolbar.

You can either open the XML file at its current location, choosing a desired text processing tool, or you can save the file to a desired location.

Using Dynamic Instantiation

Dynamic instantiation provides a way to allow users to configure products on the fly while avoiding the need to create option items for each possible product configuration in your model. For example, consider a server rack. The user can decide on the number of slots they need and create dynamic instantiation controls for each type of component, such as servers and storage arrays that can fit into a slot, AC or DC power, and so on. As the modeler, you create the rack model, then create option classes for each of the rack's configurable features (such as servers and storage arrays) and set them as dynamic instantiation control classes. An end-user buying computer racks navigates to the rack product on your site and clicks the Configure button next to the servers and storage array choices. This causes a new

option item to be added to the model for that configurable feature. The user can then configure each option item by clicking the Configure button that appears next to each added item. When the entire rack and all the configurable features have been added and configured, the user clicks the Add button located in the button bar at the top of the Configurator page to add the rack to their cart.

The following steps describe the process in more detail.

1. On the Model Group Navigation page, click New Model.

The New Model page displays.

2. Enter a name for the model, then click Save and Edit.

The Model Navigation page for the new model displays.

3. Click New Option Class.

The New Option Class page displays.

4. Enter a name for the new option class, then click Save and Edit.

5. Click the Display tab, then choose Dynamic Instantiation from the UI Control drop-down list, as shown in the following figure.

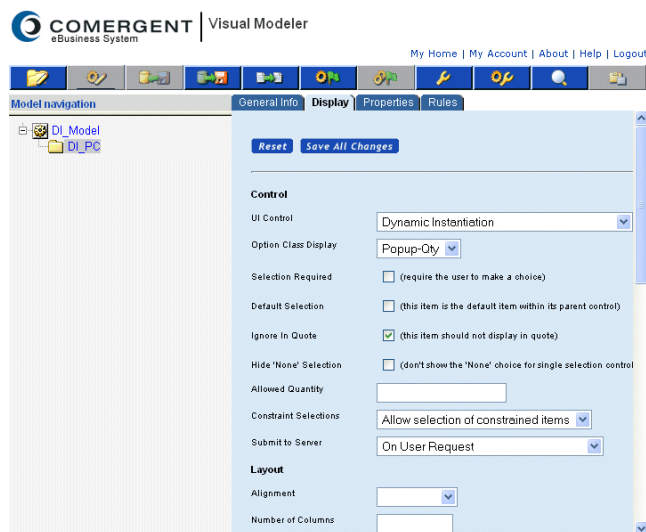


FIGURE 421. Choosing Dynamic Instantiation for the UI Control Type

Set other Display properties as appropriate, then click Save All Changes.

6. Click the Properties tab, then set the following properties from the Unattached Properties drop-down list:
 - a. CONFIG: SUBMODEL NAME
Enter the name of an existing submodel for the property value, then click Attach.
 - b. CONFIG: SUBMODEL RETURN
Enter the name of an existing submodel to which the end-user should return after clicking the Add button, then click Attach.
7. Click Save All Changes.
8. Return to the new model's root node, then click the Compile and Test icon to test your dynamic instantiation option class.

Searching

You can search for entities that contain properties and property values that you specify as parameters. You can search across the entire hierarchy, or you can limit your search to model groups, models, option classes, option items, and rules, or you can limit your search even further to the currently selected model or group.

To Search for Entities

1. Access the Visual Modeler page.
See "To Access the Visual Modeler" on page 507 for information on how to navigate the model group hierarchy.

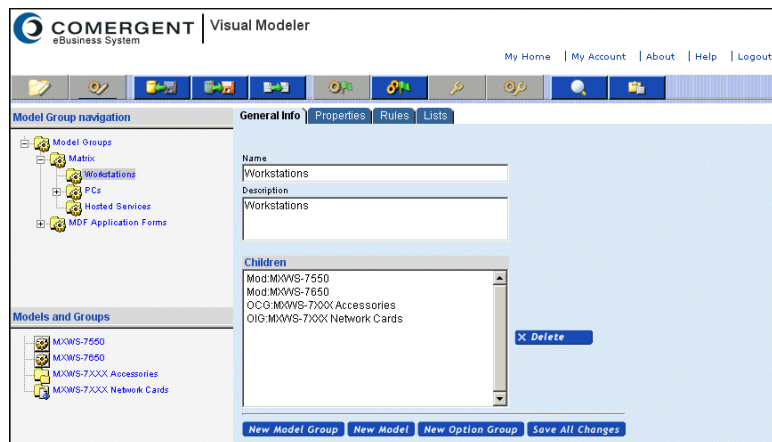


FIGURE 422. Visual Modeler Page

2. If you want to search within a specific model or group, then navigate to and select the model or group.
3. Click **Search** in the toolbar.

This displays the Search window (Figure 423 on page 638).

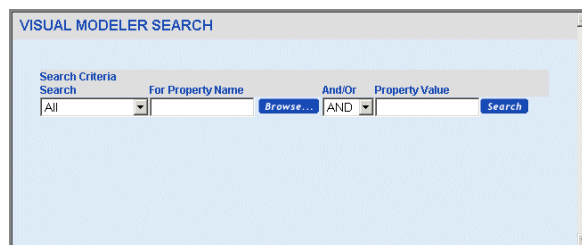


FIGURE 423. Search Window

4. Select the scope for the search from the Search drop-down list.

You can search all entities, you can limit the search to model groups, models, option classes, option items, or rules. If you are searching within a specific model or group (see Step 2), then you can limit your search to **Current Model** or **Current Group**.

5. Enter either a property name or a property value or both.

Click **Browse...** to display a browser window to select a property from a list of all the properties in the Visual Modeler.

Use the drop-down list to select AND or OR. Select AND to produce search results that include both the Property Name and Property Value parameters you select. Select OR to produce search results that include either parameter.

When you enter a property value, the search results will include property values that contain the property value you enter. For example, if you enter "75", then the search results will include any properties with the value "75" as well as property values such as "7550-1" or "MX-75-1".

6. Click **Search**.

The search results will display below the parameters. By default, the result is sorted in ascending order by property name. You can click on one of the following columns to sort:

- Property Name
- Value
- Location

When you click the column title the first time, the column is sorted in ascending order.

The screenshot shows a window titled "VISUAL MODELER SEARCH". It contains a "Search Criteria" section with a "Search" dropdown set to "All", a "For Property Name" field containing "UIOLD: PRICING S", a "Browse..." button, an "And/Or" dropdown set to "AND", a "Property Value" field containing "75", and a "Search" button. Below this is a section titled "Search Results for: UIOLD: PRICING SKU AND 75" containing a table with three columns: "Property Name", "Value", and "Location".

Property Name	Value	Location
UIOLD: PRICING SKU	MX-ST075D	Model Groups\Workstations.MX\MS-7550.Disk Drives.75GB
UIOLD: PRICING SKU	MX-ST075D	Model Groups\Workstations.MX\MS-7650.Disk Drives.75GB
UIOLD: PRICING SKU	MX-ST075D	Model Groups\PCs.Desktops.MX\DS-7500.Disk Drives.75GB
UIOLD: PRICING SKU	MX-ST075D	Model Groups\PCs.Desktops.MX\DS-7550.Disk Drives.75GB
UIOLD: PRICING SKU	MX-IC750P	Model Groups\PCs.Notebooks.MX\LP-7500.Processor.750MHZ
UIOLD: PRICING SKU	MX-IC750P	Model Groups\PCs.Notebooks.MX\LP-7550.Processor.750MHZ

FIGURE 424. Search Window with Results

Reporting

You can run a report on a model that you specify. You can select the types of information you want in the report:

- Rule definitions
- List definitions
- Property definitions
- Display Settings
- Attached Properties
- Attached Rules
- Expand Groups

To Run A Report

1. Access the Visual Modeler page.
See "To Access the Visual Modeler" on page 507.
2. Click **Report** in the toolbar.
This displays the Report Entry window.

VISUAL MODELER REPORT

Model Name **Browse...**

Locale
United States

Show Model as on Date: (MM/DD/YYYY)

Filter Criteria
[Select All](#) [Deselect All](#)

Definitions	Model Hierarchy	Constraint Tables
<input type="checkbox"/> Property Definitions	<input checked="" type="checkbox"/> Display Settings	
<input type="checkbox"/> Rule Definitions	<input checked="" type="checkbox"/> Attached Properties	
<input type="checkbox"/> Lists Definitions	<input checked="" type="checkbox"/> Attached Rules	<input checked="" type="checkbox"/> Constraint Tables
	<input type="checkbox"/> Expand Groups	
	<input type="checkbox"/> Show Path	

Run Report **Cancel**

FIGURE 425. Report Entry Window

3. Enter the model you want to report on.

You can click **Browse...** to find and select the model in the model hierarchy.

4. Select the locale in which you want to run the report.
5. Select a date to report.

This produces a report for the models for whom the selected date falls within the range of their effectivity dates. The report does not display any models (or entities within the model) for whom the selected date falls outside their effectivity dates.

6. Select the information you want to include in the report.
7. Click **Run Report**.

A report is displayed based on the parameters you entered (Figure 426 on page 642).

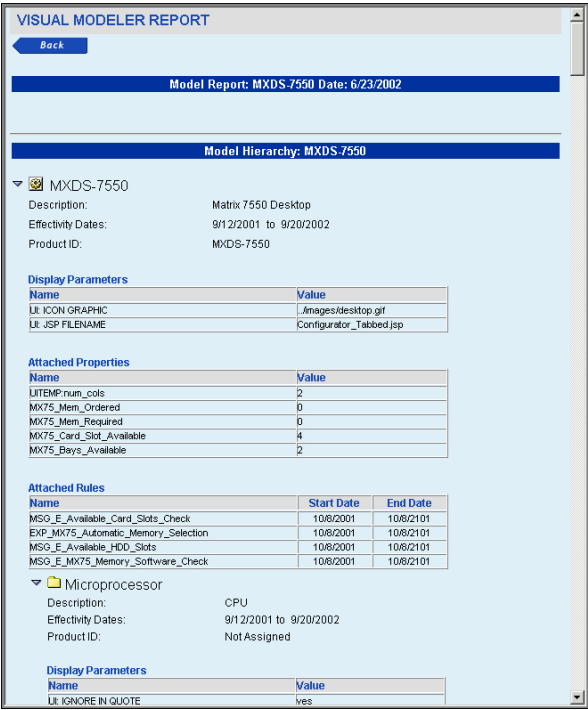


FIGURE 426. Report Results Window

This chapter describes the user interface (UI) controls and how they can be used to help your customers configure your products. It covers:

- "UI Properties" on page 643
 - "Sterling Multi-Channel Selling Solution UI Properties" on page 644
 - "Working with Display Properties" on page 644
- "Display Properties" on page 653
- "Tabular Display of Properties" on page 659
- "Image Properties" on page 662
- "User-Entered Values" on page 663

The basic concepts and tasks of modeling are covered in CHAPTER 16, "Using the Visual Modeler".

UI Properties

A property is an attribute of a model, option class, or option item. UI properties are used to determine the look-and-feel of a product as it is configured. You can use UI properties to control how option classes are displayed, how to display properties of option items, as well as basic guiding text and pictures.

The Sterling Multi-Channel Selling Solution provides a set of built-in UI properties which are understood by the Sterling Configurator engine. These control the behavior of the engine and the presentation of the model to the end-user. These properties are summarized in "To Define Display Property Values" on page 653.

Working with Display Properties

The Visual Modeler provides certain *display properties* that come pre-defined with the Sterling Multi-Channel Selling Solution. These display properties enhance the customer experience by enabling you to provide values that define various aspects of the model or its elements. They can all be specified using the Display tab of a model, option class, or option item, or as UI properties in the Properties tab. For example, you can define a "Pre-Pick Guiding Text" for an option class either by defining it on the Display tab or by specifying the value of the UI: PRE-PICK GUIDING TEXT property on the Properties tab.

Display properties also allow you to create fields and options that end-users may use to enter their own values rather than values specified by you. See "User-Entered Values" on page 663. Note that every property displayed on the Display tab corresponds to a UI property. This means that display properties can also be set using the Properties tab provided that you know which UI property matches the display property. See "Display Properties" on page 653 for more details.

Sterling Multi-Channel Selling Solution UI Properties

The following table summarizes the UI properties that are built in to the Sterling Multi-Channel Selling Solution.

TABLE 39. Sterling Multi-Channel Selling Solution UI Properties

Property	Type	Comments
UI: ADDITIONAL DESCRIPTION	string	You can use this property to add additional descriptive text to an option class. use this property in conjunction with the UI: DISPLAY RESULTS property.
UI: ALIGNMENT	string	"Horizontal" or "Vertical" controls layout of radio buttons and check box controls.

TABLE 39. Sterling Multi-Channel Selling Solution UI Properties

Property	Type	Comments
UI: AUTOMATIC POST	string	<p>"yes" or "true" turns on automatic posting for an option class.</p> <p>After a customer makes a pick of an option item, then you usually want the server to re-display the page so that rules can be fired and any changes to the available option classes displayed. However, if you do not want picks in an option class to cause a re-display, then set this property to "no" or "false". This is equivalent to selecting On User Request from the Submit to Server Display property drop-down list.</p> <p>The option class is displayed with Update button: after making a pick in this option class, a user can click the Update button to request a re-display of the page from the server.</p>
UI: CLASS DISPLAY NAME	string	<p>Use this property at the model level to determine what is displayed as the displayed name of option classes. By default, this property takes the value <code>\${expand("_description")}</code> which means that the value of the option class's Description field is displayed.</p> <p>For example, if you want to display option class names instead of descriptions, then set this property to <code>\${expand("_name")}</code>. You can overwrite this value at a single class by using the UI: DISPLAY NAME property.</p>
UI: COLUMN ALIGNMENT	string	<p>Used in the tabular display control to specify the alignment of the values in the column. The tabular display control uses the ";" character to separate entries from each other, so the format of this column is something like:</p> <p>"left;left:center:right".</p>
UI: COLUMN HEADINGS	string	<p>Used in the tabular display control to specify the titles of columns. Each title is separated from each other with the ";" character. For example: "Speed;Pins;Manufacturer".</p> <p>See "Tabular Display of Properties" on page 659 for an example of using this property.</p>
UI: COLUMN PROPERTIES	string	<p>A semi-colon-separated list of property names used in the tabular display of properties. For example:</p> <p>"SPEED;NOPINS;SUPPLIER", where SPEED, NOPINS, and SUPPLIER are properties defined on option items in an option class.</p> <p>See "Tabular Display of Properties" on page 659 for an example of using this property.</p>

TABLE 39. Sterling Multi-Channel Selling Solution UI Properties

Property	Type	Comments
UI: COLUMN SPAN	numeric	Controls how many columns an option class requires for its display in the customer-facing display of the model. This is the same as entering a number for the Number of Columns field on the Display tab. See also UI: SKIP COLUMNS.
UI: CONFIG CELL HTML CLASS	string	Sets the CSS class attribute in the HTML. Use this property to control the look-and-feel of cells. Note that the Visual Modeler uses the internal.css CSS file when you test models.
UI: CONSTANT GUIDING TEXT	string	Defines the guiding text that will always be shown for an option class. This is the same as entering text for the Constant Guiding Text field on the Display tab. See also UI: POST PICK GUIDING TEXT and UI: PRE PICK GUIDING TEXT.
UI: CONTROL	string	The name of the JSP fragment used to render an option class. Do not use UI: JSP FILENAME at the option class level.
UI: DEFAULT SELECTION	string	"true" or "yes" on an item makes the item a default selection within its parent option class.
UI: DISPLAY ADDITIONAL INFO	string	Use this property to provide a description specific to a particular instance of a sub-model. If you attach this property to the root node of a submodel and pass it as an output property to the parent model, the parent model displays the description next to the item in the parent model. This allows you to give feedback to the end-user about how the sub-model is configured. This is particularly useful for dynamic instantiation, where there can be multiple instances of a sub-model, each configured differently, and you want to provide an appropriate description for each instance of the submodel.
UI: DISPLAY NAME	string	Use this property to determine what is displayed as the displayed name of the option class. By default, this property takes the value <code>\${expand("_description")}</code> which means that the value of the option class's Description field is displayed.

TABLE 39. Sterling Multi-Channel Selling Solution UI Properties

Property	Type	Comments
UI: DISPLAY RESULTS	string	<p>This property is deprecated. A property that is displayed along with the description of items. This special property also allows the usage of text expansion macros. Currently we support:</p> <pre> <code>\${expand(propname[,defaultValue[,picture-String]])}</code> </pre> <p>but the name of this "function", <code>expand</code> in this case, is accessed via the object manager.^a</p> <p>An example usage is to set a description string in the UI: ADDITIONAL DESCRIPTION property, and then set the value of this property to <code>\${expand("UI: ADDITIONAL DESCRIPTION")}</code>.</p>
UI: HELP URL	string	<p>A URL that is used to turn an option class description into a hyperlink, typically used to provide additional information about what that option class is for, but could also be a datasheet or any other hyperlink. Clicking on the hyperlink will bring up the page in a new window. This is the same as entering text for the Help URL field on the Display tab.</p>
UI: ICON GRAPHIC	string	<p>Used with an option class to display a picture along with the description of the option class. This is the same as entering text for the Image field on the Display tab: see "Image Properties" on page 662 for information on how values in this field are resolved to URLs.</p>
UI: IGNORE IN QUOTE	string	<p>When set to "yes" or "true" will cause whatever item this property is attached to, to be filtered out of the summary page, and flagged as not visible in the BOM transfer to the shopping cart. This is the same as checking Ignore in Quote on the Display tab.</p> <p>Typically, this field is used to ensure that only selected option items are displayed in shopping carts and to suppress option classes in the list of items in a shopping cart.</p>
UI: JSP FILENAME	string	<p>The name of the JSP page that will render the model: Configurator_Tabbed.jsp or configurator.jsp. This property is added to support easier customization and eventually to allow different presentations per model. Using built-in customization elements of Sterling Configurator, it is possible to dynamically change pages as well.</p>

TABLE 39. Sterling Multi-Channel Selling Solution UI Properties

Property	Type	Comments
UI: LEAD TIME	numeric	Attached to items in the model. It is used to build a maximum lead time for the entire model by finding the largest lead time of all items currently selected.
UI: NUMBER OF COLUMNS	numeric	<p>Number of columns to divide the end-user configurator presentation. This property is defined at the model level to manage how many columns are used to display the option classes for a model.</p> <p>This property in conjunction with UI: COLUMN SPAN, UI: ROW SPAN, and UI: SKIP COLUMNS controls how option classes are arranged on the page. This property is the same as setting the Number of Columns property in the Display tab.</p>
UI: OPTION CLASS REQUIRED	string	"yes" or "true" causes Sterling Configurator to require that a selection be made for an option class. For radio buttons this causes the None selection to be removed.
UI: OPTION CLASS SELECT	string	<p>This property is used to specify what UI control should be used when no specific UI: CONTROL value is specified. Its use is primarily to support importing models from external configuration systems or from earlier releases of the Sterling Multi-Channel Selling Solution.</p> <p>It takes "single" or "multiple" as values, and is only used in the absence of a UI: CONTROL property to determine if a radio button or checkbox control should be shown for an option class.</p>
UI: OPTION CLASS TYPE	string	Obsolete: do not use.
UI: OPTION CLASS VIEW	string	<p>"POPUP", "POPUP-QTY", or "INVISIBLE". This controls the display behavior of an option class. If POPUP, a standard option class is shown; if POPUP-QTY is selected, then a quantity box will be shown for each selected item within that control. Finally, INVISIBLE is used to prevent the display of the control entirely.</p> <p>INVISIBLE is often used to hide option classes until other picks made by the customer requires the class to be displayed.</p>
UI: POPUP-QTY ALLOWED VALUES	string	<p>This controls what values are available for a selection in a popup drop-down list. Use this at the option class level, in conjunction with setting UI: OPTION CLASS VIEW to POPUP-QTY.</p> <p>A "," separated list of allowed values. Ranges can be specified with "-", so 1-4,7-9 is the same as 1,2,3,4,7,8,9. If you leave this field blank, then a text field is displayed with the current value; otherwise a drop-down list with the allowed values is displayed.</p>

TABLE 39. Sterling Multi-Channel Selling Solution UI Properties

Property	Type	Comments
UI: POST PICK GUIDING TEXT	string	<p>A guiding text message displayed with an option class description if the user has made at least one pick from within the option class. This is the same as entering text for the Pre-Pick Guiding Text field on the Display tab.</p> <p>This property is not displayed until a customer makes a pick. See also UI: CONSTANT GUIDING TEXT and UI: PRE PICK GUIDING TEXT.</p>
UI: PRE PICK GUIDING TEXT	string	<p>A guiding text message displayed with an option class description if the user has not made a pick from within the option class. This is the same as entering text for the Post-Pick Guiding Text field on the Display tab.</p> <p>Once a pick has been made, then this property is no longer displayed. See also UI: CONSTANT GUIDING TEXT and UI: POST PICK GUIDING TEXT.</p>
UI: PREVENT SELECTION	string	"yes" or "true" causes the Sterling Configurator to prevent the user from selecting items that would violate a constraint table rule. If the Constraint Selections display property is set to "Hide constrained items", then this property is set to "yes".
UI: PRICE	numeric	The price for an item that will be used if STATIC_PRICING or OVERRIDE_PRICING is set in the business rules. In the case of OVERRIDE_PRICING, this value will be used if a price cannot be found for the item in the price list.
UI: PRICING SKU	string	The SKU to use when looking up the item in the price list. Note that if you set a product ID value for this property, then it overrides the value of the Assigned Product ID in determining prices.
UI: PRICING STYLE	string	<p>Usually, you use this property at the option class level. It controls how prices of option items are displayed to the end user as follows:</p> <p>NONE: Do not display prices as user configures product.</p> <p>ABSOLUTE: Display prices next to option items as absolute prices.</p> <p>DELTA: Display prices next to option items as their effect on the price of the whole configured product.</p> <p>This property is the same as setting Pricing Style in the Display tab.</p>

TABLE 39. Sterling Multi-Channel Selling Solution UI Properties

Property	Type	Comments
UI: PRODUCT ID	string	<p>If a product has been associated with a node of a model, then this property can be used to retrieve the product ID of the associated product.</p> <p>The value of this property is resolved at compile time, so if the product ID is changed, then you must re-compile the model for the change to take effect.</p>
UI: PRODUCT NAME	string	<p>If a product has been associated with a node of a model, then this property can be used to retrieve the product name of the associated product.</p> <p>The value of this property is resolved at compile time, so if the product name is changed, then you must re-compile the model for the change to take effect.</p>
UI: PRODUCT DESCRIPTION	string	<p>If a product has been associated with a node of a model, then this property can be used to retrieve the description of the associated product.</p> <p>The value of this property is resolved at compile time, so if the product description is changed, then you must re-compile the model for the change to take effect.</p>
UI: QUANTITY AVAILABLE	numeric	<p>Do not use in this release.</p> <p>Used in the quantity matrix, this can optionally be attached to the items for the matrix. If so it will set the quantity available of each item. If the control is set to show quantity available this property value will be displayed in a secondary row for each item.</p>
UI: REQUIRED	string	Obsolete: do not use.
UI: ROW SPAN	numeric	<p>Controls how many rows an option class requires for its display in the end-user presentation of the page. In conjunction with UI: NUMBER OF COLUMNS and UI: COLUMN SPAN, this property controls the layout of the page viewed by end-users. This is the same as entering a number for the Number of Rows field on the Display tab.</p> <p>See also UI: SKIP COLUMNS.</p>
UI: SHOW ITEM IMAGES	string	"yes" or "true" controls whether item images are shown.

TABLE 39. Sterling Multi-Channel Selling Solution UI Properties

Property	Type	Comments
UI: SKIP COLUMNS	numeric	<p>Number of columns to skip after this class. It is used to add to the count variable that is tracking how many cells are being used to lay out the option classes. This is the same as entering a number for the Number of Columns to Skip field on the Display tab.</p> <p>If you have used the UI: COLUMN SPAN property or UI: ROW SPAN for another option class, then use this property to account for table cells in the layout that the multiple span class uses.</p>
UI: SUPPRESS NAME DISPLAY	string	"yes" or "true" causes Sterling Configurator to not display the names of option classes.
UI: SUPPRESS NONE SELECTION	string	"yes" or "true" suppresses the NONE selection value for radio buttons.
UI: SUPPRESS UEV NONE VALUE	string	<p>"yes" or "true" suppresses the NONE selection for UEV combo boxes. Use this in conjunction with UI: UEV ALLOWED VALUES property.</p> <p>For example, if you have specified that a user-entered value field can only take the values Red, Green, Blue, then if the value of this property is set to "yes", then None will not appear in the drop-down list of selectable values. If you set the value of this property to "no", or do not attach this property, then None will be a selectable value.</p>
UI: UEV ALLOWED VALUES	string	<p>Comma-separated list of values for a combobox UEV control.</p> <p>Suppose that you want to allow customers to enter only one color from a small list of colors. Then enter the list like this:</p> <p>Black,Blue,Green,Red,White</p> <p>When this property is set, then the user-entered value option item is displayed as a drop-down list of these values. None is also displayed as a selectable option, unless you set the UI: SUPPRESS UEV NONE VALUE property to "yes".</p> <p>This property is the same as setting values in the Allowed Values display property.</p>

TABLE 39. Sterling Multi-Channel Selling Solution UI Properties

Property	Type	Comments
UI: UEV ASSIGNMENT PROPERTY	string	<p>The name of a property where a UEV will store its value. This property should be of the correct type to contain the UEV. Note: numeric properties can be used to hold INTEGER UEVs as well as NUMERIC UEVs.</p> <ul style="list-style-type: none"> If the value of this property is just a property name, then the property will be set on the current item. If the value contains a path to a property as well as the property name, then the property will be set on the item referenced by the path if it exists. <p>Once a user makes their pick in the user-entered value field, then the assigned property can be used by rules or in the display of the model, just like any other property.</p> <p>This property is the same as setting a value in the Assign Value to Property display property.</p>
UI: UEV INTEGER VALUE	integer	Filled in by the engine when an integer UEV has a value in it. This provides you with a way to reference the value of the field without assigning it to another property: see UI: UEV ASSIGNMENT PROPERTY to use another property.
UI: UEV LIST VALUE	list	Filled in by the engine when a list UEV has a value in it (not currently used). This provides you with a way to reference the value of the field without assigning it to another property: see UI: UEV ASSIGNMENT PROPERTY to use another property.
UI: UEV NUMERIC VALUE	numeric	Filled in by the engine when a numeric UEV has a value in it. This provides you with a way to reference the value of the field without assigning it to another property: see UI: UEV ASSIGNMENT PROPERTY to use another property.
UI: UEV POSTFIX	string	<p>A string of text displayed after the UEV entry field.</p> <p>This property is the same as setting a value in the Text After Entry Field display property.</p>
UI: UEV PREFIX	string	<p>A string of text displayed before a UEV entry field.</p> <p>This property is the same as setting a value in the Text Before Entry Field display property.</p>
UI: UEV SELECTION	varies	Obsolete: do not use.

TABLE 39. Sterling Multi-Channel Selling Solution UI Properties

Property	Type	Comments
UI: UEV SPECIAL	string	Used by the user entered value control to enable a file list or notes control. This will be phased out and replaced by a new file attachment control and notes control in future releases: do not use.
UI: UEV STRING VALUE	string	Filled in by the engine when a string UEV has a value in it. This provides you with a way to reference the value of the field without assigning it to another property: see UI: UEV ASSIGNMENT PROPERTY to use another property.
UI: UEV TYPE	string	"string", "integer", or "numeric"; the type of UEV control.

- a. To add additional macros, define a new class that implements the IExpansionHandler interface, and put a reference to it into the object manager.

Display Properties

To Define Display Property Values

See "Display Properties" on page 91 for an explanation of display properties.

1. Navigate to and display the detail page for the model, option class, or option item.

See "To Access the Visual Modeler" on page 507 for information about how to navigate the model group hierarchy.

2. Click the **Display** tab.

This displays the display properties appropriate to the level.

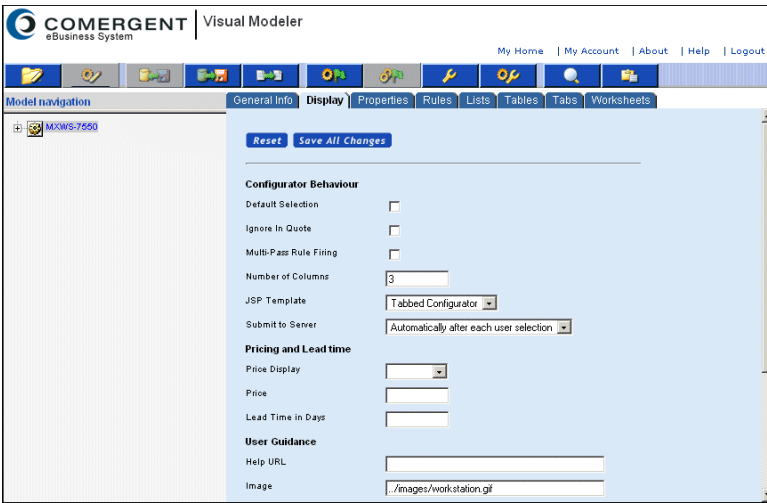


FIGURE 427. Display Properties

3. Edit the desired fields.

See Table 40 on page 655 for an alphabetical list of the properties, where they can be assigned, and what they mean. Because each display property corresponds to a UI property, the table also provides the name of the corresponding UI property, and further information about each UI property is provided in "Sterling Multi-Channel Selling Solution UI Properties" on page 644.

4. Click **Save All Changes**.

TABLE 40. Display Properties

Field Name/Property Name	Where Used	Description
Automatic Post/UI: AUTOMATIC POST	Model Option Class	Depending on the value you choose, this property specifies how posting is done: none: No update is performed when the customer selects an option item. update: An incremental update occurs when the customer selects an option item. final (default): A final update occurs when the customer selects an option item.
Constant Guiding Text/UI: CONSTANT GUIDING TEXT	Model Option Class	Used to add extra text to the displayed HTML page. This text is "constant", that is, it appears all the time, even after a selection is made. For example, guiding text for a configurable camcorder may state "Only lithium batteries type XYZ are compatible with this model."
Control/UI: CONTROL	Option Class	Enables you to determine how the option items are displayed: Radio button: Items appear as radio buttons. Customer can only select one. Checkbox: Option items will appear with check boxes; multiple selection allowed. Drop down list: Items appear in a drop-down list. Combobox: Items appear in drop-down list, but end-users can also type in a selection. Multiple Selection listbox: Items appear in a scrollable list from which the customer can make multiple selections. Display All Children: When you have nested option classes, nested classes appear with their option items visible (as opposed to option items only appearing when nested option classes are "picked"). User EnteredValue: Items appear as user-entered fields. Tabular Display: Items appear as rows in a table.

TABLE 40. Display Properties (Continued)

Field Name/Property Name	Where Used	Description
Default Selection/UI: DEFAULT SELECTION	Model Option Class Option Item	This property specifies that, if the user does not choose an entity in the option class, this entity (embedded model, nested option class, or option item) is automatically selected. You can use this property in conjunction with the Option Class Required special property. You can only assign it to one option item in an option class.
Display Template	Model	Select the type of user interface from the drop-down list: Tabbed UI or Non-tabbed UI. See "Working with a Tabbed User Interface" on page 556.
Help URL/UI: HELP URL	Model Option Class	Enables you to display a link (URL) to a page that has additional information about the model, option class, or option item.
Icon Graphic/UI: ICON GRAPHIC	Model Option Class	Provides the location (fully qualified path) of a GIF format file to be displayed next to this model, option class, or option item.
Ignore In Quote/UI: IGNORE IN QUOTE	Model Option Class Option Item	This special property is attached to option classes and option items that will not be transferred into the summary page when these option items are selected by the customer or through an expansion rule.
Lead Time/ UI: LEAD TIME	Model Option Class Option Item	Enables you to specify a lead time between when a customer orders a product that includes this item and when that product can be expected to ship.
Option Class Required/UI: OPTION CLASS REQUIRED	Option Class	Enables you to specify whether or not a customer must make a selection in that option class to complete the configuration. Customer must select one of the option items to complete the configuration.

TABLE 40. Display Properties (Continued)

Field Name/Property Name	Where Used	Description
Option Class View/UI: OPTION CLASS VIEW	Option Class	<p>Determines (1) if the items in this option class are displayed, and (2) if the pop-up quantity is displayed next to the option item.</p> <p>Popup: When the customer clicks the drop-down arrow, the line is expanded to display all items.</p> <p>Popup-qty: Customer types in a number in the quantity field. The entered value influences the quantity of option items that are ordered for this option class.</p> <p>Invisible: Option class and its items are not displayed to the customer. This is typically used for an automatic expansion when the customer does not need to know about the added option items that are part of the configuration. For example, if a customer orders a special wheel, then invisible option items may include nuts and bolts that are included with the special wheel.</p>
Popup-Qty Values/ UI: POPUP-QTY ALLOWED VALUES	Option Class	Enables you to set quantity for that item. The quantities specified appear as possible selections in a quantity box next to the item.
Post-Pick Guiding Text/UI: POST PICK GUIDING TEXT	Model Option Class	Used to add extra text displayed on the HTML page after the customer has made a selection. For example, a model of a computer has an option class called "Operating System", and that option class has an option item called "Windows 2000". Post-pick guiding text for that option item might be "Windows 2000 requires a minimum of 256MB of RAM; make sure the amount of RAM you select is at least 256MB".
Pre-Pick Guiding Text/UI: PRE PICK GUIDING TEXT	Model Option Class	This special property is assigned at the option class level, and is used to add extra text that is displayed on the HTML page. The text disappears once a selection is made. For example, pre-pick guiding text for a CPU option class of a configurable computer may state "Choose a Processor". Once a processor is chosen, the text disappears.
Prevent Selection of Items Resulting in Constraint Errors/ UI: PREVENT SELECTION	Option Class	<p>Enables you to prevent a customer from selecting items in this class that are incompatible with items in another class (based on an option constraint table).</p> <p>If the Constraint Selections display property is set to "Hide constrained items", then this property is set to "yes".</p> <p>If Option Class Required is selected, then you cannot check this box.</p>

TABLE 40. Display Properties (Continued)


Field Name/Property Name	Where Used	Description
Pricing Style/UI: PRICING STYLE	Model Option Class	<p>This special property enables you to specify how option class items will display price information. There are three possible values:</p> <p>none: If you assign this property with the value <i>none</i>, then the option class' items are displayed without any pricing information.</p> <p>delta: If you assign this property with the value delta, then the option items display pricing information in relation to the total base price of the configurable product.</p> <p>When end-users first see the option class, they see the option items with prices as "Add \$xxx.xx", meaning "selecting this item adds this amount to the current configuration price of the model." Once the end-user selects an option item, the other option items will show either "Add \$xxx.xx" or "Subtract \$xxx.xx", depending on how choosing those option items will affect the price.</p> <p>absolute: If you assign this property with the value <i>absolute</i>, then the option items display pricing information as the total cost of that item. This kind of pricing information is not relative to any base price. It is simply the cost of that item.</p>
Price/UI: PRICE	Model Option Class Option Item	<p>This special property enables you to assign a specific price to the item. This property is used to attach a price to a model if your model, option class, or option item is not associated with a product ID (see "To Associate a Product with a Model, Option Class, or Option Item" on page 518).</p> <p>Note that prices assigned to option items in this way are not preserved when the configured product is returned to a cart.</p>
Return From Submodel/ CONFIG: SUBMODEL RETURN	Option Item	Setting this property to "no" allows end users to transition from one model to the next. If a user returns to a model, all selections and derived properties are reset.
User Entered Value Type/UI: UEV TYPE	Option Item	This property is displayed only if you selected "User entered value" for the Control display property of the option class to which the item belongs. This property enables you to define the type: string , integer , or numeric .
User Entered Value Prefix/UI: UEV PREFIX	Option Item	This property is displayed only if you selected "User entered value" for the Control display property of the option class to which the item belongs. This enables you to provide a text string that precedes a user-entered value (For example, "\$").

TABLE 40. Display Properties (Continued)

Field Name/Property Name	Where Used	Description
User Entered Value Postfix/UI: UEV POSTFIX	Option Item	This property is displayed only if you selected "User entered value" for the Control display property of the option class to which the item belongs. This enables you to provide a text string that follows any user-entered values (for example, "inches", "feet", and so on).
User Entered Value Allowed Values/UI: UEV ALLOWED VALUES	Option Item	This property is displayed only if you selected "User entered value" for the Control display property of the option class to which the item belongs. This property enables you to define a comma-delimited list of values for numbers (1-3, 5, 9, 10-12, and so on). For strings, you can enter the name of a list property.
Validate Submodel/CONFIG: VALIDATE SUBMODEL	Option Item	This setting ensures that the submodel is correctly configured in nested configuration scenarios. Use Validate Submodel in conjunction with the Submodel Return property. The default behavior is not to validate a submodel configuration after returning to a parent model. When you set this property to "yes" and the Return From Submodel property to "yes", the submodel configuration will be validated after the user returns to the parent model and is configuring the parent or sibling. Consider using this setting carefully as there can be performance issues.

Tabular Display of Properties

To help users choose between two or more option items in an option class, it is often helpful to display one or more properties for each option item in the form of a table. For example:



CPU
Dual processor capable motherboard, supporting Intel processors

Name	Processor Speed	Volume Purchase	Lead Time
Intel Pentium III 733MHz Processor	733.0	0.0	0.0
Intel Pentium III 800MHz Processor	800.0	500.0	5.0
Intel Pentium III 866MHz Processor	866.0	1000.0	15.0

FIGURE 428. Example Tabular Display of an Option Class

You cannot use the tabular display for pickable option items. Use tabular displays with another option class that allows users to make a selection.

To Display Properties in a Tabular Form

1. Navigate to the option class whose option items you want to display in a tabular form.
2. Either:
 - a. Click the **Display** tab.
 - b. Select Tabular Display from the Control drop-down list.
 - c. Click **Save All Changes**.

Or:

 - a. Click the **Properties** tab.
 - b. Select UI: CONTROL from the Unattached Properties drop-down list and enter "controls/displayProps.jsp" as its value.
 - c. Click **Attach**.
3. Select UI: COLUMN HEADINGS from the Unattached Properties drop-down list and enter a semi-colon delimited list of headings as its value.
For example, "Size;Weight;Color".
4. Click **Attach**.

5. Select UI: COLUMN PROPERTIES from the Unattached Properties drop-down list and enter a semi-colon delimited list of the property names as its value.

For example, "Monitor Size;Monitor Weight;Monitor Color".

You can use property values as described in "Properties as Variables" on page 579 to help you display the values of properties exactly as you need.

To Display Properties in a Tabular Form

1. Navigate to the option class whose option items you want to display in a tabular form.
2. Either:
 - a. Click the **Display** tab.
 - b. Select Tabular Display from the Control drop-down list.
 - c. Click **Save All Changes**.

Or:

 - a. Click the **Properties** tab.
 - b. Select UI: CONTROL from the Unattached Properties drop-down list and enter "controls/displayProps.jsp" as its value.
 - c. Click **Attach**.
3. Select UI: COLUMN HEADINGS from the Unattached Properties drop-down list and enter a semi-colon delimited list of headings as its value.

For example, "Size;Weight;Color".
4. Click **Attach**.
5. Select UI: COLUMN PROPERTIES from the Unattached Properties drop-down list and enter a semi-colon delimited list of the property names as its value.

For example, "Monitor Size;Monitor Weight;Monitor Color".

You can use property values as described in "Properties as Variables" on page 579 to help you display the values of properties exactly as you need.
6. Click **Attach**.

General Info

Display

Properties

Rules

Unattached Properties

Name	Value	Action
CONFIG: FIRST FIRE		<div>Attach</div>

Reset

Save All Changes

Attached Properties

Name	Value	Action
UI: COLUMN HEADINGS	Monitor size (in inches),Monitor weight (in kg),Color	<div>Remove</div>
UI: NUMBER OF COLUMNS	2	<div>Remove</div>
UI: CONTROL	controls/displayProps.jsp	<div>Remove</div>
UI: COLUMN PROPERTIES	Monitor Size,Monitor Weight,Monitor Color	<div>Remove</div>

Reset

Save All Changes

FIGURE 429. Defining Tabular Display Properties

Note that the number of columns in the table is inferred from the number of properties you define in the UI: COLUMN PROPERTIES property.

7. Click **Save All Changes**.
8. If you now click **Test**, then you can verify that the option class is now presented as a table with one row for each option item and one column for each property specified.

Image Properties

You can associate images with models, option classes, and option items as described in this section.

Models and Option Classes

Use the Icon Graphic field on the **Display** tab for models and option classes. This corresponds to the UI: ICON GRAPHIC property.

Option Items

You can attach images to option items and display them to end-users using the UI: ITEM IMAGE NAME property to specify an image for each option item. You must set the UI: SHOW ITEM IMAGES property to be “true” at the option class level.

The value of the UI: ITEM IMAGE NAME can be interpreted as a relative URL or as an absolute URL:

- If you enter "2of4stars.gif" or "../images/2of4stars.gif", then the image will be displayed by resolving the image location to:

`http://server:port/Sterling/en/US/images/2of4stars.gif`

- You can use absolute URLs to point to different locations anywhere on the Web. This is particularly useful if you use a different Web server to serve up static content for your Web site. For example:

`http://imageserver:port/configurator/images/2of4stars.gif`

User-Entered Values

You can allow your customers to type in values for a configurable product's options. For example, you may want to let customers enter a color that is not one of the pre-defined colors in a model, or you may want to let them enter a product ID for a product that is not in your product catalog, but which you can fulfil by special order.

The User Entered Value properties, described in Table 40 on page 655, enable customers to type in values. For example, suppose that you have a configurable product and you want to let the user specify their own choice of color. Do the following:

1. Navigate to the model and click **Edit**.
2. Click **New Option Class**.
3. In the Name field, enter "Custom Color Class".
4. In the Description field, enter "Enter your preferred color".
5. Click **Save**.
6. Click the **Display** tab.
7. Set the Control display property to "User Entered Values".
8. Check the **Ignore in Quote** check box.
9. Click **Save All Changes**.
10. Click the **General Info** tab.
11. Click **New Option Item**.
12. In the Name field, enter "Custom Color Item".
13. In the Description field, enter "We will provide a color match before shipping."
14. In the Navigation panel, navigate to the Custom Color Item option item.

15. Click the **Display** tab.
16. Select String, Integer, or Numeric from the **User Entered Value Type** drop-down list.
17. Click **Save All Changes**.
18. Click **Compile**.

You can use user-entered values in rules by referring to the appropriate UEV property: UEV: NUMERIC VALUE (for Integer or Numeric values) or UEV: STRING VALUE (for String values).

UI Control Reset Behavior

Some UI controls allow the user to reset (clear) a selection and start over. A Clear button displays in the configuration UI by default to enable this reset behavior. The following table summarizes the default behavior of the Clear button in UI controls.

TABLE 41. Behavior of Clear Button in UI Controls

UI Control	Default View	Default Selection	Allowed User Action
Checkbox	Displays all values.	The model's default selections are checked. If there is no default value, nothing is checked.	Check or uncheck values. Clicking Clear checks the default value. If there is no default value, clicking Clear clears all values.
Radio Button	Displays all values.	The model's default selection is selected. If there is no default value, nothing is selected.	Check or uncheck values. Clicking Clear selects the default value. If there is no default value, clicking Clear clears all values.
List Box	Displays all values.	The model's default selection is selected. If there is no default value, nothing is selected.	Select any value in the list box. Clicking Clear selects the default value. If there is no default value, clicking Clear clears all values.
Multiple Selection List Box	Displays all values.	The model's default selections are selected. If there is no default value, nothing is selected.	Select or unselect any value. Clicking Clear selects the default value. If there is no default value, clicking Clear clears all values.
Display All Children	Displays all values.	No default selection.	User cannot take any action.

TABLE 41. (Continued) Behavior of Clear Button in UI Controls

UI Control	Default View	Default Selection	Allowed User Action
Drop-down List	Displays all the values in the drop-down.	The model's default selection is selected. If there is no default value, nothing is selected.	Select any value in the drop-down list. Clicking Clear selects the default value. If there is no default value, clicking Clear clears all values.
Dynamic Instantiation	Nothing displays.	No default selection.	User cannot take any action.
Tabular Display	Nothing displays.	No default selection.	User cannot take any action.
Single-Select Tabular Display	Displays all values and a Reset button.	The model's default selection is selected. If there is no default value, nothing is selected.	Select any value. Clicking Clear selects the default value. If there is no default value, clicking Clear clears all values. Clicking Reset clears all values.
Multi-Select Tabular Display	Displays all values.	The model's default selection is selected. If there is no default value, nothing is selected.	Select or unselect value(s). Clicking Clear selects the default value. If there is no default value, clicking Clear clears all values.
Tabular Display with Quantity Box Selection	Displays all values with quantity boxes.	The model's default selection is selected. If there is no default value, nothing is selected.	The user cannot take any action.
User Entered Values	Displays all with text boxes.	No default selection.	Enter values. Clicking Clear clears all values.

This chapter covers tasks that are performed by enterprise or Sterling Partner.com partner employees to administer the Sterling Pricing application. Check with your system administrator to see if this application has been installed as part of your implementation of the Sterling Multi-Channel Selling Solution.

Note:	You can set a business rule so that price lists are used for entitlement only. This means that price lists assigned to partners define only the products the partners are entitled to purchase, not the prices for those products. Prices are obtained from an external source rather than the price lists. See CHAPTER 39, "Business Rules Administration".
--------------	--

See "Setting Prices for Products" on page 22 for an overview of Pricing in the Sterling Multi-Channel Selling Solution. See CHAPTER 20, "Advanced Pricing Administration" for tasks associated with order level pricing.

- "To Search for a Price List" on page 668
- "To Create a Price List" on page 676
- "To Modify a Price List" on page 678
- "To Delete a Price List" on page 679
- "To Duplicate a Price List" on page 679
- "To Import a Price List" on page 679


- "To Set Prices for Products as a Mass Update" on page 683
- "To Set Prices for Individual Products" on page 685
- "To Set Conditional Prices for a Product" on page 687
- "To Download Pricing Information for All Products in a Price List" on page 690
- "To Assign a Price List to a Partner using Sterling Profile Manager" on page 691
- "To Assign a Price List to All Partners Using Sterling Pricing" on page 692
- "To Unassign a Price List from All Partners Using Sterling Pricing" on page 693

Searching for and Displaying Price Lists

To Search for a Price List

1. Click **Price Lists** in the Pricing Administration panel on the Sterling Multi-Channel Selling Solution home page.

The Price List Search Page displays (see Figure 430 on page 669).


Price Lists

[My Home](#) | [My Account](#) | [About](#) | [Help](#) | [Logout](#)

Price Lists

Find:

Price List Name

All price lists shown

[Previous](#)
[Next](#)

Price List Name	Starting Date	Ending Date	Currency	Customer Type	Supplier	Status	
Enterprise Master List	1/17/2001	10/4/2010	USD	General	Enterprise	Active	Delete
Euro	1/17/2001	7/25/2007	EUR	General	Enterprise	Active	Delete
For Coca Cola	1/17/2001	10/4/2010	USD	General	Coca Cola	Active	Delete
France	1/17/2001	5/12/2005	FRF	General	Enterprise	Active	Delete
Germany	1/17/2001	8/21/2006	DEM	General	Enterprise	Active	Delete
Government	1/17/2001	10/6/2003	USD	Government	Enterprise	Active	Delete
High Technology	1/17/2001	10/6/2003	USD	High Technology	Enterprise	Active	Delete
Japan	1/17/2001	5/1/2008	JPY	General	Enterprise	Active	Delete
North Sea Tech. Yankee	1/17/2001	10/6/2003	USD	High Technology	Enterprise	Active	Delete
North Sea Tech. Eastern Division	1/17/2001	10/6/2003	USD	High Technology	Enterprise	Active	Delete

FIGURE 430. Price List Search Page

2. Search for the price list(s).
 - a. Enter search criteria. You can use an asterisk (*) wild card character with all criteria to perform a wild card search.

TABLE 42. Price List Search Fields

Field	Description
Price List Name	Enter the name of the price list.
Effective Date	You can search for price lists by specifying an effectivity date. Only those price lists that are effective on that date are displayed. Click the calendar icon to select the date you want.
Currency	You can search for price lists by one or more currency.
Customer Type	You can search for price lists by one or more customer types:
Status	You can search for either active or inactive price lists or include both in your search.

b. Click **Search**.


You can also click **Show All** to display all the price lists in the system or you can click **Advanced Search** to perform a more custom search for a price list. See "Advanced Search for Price Lists" on page 674 for more details.

The search results are displayed as a list on the Price List Search page.

Note: Partner administrators will only see price lists created by partner administrators in their own organization.

- 3. In the list of results, find the list whose details you want to view.
- 4. In the Price List Name column, click the name of the price list to view its details.

This displays the Price List Detail page for that list.

Price Lists

My Home | My Account | About | Help | Logout

Enterprise Master List

[Go to Price Lists](#)

Edit Header | Edit Items | Assign Products | Mass Update | View Organization Assignments

Make a duplicate of this price list by using the Copy button. The Download button provides the ability to download this price list as tab delimited file. After changing price list header information save changes using the Save button. Click on the Assign All button to assign this price list to all organizations in the system. Click on the Unassign All button to remove all current assignments of this price list.

Assign All | Unassign All | Download | Copy | Save

Price List Header

*Required Fields

* Name:

Enterprise Master List

Description:

Enterprise Master List

* Currency:

USD

* Customer Type:

General

* Supplier:

Enterprise

Assign...

* Starting Date (M/D/YYYY):

1/17/2001

17:00

* Ending Date (M/D/YYYY):

10/4/2010

15:00

Active:

☒

FIGURE 431. Price List Detail Page

The Price List Detail page comprises the following tabs:


- **Edit Header:** this tab displays header information about the price list:

TABLE 43. Header Fields

Field	Description
Name	Each price list must have a unique name. The price list name is displayed on the Price List Display page.
Description	This provides a brief description of the price list and its purpose.
Currency	The currency used in all of the prices of this price list. You cannot mix currencies in a price list.
Customer Type	The type of customer (Education, Commercial) for this price list.
Supplier	The partner key of the supplier for this price list. Enterprise administrators can accept the default value ("1") or enter a partner key for any storefront partner. Storefront administrators will see this field pre-populated with their partner key and they cannot change it.
Starting Date	You can specify dates within which a price list is available. Click the calendar icon to select the dates you want.
Ending Date	
Active	Check the box to make the price list active. You can assign an inactive price list to a partner, but the partner cannot see prices from an inactive list.

You can also download the price list in the form of a text file by clicking **Download**, and make a copy of the price list by clicking **Copy**.

- **Edit Items:** use this tab to change prices of products that are already on the price list. You can search for a specific product or for products that belong to a specific product category.



Price Lists

[My Home](#) | [My Account](#) | [About](#) | [Help](#) | [Logout](#)

Enterprise Master List

[Go to Price Lists](#)

Edit Header

Edit Items

Assign Products

Mass Update

View Organization Assignments

Find:

Category

Search

Select appropriate search criteria to find price list items. Partial entries for searches by Product ID are supported. Search by Product Category displays all price list items belonging to specified product category. Use Delete button to delete selected products from the price list. After changing prices save changes using the Save button.

Delete


Save

[Previous](#) [Next](#)

<input type="checkbox"/>	Product ID	Product Name	Start Date	End Date	Supplier	List Price	+/- in %	+/- in Abs.	Price
<input type="checkbox"/>	Creative-MuVO128	Muvo MP3 player				89.95			89.95000
<input type="checkbox"/>	Inspiron 8600	Dell Inspiron 8600				1499.01			1,499.01000
<input type="checkbox"/>	Ipod Mini	Mini IPOD				199.95			199.95000
<input type="checkbox"/>	MS-MSBP	Netscape Navigator 6.0				20			20.00000
<input type="checkbox"/>	MSG-32A	Memory Stick Media 32MB				49.95			49.95000

FIGURE 432. Price List Detail Page: Edit Items Tab

- **Assign Products:** use this tab to add products to the price list. You can search for a specific product or for products that belong to a specific product category.



Price Lists

[My Home](#) | [My Account](#) | [About](#) | [Help](#) | [Logout](#)

Enterprise Master List

[Go to Price Lists](#)

Edit Header

Edit Items

Assign Products

Mass Update

View Organization Assignments

Find:

Category

Search

☒ View Unassigned Only

Select appropriate search criteria to find products you want to add to this price list. Partial entries for searches by Product ID are supported. Search by Product Category displays products belonging to specified product category. Use Assign button to add selected products with corresponding prices to the current price list.

Assign

<input type="checkbox"/>	Product ID	Product Name	Start Date	End Date	Supplier	List Price	+/- in %	+/- in Abs.	Price
No Rows Found									

[Back to Top](#)

FIGURE 433. Price List Detail Page: Assign Products Tab

- **Mass Update:** use this tab to perform bulk operations on the price list. For example, you can increase the prices on the price list by a fixed or percentage amount.

COMERGENT | Price Lists
eBusiness System

[My Home](#) | [My Account](#) | [About](#) | [Help](#) | [Logout](#)

Enterprise Master List [Go to Price Lists](#)

[Edit Header](#) | [Edit Items](#) | [Assign Products](#) | **Mass Update** | [View Organization Assignments](#)

Perform changes on all or only a selective set of price list items. First define the scope of the mass update, selecting the entire price list or price list items belonging to a product category. The 'Delete' button removes all price list items in scope and saves the changes. The 'Update' button executes defined mass adjustments to all price list items in scope and saves changes.

Scope

☐ Entire Price List

☒ Category [Browse...](#) ☐ Apply to child categories

Prices

For each price list item in scope:

Delete price list items [Delete](#)

Modify List Price by [Update](#)

☐ replacing the current value with

☒ incrementing/decrementing the current value by %

FIGURE 434. Price List Detail Page: Mass Update Tab

- **View Organization Assignments:** use this tab to view the assignment of this price list to partners.

COMERGENT eBusiness System | Price Lists

My Home | My Account | About | Help | Logout

Enterprise Master List [Go to Price Lists](#)

[Edit Header](#) | [Edit Items](#) | [Assign Products](#) | [Mass Update](#) | [View Organization Assignments](#)

Find:

Profile Name [Search](#) [Show All](#)

The following is a list of all the Organizations to which this Price List is assigned. You can filter the list by using the search box above. You can also sort the results by clicking on any of the column headings

Previous [Next](#)

Profile Name ↕	Commerce	Profile Type	Profile Level
A1	Direct	Distributor	Platinum
AMT Systems	Direct	Reseller	Gold
ARCnet Group	Direct	Reseller	Gold
AffinityNet	Direct	Reseller	Gold
Archer Technologies	Direct	Systems Integrator	Gold
Banana Republic	Direct	Retailer	Platinum
Call Center - EMEA	Direct	Enterprise	Enterprise
Call Center - NA East	Direct	Enterprise	Enterprise
Call Center - NA West	Direct	Enterprise	Enterprise
Commerce One Partner	Direct	OEM	Platinum

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FIGURE 435. Price List Detail Page: View Organization Assignments Tab

You can use a business rule to set the number of rows that are displayed in the pricing list. See CHAPTER 39, "Business Rules Administration".

Advanced Search for Price Lists

By clicking **Advanced Search** on the Price List Search page, you can perform a more detailed search for a price list.

COMERGENT
eBusiness System

Administration

[My Home](#) | [My Account](#) | [About](#) | [Help](#) | [Logout](#)

Price List Search

Search for price lists by defined criteria. Partial entries and wild card character (*) is supported for fields Price List Name, Profile Name and Product ID.

[Go to Price Lists](#) [Submit](#)

Find Price Lists by name, profile associated, product assigned

Price List Name:

Profile Name:

Product ID:

Status:

Currencies

Customer Type

Find Price Lists by effective date range

Starting Date: MM/YYYY

Ending Date: MM/YYYY

FIGURE 436. Price List Advanced Search Page

You can search using the following criteria:

TABLE 44. Price List Advanced Search Criteria

Criteria	Comments
Price List Name	<p>Enter a string. You can use * to denote a wild card.</p> <p>The search will return all price lists whose name matches the search string.</p> <p>For example, if you enter Com*, then price lists with names such as Commercial and Communications are found.</p>
Partner Name	<p>Enter a string. You can use * to denote a wild card.</p> <p>The search will return all price lists that are assigned to a partner whose name matches the search string.</p>
Price List Status	Select Active, Inactive, or Active and Inactive.
Product ID	<p>Enter a product ID. You can use * to denote a wild card.</p> <p>The search returns all price lists that have a product whose product ID matches the search string.</p> <p>For example, if you enter MXWS*, then price lists with products such as MXWS-7500 and MXWS-OLP are found.</p>

TABLE 44. Price List Advanced Search Criteria (Continued)

Criteria	Comments
Customer Type	Select one or more customer types. Price lists with these customer types are returned.
Currencies	Select one or more currencies. Price lists with these currencies are returned.
Effectivity Dates	<p>Enter a Starting Date, Ending Date, or both.</p> <p>If you specify only a Starting Date, then all price lists whose start date is before the specified Starting Date are returned.</p> <p>If you specify only an Ending Date, then all price lists whose end date is after the specified Ending Date are returned.</p> <p>If you specify both, then all price lists that are effective between the your specified dates are returned. Note that price lists must be effective for the entire interval.</p>

If you provide more than one search criteria, then the search returns only those price lists that match all the specified criteria.

Managing Price Lists

You must have the appropriate administrative functions in order to perform these tasks:

- "To Create a Price List" on page 676
- "To Modify a Price List" on page 678
- "To Delete a Price List" on page 679
- "To Duplicate a Price List" on page 679
- "To Import a Price List" on page 679

To Create a Price List

1. Click **Price Lists** in the Pricing Administration panel on the Sterling Multi-Channel Selling Solution home page.
2. On the Price List Search page, click **New Price List**. This displays the Price List Detail page.

The screenshot shows the 'New Price List' page in the Sterling Commerce system. The 'Edit Header' tab is selected. The form contains the following fields:

- Name:** Text input field.
- Description:** Text input field.
- Currency:** Dropdown menu.
- Customer Type:** Dropdown menu.
- Supplier:** Text input field with 'Matrix Solutions Inc' entered.
- Starting Date:** Date input field with a time dropdown set to '0:00'.
- Ending Date:** Date input field with a time dropdown set to '0:00'.
- Active:** Check box.

Buttons for 'Create' and 'Cancel' are located at the top right. A 'Go to Price Lists' link is also present. The page includes navigation links like 'My Home', 'My Account', 'About', 'Help', and 'Logout'.

FIGURE 437. Price List Detail Page: Edit Header Tab

3. On the Header tab, enter the header information. See Table 43 on page 671 for a complete description of the fields on this page.
4. Click **Create**.
5. If desired, add products from the product hierarchy as follows:

- a. Click **Assign Products**.

- b. Search for the product or product category that you want to add to the price list. Click **Search**.

The resulting products are displayed.

- c. Enter prices for each product.

- d. After you add a list price (or one-time price) for a product, you can optionally add auxiliary prices to the product as follows:

- Click the View/Assign auxiliary prices to the Product icon to the right of the product:



- The Price Types page displays.
- Click the check boxes to select the applicable auxiliary price types.
- Enter the prices for each auxiliary price.

- When you are finished adding auxiliary prices, click **Save**.
- Click **Return** to return to the price list. Note the change to the appearance of the View/Assign auxiliary prices to the Product icon.



- e. Check the check box next to the product IDs that you want to add to the price list. Click **Assign**.

The selected products are added to the price list.

You have several options for setting prices. See "Setting Prices for Products" on page 682 for these options and for step-by-step instructions.

To Modify a Price List

1. Search for the price list. See "To Search for a Price List" on page 668.
2. On the Price List Detail page Header tab, modify the header details as appropriate.

For example, you can modify the starting or ending dates or the status of the price list. See Table 43 on page 671 for a description of the fields.

3. Modify the list of products by adding or removing products as appropriate:
 - a. Add products by clicking the **Assign Products** tab and searching for products.
 - b. Modify products by clicking the Edit Items tab and searching for products whose prices you want to update. You can remove products from a price list by checking the check box next to their product ID and clicking **Delete**.
4. Modify individual prices, discounts, auxiliary prices, and +/- amounts as appropriate.

See "To Set Prices for Products as a Mass Update" on page 683

Note:	If you make changes to a price list while a customer is shopping, then the customer will not see the new prices until the customer updates the cart.
--------------	--

5. Save your changes by clicking **Save**.

To Delete a Price List

1. Search for the price list(s) you want to delete. See "To Search for a Price List" on page 668.
2. On the resulting Price List Search page, click **Delete** next to the price list to be deleted.

To Duplicate a Price List

1. Search for the price list(s) you want to duplicate. See "To Search for a Price List" on page 668.
2. Click the name of the price list to navigate to the Price List Detail page.
3. On the Header tab, click **Copy**.

A dialog box is displayed asking if you want to copy the partner assignments to whom the copied list(s) are currently assigned. Click **OK** to copy the assignments. Click **Cancel** to copy the price list(s) without copying the assignments.

Note:	If a price list is assigned to a partner and marked as “sharable”, then that price list is also assigned to any child partners of the partner to whom the price list is assigned. If you copy that sharable list and its assignments, then the assignments to the children are also copied. See "Making Price Lists Sharable with Child Profiles" on page 28 for an explanation of sharing price lists.
--------------	---

To Import a Price List

You can import a new price list or update an existing price list by posting an XML message as follows:

1. Create an XML message for price list import. It must conform to the PriceListImportRequest DTD. You can find this in the deployed Web application in the file: **debs_home/Sterling/WEB-INF/dXML/4.0/PriceListImportRequest.dtd**.

You must provide user authentication information in the RemoteUser element, and the price list itself is defined using the PriceList DTD to be found in the same directory.

2. You must provide the Name of the price list as the Name attribute of the PriceList element.

3. Provide the following information in the PriceListHeader element:

TABLE 45. PriceList Header Elements

Element	Description
Name	The name of the price list. If a price list with this name exists already, then it will be updated with the price list information provided in the XML message. If the price list name does not exist, then a new price list will be created with this name and the price list information to create new price list lines.
Description	A description of the price list.
Currency	The currency to be used for the price list. You must provide it in the standard abbreviated form: "USD", "GBP", and so on.
CustomerType	The customer type: it must be one of the valid customer types supported by your Sterling Multi-Channel Selling Solution. For example, the reference implementation supports "General", "Government", and so on.
StartDate	Provide this in the form: MM:DD:YYYY HH:MM:SS
EndDate	Provide this in the form: MM:DD:YYYY HH:MM:SS
Active	"0" denotes an inactive price list and "1" an active price list
SupplierID	Set this to the partner key of the supplier: "1" represents the Enterprise partner

A typical PriceListHeader element looks like this:

```
<PriceListHeader Action="Insert">
  <Description>This is my new price list</Description>
  <Currency>USD</Currency>
  <PartnerType>General</PartnerType>
  <StartDate>2003-01-01 00:00:00.0</StartDate>
  <EndDate>2003-12-31 23:59:59.999</EndDate>
  <Active>0</Active>
  <SupplierID>1</SupplierID>
</PriceListHeader>
```

4. Each Prices element provides the price(s) for a particular product, identified by the ProductID attribute. A typical Prices element looks like this:

```
<Prices ProductID="SKU_1234" StartDate="2003-01-01"
  EndDate="2003-09-30" Action="UpdateOrInsert">
  <Price ListPrice="100" PercentDiscount="-10"
    AbsoluteDiscount="5" />
  <QuantityTier From="100" To="190">
    <Price ListPrice="95" PercentDiscount="-10" />
  </QuantityTier>
```

```
<QuantityTier From="300" To="399">
  <Price ListPrice="90" AbsoluteDiscount="-5" />
</QuantityTier>
<QuantityTier From="400">
  <Price ListPrice="90" AbsoluteDiscount="-10" />
</QuantityTier>
<AuxiliaryPrice PriceTypeCode="5000">
  <Price ListPrice="10"/>
</Prices>
```

5. Using your preferred tool, post the XML message into the Sterling Multi-Channel Selling Solution using the standard message URL, for example:

`http://server:port/Sterling/msg/matrix`

- You must use POST rather than GET.
- Set the Content-type to “application/x-icc-xml”.
- The XML message must be the body of the request.

When a price list is imported using this process, the processing logic is as follows:

1. If the imported price list name already exists as the name of an existing price list, then the PriceListHeader element is used to update header information in the existing price list. Each Prices element is used to update or insert corresponding information:
 - a. First, the product ID, StartDate, and EndDate attributes are used to see if the Prices element matches an existing price list line:
 - If neither StartDate or EndDate attributes are defined, then the Prices element matches an existing line if the line has the same product ID and no start and end dates defined.
 - If the StartDate or EndDate attributes are defined, then the Prices element matches an existing line if the line has the same product ID and the date(s) specified in the attribute(s) are the same as the corresponding dates in the line.
 - b. If the Prices element does match an existing price list line, then the Price element is used to update the corresponding information in the line. If no such price list line exists, then a new line is inserted.
 - c. If a Prices element does match an existing price list line, and if it has any child QuantityTier elements, then any existing quantity tiers are removed and new quantity tiers are created as defined in the QuantityTier elements.

2. If the imported price list name does not exist as the name of an existing price list, then the PriceListHeader element is used to create a new price list. Each Prices element is used to insert a price list line into the new price list.

Setting Prices for Products

When you are creating or modifying a price list (see "Managing Price Lists" on page 676), you have several options for setting prices.

- Setting product prices by category

You set a price that is applied to each product in a product category. This is useful in cases where all the products in a product category are very similar products. See "To Set Prices for Products as a Mass Update" on page 683.

- Setting prices by individual product

You set a price for each product in the price list individually. See "To Set Prices for Individual Products" on page 685.

- Setting prices by price type

You can set a price that is applied to a particular auxiliary price type. See "To Set Prices for Products as a Mass Update" on page 683.

- Setting prices according to certain defined conditions

You can set prices for a category of products or for individual products that are in effect only when certain conditions are met. You can condition the prices on one or two options. For example, you might want to set a price for a product (or products) that is in effect only for OEMs who are rated Platinum level. See "To Set Conditional Prices for a Product" on page 687.

You can also assign multiple rules to one product. For example, you can create a rule based on partner type and partner membership level, and a second rule based on territory and approved customer types.

Note:	These rule options and auxiliary price types are set up during the Sterling Multi-Channel Selling Solution implementation.
--------------	--

Frequently, you will use a combination of these methods to define prices for your price lists.

Note:	<p>Before creating your price lists, you should consider how many decimal places will be required to store and display prices. For example, you may need to provide the unit price of some products to four decimal places. Sterling Pricing supports entering prices with an arbitrary degree of accuracy. The Scale attribute of the UnitListPrice DataElement determines this precision. By default, this is set to "2", but you can change its value as part of your implementation of the Sterling Multi-Channel Selling Solution. Whenever you are editing prices, you can enter this number of digits after the decimal point and this number is saved to the Knowledgebase. This precision is used to calculate all list and extended prices that are displayed to end-users.</p> <p>Prices that are displayed to end-users are truncated to a fixed number of decimal places. To change the number of decimal places displayed to end-users, you must change the Allowed Decimal Places system administration properties to be found under Application Settings. See CHAPTER 38, "Enterprise System Administration" for more information.</p>
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To Set Prices for Products as a Mass Update

When you are creating a price list ("To Create a Price List" on page 676) or once you have displayed a price list that you want to modify ("To Search for a Price List" on page 668), you can use the following procedure to set the prices for all the products, for one or more price types, or for all products that belong to the price list from a specific category. You can also remove all products from a price list or remove all products that belong to a product category (and its children).

1. On the Price List Detail page, click **Mass Update**.

The Mass Update tab is displayed.

COMERGENT | Price Lists
eBusiness System

My Home | My Account | About | Help | Logout

Enterprise Master List [Go to Price Lists](#)

Edit Header | Edit Items | Assign Products | **Mass Update** | View Organization Assignments

Perform changes on all or only a selective set of price list items. First define the scope of the mass update, selecting the entire price list or price list items belonging to a product category. The 'Delete' button removes all price list items in scope and saves the changes. The 'Update' button executes defined mass adjustments to all price list items in scope and saves changes.

Scope

☐ Entire Price List

☒ Category [Browse...](#) ☐ Apply to child categories

Prices

For each price list item in scope:

Delete price list items [Delete](#)

Modify List Price by [Update](#)

☐ replacing the current value with

☒ incrementing/decrementing the current value by %

FIGURE 438. Price List Detail Page: Mass Update Tab

2. Specify the scope of the update:
 - a. For all products currently on the price list: click **Entire Price List**.
 - b. For a product category: click the **Category** radio button. Browse for the desired product category by clicking **Browse ...** and use the Hierarchical Entity Picker to select the category. Check the **Apply to child categories** check box if you want to set the price for all products in child categories too.
 - c. For a price type: click the Price Types drop-down list to select a price type.
3. To enter a price to be applied to all products in the scope of the update.
 - a. Enter either a list price or specify a change to the current price. If you are entering pricing information for the first time (as shown in Figure 438 on page 684), then you must enter at least a List Price. You can specify price changes either as an absolute change in price based on the price list currency or as a percentage change.
 - b. Specify a change to the current percentage change.
 - c. Specify a change to the current absolute change.
 - d. Click **Update**.
4. To remove all the products in scope from the price list, click **Delete**.

At this point, you can define the individual prices for the products ("To Set Prices for Individual Products" on page 685) or you can define conditional prices ("To Set Conditional Prices for a Product" on page 687).

To Set Prices for Individual Products

When you are creating a price list ("To Create a Price List" on page 676) or once you have displayed a price list that you want to modify ("To Search for a Price List" on page 668), you can use the following procedure to set the prices for individual products assigned to a list.

1. Click **Assign Products**.

The screenshot shows the 'COMERGENT eBusiness System' interface for 'Price Lists'. The 'Enterprise Master List' is selected, and the 'Assign Products' tab is active. A search bar with a 'Find:' label contains a 'Category' dropdown and a 'Search' button. A checkbox for 'View Unassigned Only' is also present. Below the search bar, a message states: 'Select appropriate search criteria to find products you want to add to this price list. Partial entries for searches by Product ID are supported. Search by Product Category displays products belonging to specified product category. Use Assign button to add selected products with corresponding prices to the current price list.' An 'Assign' button is located below the message. A table with the following columns is shown: Product ID, Product Name, Start Date, End Date, Supplier, List Price, +/- in %, +/- in Abs., and Price. The table is currently empty, displaying 'No Rows Found'. At the bottom left, there is a 'Back to Top' link.

FIGURE 439. Price List Detail Page: Assign Products Tab

2. On the **Assign Products** tab, you can search for a particular product or you can browse for it using the ... button.
 - a. To search for a product:
 - Either select Product ID and enter the some or all of the product ID (use * as a wild card). Click **Search**. The search results are displayed on the price list.
 - Or select Category and click ... to browse for the category within which you want to search. Note that if you search for products within a category, then the results will not include child products of aggregated products in this category.

- b. To browse for a product, click Use the Hierarchical Entity Picker window to navigate to the product and select it. Click **Done**.

- c. Click **Search**.

The selected products are listed.

3. Define the pricing information.

If you are entering pricing information for the first time (as shown in Figure 433 on page 672), or you will be adding auxiliary prices, then you must first enter at least a List Price (or one-time price). Note that after you enter a one-time price for a product, you then enter auxiliary prices from the **Edit Items** tab. See "Managing Price Lists" on page 676

You can enter a Start Date and End Date for each price line item. See "Price List Line Item Effectivity Dates" on page 24 for more information on how price list line item effectivity dates are used.

If a price line item already exists for a product ID and you want to specify a different price for a particular date range, then you can clone the price line item as follows:

- a. Click the Copy line to define new effectivity dates icon.
- b. In the Clone Price List Item dialog box, enter a Start Date and End Date for the new price list item.

FIGURE 440. Clone Price List Item Dialog Box

- c. If there are quantity tiers and conditional prices associated with the price list item and you want to clone these as well, select the **Clone Quantity Tiers and Conditionals** checkbox.

- d. If there are auxiliary prices associated with the price list item and you want to clone the auxiliary prices as well, select the **Clone Auxiliary Prices** checkbox.
- e. Click **Clone**.
- f. Find the newly cloned price list item, and enter the list price.

You can enter a modification to the price expressed as either a percentage change or as an absolute amount. To enter a positive (+) number, simply enter the number. Do not add a plus (+) sign before the number. To enter a negative number, enter a minus (-) before the number (for example, -50). A positive (+) number represents the percentage or absolute amount to be added to the list price. A negative (-) number represents a percentage or absolute amount to be discounted from the list price.

4. Repeat these steps for each product whose prices you want to define.
5. Click **Assign**.

Conditional Pricing

You can set prices that depend on the user and their cart that further refine the prices that they see. If you create pricing rules for a product, then the pricing information you entered for each product ID in the **Assign Products** and **Edit Items** tabs will apply to customers who satisfy *none* of the pricing rules that you create for the product.

To Set Conditional Prices for a Product

When you are creating a price list ("To Create a Price List" on page 676) or once you have displayed a price list that you want to modify ("To Search for a Price List" on page 668), you can use the following procedure to set conditional prices for individual products. You can define quantity tiers and one or more one- or two-option rules that define certain conditions for prices.

1. On the Price List Detail page, click **Edit Items**.
The Edit Items tab is displayed.
2. Either search for the product or browse for it by clicking **Browse ...**.
3. Click on the **Rule** button for that product to open the Conditional Rules page.

COMERGENT eBusiness System | Price Lists

My Home | My Account | About | Help | Logout

Export Price List: MXWS-7510 [Return](#)

[Edit Quantity Tiers](#) [Edit Conditional Rules](#)

Make changes to quantity tiers and/or conditional rules and save changes by clicking on 'Save' or return back to price list lines by clicking on 'Return'

[Save](#)

#	From Qty	To Qty	List Price	+/- in %	+/- in Abs.	Price
1	1		749			749.0000
2						
3						
4						
5						
6						
7						
8						
9						
10						

FIGURE 441. Conditional Rules Page: Edit Quantity Tiers Tab

You can use this page to set volume discounts based on the quantity ordered and to set rules-based rule options. The rule options available to you are set up at implementation time. They may include options such as partner type and territory.

You cannot set volume discounts for the auxiliary prices associated with a product. The tiered pricing applied to the one-time price does not apply to the product's auxiliary prices.

4. To create quantity tiers:
 - a. Click **Edit Quantity Tiers**.
 - b. Enter quantity tiers for the product by entering **From Qty** values: these must be whole numbers and the **From Qty** value must increase.
 - c. Enter list prices for each tier and any pricing adjustments for each tier. As you enter each **From Qty** value, the **To Qty** of the preceding tier is calculated automatically.
 - d. Click **Save**.
5. To create conditional rules:
 - a. Click **Edit Conditional Rules**.

Export Price List: MXWS-7510 Return

Edit Quantity Tiers **Edit Conditional Rules**

Make changes to quantity tiers and/or conditional rules and save changes by clicking on 'Save' or return back to price list lines by clicking on 'Return'

Save

Profile Type	Profile Membership Level	+/- in %	+/- in Abs.
Distributor	Platinum		
Distributor	Gold		
Distributor	Silver		
Distributor	Tin		
Distributor	Not Applicable		
OEM	Platinum		
OEM	Gold		
OEM	Silver		
OEM	Tin		
OEM	Not Applicable		
Reseller	Platinum		
Reseller	Gold		
Reseller	Silver		
Reseller	Tin		
Reseller	Not Applicable		
Retailer	Platinum		
Retailer	Gold		
Retailer	Silver		

FIGURE 442. Conditional Rules Page: Edit Conditional Rules Tab

- b. Click on the **First Option** drop-down list and select the first rule option.

The options available to you were determined at the time of your Sterling Multi-Channel Selling Solution implementation.

- c. Click on the **Second Option** drop-down list and select the second rule option.

- To create a single option rule, select the blank option line.
- To create a double-option rule, select a rule option. Both options must be satisfied before the pricing rule is fired.

The options available to you were determined at the time of your Sterling Multi-Channel Selling Solution implementation.

- d. Edit the discount and the +/- amount (either as a percentage or as an absolute amount) for each row as desired.

To enter a positive (+) number, simply enter the number. Do not add a plus (+) sign before the number. To enter a negative number, enter a minus (-) before the number (for example, -50). A positive (+) number represents the percentage or absolute amount to be added to the list price. A negative (-) number represents a percentage or absolute amount to be discounted from the list price.

- e. Click **Save**.
6. Click **Return**.
7. On the Pricing List Detail page, click **Save**.

To see *all* the rules associated with all products in a price list, click **Download** in the Price List Detail page.

Downloading Pricing Information

You can download the pricing information with all the products on a price list.

To Download Pricing Information for All Products in a Price List

1. Find the price list you want to download.
See "To Search for a Price List" on page 668.
2. In the Price List Detail page Edit Header tab, click **Download**.
A text file containing all prices on the price list is generated and you are prompted to save the file to your local machine. If your browser displays the data in the browser window, then right-click the browser window and select **View Source**. In the text editor window, you can now save the data to your local machine. You can navigate back to the price list as described in "To Search for a Price List" on page 668.

Assigning Price Lists to Partners

Once you have created the price list, you make the prices available to users by assigning the price list to partners (and therefore to their users) through the partner profile. You can assign price lists to partners either through the Sterling Profile Manager or through Sterling Pricing:

- Use Sterling Profile Manager if you want to assign one or more price lists to a single partner. See "To Assign a Price List to a Partner using Sterling Profile Manager" on page 691.
- Use Sterling Pricing if you want to assign a price list to all your partners or if you want to unassign a price list from all partners. See "To Assign a Price List to All Partners Using Sterling Pricing" on page 692 and "To

Unassign a Price List from All Partners Using Sterling Pricing" on page 693.

Note: A partner administrator can assign price lists that they or another partner administrator for the same partner have created to child partners of their partner.

Only an *enterprise administrator* can assign price lists to enterprise partners. Therefore, after creating a price list, the partner administrator must notify an *enterprise administrator* if they want the price list to be assigned to an enterprise partner.

To Assign a Price List to a Partner using Sterling Profile Manager

1. Click Sterling Profile Manager on the Sterling Multi-Channel Selling Solution home page.
2. Search for a partner.

Enter the partner name, or enter search criteria such as the partner type or the first few letters of their name, then click **Search**, or click **Show All** to view all the partners.
3. Click on the partner name to display the Partner Profile Detail page.
4. Click **Pricelists**.

The Partner Manager page is displayed with a list of price lists.

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Profile Manager

My Home | My Account |

Organization Profile: SysPoint

Info | Addresses | Detail | Business | Hierarchy | Commerce | Assigned To | Pricelists | Product Entitlement

Notes

Select appropriate price list for assignment and click Save button to save changes. \$ indicates the price list inherited from parent.

[View Users](#) [View Account Activity](#) [Save](#)

Previous

Assign	Sharable	Price List Name	Starting Date	Ending Date	Currency	Customer Type	Supplier	Status
<input checked="" type="checkbox"/>	<input type="checkbox"/>	USA Distributor	1/17/2001	12/31/2010	USD	General	Matrix Solutions Inc.	Active
<input type="checkbox"/>	<input type="checkbox"/>	Telecommunications	1/17/2001	10/6/2003	USD	Telecommunications	Matrix Solutions Inc.	Active
<input type="checkbox"/>	<input type="checkbox"/>	Taiwan Distributor	1/17/2001	10/6/2009	TWD	General	Matrix Solutions Inc.	Active
<input type="checkbox"/>	<input type="checkbox"/>	Pricelist_unistor	1/17/2001	10/4/2010	USD	General	UNISTOR	Active
<input type="checkbox"/>	<input type="checkbox"/>	Pricelist_taiwantech	1/17/2001	10/4/2010	USD	General	TaiwanTech	Active
<input type="checkbox"/>	<input type="checkbox"/>	Pricelist_syspoint	1/17/2001	10/4/2010	USD	General	SysPoint	Active
<input type="checkbox"/>	<input type="checkbox"/>	Pricelist_paristech	1/17/2001	10/4/2010	USD	General	ParisTech	Active
<input type="checkbox"/>	<input type="checkbox"/>	Pricelist_omnitech	1/17/2001	10/4/2010	USD	General	OmniTech	Active
<input type="checkbox"/>	<input type="checkbox"/>	Pricelist_dataling	1/17/2001	10/4/2010	USD	General	DataLing	Active

FIGURE 443. Available Price Lists for a Partner

- Click in the check box next to the appropriate price list(s).

Note: You can assign an inactive price list to a customer. Inactive price lists have no effect on product prices until you activate the price list.

- If you want this price list to be automatically assigned to any partners beneath this partner in the partner hierarchy, then check the box in the Sharable column.

A dollar sign (\$) designates any list that is shared with a parent (and therefore automatically assigned to the current partner). However, you can still assign that price list to the child and mark it as sharable. This guarantees that the price list will still be assigned to the child (and to its children), even after the assignment is removed from the parent.

See "Making Price Lists Sharable with Child Profiles" on page 28 for an explanation of sharable price lists.

- Click **Update**.

The selected price lists are assigned to that partner.

To Assign a Price List to All Partners Using Sterling Pricing

- Navigate to the Price List Detail page for the price list.

2. On the Edit Header tab, click **Assign All**.

To Unassign a Price List from All Partners Using Sterling Pricing

1. Navigate to the Price List Detail page for the price list.
2. On the Edit Header tab, click **Unassign All**.

In addition to managing prices for products using price lists, you can also manage prices using pricing rules and coupons. These can manage discounts and special offers at the level of carts: as users add products to their carts, the prices of items reflect special offers based on the total value of items in the cart or on the combination of particular items chosen. If a user adds a coupon to their cart, then the rule associated with the coupon can apply a price change to a line item.

For example:

- *Buy one, get one free:* if you buy two of an item, then the second item is free.
- *Special offer for Gold distributors: 10% off if you buy more than \$1000.00 worth of items:* If you are a partner user that belongs to a distributor whose partner level is Gold, and if your cart total (before tax and shipping) is greater than \$1000, then the cart total is reduced by 10%.
- *Orders over \$150 qualify for free shipping:* if you buy products totalling \$150 or more, shipping charges are waived.

Note:	Coupons, cart-level discounts, and special offers apply only to the one-time price of a product.
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Pricing rules are managed using the rule administration pages described in "Pricing Rule Tasks" on page 698. Coupons are managed using the coupon administration pages described in "Coupon Administration" on page 707.

You can define pricing rules using features: this enables you to construct pricing rules along the lines of: *buy any of our wireless-ready laptops and get a carry case free*. Any cart containing a laptop that has the wireless-ready feature would satisfy this rule.

Overview

Price lists give you the ability to create rules that apply to a specific product ID. These rules are managed using the conditional pricing rules: see "Conditional Pricing" on page 687. This section describes rules that apply at the level of the cart.

Rule Types

Rules are specified by conditions and actions: when the condition of a rule is satisfied, then the corresponding action is taken: in the case of cart rules, these actions are pricing adjustments. Conditions are evaluated on the basis of the product IDs or, in the case of item quantity rules, features. Each cart rule is one of the following types:

- **Combination:** A combination rule is used to adjust the price of a target product ID if a certain combination of source product IDs is in the cart. Combination rules are only applied if the target product ID is already in the cart. Combination rules can require that certain quantities of product IDs are present: for example, buy five PCs and get a printer free.
- **Item Quantity:** these rules provide you the ability to specify quantity-tiered pricing for products. You can specify what price a product should sell for if the user buys more than a specified number of the product. The product can be specified by product ID or you can use features to select the products to which the rule applies.
- **Order Total:** these rules take an action if the total value of the cart (before shipping and tax) falls in a range. Typically, the action is to reduce the cart total by a percentage discount or by an absolute value specified in the currency of the rule.
- **Shipping Charge Order Total:** these rules provide discounts on shipping charges based upon order total. Discounts can be a fixed amount, a percentage, or a flat fee shipping charge. You can attach the Shipping

Charge Order Total rule to customer segments, and specify one or more shipping types, products, or product categories.

- **Item Shipping Surcharge:** these rules operate at the line item level to associate a shipping surcharge with items with a specified feature. For example, suppose that you want to charge an additional flat fee for shipping oversized items such as refrigerators. You can create a feature type called *Oversized*, then create an *Oversized: refrigerators* feature and associate it with all the refrigerators. When you create the item shipping surcharge rule, you attach the surcharge by selecting the *Oversized: refrigerators* feature.

When the rule applies to a product in the cart, the system multiplies the surcharge by the quantity of the product being purchased and adds the resulting amount to the shipping charge.

The range of totals for the order total rules is specified as an ascending set of tiers: if the total value of a cart falls in the range specified by a tier, then make the corresponding price adjustment.

These types of rules can be applied either to all carts or only to carts that meet certain additional constraints, such as the customer segment to which the owner of the cart belongs or the currency of the cart.

Any rule that uses absolute values in modifying product ID prices or cart totals can apply only to one currency. A rule that modifies product ID prices or cart totals by a percentage amount can apply to one currency or all currencies. Apply pricing rules only to users to whom the prices can be honored.

Coupons, cart-level discounts, and order-level pricing rules apply only to the one-time price, that is, the price that the customer pays when the product is ordered or shipped. Mixing combination, order total, or item quantity pricing rules with duration-based goods such as service contracts is not recommended. If mixing these types of rules with duration-based goods cannot be avoided, define the rules in the Visual Modeler during the service contract model configuration process. See "Rules" on page 587 for information about creating and working with rules in the Visual Modeler.

Coupons

The pricing rules described in "Rule Types" on page 696 are global: they apply to all carts and users do not have to do anything to have them modify the prices that they see in their carts. By contrast, coupons only modify the prices of items in carts if the user actively adds them to their cart.

When a user is viewing one of their carts, they can add a coupon to it by entering the coupon ID. A user can add one or more coupons to a cart. The coupon affects the price of items in the cart only if the user and cart meet the constraints defined for the coupon. When the pricing rules are applied, the rule associated with the coupon is also applied and, if it is valid for that cart, the rule modifies a line item price in the same way that other pricing rules do.

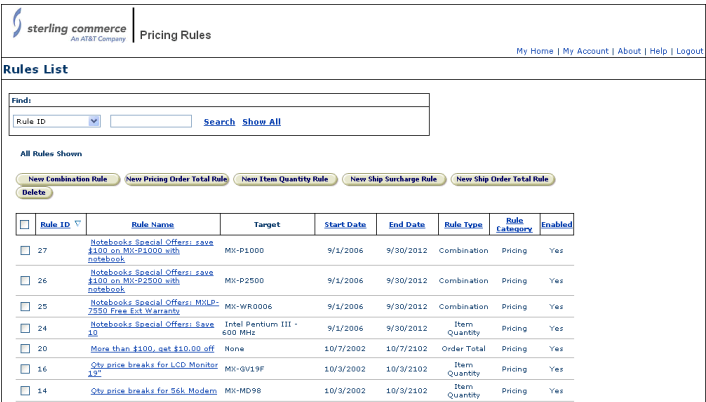
Pricing Rule Tasks

This section describes the main administration tasks associated with pricing rules.

To Search for a Pricing Rule

1. Click **Pricing Rules** in the Pricing Administration panel on the Sterling Multi-Channel Selling Solution home page.

The Rules List page displays.




<input type="checkbox"/>	Rule ID	Rule Name	Target	Start Date	End Date	Rule Type	Rule Category	Enabled
<input type="checkbox"/>	27	Notebooks Special Offers Save \$100 on MX-P1000 with notebook	MX-P1000	9/1/2006	9/30/2012	Combination	Pricing	Yes
<input type="checkbox"/>	26	Notebooks Special Offers Save \$100 on MX-P2500 with notebook	MX-P2500	9/1/2006	9/30/2012	Combination	Pricing	Yes
<input type="checkbox"/>	25	Notebooks Special Offers MSLP-7550 Free E&I Warranty	MS-WR0006	9/1/2006	9/30/2012	Combination	Pricing	Yes
<input type="checkbox"/>	24	Notebooks Special Offers Save \$3	Intel Pentium III - 600 MHz	9/1/2006	9/30/2012	Item Quantity	Pricing	Yes
<input type="checkbox"/>	20	More than \$100, get \$10.00 off	None	10/7/2002	10/7/2102	Order Total	Pricing	Yes
<input type="checkbox"/>	16	Qty price breaks for LCD Monitor 15"	MS-GV19F	10/3/2002	10/3/2102	Item Quantity	Pricing	Yes
<input type="checkbox"/>	14	Qty price breaks for 56k Modem	MS-MD98	10/3/2002	10/3/2102	Item Quantity	Pricing	Yes

FIGURE 444. Rules List Page

2. You can perform a quick search by Rule ID, Rule Name, Target Product ID, Target Feature, Effective Date, Rule Type, Rule Category, and Enabled by entering the appropriate search criteria and clicking **Search**. You can also click **Show All** to view all the pricing rules.

The Search Results page displays a list of all the pricing rules that meet your search criteria.



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Pricing Rules

My Home | My Account | About | Help | Logout

Rules List

Find:

Rule Type

Combination

Search

Show All

Search Results for Rule Type: Combination

New Combination Rule

New Pricing Order Total Rule

New Item Quantity Rule

New Ship Surcharge Rule

New Ship Order Total Rule

Delete

<input type="checkbox"/>	Rule ID ▾	Rule Name	Target	Start Date	End Date	Rule Type	Rule Category	Enabled
<input type="checkbox"/>	27	Notebooks Special Offers: save \$100 on MX-P1000 with notebook	MX-P1000	9/1/2006	9/30/2012	Combination	Pricing	Yes
<input type="checkbox"/>	26	Notebooks Special Offers: save \$100 on MX-P2500 with notebook	MX-P2500	9/1/2006	9/30/2012	Combination	Pricing	Yes
<input type="checkbox"/>	25	Notebooks Special Offers: MULTIP-2500 Free Ext. Warranty	MX-WR0006	9/1/2006	9/30/2012	Combination	Pricing	Yes
<input type="checkbox"/>	5	Free Video Editing software with High End Imaging set	MX-PWVE0121	10/3/2002	10/3/2102	Combination	Pricing	Yes
<input type="checkbox"/>	4	3rd Level discount on CPU866 with any processor	MX-1C866P	10/3/2002	10/3/2102	Combination	Pricing	Yes
<input type="checkbox"/>	3	MS Office 2000 discount if Excel and PPT	MX-MSO2K	10/3/2002	10/3/2102	Combination	Pricing	Yes
<input type="checkbox"/>	2	Ethernet Hub discount for Eth-net and S66504	MX-EHUB003	10/3/2002	10/3/2102	Combination	Pricing	Yes

FIGURE 445. Pricing Rules Search Results Page

To Create a Pricing Rule

- Click **Pricing Rules** in the Pricing Administration panel on the Sterling Multi-Channel Selling Solution home page.

The Rules List page displays.

- On the Rules List page, click:
 - New Combination Rule:** click to create a rule that changes the price of a target product ID based on a combination of products in the cart.
 - New Pricing Order Total Rule:** click to create a rule that changes the total charged to the customer based on the total of the cart.
 - New Item Quantity Rule:** click to create a rule that changes the unit price of a product ID based on the quantity being bought.
 - New Ship Surcharge Rule:** click to create a rule that changes the unit shipping cost of a product with a specified set of features.
 - New Ship Order Total Rule:** click to create a rule that changes the total shipping cost charged to the customer based on the order total.

This displays the Rule Detail page.

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Pricing Rules

[My Home](#) | [My Account](#) | [About](#) | [Help](#) | [Logout](#)

New Item Shipping Surcharge Rule: [Go to Rules List](#)

[Edit Header](#)

Enter new rule information or change existing information. Press the Save button to save the current changes. Press the Cancel button to reverse current changes.

Note: Negative absolute or percentage amounts indicate discounts while positive absolute or percentage amounts indicate markups.

[Save](#) [Cancel](#)

*Required Fields

General Rule Information

*Rule Name:

*Start Date (M/D/YYYY):

*Shipping Method:

Rule Description:

*End Date (M/D/YYYY):

*Customer Type:

Enabled: ☒

*Currency:

Rule Trigger

Select one or more features for the rule target. The surcharge will be applied to any product matching all target features.

*Target Feature: [Browse](#)

*Surcharge to Apply:

FIGURE 446. Rule Detail Page

3. Enter general rule information:

- a. A Rule Name and optionally a brief description of the rule in Rule Description. The rule description is what is displayed to the user as an explanation of the price adjustments.
- b. Check **Enabled**.
- c. Specify a Start Date and End Date for the rule.
- d. Shipping Method: if the rule is an item shipping surcharge rule or a shipping charge order total rule, select a shipping method from the drop-down list or select All if you want to apply the rule to apply to all shipping methods. All is the default.
- e. Customer Type: select All if you want the rule to apply to all types of customers or select a customer type from the drop-down list.
- f. Currency: if you specify absolute price adjustments, you must select a currency. To select All, you must check that you use only percentage adjustments everywhere in this rule.
- g. If the rule is a combination rule, specify the Target Product ID: You can either use the product picker or simply enter the product ID in the text field.

4. Set the rule targets: if the rule is an item quantity rule, then specify the target product ID or features. You can use the hierarchical entity picker to select the product IDs or features and enter them in the list box.
 - a. If you specify **Use Product ID**, then the target products are treated separately when the rule is evaluated. That is, if you specify products A and B as targets and you specify a quantity tier of five, and if a user has in their cart three of product A and three of product B, then neither product has the rule applied. If the user adds two more product A items, then product A will have the rule applied, but product B will not.
 - b. If you specify **Use Feature**, then the features are treated collectively when the rule is evaluated. That is, if you specify features F and G as targets and you specify a quantity tier of five, and if a user has in their cart five or more of a product that has both features F and G, then the rule is applied. However, the rule is not applied to a product that has only feature F even if there is another product in the same cart that has feature G.

FIGURE 447. Set Targets Panel

5. If the rule is a combination rule, specify how the rule will operate on products using the Rule Operation drop-down list:
 - Any Product specifies that the rule acts on the target product if any of the trigger products are in the cart.
 - All Products specifies that the rule acts only if all of the trigger products are in the cart.

FIGURE 448. General Rule Information Panel

6. Specify the amount of the discount or markup as a negative (for discount) or positive (for markup) amount.
7. If the rule is a combination rule or item quantity rule, then specify how the rule should be applied using the **Applies To** field:
 - Single Item: apply the pricing adjustment to just one occurrence of the target product ID or assigned feature.
 - All Items: apply the pricing adjustment to each occurrence of the target product ID or assigned feature.
 - Each Combination: apply the pricing rule for each occurrence of the combination of source product IDs.
8. Specify the condition for the rule action:
 - If the rule is an item quantity rule, specify the tiers and the price adjustment that applies at each tier. The price adjustment applies to the unit price of the line item.
 - If the rule is a combination rule, then specify the combination of source product IDs and quantities that must be present for the rule action to act on the source product ID. The price adjustment applies to the unit price of the line item.
 - If the rule is a cart total rule, then specify the tiers that effect the price adjustment. The price adjustment is to the order as a whole.

The tier value is the lower bound for the tier. Each tier value must be greater than the previous one: that is the tier value for tier 1 must be less than the tier 2 value which must be less than the tier 3 value, and so on. The tier 1 range is taken to be from the tier 1 value to the tier 2 value, the tier 2 range is between the tier 2 value and the tier 3 value, and so on. The last tier defined is the range from that tier value upwards without limit.

- If the rule is a shipping charge order total rule, select criteria for the rule and define one or more order total tiers, then specify the modifications to make to the shipping charges for that tier. The types of modifications are:
 - Absolute. For example, \$10 off.
 - Percentage. For example, 20% off.
 - Flat fee. The flat fee replaces the existing shipping charge.

The rule has no effect if you do not define tiers.

To apply the rule only when the order is flagged as Ship Complete, check the **Ship Complete Only** check box. Ship Complete Only is the default setting.

Rule Trigger

Enter tiered item Quantities that will cause the rule to fire and discount/markup the target item. Choose 'Single Item' to apply the discount/markup on a single unit of the target item. Choose 'All Items' to apply the discount/markup on each unit of the target item.

*Applies to:

#	Quantity	Type	Amount
(1)	2	Absolute	-51.0
(2)	4	Absolute	-134.0
(3)	8	Absolute	-285.0
(4)	16	Absolute	-324.0
(5)	32	Absolute	-351.0

#	Quantity	Type	Amount
(6)	64	Absolute	-402.0
(7)	128	Absolute	-498.0
(8)		Absolute	
(9)		Absolute	
(10)		Absolute	

FIGURE 449. Rule Trigger Panel for Item Quantity Rule

9. Click **Create**. The rule is created and the page re-displays with a new tab, **Target Customers**, similar to the following figure.

sterling commerce
An AT&T Company

Pricing Rules

My Home | My Account | About | Help | Logout

Shipping Charge Order Total Rule: More than \$100, get \$10 off on shipping cost

[Go to Rules List](#)

Edit Header

Target Customers

Enter new rule information or change existing information. Use the Target Customers tab to specify the customer segments to which the rule should be applied. Press the Save As New button to save the current information as a new rule. Press the Save button to save the current changes. Press the Cancel button to reverse current changes.

Note: Negative absolute or percentage amounts indicate discounts while positive absolute or percentage amounts indicate markups.

Save As New Save Cancel

*Required Fields

General Rule Information

*Rule Name: More than \$100, ge

*Start Date (M/D/YYYY): 10/31/200

*Shipping Method: Standard Shipping

Rule Description: Buy items worth more than \$100 and get \$10 off

*End Date (M/D/YYYY): 10/31/210

Ship Complete Only: ☒

Enabled: ☒

*Customer Type: --All--

*Currency: --All--

Rule Trigger

Enter tiered order total value(s) that will cause the rule to fire and set the corresponding discount/markup amount for that tier.

FIGURE 450. Rule Detail Page with Target Customers Tab

The rule does not apply to any users until you either associate one or more customer segments with it, or apply the rule to all users. See "To Apply a Rule to Users" on page 704 for details.

To Apply a Rule to Users

Rules do not become active until they apply to users. You can apply a rule to all users, or associate one or more customer segments with the rule.

1. On the Rule Detail page, click the **Target Customers** tab. The Target Customers page displays, similar to the following figure.

sterling commerce
An AT&T Company

Administration

My Home | My Account | About | Help | Logout

Shipping Charge Order Total Rule: More than \$100, get \$10 off on shipping cost [Go to Rules List](#)

Edit Header **Target Customers**

To apply to all users in the system, choose Applies to All Users.
To attach segments, use the Browse button to select segments from the picker, and then press the picker's Done button when selection is complete. Press the Save button to save your changes.
To detach a segment, click the Detach icon for that segment.

***Applies To**

☐ All Users

☒ Selected Customer Segments

Select Segments to attach: [Browse...](#)

[Remove](#)

[Save](#)

Segment Name	Description	Status	Start Date	End Date
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FIGURE 451. Rule Detail Page: Target Customers Tab

2. To apply this rule to all users, click the **All Users** radio button.
3. To apply this rule to one or more customer segments:
 - a. Click the **Selected Customer Segments** radio button.
 - b. Click **Browse...** to browse the list of available customer segments. A Segment Picker pop-up displays, similar to the following figure.

FIGURE 452. Segment Picker Pop-Up

You can search for segments by name or effective date. To delete a segment from your list, click the segment name, then click **Delete**.

- c. To select a customer segment, click the segment name. The segment name displays in the Segment Picker text box. When you finish selecting segments, click **Done**.
4. Click **Save**.

To Delete a Rule

There may come a time when you want to stop using a pricing rule. You can set its End Date to make it ineffective or you can delete the rule. If you delete a rule, then it will no longer be used to adjust prices in carts.

Note: If a user views a cart that previously had its total price affected by a pricing rule, and if the rule is deleted or becomes ineffective, then when the user next views the cart, they may see different prices.

1. Click **Pricing Rules** in the Pricing Administration panel on the Sterling Multi-Channel Selling Solution home page.
2. On the Rules List page, select the rule(s) that you would like to delete by checking the check box next to their Rule ID, and click **Delete**.

Coupon Administration

You create and modify coupons using the coupon administration pages. You can create coupons of the following types:

- Combination
- Item Quantity
- Order Total
- Shipping Charge Order Total

Users can add coupons to a cart before placing the cart as an order. When they add a coupon, the coupon is displayed as an additional line item in the cart. Its effect on the inquiry (such as applying a discount to the order) is displayed in the Amount column.

Note:	Coupons apply only to those carts that contain only products supplied by the enterprise. If a cart contains products supplied by more than one supplier, you cannot add a coupon to the cart.
--------------	---

To Search for a Coupon

1. Click **Coupons and Promotional Prices** in the Pricing Administration panel on the Sterling Multi-Channel Selling Solution home page.

The Coupons List page displays.

sterling commerce
An AT&T Company

Coupons

My Home | My Account | About | Help | Logout

Coupons List

Find:

Coupon ID [Search](#) [Show All](#)

All Coupons Shown

[New Combination Coupon](#) [New Order Total Coupon](#) [New Item Quantity Coupon](#) [New Ship Order Total Coupon](#) [Delete](#)

<input type="checkbox"/>	Coupon ID	Description	Target Product ID	Start Date	End Date	Type	Coupon Category	Enabled	Exclusive
<input type="checkbox"/>	SAVE20	Customer Appreciation Coupon: Platinum customers save 20% on orders of \$100 or more.	None	9/6/2006	9/30/2012	Order Total	Pricing	Yes	No
<input type="checkbox"/>	SAVE15	Customer Appreciation Coupon: Gold customers save 15% on orders of \$100 or more.	None	9/6/2006	9/30/2012	Order Total	Pricing	Yes	No
<input type="checkbox"/>	SAVE10	Customer Appreciation Coupon: Silver customers Save 10% on orders of \$100 or more.	None	9/6/2006	9/30/2012	Order Total	Pricing	Yes	No
<input type="checkbox"/>	QXD15009	Buy a CD-ROM drive and receive US\$10 rebate on any DVD drive!	MX-CD180D	10/3/2002	10/3/2102	Combination	Pricing	Yes	No
<input type="checkbox"/>	ORD0655	Receive a 5% rebate on Order If you purchase more than US\$200.00	None	10/3/2002	10/3/2102	Order Total	Pricing	Yes	No

FIGURE 453. Coupons List Page

- You can perform a quick search by Coupon ID, Target Product ID, Effective Date, Type, Coupon Category, Enabled, and Exclusive by entering the appropriate search criteria and clicking **Search**. You can also click **Show All** to view all the coupons.

The Search Results page displays a list of all the coupons that meet your search criteria.

sterling commerce
An AT&T Company

Coupons

My Home | My Account | About | Help | Logout

Coupons List

Find:

Coupon ID SAV* [Search](#) [Show All](#)

Search Results for: SAV*

[New Combination Coupon](#) [New Order Total Coupon](#) [New Item Quantity Coupon](#) [New Ship Order Total Coupon](#) [Delete](#)

<input type="checkbox"/>	Coupon ID	Description	Target Product ID	Start Date	End Date	Type	Coupon Category	Enabled	Exclusive
<input type="checkbox"/>	SAVE20	Customer Appreciation Coupon: Platinum customers save 20% on orders of \$100 or more.	None	9/6/2006	9/30/2012	Order Total	Pricing	Yes	No
<input type="checkbox"/>	SAVE15	Customer Appreciation Coupon: Gold customers save 15% on orders of \$100 or more.	None	9/6/2006	9/30/2012	Order Total	Pricing	Yes	No
<input type="checkbox"/>	SAVE10	Customer Appreciation Coupon: Silver customers Save 15% on orders of \$100 or more.	None	9/6/2006	9/30/2012	Order Total	Pricing	Yes	No

[Back to Top](#)

FIGURE 454. Coupons Search Results Page

To Create a Coupon

1. Click **Coupons & Promotional Prices** in the Pricing Administration panel on the Sterling Multi-Channel Selling Solution home page.

The Coupons List page displays.

2. On the Coupons List page, click one of the following:
 - **New Combination Coupon:** click to create a coupon that changes the price of a target product ID based on a combination of products in the cart.
 - **New Order Total Coupon:** click to create a coupon that changes the total charged to the customer based on the total of the cart.
 - **New Item Quantity Coupon:** click to create a coupon that changes the unit price of a product ID based on the quantity being bought.
 - **New Ship Order Total Coupon:** click to create a coupon that changes the total shipping cost charged to the customer based on the total of the cart.

The Coupon Detail page displays.

The screenshot shows the 'New Shipping Charge Order Total Coupon' detail page in the Sterling Commerce system. The page includes a header with the Sterling Commerce logo and navigation links. The main content area is titled 'New Shipping Charge Order Total Coupon:' and contains an 'Edit Header' section with instructions and a 'Save' button. Below this is the 'General Coupon Information' section, which includes fields for Coupon ID, Start Date, End Date, Shipping Method, Ship Complete Only, Customer Type, Currency, and Excludes. The 'Coupon Trigger' section contains a table for defining tiered order total values that trigger the coupon.

General Coupon Information

*Coupon ID: *Start Date (M/D/YYYY): 11/19/2007 *Shipping Method: --All--
 Coupon Description: *End Date (M/D/YYYY): 11/19/210 Ship Complete Only: ☒
 Enabled: ☒ *Customer Type: --All-- *Currency: --All--
 Not Applicable Coupon Message: ☐ Excludes: ☐

Coupon Trigger

Enter Tiered order total values that will cause the coupon to fire and discount/markup amount.

#	Tier	Type	Amount
(1)	<input type="text"/>	Absolute	<input type="text"/>
(2)	<input type="text"/>	Absolute	<input type="text"/>
(3)	<input type="text"/>	Absolute	<input type="text"/>
(4)	<input type="text"/>	Absolute	<input type="text"/>
(5)	<input type="text"/>	Absolute	<input type="text"/>

FIGURE 455. Coupon Detail Page

3. Enter a Coupon ID and optionally a brief description of the coupon in Coupon Description. The coupon ID is what users must enter to add the coupon to their cart. The coupon description is what is displayed to the user as an explanation of the price adjustment.

Note: Do not use "*" in a coupon ID.

4. If the coupon is a combination coupon or item quantity coupon, specify the target product ID. You can either use the product picker or enter the product ID in the text field.
5. Check **Enabled**.
6. Specify a Start Date and End Date for the coupon.
7. Specify the amount of the discount or markup as a negative (for discount) or positive (for markup) amount.
8. If the coupon is a combination coupon or item quantity coupon, specify how the coupon should be applied using the **Applies To** field:
 - a. Single Item: apply the pricing adjustment to just one occurrence of the target product ID.
 - b. All Items: apply the pricing adjustment to each occurrence of the target product ID.
 - c. Each Combination: apply the coupon for each occurrence of the combination of source product IDs.
9. Specify the rule filters that constrain when the coupon is applied:
 - a. Customer Type: select All if you want the rule to apply to all types of customers or select a customer type from the drop-down list. All is the default setting.
 - b. Currency: if you specify absolute price adjustments, then you must select a currency. That is, in order to select "All", you must check that you use only percentage adjustments everywhere in this rule.
 - c. Exclusive: if a coupon is marked as exclusive, then if an end-user adds it to their cart, then no other coupon can be applied to the cart.
 - d. If the coupon is a combination coupon, specify how the coupon will operate on products using the Coupon Operation drop-down list:
 - Any Product specifies that the coupon acts on the target product if any of the trigger products are in the cart.

- All Products specifies that the coupon acts only if all of the trigger products are in the cart.

10. Specify the condition for the coupon action:

- a. If the coupon is an item quantity coupon, specify the tiers and the price adjustment that applies at each tier. The price adjustment applies to the unit price of the line item.
- b. If the coupon is a combination coupon, specify the combination of source product IDs and quantities that must be present for the coupon action to act on the source product ID. The price adjustment applies to the unit price of the line item.
- c. If the coupon is an order total coupon, specify the tiers that effect the price adjustment. The price adjustment is to the order as a whole.

The tier value is the lower bound for the tier. Each tier value must be greater than the previous one: that is the tier value for tier 1 must be less than the tier 2 value which must be less than the tier 3 value, and so on. The tier 1 range is taken to be from the tier 1 value to the tier 2 value, the tier 2 range is between the tier 2 value and the tier 3 value, and so on. The last tier defined is the range from that tier value upwards without limit.

- d. If the coupon is a shipping charge order total coupon, select criteria for the coupon and define one or more order total tiers, then specify the modifications to make to the shipping charges for that tier. The types of modifications are:
 - Absolute. For example, \$10 off.
 - Percentage. For example, 20% off.
 - Flat fee. The flat fee replaces the existing shipping charge.

The coupon has no effect if you do not define tiers.

To apply the coupon only when the order is flagged as Ship Complete, check the **Ship Complete Only** check box. Ship Complete Only is the default setting.

If you check the **Exclusive** check box, then if you add the shipping charge order total coupon to your cart, no other coupon can be applied to the cart.

11. Click **Create**. The coupon is created and the page re-displays with a new tab, **Target Customers**, similar to the following figure.

sterling commerce | Coupons
An AT&T Company

My Home | My Account | About | Help | Logout

Shipping Charge Order Total Coupon: Super Saver [Go to Coupon List](#)

Edit Header **Target Customers**

Enter new coupon information or change existing information. Press the 'Save As New' button to save the current information as a new coupon. Press the 'Save' button to save the current changes. Press the 'Cancel' button to reverse current changes.

Note: Negative absolute or percentage amounts indicate discounts while positive absolute or percentage amounts indicate markups.

[Save As New](#) [Save](#) [Cancel](#)

*Required Fields

General Coupon Information

*Coupon ID: Super Saver

*Start Date (MM/DD/YYYY): 10/31/200

*End Date (MM/DD/YYYY): 10/31/210

*Shipping Method: Standard Shipping

Coupon Description: \$45 off on shipping cost on purchase of items worth \$50

Ship Complete Only: ☒

*Customer Type: --All--

*Currency: USD

Enabled: ☒

Exclusive: ☐

Not Applicable Coupon Message: This coupon is invalid for your cart.

FIGURE 456. Coupon Detail Page with Target Customers Tab

The coupon does not apply to any users until you either associate one or more customer segments with it, or apply the coupon to all users. See "To Apply a Coupon to Users" on page 712 for details.

To Apply a Coupon to Users

Coupons do not become active until they apply to users. You can apply a coupon to all users, or associate one or more customer segments with the coupon.

1. On the Coupon Details page, click the **Target Customers** tab. The Target Customers page displays, similar to the following figure.

sterling commerce | Administration
An AT&T Company

My Home | My Account | About | Help | Logout

Shipping Charge Order Total Coupon: Super Saver [Go to Coupon List](#)

Edit Header **Target Customers**

To apply to all users in the system, choose Applies to All Users.

To attach segments, use the Browse button to select segments from the picker, and then press the picker's Done button when selection is complete. Press the Save button to save your changes.

To detach a segment, click the Detach icon for that segment.

*Applies To

☐ All Users

☒ Selected Customer Segments

Select Segments to attach: [Browse...](#)

[Remove](#)

[Save](#)

Segment Name	Description	Status	Start Date	End Date
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FIGURE 457. Coupon Detail Page: Target Customers Tab

2. To apply this coupon to all users, click the **All Users** radio button.
3. To apply this coupon to one or more customer segments:
 - a. Click the **Selected Customer Segments** radio button.
 - b. Click **Browse...** to browse the list of available customer segments. A Segment Picker pop-up displays, similar to the following figure.

The screenshot shows a 'Select Segment' dialog box. It features a search bar at the top with a dropdown menu set to 'Segment Name' and a 'Search' button. Below the search bar is a list of customer segments, each preceded by a diamond icon. The segments listed are: 'All Anonymous Shoppers', 'All Business Customers / Partners', 'All Consumers', 'All Customers/Partners', 'All Distributors', 'All Gold Customers/Partners', 'All OEMs', 'All Partners Selling to the High Tech Vertical', and 'All Platinum Customers/Partners'. A 'next >>' link is located to the right of the list. At the bottom of the dialog, there is a text box for the selected segment, a 'Delete' button, and 'Done' and 'Cancel' buttons.

FIGURE 458. Segment Picker Pop-Up

You can search for segments by name or effective date. To delete a segment from your list, click the segment name, then click **Delete**.

- c. To select a customer segment, click the segment name. The segment name displays in the Segment Picker text box. When you finish selecting segments, click **Done**.
4. Click **Save**.

To Delete a Coupon

There may come a time when you want to stop using a coupon. You can set its End Date to make it ineffective or you can delete the coupon. If you delete a coupon, then it will no longer be used to adjust prices in carts.

Note:	<p>If a user views a cart that previously had its total price affected by a coupon, and if the coupon is deleted or becomes ineffective, then when the user next views the cart, they may see different prices.</p> <p>The user will have to remove the deleted or ineffective coupon from their cart before they can place the cart as an order.</p>
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1. Click **Coupons & Promotional Prices** in the Pricing Administration panel on the Sterling Multi-Channel Selling Solution home page.
2. On the Coupon List page, select the coupon(s) that you would like to delete by checking the check box next to their Coupon ID, and click **Delete**.

This chapter covers the tasks associated with creating and managing service products and presents some examples showing how to create service products. See "Service Contracts" on page 34 for an overview of service contracts.

This chapter covers the following topics:

- "Overview" on page 716
- "Service Products and Visual Modeler" on page 718
- "Service Products and Product Master" on page 723
- "Example: Creating a Basic Cable Service Product" on page 724
- "Example: Creating an Expanded Cable Service Product" on page 740

Terminology

The following terminology applies to service products:

- Service contractible item: a product created as a service item (the Service Item checkbox is checked during product creation) and associated with a maintenance model.
- Service product: a product bundle that consists of products that include one or more service contractible items.

- Service contract: an agreement that is in effect for a specific period of time that specifies the terms, conditions, attributes, and prices associated with a particular service product.
- Duration-based good: a product that is effective for a specific period of time, such as a cell phone plan, software license, or warranty.
- Selling model: a model that defines what the user will see when they select this product from the product catalog. The selling model can include rules governing compatible product configuration choices.
- Maintenance model: a model that enables generation of a service contract. The maintenance model takes as input the properties that represent the service contractible item picks that the user made: items that must be tracked over the period of the contract.
- Input/output properties: the properties representing the picks that the user makes while configuring a product. These properties are output from the selling model when the order is placed, and accepted as input by the maintenance model for service contract generation.

Overview

Service contracts enable tracking and managing duration-based goods, such as cell phone calling plans, software distribution licenses, and extended maintenance plans. Service contracts are generated when the user orders a product that includes at least one service contractible item and that is associated with a maintenance model. A service product may be associated with a selling model, which determines what the user will see when they view the product in the catalog. A service product must be associated with a maintenance model, which enables generation of the service contract and allows tracking and management of the contract over time.

If the service product is relatively simple, then you need only design a maintenance model. If the service product is more complex, requiring the user to configure the service product before placing an order, then design a selling model to enable the user to view product options and make their choices, and design a separate maintenance model to process the user's choices for service contract generation.

Service Product Components

Service products can include a mix of products: service contractible items such as text messaging and music download services that are associated with monthly fees, and "buy once" products such as a cell phone, headset, and travel charger that the user buys outright. After the user views the available service product options,

makes their choices, and places the order for the service product, their service contractible item picks are transferred to a maintenance model, from which the service contract is generated. The “buy once” products are not part of the service contract: only those items that must be tracked over time are part of the service contract.

Distinguishing Service Contractible Items

You distinguish service contractible items from other products when you create them using the Product Master. Checking the product's Service Item checkbox and associating them with a maintenance model distinguish service contractible items from other products. You assign the initial, or one-time, price and the on-going, or auxiliary prices such as monthly fees, using either the **Prices** tab in Product Master or Sterling Pricing.

Considerations for Building Service Products

The following lists items to consider while building service products. Answers to questions in the following list will help you to determine what kinds of objects you need to build to support service contracts in your Sterling Multi-Channel Selling Solution implementation.

- What will the user experience be like? When the user views a service product in the catalog, what will they see? What options will they choose among to configure the service product? What special features or options will be available to the user, and will they be offered additional services or special discounts for ordering particular features?
- What types of objects do you need to build in order to create the desired user experience? For example:
 - If all your service contracts have a specific term, then you may want to create an end date property with a rule that automatically calculates the end date based upon the contract start date.
 - If you want to offer the user a choice of cell phone calling plans with a choice of cell phones and accessories (carrying case, travel charger, headsets), then you can build a configurable model that consists of a particular calling plan as the major line item with the various options and accessories as minor line items. You would then create option classes for each of the types of available options. For example, you would create a cell phone option class containing an option item for each available cell phone and an accessory option class containing an option item for each available accessory.

- If a minor line item, such as a cell phone, is itself configurable, then you can associate a sub-model for configuring the cell phone with the larger cell phone plan model.
- Will you offer the user a choice of payment frequency, such as a monthly billing or yearly fee for a home or auto insurance policy? If so, then you could create a billing option item to allow the user to pick among payment frequencies.
- Will you offer the user a choice of contract terms, such as 1-year, 2-year, or 5-year contracts, or will all the service contracts have the same duration? You can create a rule to calculate the contract end date based upon the start date and the duration of the contract, then use that end date to track the contract expiration date and send a reminder to the user when it is time to renew the contract.
- What types of costs are associated with the service product? Will there be recurring costs, such as monthly fees for specific services, periodic costs such as overage charges, or other one-time costs such as installation, activation, or cancellation fees? Any costs apart from the list price (or one-time price) require that you implement auxiliary price types. See the *Sterling Multi-Channel Selling Solution Implementation Guide* for more information.
- Do you plan to offer discounts if the user orders certain features? Will you require that the user sign up for a specific contract term? Will the user receive a discount price for signing up for a longer-term contract?

Service Products and Visual Modeler

Using the Visual Modeler, you create selling and maintenance models, define and attach properties to the models, specify the properties that are needed for maintenance of service contracts (the Input/Output properties), and create the rules that govern the creation of the service contracts.

For complex service products that offer many options in many combinations, create both a selling model and a maintenance model. For a simple service product, you need only create a maintenance model.

Create the selling and maintenance models in the same model group to make it easy to share properties. Sharing properties among models in the same model group also eases transferring the user's product option picks to the maintenance model for service contract generation and management.

See "Creating Service Products" on page 34 for an overview of the service products creation process.

See CHAPTER 16, "Using the Visual Modeler", for information about creating and working with models and model groups.

Creating the Selling and Maintenance Models

Suppose that you are creating the selling and maintenance models for a cellular calling plan. The general steps are as follows:

- In the Product Master, create new products for the items that will comprise the cellular calling plan. Create those products that will be associated with the calling plan service contract as service items.
- In Visual Modeler:
 - Create the selling and maintenance models for the calling plan, including the display option classes, sub-models for service products that are themselves configurable, and option items.
 - Attach contract properties (those beginning with CONTRACT:) to the service contractible items in the selling model. In particular, attach the CONTRACT: START_DATE property to service contractible items in the selling model.

Note:	You must attach the CONTRACT: START_DATE property to the service contractible item(s) in the selling model, and only in the selling model. If you do not attach this property, then there will be no start date for the contract.
--------------	---

- Define and attach other properties (such as display properties) to other option classes and option items as appropriate.
- Create the constraints that govern the availability of calling plan options, if applicable. The choices that the customer makes determine the options that are available to them. For example, if they choose a cell phone that has limited capability, then certain option choices become invalid.
- Create the rules that govern the creation of the service contract. As customers choose valid calling plan options that are service contractible items, rules written by the modeler ensure that those options are transferred to the maintenance model for service contract generation.

Service Contract Generation

When the user views the service product offering in the catalog, picks the options they want, then places the order, their service contractible item picks are transferred

from the selling model to the maintenance model and the service contract is generated. The service contract can then be managed by Customer Service Representatives.

When the user places the order, the options that they picked during product configuration (which uses the selling model) are transferred to the maintenance model. In most cases, items in the selling model have the same SKU as items in the maintenance model.

Transferring the pick information from the selling model to the maintenance model happens by way of properties. The process is as follows:

1. The modeler defines the "pick" properties at the model group level.
2. In the selling model, the modeler attaches the pick properties to the option items that represent the picks that the user can make. The modeler then specifies the pick properties as the selling model's output properties.
3. In the maintenance model, the modeler specifies the pick properties as the maintenance model's input properties.
4. The modeler specifies those pick properties that represent service contractible items as the maintenance model's output properties.

When the user places the order, the selling model passes the "pick" properties to the maintenance model. The maintenance model accepts the pick properties as input, and passes the service contractible item properties to the service contracts module, which generates the service contract.

Service Contract Properties

The following table lists the service contract properties. You can write rules that reason on these properties to determine information such as the service contract end date based upon the start date and contract term.

Note:	If the current user is a Customer Service Representative who is acting on behalf of a customer, then the EFFUSER properties contain information pertaining to the customer (the effective user), and the USER properties contain information pertaining to the Customer Service Representative.
--------------	---

TABLE 46. Service Contract Properties

Property Name	Type	Description
CONFIG: PRICE LOCKED	Number	Determines whether or not the price of a particular line item in a bill of materials is locked. Set CONFIG: PRICE LOCKED > 0 to lock the price; 0 to unlock the price.
CONTRACT: END_DATE	Date	Contains the service contract end date, generally calculated based upon the start date and term.
CONTRACT: PERPETUAL	String	Sets the billing cycle type. Yes=perpetual billing, no=billing stops at contract expiration.
CONTRACT: START_DATE	Date	Contains the service contract start date. Attach this property only to service contractible items in the selling model. You must attach this property to the service contractible item in the selling model. If you do not attach this property, then there will be no start date for the contract.
CONTRACT: TERM	Number	Contains the length (term) of the service contract.
EFFUSER: EMAIL ADDRESS	String	Contains the effective user's email address.
EFFUSER: FIRST NAME	String	Contains the effective user's first name.
EFFUSER: LAST NAME	String	Contains the effective user's last name.
EFFUSER: NAME	String	Contains the effective user's name.
EFFUSER: ROLES	List	Contains the list of the effective user's roles, such as Enterprise.CustomerServiceRepresentative.
EFFUSER: TITLE	String	Contains the effective user's title.
EFFUSER: TYPE	String	Contains the effective user's type, such as User, Procurement User, ERP Administrator, and so on. The user type is set when the user is created in the Sterling Multi-Channel Selling Solution.
UI: CLASS READONLY	String	Indicates whether or not an option class and its children may only be modified by customer service representatives. Use this property to limit the kinds of changes that a customer can make to service contract attributes such as start and end dates and service fees. "Yes" means that only CSR's can modify the child option classes; "no" means that anyone can modify them. You can override the setting in individual option classes.

TABLE 46. (Continued)Service Contract Properties

Property Name	Type	Description
UI: MODEL READONLY	String	Indicates whether or not the entire model is read only. This property is generally set internally to indicate that the service contract is in a state in which no changes are allowed. This property overrides the UI: CLASS READONLY property.
UI: UEV DATE VALUE	Date	Provides support for entering date values.
USER: EMAIL ADDRESS	String	Contains the user's email address.
USER: FIRST NAME	String	Contains the user's first name.
USER: LAST NAME	String	Contains the user's last name.
USER: NAME	String	Contains the user's name.
USER: ROLES	List	Contains the list of the user's roles, such as Enterprise.CustomerServiceRepresentative.
USER: TITLE	String	Contains the user's title.
USER: TYPE	String	Contains the user's type, such as User, Procurement User, ERP Administrator, and so on. The user type is set when the user is created in the Sterling Multi-Channel Selling Solution.

Container Only

In previous releases, models had to be associated with a valid product ID (a SKU) to enable customers to add products to a cart. When modelers created a selling model to group several related products, they either attached a dummy SKU to the root node of the model, or created a rule to set the SKU based on the choices made by the customer while configuring the product. In this release, modelers can specify that a selling model is designed as a container for the components that comprise a service product. Container Only selling models do not have to be associated with a SKU.

If the model is used to sell a product that is a single, logical unit - for example, a product that can be ordered from the catalog, contains pricing information, and so on - then associate the selling model with a SKU. For example, the selling model for a calling plan includes all the possible plan options and can be configured and ordered as a single product, so it is associated with a SKU and is not specified as a Container Only selling model.

If the model is used to group several discrete products that ship separately but that may require information about each other, then do not associate a selling model

with a SKU. For example, a selling model that includes a choice of cell phones and a cell phone plan is specified as a Container Only selling model since it associates two discrete products: the calling plan and the cell phone, each of which already have SKUs and can be ordered as separate products in the catalog.

Service Products and Prices

All products have a one-time price: the price that the user pays when the product is ordered or shipped. If the product is a service contractible item, there may be additional, or auxiliary, prices as well, such as a monthly fee for a service plan or a charge for a maintenance contract or extended warranty. Auxiliary prices are generally set up as part of the implementation process, though you also can set up auxiliary prices after implementation. See the *Sterling Multi-Channel Selling Solution Implementation Guide's* Customizing Sterling Pricing chapter for more information.

Service products that include both hard and soft goods, such as a cell phone package that includes a service plan, can be associated with a one-time price for the phone as well as auxiliary prices for activation, a recurring monthly service charge, late fees, overage fees, and cancellation charges.

A product's one-time price can be \$0.00 if the product is associated with an on-going auxiliary price such as a monthly fee and therefore does not have a one-time price.

You can set prices, including applicable auxiliary prices, in the model or by using Sterling Pricing. Setting prices in the model allows you to write rules to control the price of a product. For example, if the customer signs up for a two-year calling plan contract, then you could write a rule to provide a discount on the price of a cell phone.

Service Products and Product Master

Using the Product Master, you create the products that comprise a service product. Products that are associated with fees that must be tracked over time as part of a service contract must be created as service contractible items and associated with a maintenance model. Configurable service products must be associated with a selling model as well as with a maintenance model.

Creating Service Products

Suppose that you are creating the products that comprise a cellular calling plan service product. The calling plan offers various options that the user will configure before placing their order, and those options are associated with fees that must be tracked over time. That means that you create the cellular calling plan as a configurable, service contractible item and associate it with both selling and maintenance models. How you create the products that comprise the calling plan options depends upon the type of product they are.

The following is the general process for creating the cellular calling plan service product (the major line item) and its associated products (the minor line items).

- Create new products for each cell phone to be offered with the calling plan. Create the products as normal products. The cell phones are not service contractible items: the user pays for them once.
- Create new products for the accessories to be offered with the cell phones, such as headsets, travel chargers, and carrying cases. Create the products as normal products. The accessories are not service contractible items: the customer pays for them once.
- Create a new product for the cellular calling plan. When you create the calling plan product, check the Service Item check box and associate the calling plan with both selling and maintenance models.
- Create new products for the calling plan attributes. The plan attributes are associated with fees that are paid on an on-going basis and must be tracked over time. Since the plan attributes themselves are not configurable, but are associated with recurring fees, you create them as normal, service contractible items and associate them with the calling plan maintenance model.

Example: Creating a Basic Cable Service Product

This section describes how to create a basic cable service product. The basic cable service product is simple and does not need a selling model, but it does require a maintenance model to generate a service contract. The service contract will track

details such as the contract term, start and end dates, monthly service fee, cancellation fee, and perpetual billing cycle.

- | |
|--|
| <p>Note: This section assumes the following items:</p> <ul style="list-style-type: none">• That your implementation includes the auxiliary price types Monthly and Cancellation. See the <i>Sterling Multi-Channel Selling Solution Implementation Guide</i> to learn how to add auxiliary price types to your implementation.• That you have set up price lists, assigned the price lists to partners, and provided appropriate entitlements to the partners. |
|--|

This example illustrates how to use rules to set contract start and end dates, set the contract term, and set billing options. The contract properties are stored on the root node of the model so that they are available to all option classes and option items in the model. The values for the user-entered value fields initially come from the contract properties set on the root node of the model. If the user changes any values (such as the contract term, start or end dates, perpetual billing setting), then rules transfer the changes to the root node of the model.

The service contract must track the contract's end date and perpetual billing settings, so those properties are set as the model's output properties.

The model initializes the start date to either the existing start date (if a customer service representative is modifying the service contract), or to the current date, and calculates the end date based upon the start date and contract term. The customer service representative can change the start date, term, and perpetual billing setting.

As you work through the example, do not use special characters to enter formulas or property values. In particular, do not use smart quotes.

The product attributes are as follows:

- \$29.99 monthly service fee for a 1-year contract
- \$50 installation fee
- \$200 cancellation fee
- 1 year contract term
- Start date: defaults to the current date
- End date: defaults to the current date plus one year

- A perpetual billing option

The perpetual billing option setting determines whether or not the user receives monthly invoices for their cable service automatically, even if their service contract expires and they do not renew it. Setting the perpetual billing option to "yes" enables perpetual billing and is the default. Setting the perpetual billing option to "no" disables perpetual billing.

- Allow only customer service representatives to view and change user-entered values

Given these attributes, you will create the following types of objects:

- A basic cable service product with an initial one-time price of \$29.99, an installation fee of \$50, and auxiliary prices of \$29.99 monthly and \$200 cancellation. Since the first month's service and installation fee are both charged up-front, one time only, we will combine them for a one-time price of \$79.99.
- A basic cable product model to allow the cable service and its associated prices to be grouped together and sold as a service product.
- A basic cable maintenance model that will enable generation and tracking of the service contract.
- Auxiliary price types for monthly and cancellation costs. See the *Sterling Multi-Channel Selling Solution Implementation Guide* for more information about creating auxiliary price types, or check your existing price lists to find out about your implementation's available auxiliary price types.
- A start date option item of type Date that defaults to the current date.
- An end date option item of type Date that defaults to the current date plus one year.
- A billing option item that defaults to the perpetual billing option.
- A rule that prevents users who are not customer service representatives from seeing and modifying user-entered values.
- A rule that sets the contract start date to today's date if the start date has not been set.
- A rule that updates the contract end date based on the contract start date and term.

- A rule that updates the contract start date if it is changed by a customer service representative.
- A rule that updates the contract term if it is changed by a customer service representative.
- A rule that updates the perpetual billing setting if it is changed by a customer service representative.

The general steps are:

1. "Create the Basic Cable Product" on page 727.
2. "Assign Prices To the Basic Cable Product" on page 728.
3. Ensure that your organization and your customers have access to the price list and appropriate product entitlements to enable ordering the cable product. See CHAPTER 13, "Product Entitlement", for more information.
4. "Create the Maintenance Model" on page 729.
5. "Associate the Basic Cable Product with the Maintenance Model" on page 739.
6. "Test Ordering the Service Product" on page 739.

Create the Basic Cable Product

1. In the Product Master, create a new category: Cable.
2. In the **Cable** category, click the **Product** tab, and then click **Create New Product**.
3. Enter the following information:
 - Product ID: MX-CBLBasic
 - Product Name: Basic Cable
 - Description: Basic Cable Service
 - Component Type: Normal
 - Check the Service Item check box

Leave the Maintenance Model field blank. Leave the Status field as In Creation.
4. Click **Save and Return**. The MX-Basic product is listed in the Product panel.

Assign Prices To the Basic Cable Product

You can create prices using Sterling Pricing or using the Product Master. This example uses the Product Master to assign prices to the product and to add the product to a price list.

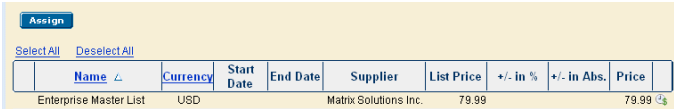
1. In the Product Master, navigate to the **Cable** category, select the MX-CBLBasic product, and click the **Prices** tab.

The Prices page displays.

2. Click the **Assign New** tab.

The list of price lists displays.

3. Check the check box for an appropriate price list, such as the Enterprise Master List, choose a supplier, such as Matrix Solutions Inc, enter 79.99 in the List Price field, then click **Assign**. Note that the auxiliary price types icon displays to the right of the price, similar to the following figure:



The screenshot shows a web interface with a yellow background. At the top left is a blue button labeled 'Assign'. Below it are two links: 'Select All' and 'Deselect All'. A table with the following columns is displayed: Name (with a dropdown arrow), Currency, Start Date, End Date, Supplier, List Price, +/- in %, +/- in Abs., and Price. The first row of data shows 'Enterprise Master List' for Name, 'USD' for Currency, 'Matrix Solutions Inc.' for Supplier, and '79.99' for List Price. The Price column shows '79.99' with a small icon to its right.

Name	Currency	Start Date	End Date	Supplier	List Price	+/- in %	+/- in Abs.	Price
Enterprise Master List	USD			Matrix Solutions Inc.	79.99			79.99

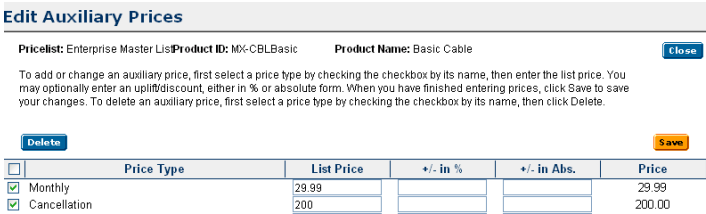
FIGURE 459. Basic Cable Product Price Assignment

4. Click the auxiliary price types icon.

The Edit Auxiliary Price Types window displays. Enter the following values:

- Monthly: 29.99
- Cancellation: 200.00

The Edit Auxiliary Price Types window is similar to the following figure:

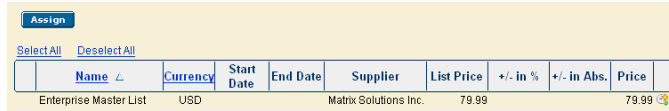


The screenshot shows a window titled 'Edit Auxiliary Prices'. At the top, it displays 'Pricelist: Enterprise Master List', 'Product ID: MX-CBLBasic', and 'Product Name: Basic Cable'. There are 'Close', 'Delete', and 'Save' buttons. Below this is a text area with instructions: 'To add or change an auxiliary price, first select a price type by checking the checkbox by its name, then enter the list price. You may optionally enter an uplift/discount, either in % or absolute form. When you have finished entering prices, click Save to save your changes. To delete an auxiliary price, first select a price type by checking the checkbox by its name, then click Delete.' Below the text is a table with the following columns: Price Type, List Price, +/- in %, +/- in Abs., and Price. The 'Monthly' row has a checked checkbox, '29.99' in the List Price field, and '29.99' in the Price field. The 'Cancellation' row has a checked checkbox, '200' in the List Price field, and '200.00' in the Price field.

Price Type	List Price	+/- in %	+/- in Abs.	Price
<input checked="" type="checkbox"/> Monthly	29.99			29.99
<input checked="" type="checkbox"/> Cancellation	200			200.00

FIGURE 460. Basic Cable Product Auxiliary Price Assignment

5. Click **Save**, and then click **Close**. Note that the auxiliary price types icon has changed, indicating that this product has auxiliary prices, similar to the following figure:




	Name	Currency	Start Date	End Date	Supplier	List Price	+/- in %	+/- in Abs.	Price
	Enterprise Master List	USD			Matrix Solutions Inc.	79.99			79.99 

FIGURE 461. Basic Cable Price Assignment With Auxiliary Price Icon Change

Create the Maintenance Model

The Basic Cable product requires a service contract for tracking contract details and for on-going billing of the monthly service charge, so next you create a maintenance model to generate the service contract.

Create the Model Group and Model

1. In the Visual Modeler, create a new model group called Cable Products.
2. In the Cable Products model group, click **New Model**.

The **New Model** tab displays. Enter the following information:

- Name: basicCableMaintenance
- Description: Basic cable - 1 year contract
- Assigned Product ID: browse to select the MX-CBLBasic product created earlier. Since the product ID is also the product SKU and in this case is somewhat cryptic, we will not use the product ID and name for the name and ID of the model. Using a separate name for the model avoids confusion if the same model is used for several products.
- Click **Save and Edit**.

Add and Define the Service Contract Properties

1. In the **Properties** tab, attach the following properties:
 - CONTRACT: PERPETUAL

Enter a value of “yes” for the CONTRACT: PERPETUAL property.

- CONTRACT: TERM

Enter a value of 1 for the CONTRACT: TERM property.

The basic cable product requires only a maintenance model, so you do not attach CONTRACT: START_DATE. The order ship date is the contract start date.

Click **Save All Changes**.

2. In the **Properties** tab, click **New Property** and add the following new properties to the basicCableMaintenance model. When you define the new properties, click **Define**. Do not attach the new properties to the model.
 - dispEnd: Type: Date
 - dispMonthlyPrice: Type: String
 - dispStart: Type: Date
 - dispTerm: Type: String
 - editEnd: Type: Date
 - editPerpetual: Type: String
 - editStart: Type: Date
 - editTerm: Type: Number
 - Click **Save All Changes**.
3. In the **Properties** tab, click the **Input/Output** tab, then add input and output properties as follows:
 - a. Input Properties:
 - CONTRACT: START_DATE
 - CONTRACT: END_DATE
 - CONTRACT: PERPETUAL
 - CONTRACT: TERM
 - b. Output Properties:
 - CONTRACT: START_DATE
 - CONTRACT: END_DATE
 - CONTRACT: PERPETUAL

- CONTRACT: TERM

Define Rules to Manage the Service Contract

In this section, you create rules to manage the service contract. All rules are created in, and attached to, the root node of the basicCableMaintenance model.

1. Define a rule to hide user-entered values if the user is not a customer service representative.
 - a. Click the **Rules** tab, then click the **Define** tab, then click the **New...** button, and define the rule as follows:
 - Leave Classification blank.
 - Leave Default Priority as 50.
 - Name: hideUEVFields
 - Description: Hide entry fields if the user is not a Customer Service Representative
 - Rule triggered on: Failure
 - b. Click **Save and Edit**. The Edit Rule page expands. Write a new conditional relation as follows:
 - Function1: value
 - Property1: USER: ROLES
 - Operator: contains
 - Function2: literal
 - Property2: Enterprise.CustomerServiceRepresentative
 - If not specified: Fragment is false
 - c. Click **Save and Return**.
 - d. In the Assignment Actions panel, select the _isViewable property with value 0, then click **Add Item**.
 - e. Click **Save and Return**.
2. Define a rule to update the contract end date. This rule has two conditional relations.
 - a. Click the **Rules** tab, then click the **Define** tab, then click the **New...** button, and define the rule as follows:

- Leave Classification blank.
- Default Priority: 30

The CONTRACT: END DATE property depends upon the value of the start date. The value of the start date may be changed depending by the customer service representative. If changes have been made, then the start date value must be updated before end date calculations can be made. Setting this rule's default priority to 30 ensures that the contract end date is always set last, after all other rules are fired.

- Name: updateContractEndDate
- Description: Update the contract end date based on the contract start date and term
- Rule triggered on: Success

b. Click **Save and Edit**. The Edit Rule page expands.

c. Write a new conditional relation as follows:

- Function1: value
- Property1: CONTRACT: START_DATE
- Operator: >
- Function2: literal
- Property2: 0
- If not specified: Fragment is false

d. Click **Save and Return**.

e. Select “and” from the conditional relation drop-down list.

f. Define another conditional relation as follows:

- Function1: value
- Property1: CONTRACT: TERM
- Operator: >
- Function2: literal
- Property2: 0
- If not specified: Fragment is false

g. Click **Save and Return**.

h. In the Assignment Actions panel, select the CONTRACT: END_DATE property, then set the value to the following formula:

```
=DateFunctions.addYear(value("CONTRACT: START_DATE"),  
value("CONTRACT: TERM"))
```

Click **Add Item**.

i. Click **Save and Return**.

3. Define a rule to update the contract start date if the start date has been changed by a Customer Service Representative:

a. Click the **Rules** tab, then click the **Define** tab, then click the **New...** button, and define the rule as follows:

- Leave Classification blank.
- Default Priority: 20

This rule must fire after the start date has been set and before the end date can be calculated. Setting this rule's default priority to 20 ensures that this rule fires in the required sequence.

- Name: updateContractStartDate
- Description: Update the contract start date if the start date has been changed by a Customer Service Representative.
- Rule triggered on: Success

b. Click **Save and Edit**. The Edit Rule page expands. Write a new conditional relation as follows:

- Function1: value
- Property1: editStart
- Operator: >
- Function2: literal
- Property2: 0
- If not specified: Fragment is false

c. Click **Save and Return**.

d. In the Assignment Actions panel, select the CONTRACT: START_DATE property, then set the value to the following formula:

```
=value("editStart")
```

Click **Add Item**.

e. Click **Save and Return**.

4. Define a rule to update the contract term if the start date has been changed by a Customer Service Representative:

a. Click the **Rules** tab, then click the **Define** tab, then click the **New...** button, and define the rule as follows:

- Leave Classification blank
- Default Priority: 20

This rule must fire after the start date has been set and before the end date can be calculated. Setting this rule's default priority to 20 ensures that this rule fires in the required sequence.

- Name: updateContractTerm
- Description: Update the contract term if the term has been changed by a Customer Service Representative
- Rule triggered on: Success

b. Click **Save and Edit**. The Edit Rule page expands. Write a new conditional relation as follows:

- Function1: value
- Property1: editTerm
- Operator: >
- Function2: literal
- Property2: 0
- If not specified: Fragment is false

c. Click **Save and Return**.

d. In the Assignment Actions panel, select the CONTRACT: TERM property, then set the value to the following formula:

```
=value("editTerm")
```

click **Add Item**.

e. Click **Save and Return**.

5. Define a rule to update the perpetual billing setting if the setting has been changed by a Customer Service Representative:
 - a. Click the **Rules** tab, then click the **Define** tab, then click the **New...** button, and define the rule as follows:
 - Leave Classification blank.
 - Default Priority: 20

This rule must fire after the start date has been set and before the end date can be calculated. Setting this rule's default priority to 20 ensures that this rule fires in the required sequence.

 - Name: updatePerpetualBilling
 - Description: Update the perpetual billing setting if the setting has been changed by a Customer Service Representative
 - Rule triggered on: Success
 - b. Click **Save and Edit**. The Edit Rule page expands. Write a new conditional relation as follows:
 - Function1: length
 - Property1: editPerpetual
 - Operator: >
 - Function2: literal
 - Property2: 0
 - If not specified: Fragment is false
 - c. Click **Save and Return**.
 - d. In the Assignment Actions panel, select the CONTRACT: PERPETUAL property, then set the value to the following formula:

```
=${expand("editPerpetual")}
```

click **Add Item**.
 - e. Click **Save and Return**.
6. Click the **Attach** tab, then attach the following rules to the basicCableMaintenance model:
 - updateContractEndDate

- updateContractTerm
- updateContractStartDate
- updatePerpetualBilling

Click **Save All Changes**.

Create the contractDetails Option Class

1. In the **General Info** tab of the basicCableMaintenance model, click **New Option Class**.

The **New Option Class** tab displays. Enter the following information:

- Name: contractDetails
- Description: Contract Details
- Click **Save and Edit**.

The General Info tab for the contractDetails option class displays.

2. Click the **Display** tab and select the following values:
 - UI Control: User Entered Values
 - Layout: Alignment: Horizontal
 - Click **Save All Changes**.
3. Click the **Rules** tab and attach the rule hideUEVFields to the contractDetails option class, then click **Save All Changes**.
4. In the contractDetails **General Info** tab, create new Start Date, End Date, Term, and Perpetual Billing option items to contain the service contract details as shown in the following table.

TABLE 47. Basic Cable Maintenance Model Option Item Values

Option Item	Tab	Field	Values
Start Date Description: Start Date	Display:	User Entered Value Settings	Date: =value("CONTRACT: START_DATE")
		Assign Value to Property	editStart
End Date Description: End Date	Display	User Entered Value Settings	Date: =value("CONTRACT: END_DATE")
		Assign Value to Property	editEnd

TABLE 47. (Continued) Basic Cable Maintenance Model Option Item

Option Item	Tab	Field	Values
Term Description: Contract Term	Display	User Entered Value Settings	Integer
		Assign Value to Property	editTerm
	Properties	UI: UEV INTEGER VALUE	=value("CONTRACT: TERM")
Perpetual Billing Description: Perpetual Billing	Display	User Entered Value Settings	String: = \${expand("CONTRACT: PERPETUAL")}
		Allowed Values	yes, no
		Hide 'None' Selection	Selected
		Assign Value to Property	editPerpetual

5. Compile and test the model. The result should be similar to the following figure.

FIGURE 462. Basic Cable Model Compile and Test Result

Note that because the contract start date has not been set, no value displays for the start and end date. However, you should be able to enter values for start dates and terms, click Update, and see the correct values.

Create the contractDisplay Option Class

1. In the **General Info** tab of the basicCableMaintenance model, click **New Option Class**.

The **New Option Class** tab displays. Enter the following information:

- Name: contractDisplay
- Description: Display contract details
- Click **Save and Edit**.

The **General Info** tab for the contractDisplay option class displays.

2. Click the **Display** tab and select the following values:

- UI Control: Tabular Display
 - Tabular Display Control Settings:
 - Column Headings: Start Date;End Date;Term;Monthly Price
 - Column Properties: dispStart;dispEnd;dispTerm;dispMonthlyPrice
 - Column Alignment: center;center;center;right
 - Click **Save All Changes**.
3. In the **General Info** tab of the contractDisplay option class, click **New Option Item**.

The **New Option Item** tab displays. Enter the following information:

- Name: displayDetails
- Description: Basic Cable 1 Year Contract
- Click **Save and Edit**.

The **General Info** tab of the displayDetails option item displays.

4. Click the **Properties** tab and attach the following properties:
- dispEnd: =value("CONTRACT: END_DATE")
 - dispMonthlyPrice: =\$ {expand("PRICE: MONTHLY", n/a, \$#0.00)}
 - dispStart: =value("CONTRACT: START_DATE")
 - dispTerm: =\$ {expand("CONTRACT: TERM", n/a, #0)} Year

Click **Save All Changes**.

5. Compile and test the model. The result should be similar to the following figure.

Basic cable - 1 year contract				
Errors: 0 Warnings: 0 Suggestions: 0				
No errors				
Price as configured: \$79.99 Cancellation \$200.00 Monthly \$29.99				
<button>Cache</button> <button>Defaults</button> <button>Debug</button> <button>Messages</button> <button>Clear</button> <button>Update</button> <button>Summary</button> <button>Add</button>				
Contract Details				
Start Date	<input type="text"/>	End Date	<input type="text"/>	Contract Term 1 Perpetual Billing None
Display contract details				
Name	Start Date	End Date	Term	Monthly Price
Basic Cable 1 Year Contract				n/a

FIGURE 463. Completed Basic Cable Model

Note that since the product has not shipped, there is no start or end date yet. No maintenance model is associated the basic cable service product yet, the product is not yet released, and the product catalog index has not been re-generated so the value for the monthly price is not correct. However, you should be able to make changes to the contract start date and term and see the updates.

Associate the Basic Cable Product with the Maintenance Model

1. In Product Master, navigate to the Cable category, then select the Basic Cable product.
2. Click the ... button next to the Maintenance Model field and use the Hierarchical Entity Choose to browse to the basicCableMaintenance model. Select basicCableMaintenance, then click **Done**.
3. Change the Status field to Released.
4. Click **Save Changes**.
5. Re-generate the product index:

In the Search Admin tab of the Product Master, enter your administrative password and click **Generate New**. This generates a new index that includes the new Cable category and Basic Cable product.

Test Ordering the Service Product

Before you start, ensure that the user with which you will test ordering the Basic Cable Service Product has the appropriate price lists and product entitlements to enable ordering the product.

1. Log in as a user with the Commerce role.
2. Navigate to the Cable category and add the Basic Cable product to your cart.

3. Confirm and then place the order.
4. Click the order number. The Order Details page displays.
5. Note that there is a Service Contracts button, indicating that a service contract was generated.
6. Click the Service Contracts button to view the details of the Basic Cable service contract.

Example: Creating an Expanded Cable Service Product

This section describes how to create an expanded cable service product. The expanded cable service product is configurable: it provides a choice of additional programming options. Since the expanded cable service product is more complex than the basic cable service product, it needs both a selling model and a maintenance model to generate a service contract. When users choose the expanded cable product from the catalog, the selling model displays the available options and prices. The user makes selections, places the order, and the selling model transfers the user's service contractible item selections to the maintenance model, which generates the service contract.

- | |
|--|
| <p>Note: This section assumes the following items:</p> <ul style="list-style-type: none">• That your implementation includes the auxiliary price types Monthly and Cancellation. See the <i>Sterling Multi-Channel Selling Solution Implementation Guide</i> to learn how to add auxiliary price types to your implementation.• That you have set up price lists, assigned the price lists to partners, and provided appropriate entitlements to the partners. |
|--|

The attributes of the expanded cable service product are as follows:

- \$49.99 monthly service fee for a 1-year contract
- \$49.99 initial fee
- \$50 installation fee
- \$300 cancellation fee
- Contract term is 1 year

- Start date defaults to the current date
- End date defaults to the current date plus one year
- Perpetual billing
- Entertainment packages: HBO, Cinemax, Showtime: \$10 per month each

Since the selling model must transfer the user's service contractible items to the maintenance model, you define properties in both the selling and maintenance models at the model level to contain the user's product picks. In the selling model, you add the properties to the output properties list, and in the maintenance model, you add the properties to the input properties list. You add the service contractible items' properties to the maintenance model's output properties list to enable service contract generation. You define a string property, `sellPicks`, on the model group level to contain the user's additional programming picks.

The work of actually transferring the "pick properties" from the selling model to the maintenance model is done by a rule that you define, `transferPicks`. You define `transferPicks` on the maintenance model, and then attach the rule to each of the additional programming option items.

As you work through the example, do not use special characters to enter formulas or property values. In particular, do not use smart quotes.

The general steps are:

1. "Create the Expanded Cable Products" on page 742.
 - a. Configurable products require both a selling model and a maintenance model, so we first create the overall expanded cable product as a normal product. After creating the expanded cable selling and maintenance models, we will return to the Product Master and attach the selling and maintenance models to the overall expanded cable product.
 - b. Create the additional programming options as normal, service contractible items.
2. "Assign Products To Price Lists Using Sterling Pricing" on page 745.

Assign the overall expanded cable service product and the additional programming options to price lists and set their one-time and auxiliary prices.

Ensure that your organization and your customers have access to the price list and appropriate product entitlements. See CHAPTER 19, "Pricing Administration" and CHAPTER 13, "Product Entitlement" for more information.

3. "Create the Cable Model Group" on page 747. Define a string property, sellPicked, on the cable model group node.
4. "Create the Expanded Cable Selling Model" on page 748:
 - a. Attach the CONTRACT properties to the expanded cable model.
 - b. Define and attach the output properties for contract term, start and end date, and perpetual billing.
 - c. Add these properties and the sellPicked property to the output properties list.
 - d. Create the selling model option classes and option items to control the display and selection of expanded basic cable service options.
 - e. Write a rule to hide entry fields if the user is not a Customer Service representative.
 - f. Write rules to set the values of the CONTRACT properties on the expanded cable model's root node and to transfer any changes in the CONTRACT properties from the user-entered value fields to the root node.
5. "Create the Expanded Cable Maintenance Model" on page 758:
 - a. Since the maintenance model requires the same option classes, properties, and option items as the selling model, copy the selling model to create the expanded cable maintenance model.
 - b. Change the output properties to input properties in the maintenance model.
 - c. Write a rule, transferPicks, to transfer the picks from the selling model to the maintenance model. The rule should fire on success during service contract creation, which is why you write the rule in the maintenance model rather than the selling model. Attach the rule to each additional programming option item.
6. "Associate the Selling and Maintenance Models with the Expanded Cable Product" on page 760.
7. "Test the Expanded Basic Cable Service Product" on page 761.

Create the Expanded Cable Products

Create the overall expanded cable product, and then create the products for each of the entertainment offerings: HBO, Cinemax, and Showtime. The overall expanded

cable product is configurable since users can select the additional programming options that they want. The additional programming options are normal products since they are not configurable themselves, but they are service contractible items since the user pays for them each month. Since it does not make sense to buy the additional programming options if the user does not buy the expanded basic cable service, you also specify that the additional programming options cannot be sold separately.

Because configurable products require a selling model, we first create the expanded cable product as a normal product. After creating the expanded cable selling model, we will return to the Product Master and attach the selling and maintenance models to the overall expanded cable product.

To Create the Expanded Cable Product

1. Navigate to the Product Master and, if the Cable category does not exist, then create it.
2. In the **Cable** category, click the **Product** tab, and then click **Create New Product**.
3. Enter the following information:
 - Product ID: MX-ExCable
 - Product Name: Expanded Cable
 - Description: Expanded Cable Service
 - Component Type: normal
 - Check the Service Item check box

For now, leave the Maintenance Model field blank and leave the Status field as In Creation.

4. Click **Save and Return**. The MX-ExCable product is listed in the Product panel.

To Create the Additional Programming Products

Next, create the products for the additional programming products in the Cable category.

1. Create the HBO product.
 - a. In the Cable category's **Product** tab, click **Create New Product** and enter the following information:

- Product ID: HBO
- Product Name: HBO
- Description: HBO Movie Channel
- Component Type: Normal
- Check the Service Item check box

Leave the Maintenance Model field blank and leave the Status field as In Creation. Click **Save and Return** to add the product to the Cable category.

The HBO product is listed in the Product panel.

- b. In the Product panel, click HBO, then in the **Sales** tab, check the Cannot be Sold Separately check box.
 - c. Click **Save Changes**, then return to the Cable category's **Products** tab.
2. Create the Cinemax product.
 - a. In the Cable category's **Product** tab, click **Create New Product** and enter the following information:
 - Product ID: Cinemax
 - Product Name: Cinemax
 - Description: Cinemax Movie Channel
 - Component Type: Normal
 - Check the Service Item check box
- Leave the Maintenance Model field blank and leave the Status field as In Creation. Click **Save and Return** to add the product to the Cable category.
- The Cinemax product is listed in the Product panel.
- b. In the Product panel, click Cinemax, and then in the **Sales** tab, check the Cannot be Sold Separately check box.
 - c. Click **Save Changes**, then return to the Cable category's **Products** tab.
3. Create the Showtime product.
 - a. In the Cable category's **Product** tab, click **Create New Product** and enter the following information:

- Product ID: Showtime
- Product Name: Showtime
- Description: Showtime Movie Channel
- Component Type: Normal
- Check the Service Item check box

Leave the Maintenance Model field blank and leave the Status field as In Creation. Click **Save and Return** to add the product to the Cable category.

The Showtime product is listed in the Product panel.

- b. In the Product panel, click Showtime, and then in the **Sales** tab, check the Cannot be Sold Separately check box.
- c. Click **Save Changes**.

Assign Products To Price Lists Using Sterling Pricing

You next assign the cable products to a price list and assign prices to them.

1. In the Pricing Administration panel of the home page, click **Price Lists** to open the Price Lists page, and then click the price list to which the cable products should be added. In this example, we use the Enterprise Master List.

The price list header page displays.

2. Click the **Assign Products** tab.

The Assign Products page displays.

3. In the Find panel, search for products in the Cable category.

The Cable products display, similar to the following figure

COMERGENT | Price Lists
eBusiness System

My Home | My Account | About | Help | Logout

Enterprise Master List [Go to Price List](#)

Edit Header Edit Items Assign Products Mass Update View Organization Assignments

Find:

Category Search ☒ View Unassigned Only

Select appropriate search criteria to find products you want to add to this price list. Partial entries for searches by Product ID are supported. Search by Product Category displays products belonging to specified product category. Use Assign button to add selected products with corresponding prices to the current price list.

Assign

<input type="checkbox"/>	Product ID	Product Name	Start Date	End Date	Supplier	List Price	+/- in %	+/- in Abs.	Price
<input type="checkbox"/>	Cinemax	Cinemax			Matrix Solutions	0.00			
<input type="checkbox"/>	HBO	HBO			Matrix Solutions	0.00			
<input type="checkbox"/>	MX-ExCable	Expanded Cable			Matrix Solutions	99.99			
<input type="checkbox"/>	Showtime	Showtime			Matrix Solutions	0.00			

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FIGURE 464. Cable Products Display

4. Assign prices as follows:

TABLE 48. Cable Products List Price Assignments

Product ID (SKU)	Supplier	List Price
MX-ExCable	Matrix Solutions	99.99
Cinemax	Matrix Solutions	0.00
HBO	Matrix Solutions	0.00
Showtime	Matrix Solutions	0.00

In this release, all products in the catalog must be associated with a list price, or one-time price. Products that are associated with auxiliary price types must also have a one-time price, even if the one-time price is 0.

The additional programming options are available for a monthly fee and are not associated with one-time prices, so we set the one-time price to 0.

The resulting price list is similar to the following figure.

Enterprise Master List [Go to Price Lists](#)

Edit Header Edit Items Assign Products Mass Update View Organization Assignments

Find:

Category [Search](#)

Select appropriate search criteria to find price list items. Partial entries for searches by Product ID are supported. Search by Product Category displays all price list items belonging to specified product category. Use Delete button to delete selected products from the price list. After changing prices save changes using the Save button.

[Delete](#) [Save](#)

<input type="checkbox"/>	Product ID ▾	Product Name	Start Date	End Date	Supplier	List Price	+/- in %	+/- in Abs.	Price	
<input type="checkbox"/>	Cinemax	Cinemax			Matrix Solu	0.00000C			0.00	\$% Up Down
<input type="checkbox"/>	HBO	HBO			Matrix Solu	0.00000C			0.00	\$% Up Down
<input type="checkbox"/>	MX-CBLBasic	Basic Cable			Matrix Solu	79.9900C			79.99	\$% Up Down
<input type="checkbox"/>	MX-ExCable	Expanded Cable			Matrix Solu	99.9900C			99.99	\$% Up Down
<input type="checkbox"/>	Showtime	Showtime			Matrix Solu	0.00000C			0.00	\$% Up Down

[Back to Top ↑](#) [Save](#)

FIGURE 465. Expanded Cable Price List

5. Click **Assign**, then click **Edit Items** to add auxiliary prices as follows:

TABLE 49. Cable Products Auxiliary Price Assignments

Product ID (SKU)	Auxiliary Price(s)
MX-ExCable	Monthly: 49.99
	Cancellation: 300.00
Cinemax	Monthly: 10.00
HBO	Monthly: 10.00
Showtime	Monthly: 10.00

Create the Cable Model Group

1. Navigate to the Visual Modeler and, if the Cable Products model group does not exist, then create it as follows:

- Name: Cable Products
- Description: Cable Product Models

Click **Save and Edit**. The Cable Products model group displays in the Model Groups navigation panel.

2. In the **Properties** tab of the Cable Products model group, create a new string property, sellPicked. Click **Add**, and then click **Save All Changes**.

Create the Expanded Cable Selling Model

3. In the **General Info** tab of the Cable Products model group, click **New Model**.

The **New Model** tab displays.

- a. Enter the following information:
 - Name: expandedCableSelling
 - Description: Expanded Cable - 1 year contract
 - Assigned Product ID: browse to select the MX-ExCable product created earlier. Since the product ID is also the product SKU and in this case is somewhat cryptic, we will not use the product ID and name for the name and ID of the model. Using a separate name for the model avoids confusion if the same model is used for several products.
- b. Click **Save and Edit**.

Add and Define the Service Contract Properties

1. In the **Properties** tab, attach the following properties:

- CONTRACT: PERPETUAL
Set the value of CONTRACT: PERPETUAL to "yes".
- CONTRACT: START_DATE
Do not set a default value.
- CONTRACT: TERM
Set the value of CONTRACT: TERM to 1.

Click **Save All Changes**.

2. In the **Properties** tab, click **New Property** and add the following new properties to the basicCableSelling model. When you define the new properties, click **Define**. Do not attach the new properties to the model.
 - dispEnd: Type: Date
 - dispMonthlyPrice: Type: String
 - dispStart: Type: Date
 - dispTerm: Type: String
 - editEnd: Type: Date

- editPerpetual: Type: String
- editStart: Type: Date
- editTerm: Type: Number

Click **Save All Changes**.

3. In the **Input/Output** tab of the **Properties** tab, add the following properties to the Input Properties list:
 - CONTRACT: END_DATE
 - CONTRACT: PERPETUAL
 - CONTRACT: START_DATE
 - CONTRACT: TERM
4. In the **Input/Output** tab of the **Properties** tab, add the following properties to the Output Properties list:
 - CONTRACT: END_DATE
 - CONTRACT: PERPETUAL
 - CONTRACT: START_DATE
 - CONTRACT: TERM
 - sellPicked

Define Rules to Manage the Service Contract

In this section, you define the rules that manage the service contract. All rules are created in, and attached to, the root node of the Expanded Cable Service model.

1. Define a rule to hide user-entered values if the user is not a customer service representative.
 - a. Click the **Rules** tab, then click the **Define** tab, then click the **New...** button, and define the rule as follows:
 - Leave Classification blank
 - Leave Default Priority set to 50
 - Name: hideUEVFields
 - Description: Hide entry fields if the user is not a Customer Service Representative

- Rule triggered on: Failure
 - b. Click **Save and Edit**. The Edit Rule page expands. Write a new conditional relation as follows:
 - Function1: value
 - Property1: USER: ROLES
 - Operator: contains
 - Function2: literal
 - Property2: Enterprise.CustomerServiceRepresentative
 - If not specified: Fragment is false
 - c. Click **Save and Return**.
 - d. In the Assignment Actions panel, select the `_isViewable` property with value 0, then click **Add Item**.
 - e. Click **Save and Return**.
- 2. Define a rule to update the contract start date if the start date has been changed by a Customer Service Representative:
 - a. Click the **Rules** tab, then click the **Define** tab, then click the **New...** button, and define the rule as follows:
 - Leave Classification blank
 - Default Priority: 20

This rule must fire after the start date has been set and before the end date can be calculated. Setting this rule's default priority to 20 ensures that this rule fires in the required sequence.

 - Name: `updateContractStartDate`
 - Description: Update the contract start date if the start date has been changed by a Customer Service Representative
 - Rule triggered on: Success
 - b. Click **Save and Edit**. The Edit Rule page expands. Write a new conditional relation as follows:
 - Function1: value
 - Property1: `editStart`

- Operator: >
 - Function2: literal
 - Property2: 0
 - If not specified: Fragment is false
- c. Click **Save and Return**.
- d. In the Assignment Actions panel, select the CONTRACT: START_DATE property, then set the value to the following formula:
- ```
=value("editStart")
```
- e. Click **Add Item**.
- f. Click **Save and Return**.
3. Define a rule to update the contract term if the start date has been changed by a Customer Service Representative:
- a. Click the **Rules** tab, then click the **Define** tab, then click the **New...** button, and define the rule as follows:
- Leave Classification blank
  - Default Priority: 20
- This rule must fire after the start date has been set and before the end date can be calculated. Setting this rule's default priority to 20 ensures that this rule fires in the required sequence.
- Name: updateContractTerm
  - Description: Update the contract term if the term has been changed by a Customer Service Representative
  - Rule triggered on: Success
- b. Click **Save and Edit**. The Edit Rule page expands. Write a new conditional relation as follows:
- Function1: value
  - Property1: editTerm
  - Operator: >
  - Function2: literal
  - Property2: 0

- If not specified: Fragment is false
- c. Click **Save and Return**.
- d. In the Assignment Actions panel, select the CONTRACT: TERM property, then set the value to the following formula:

`=value("editTerm")`

Click **Add Item**.

- e. Click **Save and Return**.
4. Define a rule to update the contract end date:
- a. Click the **Rules** tab, then click the **Define** tab, then click the **New...** button, and define the rule as follows:
    - Leave Classification blank
    - Default Priority: 30

The CONTRACT: END DATE property depends upon the value of the start date. The value of the start date may be changed depending by the customer service representative. If changes have been made, then the start date value must be updated before end date calculations can be made. Setting this rule's default priority to 30 ensures that the contract end date is always set last, after all other rules are fired.

- Name: updateContractEndDate
  - Description: Update the contract end date based on the contract start date and term
  - Rule triggered on: Success
- b. Click **Save and Edit**. The Edit Rule page expands. Write a new conditional relation as follows:
    - Function1: value
    - Property1: CONTRACT: START\_DATE
    - Operator: >
    - Function2: literal
    - Property2: 0
    - If not specified: Fragment is false

Click **Save and Return**.

- c. Select “and” from the conditional relation drop-down list.
  - d. Write a new conditional relation as follows:
    - Function1: value
    - Property1: CONTRACT: TERM
    - Operator: >
    - Function2: literal
    - Property2: 0
    - If not specified: Fragment is false
  - e. Click **Save and Return**.
  - f. In the Assignment Actions panel, select the CONTRACT: END\_DATE property, then set the value to the following formula:

```
=DateFunctions.addYear(value("CONTRACT: START_DATE"),
value("CONTRACT: TERM"))
```

Click **Add Item**.
  - g. Click **Save and Return**.
5. Define a rule to update the perpetual billing setting if the setting has been changed by a Customer Service Representative:
- a. Click the **Rules** tab, then click the **Define** tab, then click the **New...** button, and define the rule as follows:
    - Leave Classification blank
    - Default Priority: 20

This rule must fire after the start date has been set and before the end date can be calculated. Setting this rule's default priority to 20 ensures that this rule fires in the required sequence.

    - Name: updatePerpetualBilling
    - Description: Update the perpetual billing setting if the setting has been changed by a Customer Service Representative
    - Rule triggered on: Success
  - b. Click **Save and Edit**. The Edit Rule page expands. Write a new conditional relation as follows:

- Function1: length
  - Property1: editPerpetual
  - Operator: >
  - Function2: literal
  - Property2: 0
  - If not specified: Fragment is false
- c. Click **Save and Return**.
- d. In the Assignment Actions panel, select the CONTRACT: PERPETUAL property, then set the value to the following formula:
- ```
=${expand("editPerpetual") }
```
- Click **Add Item**.
- e. Click **Save and Return**.
6. Click **Save All Changes**.
7. Click the **Attach** tab, then attach the following rules to the expandedCableSelling model:
- updateContractEndDate
 - updateContractTerm
 - updateContractStartDate
 - updatePerpetualBilling
- Click **Save All Changes**.

Create the contractDetails Option Class

1. In the **General Info** tab of the expandedCableSelling model, click **New Option Class**.

The **New Option Class** tab displays. Enter the following information:

- Name: contractDetails
- Description: Contract Details
- Click **Save and Edit**.

The **General Info** tab for the contractDetails option class displays.

2. Click the **Display** tab and select the following values:
 - UI Control: User Entered Values
 - Layout: Alignment: Horizontal
 - Click **Save All Changes**.
3. Click the **Rules** tab and attach the hideUEVFields rule.
4. In the **General Info** tab, create new Start, End, Term, and Perpetual Billing option items and assign properties and values to them as shown in the following table.

TABLE 50. Selling Model Option Item Properties and Values

Option Item	Tab	Field	Values
Start Description: Start Date	Display:	User Entered Value Type	Date =value("CONTRACT: START_DATE")
		Assign Value to Property	editStart
End Description: End Date	Display	User Entered Value Settings	Date =value("CONTRACT: END_DATE")
		Assign Value to Property	editEnd
Term Description: Contract Term	Display	User Entered Value Settings	Integer
		Assign Value to Property	editTerm
	Properties	UI: UEV INTEGER VALUE	=value("CONTRACT: TERM")
Perpetual Billing Description: Perpetual Billing	Display	User Entered Value Settings	String: =\$ {expand("CONTRACT: PERPETUAL")}
		Hide 'None' Selection	Selected
		Allowed Values	yes, no
		Assign Value to Property	editPerpetual

Create the contractDisplay Option Class

1. In the **General Info** tab of the expandedCableSelling model, click **New Option Class**.

The **New Option Class** tab displays. Enter the following information:

- Name: contractDisplay
- Description: Contract Display

- Click **Save and Edit**.

The General Info tab for the contractDisplay option class displays.

2. Click the **Display** tab and select the following values:

- UI Control: Tabular Display
- Tabular Display Control Settings:
 - Column Headings: Start Date;End Date;Term;Monthly Price
 - Column Properties: dispStart;dispEnd;dispTerm;dispMonthlyPrice
 - Column Alignment: center;center;center;right
- Click **Save All Changes**.

3. In the **General Info** tab of the contractDisplay option class, click **New Option Item**.

The **New Option Item** tab displays. Enter the following information:

- Name: displayDetails
- Description: Expanded Cable -1 Year Contract

Click **Save and Edit**.

The **General Info** tab of the displayDetails option item displays.

4. Click the **Properties** tab and attach the following properties:

- dispEnd: =value("CONTRACT: END_DATE")
- dispMonthlyPrice: =\$ {expand("PRICE: MONTHLY",n/a,\$#0.00)}
- dispStart: =value("CONTRACT: START_DATE")
- dispTerm: =\$ {expand("CONTRACT: TERM",n/a,#0)}

Click **Save All Changes**.

Create the addlProgOptions option class

1. In the **General Info** tab of the expandedCableSelling model, click **New Option Class**.

The **New Option Class** tab displays. Enter the following information:

- Name: addlProgOptions
- Description: Additional Programming Options

- Click **Save and Edit**.

The General Info tab for the addlProgOptions option class displays.

2. Click the **Display** tab and select the following values:
 - UI Control: Multi-selectTabular Display
 - Tabular Display Control Settings:
 - Column Headings: Monthly Cost
 - Column Properties: dispMonthlyPrice
 - Column Alignment: right
 - Click **Save All Changes**.
3. In the **General Info** tab, create new option items for each of the additional programming options: HBO, Cinemax, and Showtime, as shown in the following table. Click **Save All Changes** after entering information for each tab.

TABLE 51. addlProgOptions Option Item Values

Option Item	Tab	Field	Value
HBO	General Info	Assigned Product ID	HBO
	Display	Ignore in Quote	Not selected
	Properties	dispMonthlyPrice	=\${expand("PRICE: MONTHLY", n/a, \$#0.00)}
		sellPicked	HBO
Cinemax	General Info	Assigned Product ID	Cinemax
	Display	Ignore in Quote	Not selected
	Properties	dispMonthlyPrice	=\${expand("PRICE: MONTHLY", n/a, \$#0.00)}
		sellPicked	Cinemax
Showtime	General Info	Assigned Product ID	Showtime
	Display	Ignore in Quote	Not selected
	Properties	dispMonthlyPrice	=\${expand("PRICE: MONTHLY", n/a, \$#0.00)}
		sellPicked	Showtime

Compile and Test the Expanded Cable Selling Model

If you compile and test the expanded cable selling model, the results should be similar to the following figure:

Expanded Cable - 1 year contract Errors: 0 Warnings: 0 Suggestions: 0

No errors

Price as configured: \$0.00 Cache Defaults Debug Messages Clear Update Summary Add

Contract Details
 Start Date: 3/20/2007 End Date: 3/20/2008 Contract Term: 1 Perpetual Billing: ☒ yes

Contract Display

Name	Start Date	End Date	Term	Monthly Price
Basic Cable 1 Year Service	3/20/2007	3/20/2008	1 Year	n/a

Additional Programming Options


	Monthly Cost
<input type="checkbox"/> HBO	n/a
<input type="checkbox"/> Cinemax	n/a
<input type="checkbox"/> Showtime	n/a

FIGURE 466. Expanded Cable Selling Model Compile and Test

Note that since the product has not been shipped, there is no start or end date yet. No maintenance model has been associated with the expanded cable service product, the product is not yet released and the catalog product index has not been rebuilt, so the values you see in the model test are not correct. However, you should be able to make changes to the start date and term and see the updates.

Create the Expanded Cable Maintenance Model

This section describes how to create the expanded cable maintenance model. Since the maintenance model requires the same option classes, properties, and option items as the expanded cable selling model, you copy the selling model to create the maintenance model, then modify the model information for maintenance purposes.

1. In the Visual Modeler, navigate to the Cable Products model group and select the expandedCableSelling model.
2. In the menu bar, click the Copy icon: 
3. Click the **Browse** button and select the Cable Products model group from the Hierarchical Entity Chooser, then click **Done**.
4. Enter expandedCableMaintenance as the Destination Name.
5. Click **Copy**, then click **Close**.

The expandedCableMaintenance model displays in the list of Cable Products models.

6. Edit the expandedCableMaintenance model as follows:

- a. In the **Properties** tab, click the **Attach** tab, then remove CONTRACT: PERPETUAL, CONTRACT: START_DATE, and CONTRACT: TERM. The values for these properties will come from the selling model so there is no need to set them in the maintenance model.
- b. In the **Properties** tab, click Input/Output, then remove sellPicked from the Output Properties list.
- c. In the **Rules** tab, click the **Define** tab, then click the **New...** button to define a new rule, transferPicks, to transfer the user's additional programming option selections from the selling to the maintenance model:
 - Leave Classification blank
 - Leave Default Priority as 50
 - Name: transferPicks
 - Description: Transfer user picks from the selling model to the maintenance model.
 - Rule triggered on: Success
 - Firing Phases: Service Contract Creation
- d. Click **Save and Edit**. The **New Rule** page displays, showing additional fields. Define a new conditional relation as follows:
 - Function1: value
 - Property1: sellPicked
 - Operator: =
 - Function2: propval
 - Property2: _sku
 - If not specified: Fragment is false
- e. Click **Save and Return**.
- f. You now define an expansion action to indicate that the current option item was picked. Click **Formula** to expand the Formula panel. In the Expansion Actions section, enter the following values:
 - Formula: 1
 - Min: 0
 - Max: 1

- Qty: 1
- Item: .

The value in the Item field is a period. These values mean that if the number of picks is between 0 and 1, pick 1 current option item. So if the current option item is the HBO product, then pick one HBO product and add it to the service contract.

Click **Add Item**.

- g. Click **Save and Return**.
 - h. Click **Save All Changes**.
7. Attach the transferPicks rule to the HBO, Cinemax, and Showtime option items.

Test the expandedCableSelling and expandedCableMaintenance Models

Compile the expandedCableMaintenance model, then navigate to the expandedCableSellingModel. Compile and test the selling model, changing the values for start date and term and selecting among the additional programming options. When you are done:

1. Click the **Add** button
2. Click **Launch New Model**, then choose the expandedCableMaintenance model from the drop-down list.
3. Click **Pass Current State to the Model**.
4. Click the **Launch** button.

The expandedCableMaintenance model should display with the contract information that you entered in the selling model.

Associate the Selling and Maintenance Models with the Expanded Cable Product

Now that the selling and maintenance models are complete, associate them with the MX-ExCable expanded cable product and release the expanded cable service products for sale.

1. Navigate to the Cable product category in the Product Master.
2. Edit the MX-ExCable Expanded Cable product as follows:
 - Component Type: Configurable

- Selling Model: click the **Browse** button and use the Hierarchical Entity Chooser to select the expandedCableSelling model
 - Maintenance Model: click the **Browse** button and use the Hierarchical Entity Chooser to select the expandedCableMaintenance model
 - Status: Released
 - Click **Save Changes**
3. Change the Status for the HBO, Cinemax, and Showtime products to Released.
 4. Rebuild the product index.

Test the Expanded Basic Cable Service Product

Rebuild the product index and test the products.


This chapter covers tasks involved in serving promotions. The promotions feature is available if you purchased the Sterling Promotions application as part of your implementation of the Sterling Multi-Channel Selling Solution.

"Serving Promotions" on page 41 provides an overview of Sterling Promotions in the Sterling Multi-Channel Selling Solution.

Managing Promotions

Promotion Administration List Page

You manage your promotions by clicking **Promotions** in the Pricing Administration panel on the Sterling Multi-Channel Selling Solution home page. The Promotion Administration List page displays.

 **sterling commerce**
An AT&T Company | Promotions

[My Home](#) | [My Account](#) | [About](#) | [Help](#) | [Logout](#)

Promotion List:

Search for Promotions

ID [Search](#) [Show All](#) [Advanced Search](#)

Promotion List page.

[Copy](#) [Delete](#) [New](#)

[Previous](#) [Next](#)

<input type="checkbox"/>	ID	Name	Locale	View Count	Add To List Count	Priority	Product ID	Start Date	End Date	
<input type="checkbox"/>	644	Cart CC offer	United States	0	0	1	CARTPROMO	9/1/2006	9/30/2012	<input checked="" type="checkbox"/>
<input type="checkbox"/>	643	Notebooks New Arrivals: Intel Processor Promo	United States	0	0	2	CATEGORY:1165:NewArrival...	9/1/2006	9/30/2012	<input checked="" type="checkbox"/>
<input type="checkbox"/>	642	Notebooks New Arrivals: MSLP-7550	United States	0	0	1	CATEGORY:1165:NewArrival...	9/1/2006	9/30/2012	<input checked="" type="checkbox"/>
<input type="checkbox"/>	641	Notebooks Top Sellers: MSLP-7490	United States	0	0	3	CATEGORY:1165:TopSeller	9/1/2006	9/30/2012	<input checked="" type="checkbox"/>
<input type="checkbox"/>	640	Notebooks Top Sellers: MSLP-7530	United States	0	0	2	CATEGORY:1165:TopSeller	9/1/2006	9/30/2012	<input checked="" type="checkbox"/>
<input type="checkbox"/>	639	Notebooks Top Sellers: MSLP-7500 Better	United States	0	0	1	CATEGORY:1165:TopSeller	9/1/2006	9/30/2012	<input checked="" type="checkbox"/>
<input type="checkbox"/>	638	Notebooks Special Offers: save \$100 on any Projector with the purchase of select notebooks	United States	0	0	3	CATEGORY:1165:CategoryOffers...	9/1/2006	9/30/2012	<input checked="" type="checkbox"/>
<input type="checkbox"/>	637	Notebooks Special Offers: MSLP-7550, Free Ext Warranty	United States	0	0	2	CATEGORY:1165:CategoryOffers...	9/1/2006	9/30/2012	<input checked="" type="checkbox"/>

FIGURE 467. Promotion Administration List Page

You can sort the Promotion Lists page by any column (except for Actions and Products) by clicking the column title. The page redisplay with the table sorted based on the selected column.

The Promotion Administration List page consists of the fields listed in the following table.

TABLE 52. Columns in the Promotion Administration List Page

Column	Description
ID	ID number assigned by the Sterling Multi-Channel Selling Solution to identify the promotion uniquely.
Name	Name of the promotion.
Actions	Enables promotion administrators to duplicate or delete promotions.
View Count	Number of times a customer clicks the promotion icon and views the promotion.
Add to List Count	Number of times Add to List is clicked in the promotions window.
Priority	Priority of the promotion. See "Promotion Control" on page 43 for an explanation of how priority is used.

TABLE 52. Columns in the Promotion Administration List Page (Continued)

Column	Description
Product ID	<p>The identification number for the item. The entry in this column can take one of three forms: a single product ID, a product ID followed by three dots (...) indicating more than one product ID, or an asterisk (*) indicating the promotion is linked with all products.</p> <p>If you enter "PORTAL", then this promotion is displayed when the Promotions widget is added to the end-user home page.</p> <p>If you enter "CATALOG", then this promotion is displayed when users visit the catalog landing page: this is the page that is displayed when users click All Categories.</p>
Date Range	The date the promotion begins appearing (Start Date) through the date when the promotion ceases appearing (End Date).
Enabled	Promotion is enabled or disabled.

You can specify the parameters for some of these columns by configuring the business rules for promotions. See CHAPTER 39, "Business Rules Administration".

Managing Promotions


When the Sterling Multi-Channel Selling Solution is installed for an enterprise, the tasks of an enterprise promotion administrator are:

- "Create or duplicate a promotion:" on page 766
- "To Modify a Promotion" on page 774
- "To Delete a Promotion" on page 775
- "To Disable a Promotion" on page 775

To Create or Duplicate a Promotion

1. Click **Promotions** in the Pricing Administration panel on the Sterling Multi-Channel Selling Solution home page.

The Promotion Administration List page displays, similar to the following figure.

 sterling commerce
An AT&T Company

Promotions

My Home | My Account | About | Help | Logout

Promotion List:

Search for Promotions

ID

Search Show All Advanced Search

Promotion List page.

Copy

Delete

New

Previous

Next

<input type="checkbox"/>	ID	Name	Locale	View Count	Add To List Count	Priority	Product ID	Start Date	End Date	
<input type="checkbox"/>	644	Cart CC offer	United States	0	0	1	CARTPROMO	9/1/2006	9/30/2012	<input checked="" type="checkbox"/>
<input type="checkbox"/>	643	Notebooks New Arrivals: Intel Processor Promo	United States	0	0	2	CATEGORY:1165:NewArrival...	9/1/2006	9/30/2012	<input checked="" type="checkbox"/>
<input type="checkbox"/>	642	Notebooks New Arrivals: MVL-7530	United States	0	0	1	CATEGORY:1165:NewArrival...	9/1/2006	9/30/2012	<input checked="" type="checkbox"/>
<input type="checkbox"/>	641	Notebooks Top Sellers: MVL-7450	United States	0	0	3	CATEGORY:1165:TopSeller	9/1/2006	9/30/2012	<input checked="" type="checkbox"/>
<input type="checkbox"/>	640	Notebooks Top Sellers: MVL-7530	United States	0	0	2	CATEGORY:1165:TopSeller	9/1/2006	9/30/2012	<input checked="" type="checkbox"/>
<input type="checkbox"/>	639	Notebooks Top Sellers: MVL-7500 Better	United States	0	0	1	CATEGORY:1165:TopSeller	9/1/2006	9/30/2012	<input checked="" type="checkbox"/>
<input type="checkbox"/>	638	Notebooks Special Offers: save \$100 on any projector with the purchase of select notebooks	United States	0	0	3	CATEGORY:1165:CategoryOffers...	9/1/2006	9/30/2012	<input checked="" type="checkbox"/>
<input type="checkbox"/>	637	Notebooks Special Offers: MVL-7530, Free Ext Warranty	United States	0	0	2	CATEGORY:1165:CategoryOffers...	9/1/2006	9/30/2012	<input checked="" type="checkbox"/>

FIGURE 468. Promotion Administration List Page

2. Create or duplicate a promotion:
- To create a promotion, click **New**.
 - To duplicate a promotion, identify the promotion you want to duplicate. Check its check box, click **Copy**, then click the link to the new promotion.

COMERGENT eBusiness System | Promotions

My Home | My Account | About | Help | Logout

Promotion Detail [Go to Promotion List](#)

[Cancel](#) [Create](#)

General Info on page.

Name * Description

Upload Image [Browse...](#) Image Name

URL

Promotion Controls

Start Date * End Date *

Priority * Partner Level

Enabled ☐ Locale *

Partner Type

Product ID (Entering * will match all Products) [Add](#)

[Preview](#)

FIGURE 469. Promotion Detail Page

3. Enter a name for the promotion.

The name identifies the promotion on the Promotion List page; it is not displayed to customers.

4. (Optional) Enter a short description.

The short description is displayed when the customer places the mouse over the promotion icon. If you associate an image with the promotion, then the description is also displayed when the image is displayed.

5. Click **Create** before proceeding.

6. Enter one of the following:

- The name of a GIF or JPG file for an image to be used for the promotion. Click **Browse...** to find and select the file, then click **Upload**. If you entered a description, then the description will appear with the image.
- A URL for a page that provides the promotion text. The URL must include "http://" or "https://". The URL takes precedence over either a description or an image. For example, if you enter both an image and a URL, the promotion displays the URL rather than the image.

Click **Preview** to see how the last saved version of this promotion will display to the end user.

7. Enter a date range during which the promotion will appear. You must specify both the Start Date and End Date dates.
8. Select a priority level from the drop-down list. Lower numbers indicate a higher priority.
9. Select a locale for the promotion. Only users whose current locale is the same as your selection will see the promotion.
10. Check the **Enabled** check box.
11. Enter the product ID(s) to which this promotion should be assigned:
 - Enter the product ID for a single product, then click **Add**. This assigns this promotion to just this one product.
 - Enter multiple product IDs. You can enter a single ID and click **Add**, then repeat the process for each ID, or you can enter multiple IDs separated by a comma, then click **Add**.
 - Enter * to assign this promotion to all products.
 - Enter a promotion control product ID. Promotion control product ID's allow you to specify the catalog pages and the merchandising area(s) on those pages in which to display a promotion. There are two possible formats for promotion control product ID's:
 - a. `<KEYWORD>:<itemKey>:<property>`

The *KEYWORD* indicates the type of the promotion: CATEGORY for an entire category of products, or PRODUCT for specific product items. The *itemKey* is the product category assigned to this promotion. The *property* indicates the merchandising area of the catalog page in which the promotion will appear. The promotion control product ID elements are separated by colons (:).

b. *<location>*

The *location* indicates in which merchandising area of the catalog landing page the promotion will appear, for example, the Special Offers area or the Featured Products area.

TABLE 53. Promotion Control Product ID's

Product ID Pattern	Description
CATEGORY:< <i>itemKey</i> >:CategoryMainPromo	This promotion appears in the main merchandising area of the <i>itemKey</i> category page.
CATEGORY:< <i>itemKey</i> >:CategoryFeaturedProducts	This promotion appears in the Featured Products merchandising area of the <i>itemKey</i> category page.
CATEGORY:< <i>itemKey</i> >:TopSeller	This promotion appears in the Top Sellers merchandising area of the <i>itemKey</i> category page.
CATEGORY:< <i>itemKey</i> >:NewArrival	This promotion appears in the New Arrivals merchandising area of the <i>itemKey</i> category page.
CATEGORY:< <i>itemKey</i> >:CategoryOffers	This promotion appears in the Special Offers merchandising area of the <i>itemKey</i> category page.
PRODUCT:< <i>productID</i> >:ItemPromo	This promotion appears in the Item Promotions merchandising area of the <i>productID</i> catalog page.
PRODUCT:< <i>productID</i> >:ItemCrossSell	This promotion appears in the cross sell ("You may also like") merchandising area of the <i>productID</i> catalog page.
HomeMainPromo	This promotion appears in the main merchandising area of the catalog landing page.

TABLE 53. Promotion Control Product ID's (Continued)

Product ID Pattern	Description
HomeFeaturedCategory	This promotion appears in the Featured Categories merchandising area of the catalog landing page.
HomeFeaturedProduct	This promotion appears in the Featured Products merchandising area of the catalog landing page.
HomeSpecialOffers	This promotion appears in the Special Offers merchandising area of the catalog landing page.
CARTPROMO	This promotion appears in the merchandising area of the user's Shopping Cart page.

- To get category keys, click Product Master in the Product and Catalog Administration panel, then navigate the Product Category hierarchy to locate the product(s) to feature in the promotion. Place the cursor over a category link, then check your browser's status bar. You will see a line such as:

```
javascript:sellitem('catKey','pc')
```

where *catKey* is the category key.

- Leave the field blank. If you do this, the promotion is not assigned to any product. You can still create the promotion, but before it can be used you must assign a product ID (or use *) to activate it.

To remove a product ID from a promotion, select that product ID and click **Remove**.

12. To allow customers to add promotion item(s) to a cart from the separate promotions window, complete both of the following fields.
 - a. Enter the product ID to be added (for the promotion item) in the Add to Cart Product ID field.

- b. Enter the quantity of that product (to be added to the cart) in the Add to Cart Quantity field.

Note: These fields appear only if the appropriate permissions are set during implementation.

- 13. To enable customers to click a promotion and go directly to the product category page (also called “click through”), complete both of the following fields:
 - a. Enter the keyword CATEGORY followed by the category key in the Add to Cart Product ID field. The format is:

CATEGORY:<categoryKey>

For example, to enable customers to click through to the digital cameras catalog page, enter:

CATEGORY:1013
 - b. Enter the quantity of that product (to be added to the cart) in the Add to Cart Quantity field.
- 14. Click **Create**. The promotion is created and the Promotion Details page redisplay with an additional tab, **Target Customers**, similar to the following figure.

sterling commerce

An AT&T Company

Promotions

My Home | My Account | About | Help | Logout

Promotion Detail

Gold Level Sale

[Go to Promotion List](#)

Edit Header

Target Customers

Change promotion information and press the Save button to save the current changes. Press the Cancel button to reverse the current changes. Use the Target Customers tab to specify the customer segments to which the promotion should be applied.

Cancel

Preview

Save

General Info on page.

Name *

Gold Level Sale

Description

Sale applies to gold-level customers only

Upload Image

Browse...

Image Name

URL

Promotion Controls

Start Date *

11/5/2007

Priority *

2

Enabled

☐

End Date *

11/16/2007

Locale *

United States

Product ID (Entering * will match all Products)

Add

Remove

Optional Add To List Properties

Add To Cart Product ID

Add To Cart Quantity

FIGURE 470. Promotions Detail Page With Target Customers Tab

Note that there are now **Save** and **Preview** buttons on the page.

The promotion does not apply to any users until you either associate one or more customer segments with it, or apply the promotion to all users. See "To Apply a Promotion to Users" on page 772 for details.

To Apply a Promotion to Users

Promotions do not become active until they apply to users. You can apply a promotion to all users, or associate one or more customer segments with the promotion.

1. On the Promotion Details page, click the **Target Customers** tab. The Target Customers page displays, similar to the following figure.

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Sterling Multi-Channel Selling Solution Administration Guide

sterling commerce
An AT&T Company

Administration

My Home | My Account | About | Help | Logout

Promotion Detail Gold Level Sale [Go to Promotion List](#)

Edit Header Target Customers

To apply to all users in the system, choose Applies to All Users.

To attach segments, use the Browse button to select segments from the picker, and then press the picker's Done button when selection is complete. Press the Save button to save your changes.

To detach a segment, click the Detach icon for that segment.

* Applies To ☐ All Users ☒ Selected Customer Segments

Select Segments [Browse...](#)

attach: [Remove](#)

[Save](#)

Segment Name	Description	Status	Start Date	End Date
No Rows Found				

FIGURE 471. Target Customers Tab

2. To apply this promotion to all users, click the **All Users** radio button.
3. To apply this promotion to one or more customer segments:
 - a. Click the **Selected Customer Segments** radio button.
 - b. Click **Browse** to browse the list of available customer segments. A Segment Picker pop-up displays.

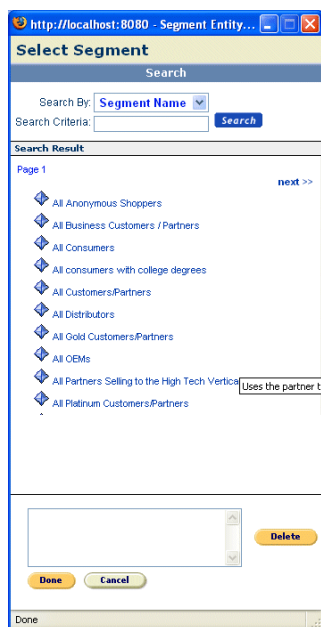


FIGURE 472. Segment Picker Pop-Up

You can search for segments by name, effective date, or status. To remove a segment from your list, click the segment name, then click **Remove**.

- c. To select a customer segment, click the segment name. The segment name displays in the Segment Picker text box. When you finish selecting segments, click **Done**.
4. Click **Save**.

To Modify a Promotion

1. Click **Promotions** in the Pricing Administration panel on the Sterling Multi-Channel Selling Solution home page.
2. On the Promotion Administration List page, click the promotion ID number from the current list of promotions.

The screenshot shows the 'Promotion Detail' page for a 'Digital Camera Promotion'. The page is part of the 'COMERGENT eBusiness System' and includes navigation links like 'My Home', 'My Account', 'About', 'Help', and 'Logout'. The page title is 'Promotion Detail Digital Camera Promotion' with a 'Go to Promotion List' link. The form is divided into two main sections: 'General Info on page.' and 'Promotion Controls'.

General Info on page.

Name * Digital Camera Promotion	Description Let us help you find the right Digital Camera for you.
Upload Image [Browse...]	Image Name DigiCamAdvisor.gif
URL []	

Promotion Controls

Start Date * 7/15/2005	Priority * 3	Enabled <input checked="" type="checkbox"/>
End Date * 9/30/2006	Partner Level -- Match All --	Locale * United States of America
Partner Type -- Match All --		
Product ID (Entering * will match all Products) [] Add		
CATALOG		

FIGURE 473. Promotion Detail Page

- On the Promotion Detail page, modify the appropriate entries.
- Click **Save**.

You can delete a promotion to remove it from the system (see "To Delete a Promotion" on page 775). Rather than deleting a promotion, however, you can disable it (by leaving the **Enabled** check box unchecked). This renders the promotion unusable until you want to reuse it.

To Delete a Promotion

- Click **Promotions** in the Pricing Administration panel on the Sterling Multi-Channel Selling Solution home page.
- Identify the promotion you want to delete, check its check box, and click **Delete**.

To Disable a Promotion

- Click **Promotions** in the Pricing Administration panel on the Sterling Multi-Channel Selling Solution home page.
- Identify the promotion you want to disable and click the link to its detail page.
- On the Promotion Detail page, uncheck the **Enabled** check box.
- Click **Save**.

Managing Features in Sterling Advisor

Features are attributes of products, and are created as part of a feature hierarchy. When your customers use your questionnaire, Sterling Advisor uses features to identify the products that interest them. This chapter describes the feature hierarchy and how to create it.

CHAPTER 4, "Introduction to Sterling Advisor" provides a description of Sterling Advisor and how it works as well as a short tutorial.

Working with Feature Type Groups

When you create a feature type, you can assign the feature type to a feature type group. When you build your feature hierarchy, create feature type groups first. How many feature type groups you create depends on how many different feature types you have, and how many of these feature types are related.

To Create a Feature Type Group

1. Click **Advisor Flows & Questionnaires** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.
2. In the Navigation panel, click the Feature Type Groups link to display the Feature Type Groups List Panel.

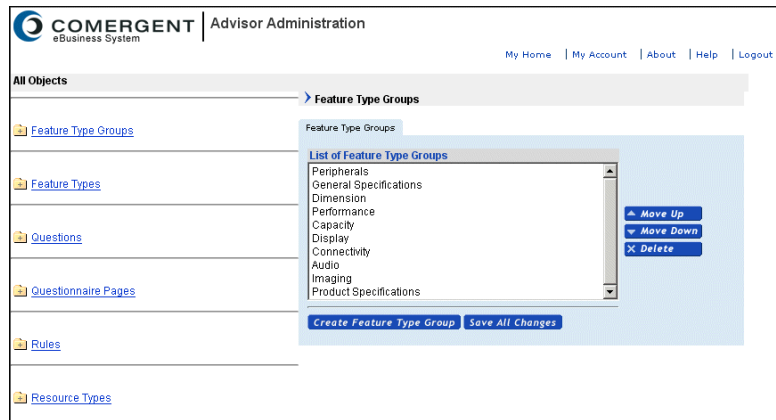


FIGURE 474. Feature Type Groups List Panel

3. In the Feature Type Groups List panel, click **Create Feature Type Group** to display the New Feature Type Group Panel.

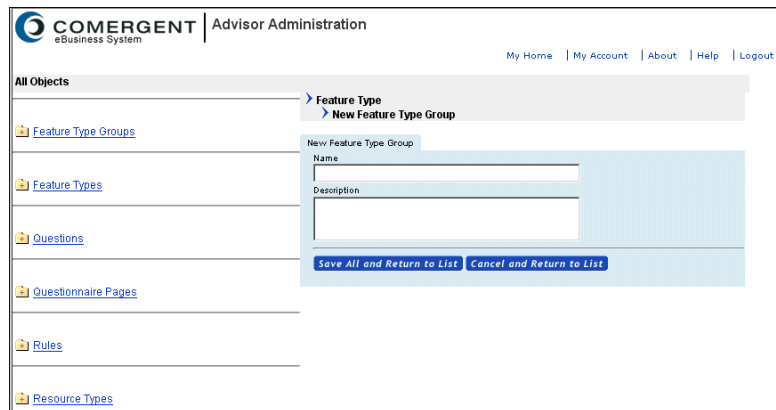


FIGURE 475. New Feature Type Group Panel

4. In the New Feature Type Group panel, enter a name and description for this feature type group.
5. Click **Save All and return to List**.
 - You return to the Feature Type Groups List panel.

- The new feature type group appears in the List of Feature Type Groups list box.
 - The new feature type group appears in the Navigation panel.
6. In the Navigation panel, click the new feature type group's link to display its detail panel.

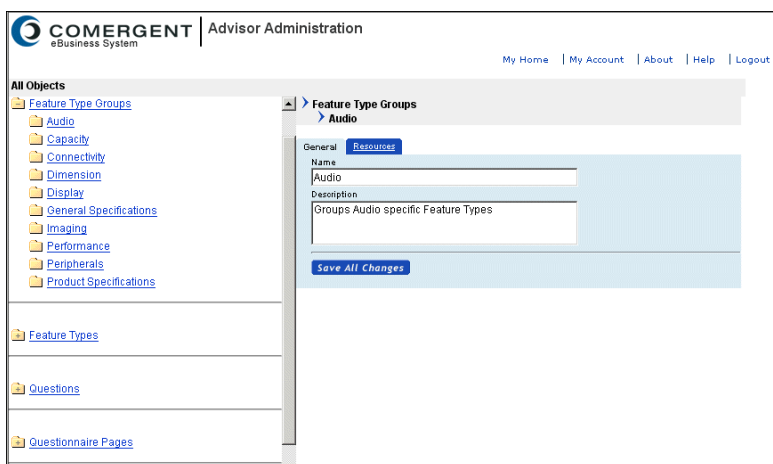


FIGURE 476. New Feature Type Group Detail Panel

7. To assign resources, click the **Resources** tab.

Assigning resources is optional and can be done at any time. If you do not want to assign a resource now, skip this step and go to Step 8.

For each resource you want to assign, follow the procedure in "To Assign a Resource to an Entity" on page 796.

8. Click **Save All Changes**.

To Modify a Feature Type Group

1. Click **Advisor Flows & Questionnaires** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.
2. Click the folder next to the Feature Type Groups link to expand the tree.
3. Click the link of the feature type group that you want to modify.

4. In the **General** tab make any necessary changes to the Name, and Description of the feature type group, and click **Save All Changes**.
5. If you want to assign or unassign resources, then click the **Resources** tab.
See "Resources and Resource Types" on page 118 for more detailed information about resources. The assignment of resources is optional, and can be done at any time. If you do not want to assign or unassign a resource now, then skip this step and go to Step 6.
 - For each resource you want to assign, follow the procedure "To Assign a Resource to an Entity" on page 796.
 - For each resource you want to unassign, follow the procedure "To Unassign a Resource from an Entity" on page 798.
6. Click **Save All Changes**.

To Delete a Feature Type Group

Deleting a feature type group automatically deletes any feature type that has that feature type group as an attribute.

1. Click **Advisor Flows & Questionnaires** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.
2. In Sterling Advisor Administration, click the Feature Type Group's link to display the Feature Type Groups List Panel.
3. In the List of Feature Type Groups list box, highlight the feature type group you want to delete, and click **Delete**.

The feature type group disappears from both the list box and the navigation panel.

4. Click **Save All Changes**.

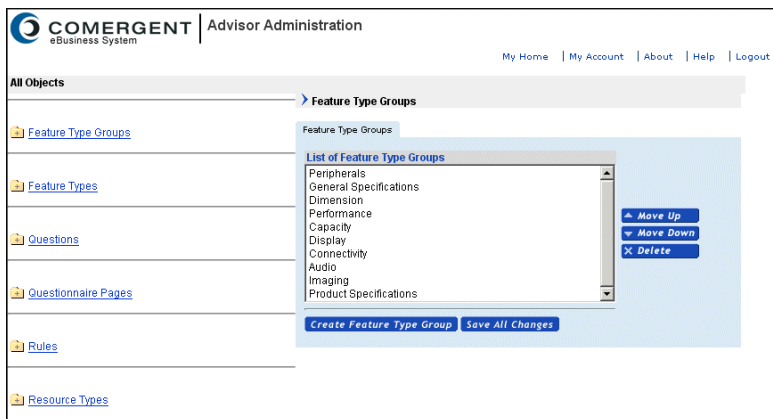


FIGURE 477. Feature Type Groups List Panel

Working with Feature Types

After you create your feature type groups, create your feature types. Feature types have the following properties:

- **Name**
The name of the feature type. Your customers will see this name.
- **Description**
This is a description for internal use. Your customers will never see this text.
- **Row type**
Row type determines how the features within the feature type are displayed when customers compare products this feature type.
 - **Multiple Feature Row** specifies that all of the features within this feature that apply to the product will appear in a single cell of the comparison table.
 - **Single Feature Row** specifies that each feature within this feature type will have its own row in the comparison table.

- Feature type group

This is where you attribute a specific feature type group to the feature type. This is optional.

In addition to these, you can specify whether the features associated with this feature type are included in product comparisons. You check either **Comparable** (to include) or **Incomparable** (to exclude).

To Create a Feature Type

1. Click **Advisor Flows & Questionnaires** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.
2. In the Navigation Panel, click the Feature Types link to display the Feature Types List Panel.

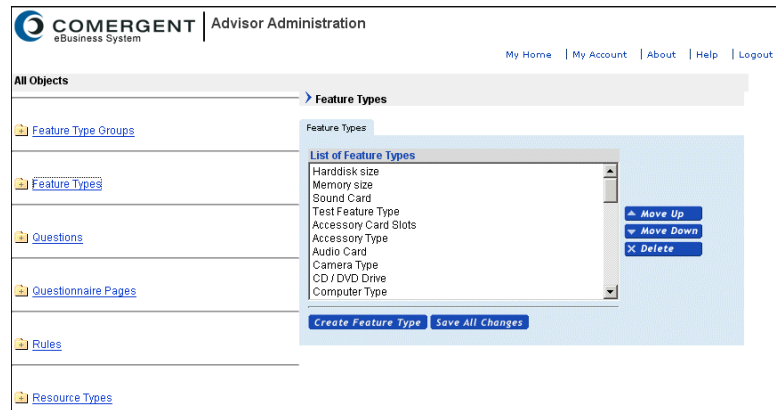


FIGURE 478. Feature Types List Panel

3. Click **Create Feature Type** to display the New Feature Type Panel.

The screenshot shows the 'COMERGENT eBusiness System' logo and 'Advisor Administration' title. A navigation bar includes links for 'My Home', 'My Account', 'About', 'Help', and 'Logout'. On the left, under 'All Objects', there is a list of links: 'Feature Type Groups', 'Feature Types', 'Questions', 'Questionnaire Pages', 'Rules', and 'Resource Types'. The 'Feature Types' link is selected, and the 'New Feature Type' panel is displayed on the right. This panel contains a 'Name' text field, a 'Description' text area, a 'Row Type' dropdown menu (currently set to 'Multiple Feature Row'), and a 'Feature Type Group' dropdown menu. A 'Use to compare' checkbox is checked. At the bottom of the panel are two buttons: 'Save All and Return to List' and 'Cancel and Return to List'.

FIGURE 479. New Feature Type Panel

4. Type a name and description for the new feature type in the appropriate fields.
5. In the Row Type drop-down list, choose the row type to apply to this feature type.

Row type determines how the features within the feature type will be displayed when products having this feature type are compared.

- **Multiple Feature Row** specifies that all of the features within this feature type that apply to the product will appear in a single cell of the comparison table.
 - **Single Feature Row** specifies that each feature within this feature type will have its own row in the comparison table.
6. (Optional) In the Feature Type Group drop-down list, choose the feature type group to attribute to this feature type.
 7. Check **Use to compare** to include all the features associated with the feature type in any product comparisons.

The **Use to compare** check box determines whether or not the features belonging to this type are included in a product comparison. When your customer uses your questionnaire to find products, they are free at any time to select two or more products from the product list, and compare them.

When they do this, Sterling Advisor generates and displays a *product comparison table*, which lists the products and the features they have, allowing your customer to compare the products.

Note: If you check **Use to compare** for a feature, then you must make sure that **Use to compare** is checked for its feature type also.

8. Click **Save All and Return to List**.

The following actions occur:

- You return to the Feature Types List Panel.
- The new feature type appears in the List of Feature Types list box.
- The new feature type appears in the Navigation panel.

9. In the Navigation panel, click the new feature type's link to display its detail panel.

10. Click the **Features** tab.

Create the features that need to exist within this feature type, using the procedure described in "To Create a Feature" on page 787.

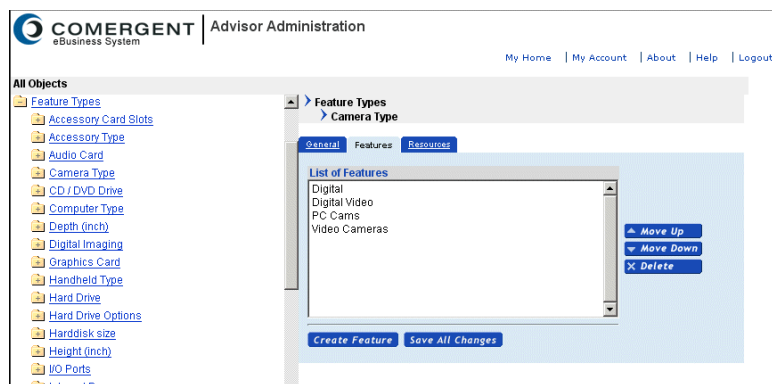


FIGURE 480. Feature Type Detail Panel: Features Tab

11. Click the **Resources** tab.

See "Resources and Resource Types" on page 118 for more detailed information about resources. The assignment of resources is optional, and can be done at any time. If you do not want to assign a resource now, then skip this step and go to Step 12.

- For each resource you want to assign, follow the procedure "To Assign a Resource to an Entity" on page 796.
- For each resource you want to unassign, follow the procedure in "To Unassign a Resource from an Entity" on page 798.

12. Click **Save All Changes**.

To Modify a Feature Type

1. Click **Advisor Flows & Questionnaires** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.
2. Click the folder next to the Feature Types link to expand the tree to display all existing feature types.
3. Click the link of the feature type that you want to modify to display its detail panel.
4. In the **General** tab make any necessary changes and click **Save All Changes**.
You can change Name, Description, Row Type, Feature Type Group, and Comparable/Incomparable of the feature type.
5. Click the **Resources** tab.

See "Resources and Resource Types" on page 118 for more detailed information about resources. The assignment of resources is optional, and can be done at any time. If you do not want to assign or unassign a resource now, then skip this step and go to Step 6.

Modifying resource assignment includes assigning and unassigning resources.

- For each resource you want to assign, follow the procedure "To Assign a Resource to an Entity" on page 796.
- For each resource you want to unassign, follow the procedure "To Unassign a Resource from an Entity" on page 798.

6. Click **Save All Changes**.

To Delete a Feature Type

Deleting a feature type automatically deletes its child features.

1. Click **Advisor Flows & Questionnaires** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.
2. In the Navigation Panel, click the Feature Types link to display the Feature Types List Panel.
3. In the List of Feature Types list box, highlight the feature type you want to delete, and click **Delete**.
4. Click **Save All Changes**.

Working with Features

Each feature is created as a member of a specific feature type. Features have the following properties:

- **Name**
This is the name you give the feature, and is also the name your customers will see.
- **Description**
This is a description for internal use. Your customers will never see this text.
- **Use to Compare**
The **Use to compare** check box determines whether or not the features belonging to this type are included in a product comparison. When your customer uses your questionnaire to find products, they are free at any time to select two or more products from the product list, and compare them. When they do this, Sterling Advisor generates and displays a *product comparison table*, which lists the products and the features they have, allowing your customer to compare the products.

Note: If you check **Use to compare** for a feature, then you must make sure that **Use to compare** is checked for its feature type also.
- **Start Date**
For features that are only effective over a specific time period, this defines when the feature becomes effective.

- End Date

For features that are only effective over a specific time period, this defines when the feature ceases to be effective.

To Create a Feature

1. Click **Advisor Flows & Questionnaires** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.
2. Click the folder next to the Feature Types link to expand the tree and display the list of existing feature types.
3. Click the link of the feature type in which you want to create the new feature to display that feature's detail panel.
4. Click the **Features** tab.

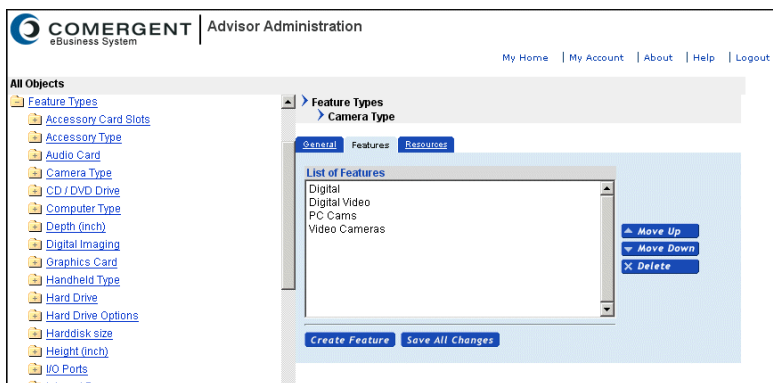


FIGURE 481. Feature Type Detail Panel: Features Tab

5. Click **Create Feature** to display the New Feature Panel.

The screenshot shows the 'COMERGENT eBusiness System' logo and 'Advisor Administration' title. Navigation links include 'My Home', 'My Account', 'About', 'Help', and 'Logout'. A left sidebar lists 'All Objects' under 'Feature Types', including 'Accessory Card Slots', 'Accessory Type', 'Audio Card', 'Camera Type', 'CD / DVD Drive', 'Computer Type', 'Depth (inch)', 'Digital Imaging', 'Graphics Card', 'Handheld Type', 'Hard Drive', 'Hard Drive Options', 'Harddisk size', 'Height (inch)', and 'I/O Ports'. The main panel is titled 'Feature Types' and 'Camera Type'. It contains a 'New Feature' section with 'Name' and 'Description' text boxes. Below these is a checked box 'Use to compare' followed by 'Start Date' (5 Oct 2005) and 'End Date' (5 Oct 2105) dropdowns. At the bottom are 'Save All and Return to List' and 'Cancel and Return to List' buttons.

FIGURE 482. New Feature Panel

6. Enter the name and description you want to give to the new feature.
7. If you want this feature to be used to compare products, then check the **Use to compare** box.
8. Use the Start Date and End Date controls to define the effectivity of the feature (if applicable).

Feature effectivity is described in the section "Feature Effectivity" on page 72.

9. Click **Save All and Return to List**.

The following actions occur:

- You return to the **Features** tab of the Feature Types Detail Panel.
 - The new feature appears in the List of Features list box.
 - The new feature appears in the Navigation panel.
10. Click the new feature's link to display its detail panel.
 11. Click the **Resources** tab.

See "Resources and Resource Types" on page 118 for more detailed information about resources. The assignment of resources is optional, and can be done at any time. If you do not want to assign a resource now, then skip this step and go to Step 12.

- For each resource you want to assign, follow the procedure "To Assign a Resource to an Entity" on page 796.
- For each resource you want to unassign, follow the procedure in "To Unassign a Resource from an Entity" on page 798.

12. Click **Save All Changes**.

To Modify a Feature

1. Click **Advisor Flows & Questionnaires** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.
2. Click the folder next to the Feature Types link to expand the tree and display all existing feature types.
3. Click the folder next to the feature type that includes the feature you want to modify to expand the tree and display all of the features that exist within that feature type.
4. Click the link of the feature that you want to modify to display that feature's Feature Detail Panel.

FIGURE 483. Feature Detail Panel

5. In the **General** tab make any necessary changes to Name, Description, Use To Compare, Start Date, and End Date, and click **Save All Changes**.

6. Click the **Resources** tab.

See "Resources and Resource Types" on page 118 for more detailed information about resources. The assignment of resources is optional, and can be done at any time. If you do not want to assign or unassign a resource now, then skip this step and go to Step 7.

Modifying resource assignment includes assigning and unassigning resources.

- For each resource you want to assign, follow the procedure "To Assign a Resource to an Entity" on page 796.
- For each resource you want to unassign, follow the procedure "To Unassign a Resource from an Entity" on page 798.

7. Click **Save All Changes**.

To Delete a Feature

1. Click **Advisor Flows & Questionnaires** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.
2. Click the folder next to the Feature Types link to expand the tree.
3. Click the link of the feature type that contains the feature you wish to delete.
The **General** tab of the Feature Type detail panel appears.
4. Click the **Features** tab.
The **Features** tab appears.
5. In the List of Features list box, highlight the feature you want to delete, and click **Delete**.
The feature disappears from the list box.
6. Click **Save All Changes**.

Managing Resources in Sterling Advisor

This chapter describes resource types and resources. Resources are electronic media you assign to the business objects in your questionnaire to enhance presentation.

CHAPTER 4, "Introduction to Sterling Advisor" provides a description of Sterling Advisor and how it works, as well as a short tutorial.

Working with Resource Types

A resource type business object is a definition. It has a type, a label, and a description.

- The *type* property is the unique name you give to a resource type for your internal use.
- The *label* is a text string that you define when you create a resource type. When you assign a resource of this type, this is the default label text. Note that you can define a unique label for each resource if you choose.
- The *description* property allows you to enter a description or your comments about that resource type for internal use. When you assign a resource of this type, this is the default description text. Note that you can define a unique description for each resource if you choose.

You decide how many resource types to create, and what those resource types should be. One approach is to create a resource type for each kind of resource you want to assign. In this case, you might create resource types such as "Photographic Images," "Data Sheets," "Promotions," and "URLs."

You can assign multiple resources to any of your business objects (entities), but you can only assign one resource of a given resource type to each entity. If you define three resource types, you can assign up to three resources to any entity.

For this reason, many administrators choose to create what seem to be redundant resource types. For example, if you create the resource types "Photographs1" and "Photographs2," you can assign two different photographic resources to an entity.

To Create a Resource Type

1. Click **Advisor Flows & Questionnaires** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.
2. In the Navigation panel, click the Resource Types link to display the Resource Types List Panel.

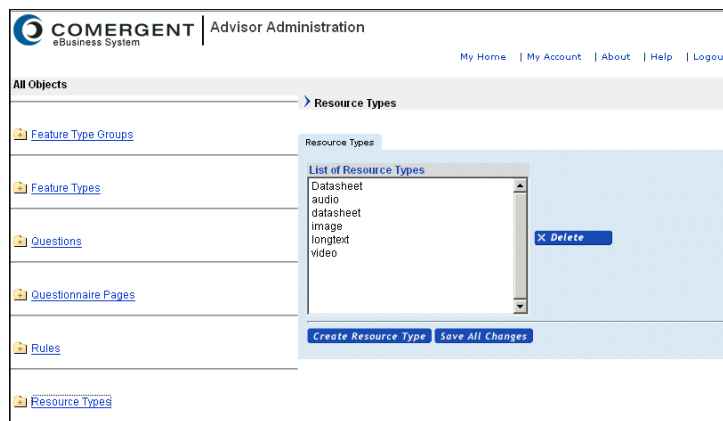


FIGURE 484. Resource Types List Panel

3. In the Resource Types panel, click **Create Resource Type** to display the New Resource Type Panel.

The screenshot displays the 'COMERGENT eBusiness System' logo and 'Advisor Administration' header. A navigation menu on the left lists 'All Objects' with links to 'Feature Type Groups', 'Feature Types', 'Questions', 'Questionnaire Pages', 'Rules', and 'Resource Types'. The 'Resource Types' link is selected, leading to a 'New Resource Type' form. The form contains three input fields: 'Type', 'Label', and 'Description'. Below the form are two buttons: 'Save All and Return to List' and 'Cancel and Return to List'.

FIGURE 485. New Resource Type Panel

4. In the New Resource Type panel, enter the appropriate information you want to give this resource type.
 - In the Type field, type the name of the resource type.
 - In the Label field, type the label.
 - In the Description field, type a description.
5. Click **Save All and Return to List**.

To Modify a Resource Type

1. Click **Advisor Flows & Questionnaires** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.
2. In the Navigation panel, click the folder next to the Resource Types link to expand the Resource Types tree so that it shows all existing resource types.

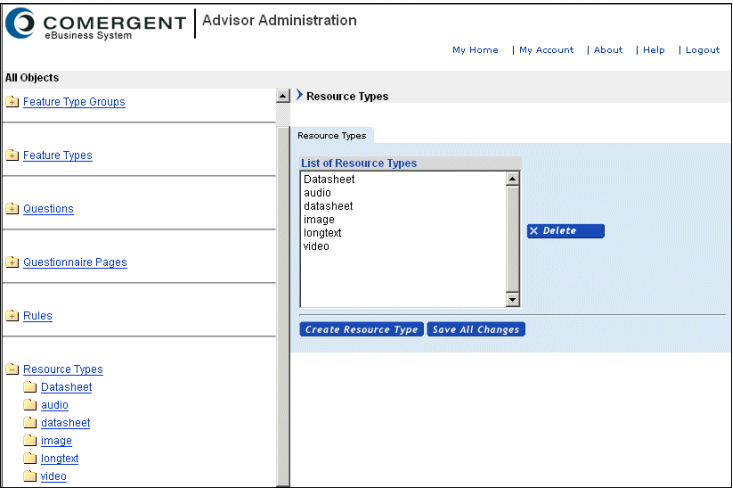


FIGURE 486. Resource Type Tree (expanded)

3. Click the link of the resource type you want to modify to show its detail panel.

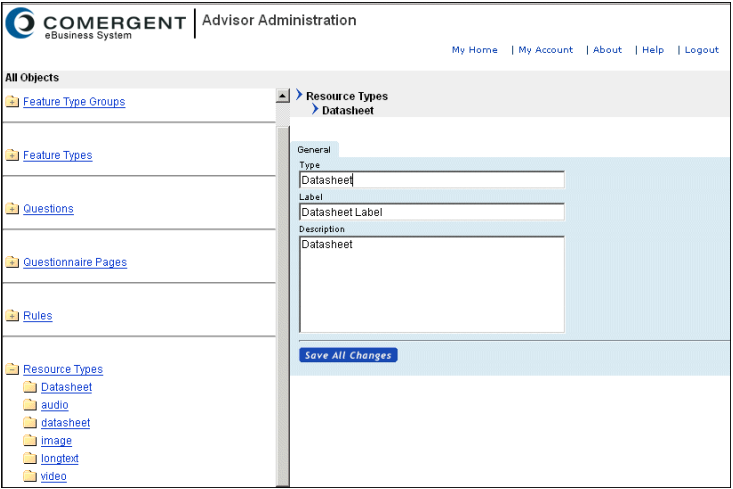


FIGURE 487. Resource Type Detail Panel

4. In the Resource Type detail panel, make any necessary changes.

5. Click **Save All Changes**.

To Delete a Resource Type

If you delete a resource type, then you automatically delete any resources of that resource type.

1. Click **Advisor Flows & Questionnaires** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.
2. In the Navigation panel, click the Resource Types link to display the Resource Types List Panel.

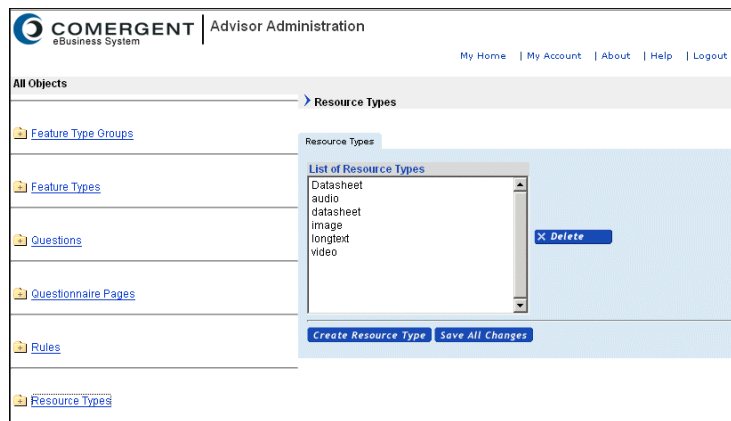


FIGURE 488. Resource Types List Panel

3. In the List of Resource Types list box, highlight the resource type you want to delete, and click **Delete**.

The resource type disappears from the List of Resource Types list box.

4. Click **Save All Changes**.

The resource type disappears from the Navigation panel.

When you delete a resource type, you also delete all resources of that type that have been assigned to entities.

Working with Resources

Because a resource can be one of many different kinds of things: a URL, a document file, and so on, the Sterling Advisor handles resources differently than it does business objects of a known type. Instead of creating resources as business objects, you assign a resource type to an entity (feature type group, feature type, and so on), and then define the location of the resource (the path to a file or a URL that displays the information).

The management of resources includes assigning resources to entities and unassigning resources from entities. Resource assignment is performed in the **Resources** tab of the detail panel of the business object to which you are assigning the resource. For example, to assign a resource to a question (or to unassign a resource from a question), you must go to the **Resources** tab of that question's detail panel. Every kind of entity that can have a resource assigned to it has a **Resources** tab. The process for assigning and unassigning is the same, regardless of the kind of entity.

To Assign a Resource to an Entity

1. Click **Advisor Flows & Questionnaires** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.
2. In the Navigation Panel, click the folder of the entity type to which you want to assign a resource to display the list of existing entities of that type.
3. Click the link of the entity to which you want to assign a resource to display its detail panel.
4. Click the **Resources** tab.

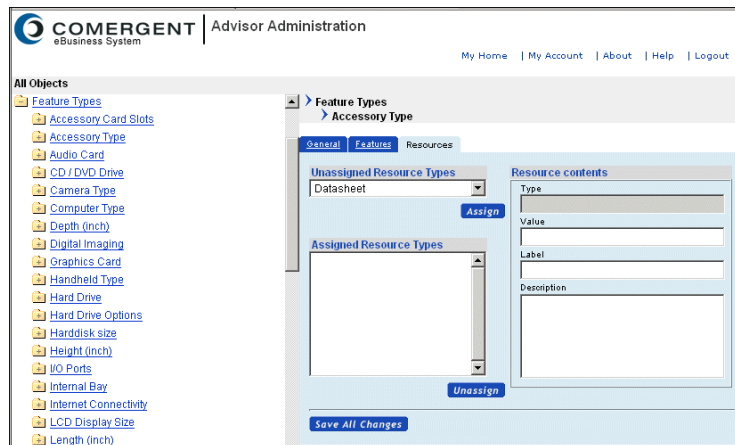


FIGURE 489. Resources Tab

5. In the Unassigned Resource Types drop-down list, select the resource type you want to assign to this entity, and click **Assign**.

The following things occur:

- The resource type disappears from the Unassigned Resource Types drop-down list and appears in the Assigned Resource Types list box.
 - The resource type appears in the Type field.
 - The resource type's label appears in the Label field.
 - The resource type's description appears in the Description text box.
6. In the Value field, type the location of the resource you want to assign.
This can be either a path to the file selected as the resource, or it can be a URL to a Web page that displays the information for the resource.
 7. (Optional) In the Label field, type the text you want to use as a label for the resource when it is displayed on a questionnaire page.

When you assign a resource type, its label is automatically populated in the Label field. You can choose to use this label if you want. You only need to overwrite the label if you want to give the resource a label that is different from the resource type's label.

8. (Optional) In the Description field, type the text you want to use as a description for the resource when it is displayed on a questionnaire page.

When you assign a resource type, the resource type's description is automatically populated in the Description field. You can choose to use this description if you want. You only need to overwrite the description if you want to give the resource a description that is different from the resource type's.

9. Click **Save All Changes**.

To Unassign a Resource from an Entity

1. Click **Advisor Flows & Questionnaires** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.
2. In the Navigation Panel, click the folder of the entity type from which you want to unassign a resource to display the list of existing entities of that type.
3. Click the link of the entity from which you want to unassign a resource to display its detail panel.
4. Click the **Resources** tab.

The resource types currently assigned to the entity are displayed in the Assigned Resource Types list box (Figure 490 on page 799).

5. In the Assigned Resource Types list box, select the resource type you want to unassign.

The defined value, label, and description for the resource appear in the appropriate fields.

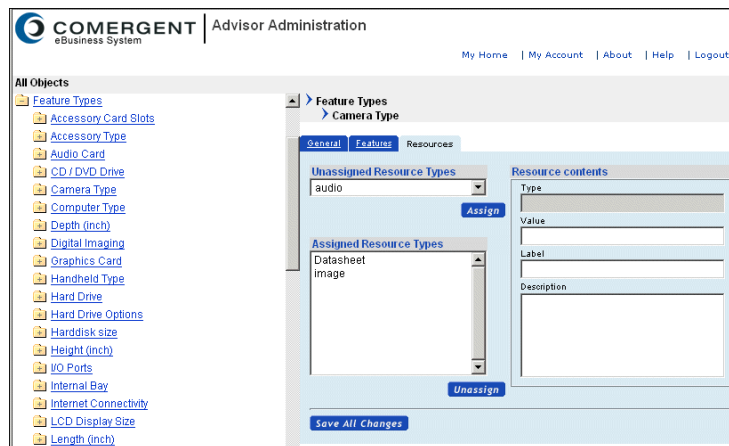


FIGURE 490. Resources Tab with Assigned Resources

6. Click **Unassign**.

The following things occur:

- The resource type disappears from the Assigned Resource Types list box and appears in the Unassigned Resource Types drop-down list.
- The Value, Label, and Description fields are emptied.

7. Click **Save All Changes**.

Managing Questionnaire Pages in Sterling Advisor

This chapter describes how to create and manage your questionnaire pages. Questionnaire pages are the part of your questionnaire that your customers see. They can display one or more questions, and they usually display the product list as well.

See CHAPTER 4, "Introduction to Sterling Advisor" for a description of Sterling Advisor and how it works as well as a short tutorial.

Attention: Sterling Advisor will not work unless you create and activate a search index. See "Administering Advanced Search" on page 437 for more information.

Working with Questionnaire Pages

Working with questionnaire pages entails defining their properties and also managing the assignment of questions to questionnaire pages. The properties of a questionnaire page are:

- The name of the questionnaire page.

This is the name you give the questionnaire page for internal use.

- A description of the questionnaire page
This is a description of the page for internal use.
- The name of a template JSP page to use with the questionnaire page.
Enables you to specify a JSP page to render the questionnaire page. If left blank, then the JSP defaults to a JSP page defined in the Business Rules Manager. See CHAPTER 39, "Business Rules Administration" for more information about setting this default.
- Show Product List.
Enables you to show or not show the product list for preliminary questionnaire pages that contain a long list of matching products. Instead the product list will appear only on later questionnaire pages that contain a short list of matching products.
- The number of columns in the question panel.
This determines how many columns of questions will display in the question panel of the questionnaire page.

You determine which questions are assigned to the questionnaire page, and specify the sequence in which these questions are displayed on the page. As you create other pages that are part of the questionnaire, you will also need to set which of your questionnaire pages will be the start page.

In addition, you can assign resources to a questionnaire page.

Note that within the question panel questions are displayed left to right across columns. Thus, if a questionnaire page has five assigned questions, and is defined to have three columns, then the first row will display three questions, and the next row will display two questions.

To Create a Questionnaire Page

1. Click **Advisor Flows & Questionnaires** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.
2. In the Navigation panel, click the Questionnaire Pages link to display the Questionnaire Pages List Panel.

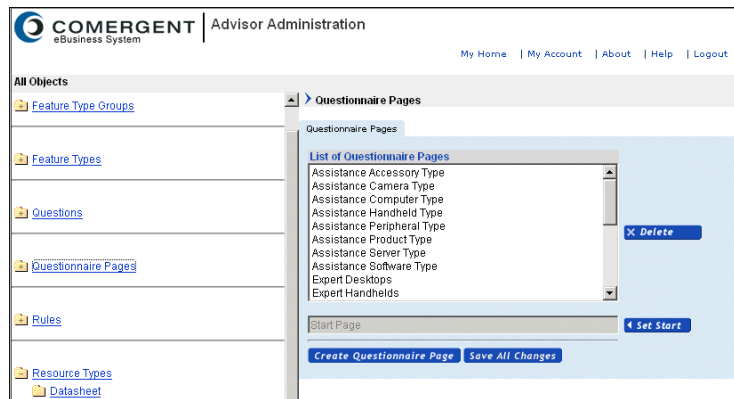


FIGURE 491. Questionnaire Pages List Panel

3. In the Questionnaire Pages List Panel, click **Create Questionnaire Page** to display the New Questionnaire Page Panel.

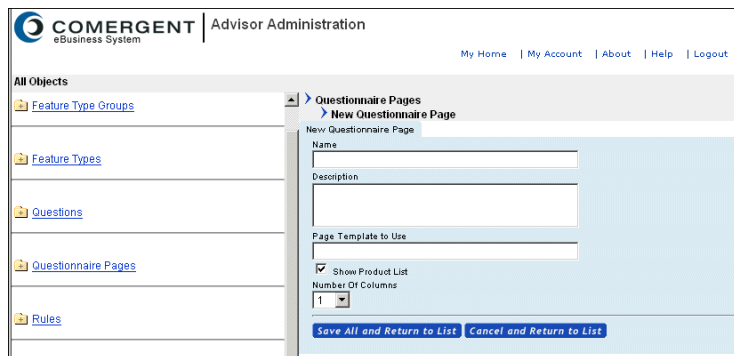


FIGURE 492. New Questionnaire Page Panel

4. Type the Name and Description of the new questionnaire page in the appropriate fields.

5. (Optional) Type the name of the template JSP page you want to use to render the questionnaire page.

If you leave this field blank, then the JSP page defaults to a page defined in a system property. See "Enterprise System Administration" on page 1075 for information on accessing the system properties.

6. Leave the box checked next to **Show Product List** if you want your customer to see a list of products that match the customer's requirements displayed on the questionnaire page. If you uncheck this box, then the questionnaire page does not display the list of products that currently match the answers given by the customer.

In general, use this check box to avoid the display of preliminary questionnaire pages with a long list of matching products. You should design the questionnaire so that the list of matching products is displayed only on later questionnaire pages when the list of matching products is shorter.

7. Select the number of columns to be displayed in the question panel of the questionnaire page from the drop-down menu in the Number of Columns field.
8. Click **Save All and Return to List**.

The following actions occur:

- You return to the Questionnaire Pages List Panel.
 - The new questionnaire page appears in the List of Questionnaire Pages list box.
 - The new questionnaire page appears in the Navigation panel.
9. In the Navigation panel, click the new questionnaire page's link to display its detail panel.

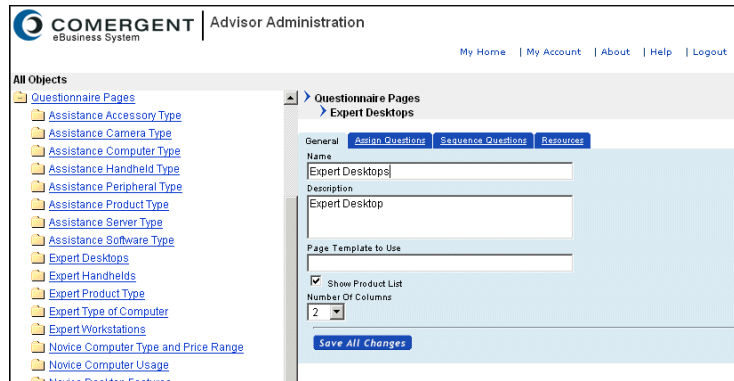


FIGURE 493. Questionnaire Page Detail Panel

10. Click the **Assign Questions** tab.

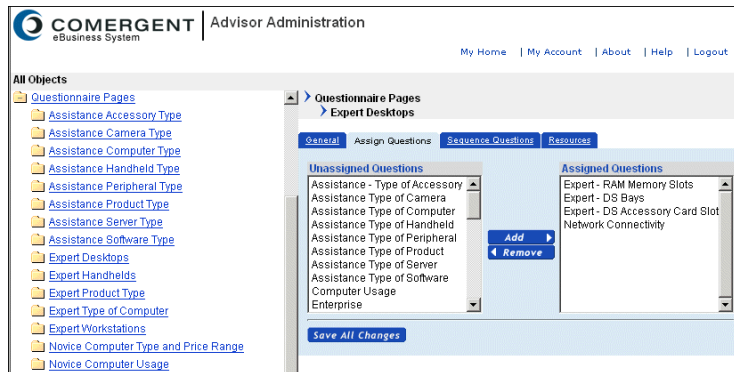


FIGURE 494. Questionnaire Page Detail Panel: Assign Questions Tab

11. In the Unassigned Questions list box, highlight the questions that you want to assign to this questionnaire page, and click **Add**.

The highlighted questions move from the Unassigned Questions list box to the Assigned Questions list box.

12. Click **Save All Changes**.

13. Click the **Sequence Questions** tab.

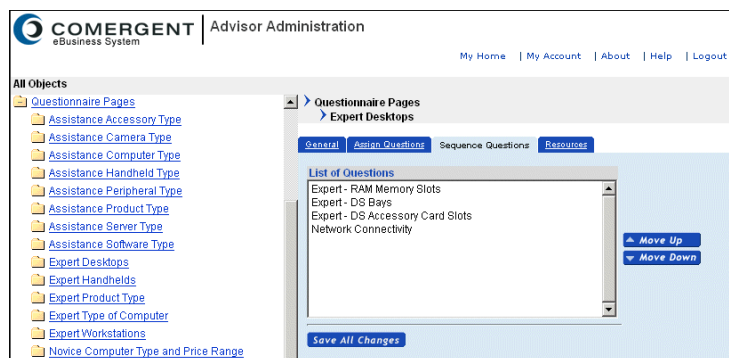


FIGURE 495. Questionnaire Page Detail Panel: Sequence Questions Tab

14. One at a time, highlight each question and use the up and down arrows to sequence the questions as they should appear on the questionnaire page when it is displayed.
15. Click **Save All Changes**.
16. Click the **Resources** tab.

The assignment of resources is optional, and can be done at any time. If you do not want to assign a resource now, then skip this step and go to Step 18.

17. For each resource you want to assign, follow the procedure "To Assign a Resource to an Entity" on page 796.
18. Click **Save All Changes**.

To Modify a Questionnaire Page

1. Click **Advisor Flows & Questionnaires** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.
2. Click the folder next to the Questionnaire Pages link to expand the tree and display all existing questionnaire pages.
3. Click the link of the questionnaire page that you want to modify to display its detail panel.

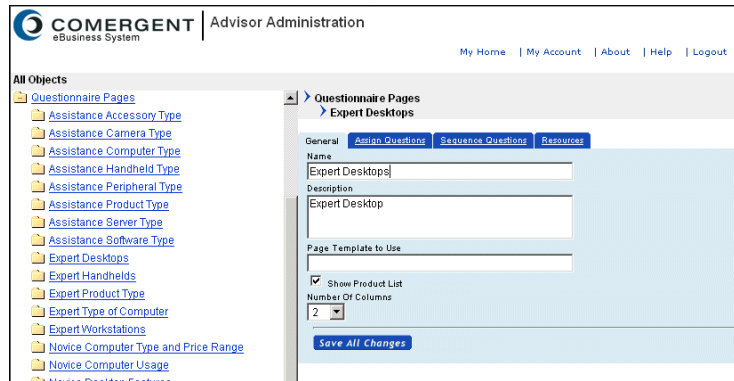


FIGURE 496. Questionnaire Page Detail Panel

4. In the **General** tab, make any necessary changes to the Name, Description, and Number of Columns.
5. Click **Save All Changes**.
6. Click the **Assign Questions** tab.

Modifying question assignment comprises assigning new questions and unassigning existing ones.

- To assign a new question to the questionnaire page, highlight the question in the Unassigned Questions list box, and click **Add**.
- To unassign a question that is currently assigned to the questionnaire page, highlight the question in the Assigned Question list box, and click **Remove**.

7. Click **Save All Changes**.
8. Click the **Sequence Questions** tab.
9. Use the up and down arrows to order the questions in the sequence in which they need to be displayed on the questionnaire page.
10. Click **Save All Changes**.

11. Click the **Resources** tab.

The assignment of resources is optional, and can be done at any time. If you do not want to assign or unassign a resource now, then skip this step and go to Step 12.

Modifying resource assignment includes assigning and unassigning resources.

- For each resource you want to assign, follow the procedure "To Assign a Resource to an Entity" on page 796.
- For each resource you want to unassign, follow the procedure "To Unassign a Resource from an Entity" on page 798.

12. Click **Save All Changes**.

To Delete a Questionnaire Page

1. Click **Advisor Flows & Questionnaires** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.
2. Click the folder next to the Questionnaire Pages link to expand the tree and display all existing questionnaire pages.

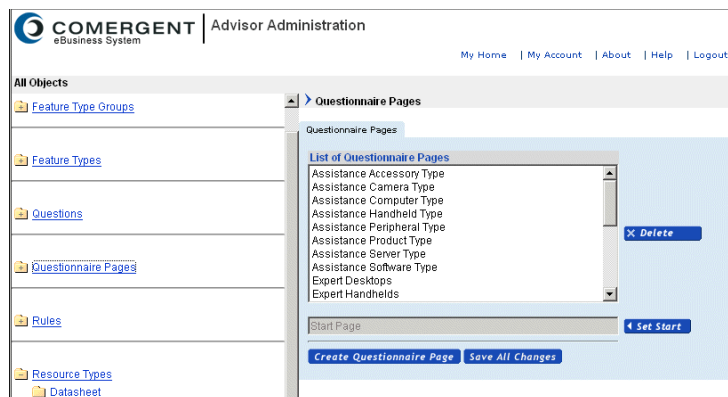


FIGURE 497. Questionnaire Pages List Panel

3. In the Questionnaire Pages List Panel, highlight the questionnaire page you want to delete, and click **Delete**.
4. Click **Save All Changes**.

To Assign Questions and Sequence Questions

1. Click **Advisor Flows & Questionnaires** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.
2. Click the folder next to the Questionnaire Pages link to expand the tree and display all existing questionnaire pages.
3. Click the link of the questionnaire page to which you want to assign a question to display that questionnaire page's detail panel.

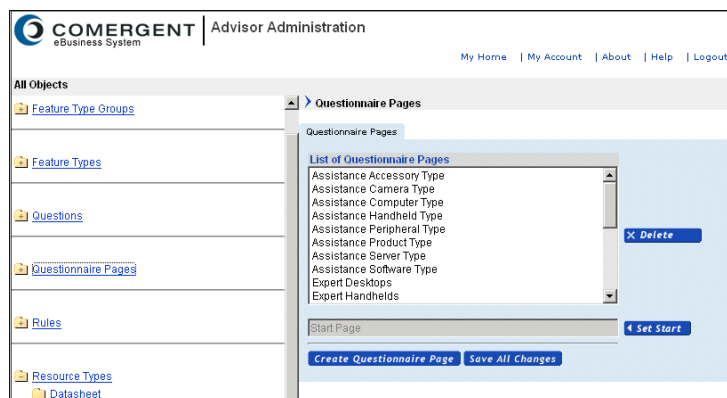


FIGURE 498. Questionnaire Page Detail Panel

4. Click the **Assign Questions** tab.

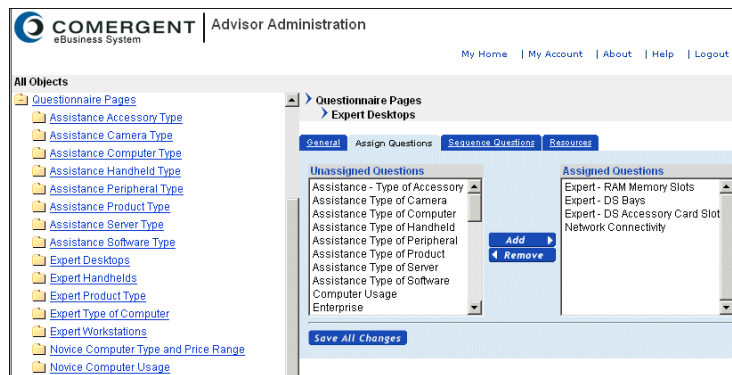


FIGURE 499. Questionnaire Page Detail Panel: Assign Questions Tab

5. In the Unassigned Questions list box, highlight the question or questions you want to assign to this questionnaire page, and click **Add**.

The highlighted questions move from the Unassigned Questions list box to the Assigned Questions list box.

6. Click **Save All Changes**.
7. Click the **Sequence Questions** tab.

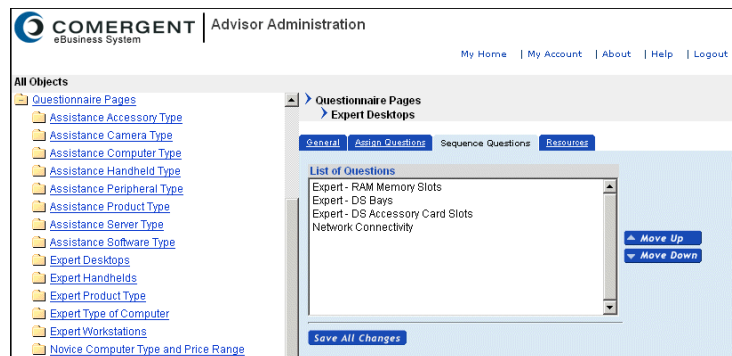


FIGURE 500. Questionnaire Page Detail Panel: Sequence Questions Tab

8. In the List of Questions list box, highlight the question you want to reposition, and use the up and down arrows to move it to its proper position in the sequence.

Repeat this step until the list of questions appears in the order in which you want them to be displayed.

9. Click **Save All Changes**.

To Set the Start Page

1. Click **Advisor Flows & Questionnaires** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.
2. Click the folder next to the Questionnaire Pages link to expand the tree and display all existing questionnaire pages.
3. In the Navigation panel, click the Questionnaire Pages link to display the Questionnaire Pages List Panel.

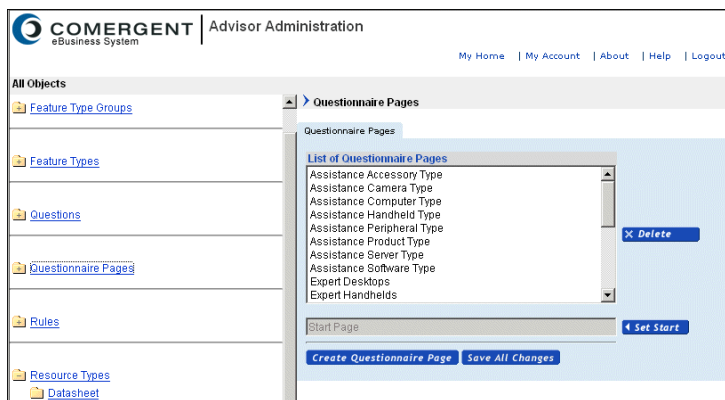


FIGURE 501. Questionnaire Pages List Panel

4. In the List of Questionnaire Pages list box, highlight the page that you want to set as the start page, and click **Set Start**.

You can only specify one start page. If you highlight multiple questionnaire pages and click Set Start Page, then you will get an error message. If you have already set a start page, and then highlight and set a different page, then the new page takes the place of the old one as the start page.

5. Click **Save All Changes**.

Managing Questions and Answers in Sterling Advisor

This chapter describes how you create and manage questions and answers. Answers map to features, which allows the questionnaire to identify products by the answers your customers choose. Both questions and answers are also key elements in the rules you create.

CHAPTER 4, "Introduction to Sterling Advisor" provides a description of Sterling Advisor and how it works as well as a short tutorial.

Working with Questions

Creating and managing a question entails defining its properties and creating its answers. This section deals with managing a question's properties. The section "Working with Answers" on page 818 describes how you manage the answers within a question.

Managing questions includes creating, modifying, and deleting.

To Create a Question

1. Click **Advisor Flows & Questionnaires** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.

2. In the Navigation Panel, click the Questions link to display the Questions List Panel.

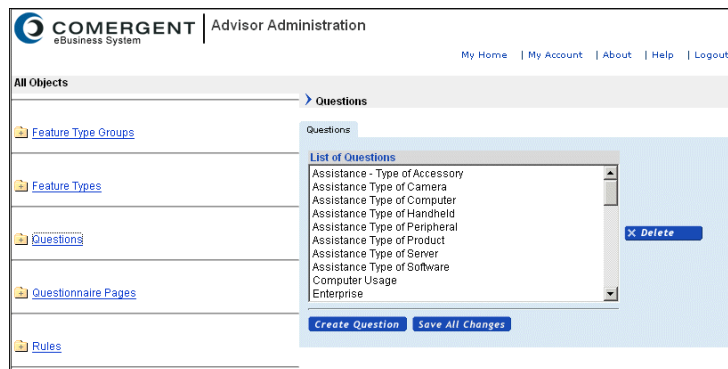


FIGURE 502. Questions List Panel

3. In the Questions List Panel, click **Create Question** to display the New Question Panel.

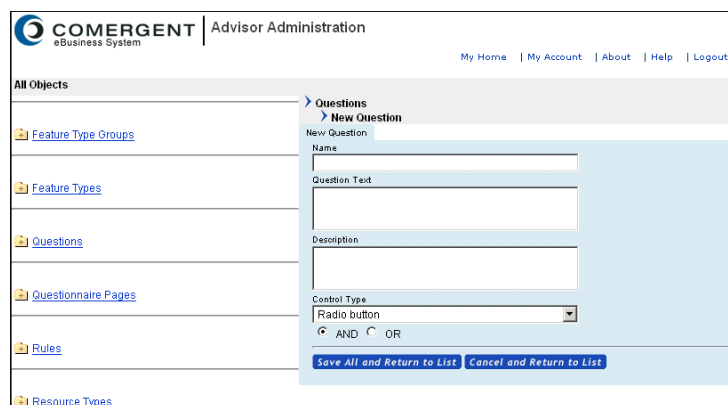


FIGURE 503. New Question Panel

4. Type the Name, Question Text, and Description for the new question in the appropriate fields.

5. Choose the kind of control that should be applied to the question's answers.
You can choose either Check Box, Drop-down List, or Radio Button.
6. Click **Save All and Return to List**.
The following actions occur:
 - You return to the Questions List Panel.
 - The new question appears in the List of Questions list box.
 - The new question appears in the Navigation panel.
7. Click the new question's link in the Navigation panel to display its detail panel.
8. Click the **Answers** tab
Follow the procedure "To Create an Answer" on page 818 to create the question's answers.
9. Click the **Resources** tab.
The assignment of resources is optional, and can be done at any time. If you do not want to assign a resource now, then skip this step and go to Step 11.
10. For each resource you want to assign, follow the procedure "To Assign a Resource to an Entity" on page 796.
11. Click **Save All Changes**.

To Modify a Question

1. Click **Advisor Flows & Questionnaires** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.
2. Click the folder next to the Questions link to expand the tree and display all of the existing questions.
3. Click the link of the question that you want to modify to display its detail panel.

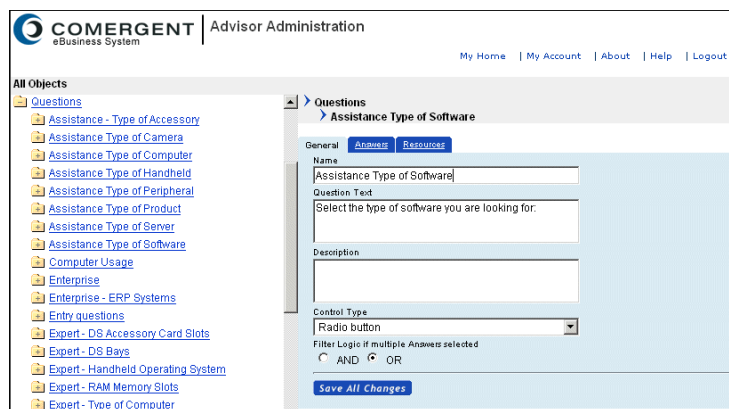


FIGURE 504. Question Detail Panel

4. In the **General** tab, make any necessary changes to the Name, Question Text, Description, or Control Type.
 - To change the information for Name, Question Text, or Description, type your changes in the appropriate field.
 - To change the Control Type, select a different control from the drop-down list.
5. Click **Save All Changes**.
6. Click the **Answers** tab.
7. In the **Answers** tab (see Figure 505 on page 817), make any necessary changes to the Question's answers.
 - To create a new answer, follow the procedure "To Create an Answer" on page 818.
 - To delete an answer, follow the procedure "To Delete an Answer" on page 826.
 - To reorder the answers, select each answer one at a time, and use the up and down arrows to position the answer in its proper place in the sequence.

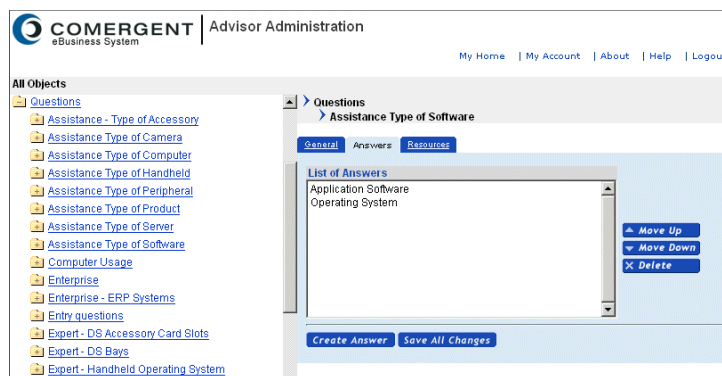


FIGURE 505. Question Detail Pane: Answers Tab

8. Click **Save All Changes**.

9. Click the **Resources** tab.

The assignment of resources is optional, and can be done at any time. If you do not want to assign or unassign a resource now, then skip this step and go to Step 10.

Modifying resource assignment includes assigning and unassigning resources.

- For each resource you want to assign, follow the procedure "To Assign a Resource to an Entity" on page 796.
- For each resource you want to unassign, follow the procedure "To Unassign a Resource from an Entity" on page 798.

10. Click **Save All Changes**.

To Delete a Question

Deleting a question automatically deletes all of that question's answers.

1. In the Sterling Advisor Administration page, click the Questions link to display the Questions List Panel.
2. In the List of Questions list box, highlight the question you want to delete, and click **Delete**.

The question disappears from the list box.

3. Click **Save All Changes**.

Working with Answers

Creating and managing answers entails defining its properties and assigning features to it. This section describes how to manage both a answer's properties and its feature assignments.

To learn about managing features, see "Working with Features" on page 786.

Managing answers includes creating, modifying, and deleting answers, as well as assigning features.

To Create an Answer

1. Click **Advisor Flows & Questionnaires** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.
2. Click the folder next to the Questions link to expand the tree and display all existing questions.
3. Click the link of the question in which you want to create the new answer to display its detail panel.
4. Click the **Answers** tab.

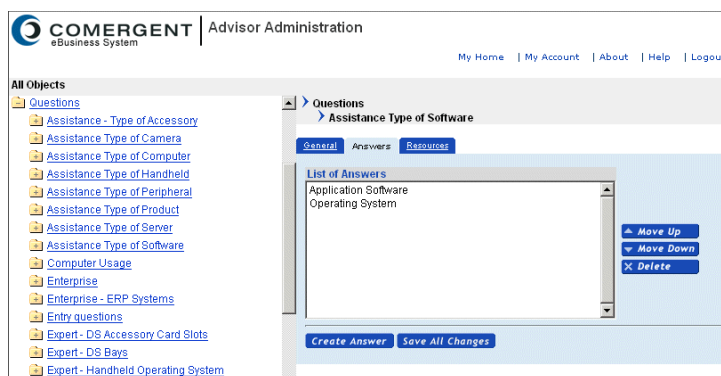


FIGURE 506. Question Detail Panel: Answers Tab

5. Click **Create Answer** to display the New Answer Panel.

The screenshot displays the 'COMERGENT eBusiness System' Advisor Administration interface. On the left, under 'All Objects', a list of categories is shown, including 'Questions' and various 'Assistance Type' categories like 'Assistance Type of Accessory', 'Assistance Type of Camera', 'Assistance Type of Computer', 'Assistance Type of Handheld', 'Assistance Type of Peripheral', 'Assistance Type of Product', 'Assistance Type of Server', 'Assistance Type of Software', 'Computer Usage', 'Enterprise', 'Enterprise - ERP Systems', 'Entry questions', 'Expert - DS Accessory Card Slots', 'Expert - DS Bays', and 'Expert - Handheld Operating System'. The main panel on the right is titled 'Questions' and 'Assistance Type of Software'. It contains a 'New Answer' section with three input fields: 'Name', 'Answer Text', and 'Description'. Below these fields is a 'Filter Logic for features assigned to Answers' section with radio buttons for 'AND' and 'OR'. At the bottom of the panel are two buttons: 'Save All and Return to List' and 'Cancel and Return to List'.

FIGURE 507. New Answer Panel

6. Type the name, answer text, and description you want to give to the new answer in the appropriate fields.
7. Click **Save All and Return to List**.

The following actions occur:

- You return to the **Answers** tab of the Questions Detail Panel.
 - The new answer appears in the List of Answers list box.
 - The new answer appears in the Navigation Panel under the condition for which you created it.
8. Click the new answer's link in the Navigation panel to display its detail panel.

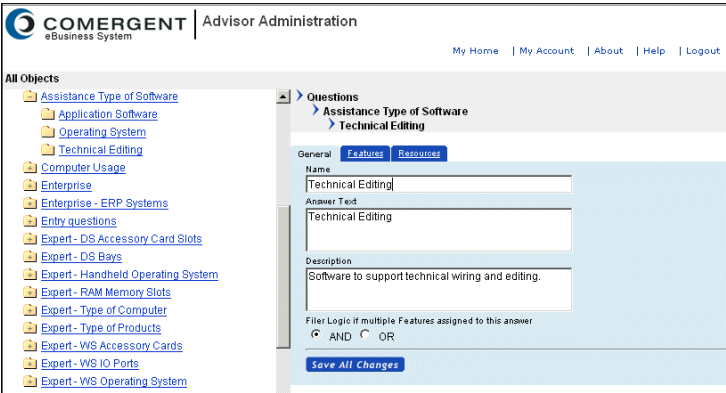


FIGURE 508. Answer Detail Panel: General Tab

9. Click the **Features** tab.

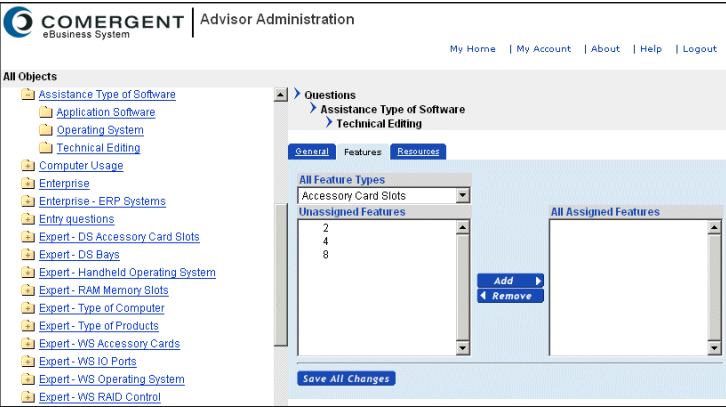


FIGURE 509. Answer Detail Panel: Features Tab

10. In the Feature Types drop-down list, select the feature type that includes the feature type or types you want to assign.

All of the available features in that feature type appear in the Unassigned Features list box.

11. Highlight the feature or features you want to assign to this answer, and click **Add**.

The highlighted features move from the Unassigned Features list box to the Assigned Features list box. These features appear in the Assigned Features list box under their feature type.

12. Click **Save All Changes**.

13. Click the **Resources** tab.

The assignment of resources is optional, and can be done at any time. If you do not want to assign a resource now, then skip this step and go to Step 15.

14. For each resource you want to assign, follow the procedure "To Assign a Resource to an Entity" on page 796.

15. Click **Save All Changes**.

To Modify an Answer

1. Click **Advisor Flows & Questionnaires** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.
2. Click the folder next to the Questions link to expand the tree to display all existing questions.
3. Click the folder next to the question that includes the answer you want to modify to display all of the answers that exist within that question.
4. Click the link of the answer that you want to modify to display its detail panel.

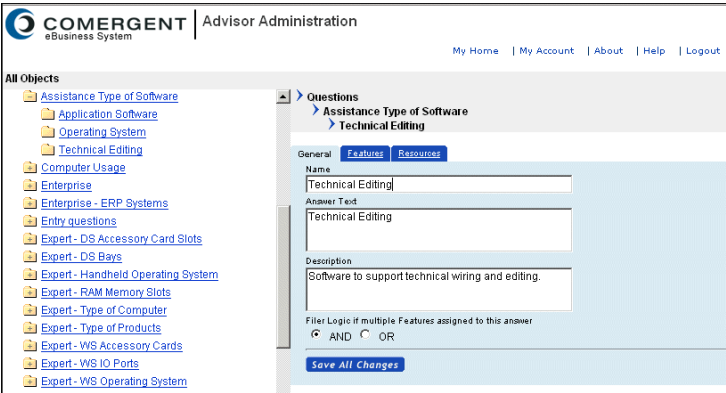


FIGURE 510. Answer Detail Panel

5. In the **General** tab make any necessary changes to the Name, Question Text, Description, or Control Type. To change the information for Name, Description, or Answer Text, type your changes in the appropriate field.
6. Click **Save All Changes**.
7. Click the **Features** tab.

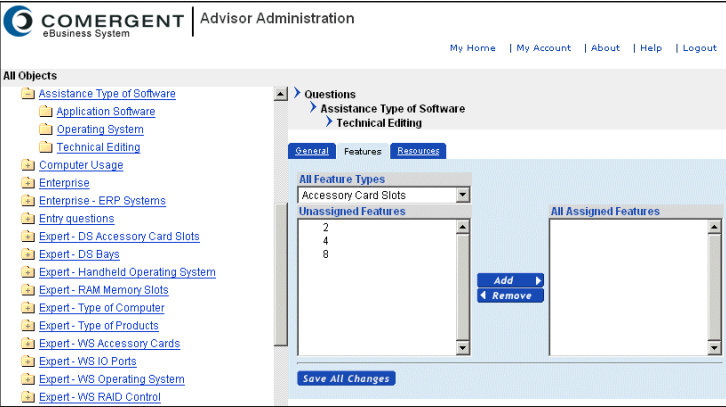


FIGURE 511. Answer Detail Panel: Features Tab

8. Use the **Add** and **Remove** buttons to assign new features or unassign existing ones as needed.

To assign a feature:

- a. In the Feature Types drop-down list, select the feature type that includes the feature type or types you want to assign.

All of the available features in that feature type appear in the Unassigned Features list box.

- b. Highlight the feature or features you want to assign to this answer, and click **Add**.

Note that you can highlight and assign multiple features at once.

The highlighted features move from the Unassigned Features list box to the Assigned Features list box. These features appear in the Assigned Features list box under their feature type.

- c. Click **Save All Changes**.

To unassign a feature:

- a. Highlight the feature in the Assigned Features list box and click **Remove**.

The highlighted features move from the Assigned Features list box to the Unassigned Features list box.

- b. Click **Save All Changes**.

Note that you can unassign all the assigned features of a given feature type by highlighting the name of the feature type and clicking **Remove**.

9. Click the **Resources** tab.

The assignment of resources is optional, and can be done at any time. If you do not want to assign or unassign a resource now, then skip this step and go to Step 10.

Modifying resource assignment includes assigning and unassigning resources.

- For each resource you want to assign, follow the procedure "To Assign a Resource to an Entity" on page 796.
- For each resource you want to unassign, follow the procedure "To Unassign a Resource from an Entity" on page 798.

10. When you have finished modifying the answer, click **Save All Changes**.

To Assign a Feature to an Answer

1. Click **Advisor Flows & Questionnaires** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.
2. Click the folder next to the Questions link to expand the tree to display all existing questions.
3. Click the folder next to the question that includes the answer you want to modify to display all of the answers that exist within that question.
4. Click the link of the answer to which you want to assign a feature to display its detail panel.
5. Click the **Features** tab.

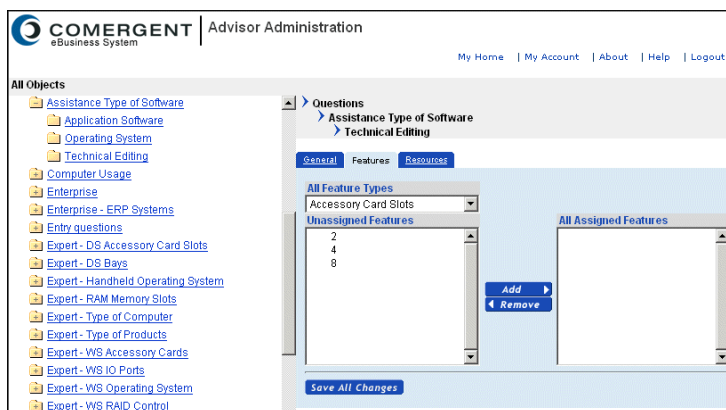


FIGURE 512. Answer Detail Panel: Features Tab

6. In the Feature Types drop-down list, select the feature type that includes the feature type or types you want to assign.

All of the available features in that feature type appear in the Unassigned Features list box.

7. Highlight the feature or features you want to assign to this answer, and click **Add**.

The highlighted features move from the Unassigned Features list box to the Assigned Features list box. These features appear in the Assigned Features list box under their feature type.

8. Click **Save All Changes**.

Note that you can highlight and assign multiple features at once.

To Unassign a Feature from an Answer

1. Click **Advisor Flows & Questionnaires** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.
2. Click the folder next to the Questions link to expand the tree to display all existing questions.
3. Click the folder next to the question that includes the answer you want to modify to display all of the answers that exist within that question.
4. Click the link of the answer from which you want to unassign a feature to display its detail panel.
5. Click the **Features** tab.

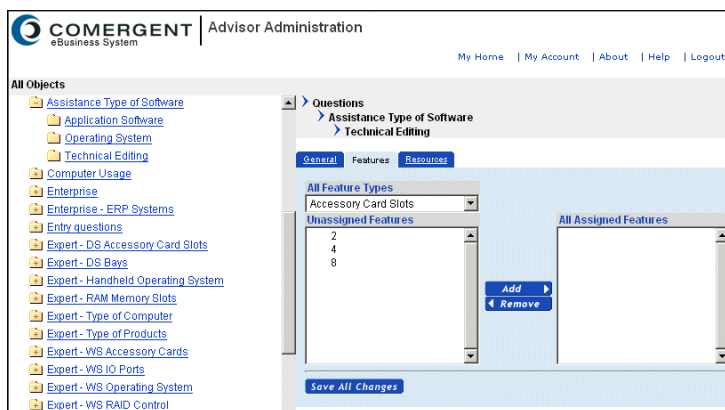


FIGURE 513. Answer Detail Panel: Features Tab

6. In the All Assigned Features list box, select the feature that you want to unassign.

Note that you can select all of the features of a feature type by selecting just the feature type. Also, you can select more than one feature at a time in the All Assigned Features list box.

7. Click **Remove**.

The highlighted features move from the All Assigned Features list box to the Unassigned Features list box.

8. Click **Save All Changes**.

Note that you can highlight and unassign multiple features at once.

To Delete an Answer

1. Click **Advisor Flows & Questionnaires** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.
2. Click the folder next to the Questions link to expand the tree to display all existing questions.
3. Click the link of the question that contains the answer you wish to delete to display that question's detail panel.

The screenshot shows the 'Advisor Administration' interface for 'COMERGET eBusiness System'. On the left, under 'All Objects', the 'Questions' folder is expanded, showing a list of question types such as 'Assistance - Type of Accessory', 'Assistance Type of Camera', 'Assistance Type of Computer', 'Assistance Type of Handheld', 'Assistance Type of Peripheral', 'Assistance Type of Product', 'Assistance Type of Server', 'Assistance Type of Software', 'Computer Usage', 'Enterprise', 'Enterprise - ERP Systems', 'Entry questions', 'Expert - DS Accessory Card Slots', 'Expert - DS Bays', 'Expert - Handheld Operating System', 'Expert - RAM Memory Slots', and 'Expert - Type of Computer'. The 'Assistance Type of Software' question is selected. The main panel displays the 'General' tab for this question. It includes fields for 'Name' (set to 'Assistance Type of Software'), 'Question Text' (set to 'Select the type of software you are looking for:'), and 'Description'. Below these is a 'Control Type' dropdown menu set to 'Radio button'. At the bottom, there is a 'Filter Logic if multiple Answers selected' section with radio buttons for 'AND' and 'OR', and a 'Save All Changes' button.

FIGURE 514. Question Detail Panel

4. Click the **Answers** tab.

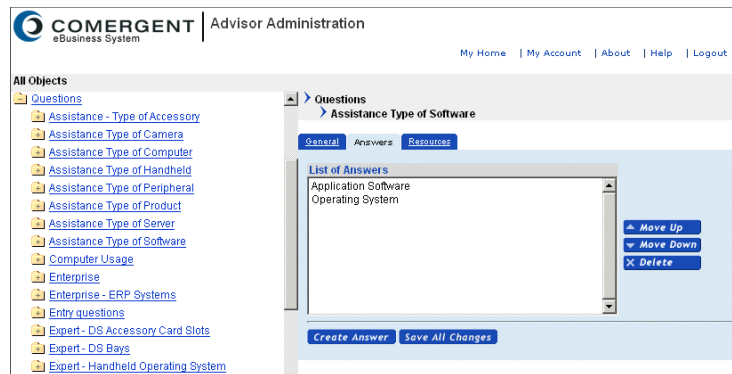


FIGURE 515. Question Detail Panel: Answers Tab

5. In the List of Answers list box, highlight the answer you want to delete, and click **Delete**.

The answer disappears from the list box.

6. Click **Save All Changes**.

This chapter describes the creation and management of rules, which are the logic that determine the behavior of the questionnaire. To learn more about the concept of rules in the Sterling Advisor, see "Rules in the Sterling Advisor" on page 125.

See CHAPTER 4, "Introduction to Sterling Advisor" provides a description of Sterling Advisor and how it works as well as a short tutorial.

Working with Rules

This section describes how to create and manage rules in the Sterling Advisor Administration interface. Before you begin creating rules (or any other Sterling Advisor business object), you must design the questionnaire that you want to build. See "Designing the Questionnaire" on page 134.

Note:	Rules in Sterling Advisor are distinct from rules in Visual Modeler. See "Rules" on page 587 for the tasks associated with Visual Modeler rules.
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Managing rules includes creating, modifying, and deleting rules.

To Create a Rule

1. Click **Advisor Flows & Questionnaires** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.

2. In the Navigation panel, click the Rules link to display the Rules List Panel.

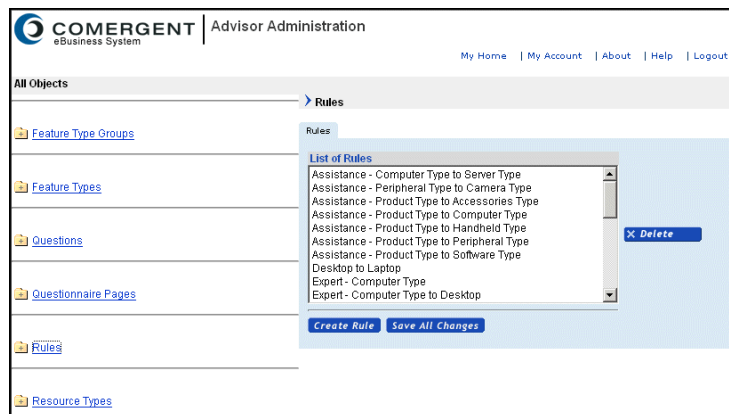


FIGURE 516. Rules List Panel

3. In the Rules panel, click **Create Rule** to display the New Rule Panel.

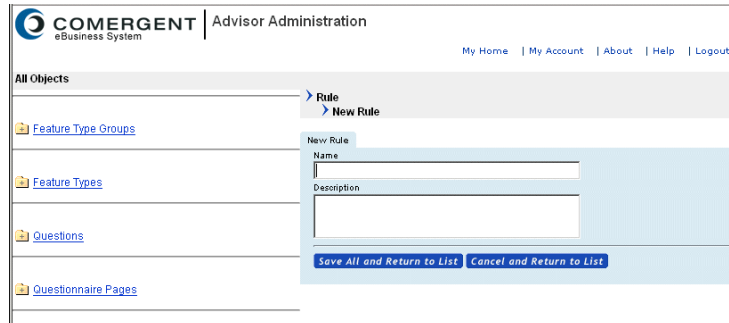


FIGURE 517. New Rule Panel

4. In the New Rule panel, enter the name and description you want to give to this rule.
5. Click **Save All and Return to List**. The following actions occur:
 - The New Rule panel disappears.
 - The new rule appears in the List of Rules list box.
 - The new rule appears in the Navigation Panel.

6. In the Navigation Panel, click the new rule's link. The Rule Detail Panel displays.

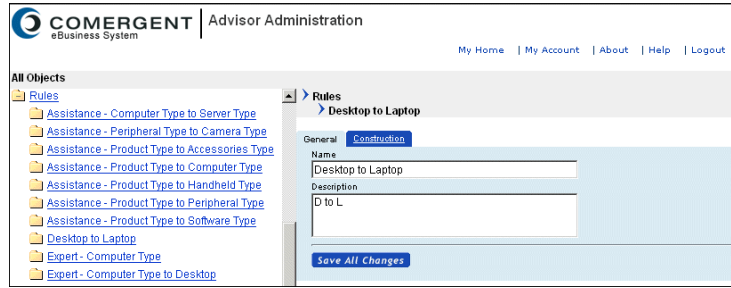


FIGURE 518. Rule Detail Panel

7. Click the **Construction** tab.

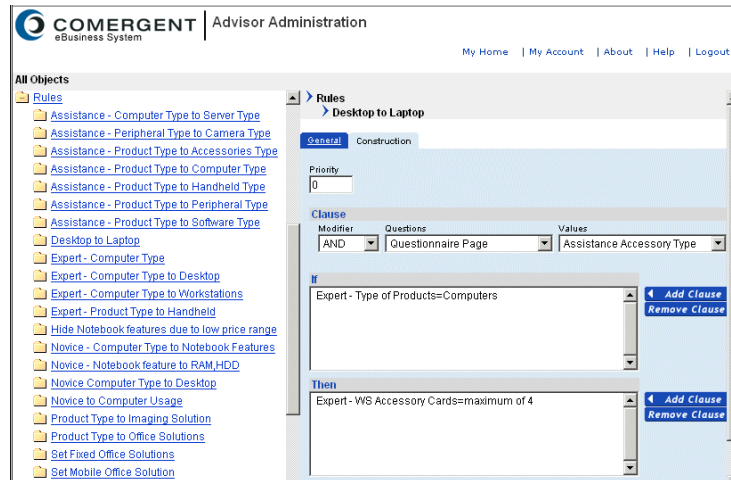


FIGURE 519. Rule Detail Panel: Construction Tab

8. In the Priority text field, type the priority you want to assign to this rule.

Priority determines the order in which rules are tested against the current state. Rules with a smaller numerical value are tested before rules with larger values.

9. Define the IF clause.

To assign a questionnaire page to the IF clause:

- a. Select Questionnaire Page in the Questions drop-down list.
- b. Select a questionnaire page in the Values drop-down list.
- c. Click the **Add Clause** button to the right of the IF list box.

To assign a question to the IF clause:

- a. Select either AND or AND NOT in the Modifier drop-down list.
- b. Select a question in the Questions drop-down list.
- c. Select an answer in the Values drop-down list.
- d. Click the **Add Clause** button to the right of the IF list box.

If you add an argument to the IF clause by mistake, then highlight that argument in the IF list box, and click **Delete Clause** to remove the argument from the clause.

Repeat these steps to add all of the necessary arguments to the IF clause.

10. Define the THEN clause.

The process is exactly the same as that shown in step 9 above, except that you use the Add and Delete buttons to the right of the THEN list box.

11. When the **Construction** tab displays the rule as it needs to be, click **Save All Changes**.

Both the IF clause and the THEN clause may contain either one questionnaire page or none. If you try to add a second questionnaire page to either clause, the second page will replace the questionnaire page previously added to that clause. Both clauses may contain an unlimited number of question arguments.

To Modify a Rule

1. Click **Advisor Flows & Questionnaires** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.
2. In the Navigation panel, click the Rules folder to expand the tree and display all existing rules.
3. Click the link of the rule you wish to modify to display its detail panel.

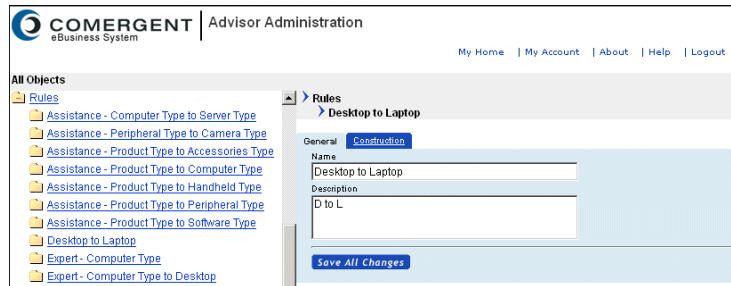


FIGURE 520. Rule Detail Panel

4. Make any necessary changes to the rule's name and description and click **Save All Changes**.
5. Click the **Construction** tab.

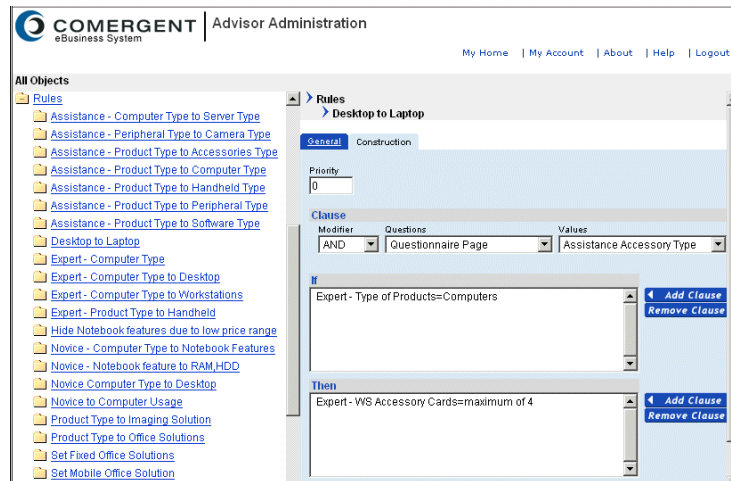


FIGURE 521. Rule Detail Panel: Construction Tab

6. Make any necessary changes to the rule's construction.
 - To change the rule's priority value, highlight and overwrite the value in the Priority text field.

- To modify the IF and THEN clauses, use the drop-down lists and the Add and Delete buttons as described in steps 9 and 10 in the task "To Create a Rule" on page 829.

7. Click **Save All Changes**.

To Delete a Rule

Because rules are by their nature interdependent, deleting a rule may cause unexpected behavior in your questionnaire.

1. Click **Advisor Flows & Questionnaires** in the Product and Catalog Administration panel on the Sterling Multi-Channel Selling Solution home page.
2. In the Navigation panel, click the Rules link to display the Rules List Panel.

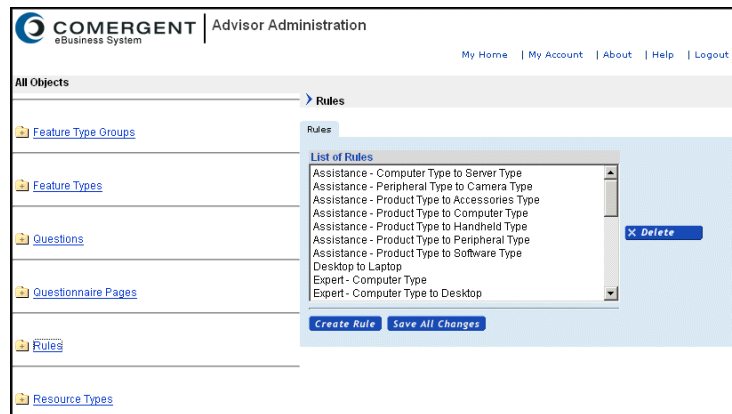


FIGURE 522. Rules List Panel

3. In the List of Rules list box, highlight the rule you want to delete.
4. Click **Delete**.
5. Click **OK** to confirm that you want to delete the rule.

The rule disappears from the List of Rules list box and the Navigation panel.

6. Click **Save All Changes**.

This chapter covers the tasks performed by enterprise employees or Sterling Partner.com partner employees to manage carts, wish lists, templates, and registries. This chapter also covers the tasks performed by the customer service representative to manage quotes. "Quotes Management" on page 45 provides an overview of how customers submit quotes and the responses by the customer service representative.

"Using Carts" on page 40 provides an overview of cart administration.

This chapter covers the following topics:

- "Working with Carts" on page 838
 - "To Search for a Cart" on page 838
 - "To Download Cart Information" on page 842
 - "To View Cart Activity for Selected Partners" on page 842
- "Working with Wish Lists" on page 842
 - "To Search for a Wish List" on page 842
 - "To Copy a Wish List" on page 845
 - "To Delete a Wish List" on page 846
 - "To Create a New Wish List" on page 846

- "To Change the Status of a Wish List" on page 847
- "To Set a Default Wish List" on page 847
- "To Search for and View Details of Another User's Wish List" on page 847
- "To View the Details of a Wish List" on page 849
- "To Add an Item to a Wish List" on page 851
- "To Email Wish List Information" on page 853
- "To Download Wish List Information" on page 854
- "To Add Notes for a Wish List" on page 854
- "To View the Purchase History of a Wish List" on page 855
- "To Modify Wish List Header Information" on page 855
- "To Add an Item to a Cart" on page 856
- "To Move an Item to a Wish List" on page 857
- "To Copy an Item to a Wish List" on page 858
- "To View Complementary Items for a Line Item" on page 859
- "To View Alternative Items for a Line Item" on page 859
- "To Purchase Items from Wish List of Another User" on page 860
- "Working with Templates" on page 862
 - "To Search for a Template" on page 862
 - "To Copy a Template" on page 865
 - "To Delete a Template" on page 866
 - "To Create a New Template" on page 866
 - "To Set a Default Template" on page 867
 - "To Download Template Information" on page 868
 - "To Email Template Information" on page 868
 - "To View the Details of a Template" on page 869
 - "To Add an Item to a Template" on page 871
 - "To Set a Default Template" on page 872


-
- "To Add Notes for a Template" on page 872
 - "To Change the Reminder Frequency for a Template" on page 873
 - "To Modify Template Header Information" on page 873
 - "To View More Templates" on page 874
 - "To View Wish Lists" on page 874
 - "To Add an Item to a Cart" on page 874
 - "To Compare Line Items" on page 874
 - "To Copy a Line Item to a Template" on page 874
 - "To Move a Line Item to a Template" on page 875
 - "To Delete a Line Item From a Template" on page 876
 - "To Update a Template After Making Changes" on page 876
 - "To Sort the Items in a Template" on page 876
 - "To Add a Line Item to a Cart" on page 877
 - "To View Complementary Items for a Line Item" on page 878
 - "To View Alternative Items for a Line Item" on page 878
 - "Working with Registries" on page 879
 - "To Search for a Registry" on page 879
 - "To Create a Registry" on page 883
 - "To Mark a Registry Private" on page 889
 - "To Mark a Registry Public" on page 889
 - "To Set a Registry as Active" on page 889
 - "To Purchase Items from a Registry" on page 890
 - "To Search for a Registry Belonging to Another User" on page 890
 - "To Purchase Items from a Registry Belonging to Another User" on page 891
 - "Working with Quotes" on page 894
 - "To Search for a Quote" on page 894
 - "To View Cart Activity for Selected Partners" on page 896

Working with Carts

You can search for and display carts belonging to partner users.

To Search for a Cart

1. Click **Customer Account Activity** on the Commerce Activity panel on the Sterling Multi-Channel Selling Solution home page.

 sterling commerce
An AT&T Company

Administration

My Home | My Account | About | Help | Logout

Account Activity

Active | Template | Wish List | Registry | Quotes | Sales Contracts | Orders | Service Contracts | Returns | Invoices

Find carts that contain:

Product ID [Search](#) [Show All](#) [Advanced Search](#)

Select a Cart to Copy or Delete. Click New to create a new Cart.


[Copy](#) [Delete](#) [New](#)

Previous [Next](#)

<input type="checkbox"/>	Cart ID	Name	Last Modified	Date Created	Memo	User Name	Organization
<input type="checkbox"/>	600663	Cart	10/2/2007	10/2/2007		Cj, Chen	DataSolve
<input type="checkbox"/>	600662	Cart	10/2/2007	10/2/2007		Scott, Mike	DataSolve
<input type="checkbox"/>	600661	Cart	10/2/2007	10/2/2007		Cj, Chen	DataSolve
<input type="checkbox"/>	600660	Cart	10/2/2007	10/2/2007		Wells, Brent	AffinityNet
<input type="checkbox"/>	600654	Cart	10/2/2007	10/2/2007		Scott, Mike	DataSolve

FIGURE 523. Cart List Page

2. You can perform a quick search on product ID, cart ID, or name, or search for the cart(s) by clicking **Advanced Search**.


An AT&T Company

Administration

[My Home](#) | [My Account](#) | [About](#) | [Help](#) | [Logout](#)

Carts Search

[Return to List](#)

Search for Carts with the given criteria. Partial entries with the wildcard character (*) are supported for Organization, Username, User First Name, User Last Name and Product ID.

[Submit](#) [Reset](#)

Find by Accounts handled by Manager/Rep

Find Carts by Organization or User

Organization:

Username:

User First Name:

User Last Name:

Find Carts with the following attributes

Cart ID:

Product ID:

Search Carts By Status

Cart Status:

Find Carts by Date Range

Creation Date:

Last Modified:

Starting Date:MM/DD/YYYY:

Starting Date:MM/DD/YYYY:

Ending Date:MM/DD/YYYY:

Ending Date:MM/DD/YYYY:

FIGURE 524. Carts Search Page

3. You can click **Submit** to display all the lists or quotes, or enter search criteria:

Enter search criteria to help you locate a list or set of lists. You can specify criteria to limit the scope of the search. The search criteria are described in Table 54 on page 840.

TABLE 54. Search Fields

Field	Description
Profile Name	If you enter the name of an organization, then only carts that belong to users of that organization are listed.
Product Id	If you enter one or more product IDs, then only carts that contain one or more of those IDs are listed.
Cart ID	Enter the ID number for the cart if you are searching for a particular cart.
Status	Select Active or Routed.
Username	Enter the username of a user to find all carts created by the specific user.
User First Name	Enter the first name of a user to find all carts created by the specific user.
User Last Name	Enter the last name of a user to find all carts created by the specific user.
Creation Date	Enter the Starting Date and Ending Date to find all carts created within a certain time frame. Enter Starting Date only to find all carts from the specified date forward. Enter an Ending Date only to find all carts up to the specified date.
Last Modified	Enter the Starting Date and Ending Date to find all carts updated within a certain time frame. Enter Starting Date only to find all carts from the specified date forward. Enter an Ending Date only to find all carts up to the specified date.

The Search Results page displays all of the lists that meet your search criteria.

Cart ID	Name	Last Modified	Date Created	Memo	User Name	Organization
1270	SimpleCart	2/21/2007	2/21/2007		Walls, Brent	affinitytest
949	Conf Cart	11/15/2005	11/15/2005		Barnes, Marvin	affinitytest
1211	New Cart	11/15/2005	11/15/2005		Walls, Brent	affinitytest
1216	New Cart	11/15/2005	11/15/2005		Walls, Brent	affinitytest
1205	New Cart	11/15/2005	11/15/2005		Walls, Brent	affinitytest
1209	New Cart	11/15/2005	11/15/2005		Walls, Brent	affinitytest

FIGURE 525. Search Results

4. Click an item or refine your search.

If you can identify the cart that you are looking for, click its link to display the Cart Detail page. The Cart Detail page provides a complete description of a list, including line items and prices.

Name	Availability	Other Charges	Price	Quantity	Total
7500 Desktop Matrix Solutions Inc. View Alternatives			\$2,135.00	1	\$2,135.00
20GB Internal Hard Drive Mic-PT090		included	included	1	
64MB RAM Mic-PK445		included	included	1	
Windows 98 Mic-MSW98		included	included	1	
Intel Pentium III 733MHz Mic-C75SP		included	included	1	
Complementary Items for 7500-7500 SoundBlaster Mic-SC0204 Lexi-Valky audio card			\$95.33		
Configuration Subtotal:					\$2,135.00
Subtotals:					\$2,135.00
Misc. Adjustments:					\$0.00
Adjusted Subtotal:					\$2,135.00
Tax:					\$298.90
Shipping Cost:					\$277.55
Adj Shipping Cost:					\$277.55
Total Price:					\$2,711.45

FIGURE 526. Cart Detail Page

To Download Cart Information

1. Click **Customer Account Activity** on the Commerce Activity panel on the Sterling Multi-Channel Selling Solution home page.
2. Search for a list or set of carts.
See "To Search for a Cart" on page 838.
The cart list page is displayed. It presents all of the carts that meet your search criteria.
3. Select those carts whose details you wish to export by checking the check box next to each cart.
4. Click **Download Selected Carts** in the lower-right corner of the page.
5. Click **Go**.

A new browser window is displayed showing the selected cart data in HTML format.

You can save this file to your machine. If the file has been generated by a UNIX installation of the Sterling Multi-Channel Selling Solution, then the file has UNIX end-of-line characters. This means that some Windows text-editing applications such as Notepad may display the file as one continuous line.

To View Cart Activity for Selected Partners

See "To View Cart Activity for Selected Profiles" on page 202.

Working with Wish Lists

This section describes the tasks that partner users can perform to manage wish lists. A wish list is a list of items that a user would like to have and wants someone else to purchase for him or her.

To Search for a Wish List

1. Click the **Wish Lists** tab on the **Account Activity** page.
The list of available wish lists displays.

The screenshot shows the 'Wish List Page' in the Sterling Commerce Matrix Solutions interface. The page header includes the 'matrixsolutions GRAPHIC DESKTOP SYSTEMS' logo and 'product selection' text. The top navigation bar contains links: 'My Home | My Account | Account Activity | Registries | My Wish List | My Template | Logout'. Below this is the 'Account Activity' section with a sub-navigation bar: 'Active | Templates | Wish Lists | Registries | Approvals | Routed | Quotes | Sales Contracts | Orders | Service Contracts | Returns | Invoices'. The main content area has a search box 'Find wish lists that contain:' with a dropdown menu set to 'Product ID' and buttons for 'Search', 'Show All', and 'Advanced Search'. Below the search box is a message: 'Select Wish Lists to Copy or Delete. Click New to create a new Wish List.' and buttons for 'Copy', 'Delete', 'New', 'Private', and 'Public'. A table lists wish lists with columns: 'Wish List ID', 'Wish List Name', 'Last Modified', 'Date Created', 'Event Type', 'Event Date', 'Status', and a checkbox. The table contains two entries: one with ID 600700, name 'Pat's All-New Wish List', last modified 11/12/2007, date created 11/12/2007, status 'Public', and a green checkmark; and another with ID 600600, name 'Wish List', last modified 11/7/2007, date created 11/7/2007, status 'Private', and a green checkmark. At the bottom left is a checkbox 'Set As Default Wish List' and at the bottom right is a link 'Find someone else's wish list'.

FIGURE 527. Wish List Page

2. You can perform a quick search on Product ID, Wish List ID, Wish List Name, or Status, or search for the wish list(s) by clicking **Advanced Search**.

The screenshot shows the 'Wish List Search' page in the Sterling Commerce Matrix Solutions interface. The page header includes the 'matrixsolutions GRAPHIC DESKTOP SYSTEMS' logo and 'product selection' text. The top navigation bar contains links: 'My Home | My Account | Account Activity | Registries | My Wish List | My Template | Logout'. Below this is the 'Wish List Search' section with a sub-link 'Return to List'. The main content area has a message: 'Search for Wish List with the given criteria. Partial entries with the wildcard character (*) are supported for Product ID.' and buttons for 'Submit' and 'Reset'. There are three search sections: 'Find Wish List with the following attributes' with fields for 'Wish List ID', 'Product ID', and 'Wish List Name'; 'Search Wish List By Status' with a dropdown menu for 'Wish List Status'; and 'Find Wish List by Date Range' with fields for 'Creation Date', 'Last Modified', 'Starting Date', 'Ending Date', 'Starting Date', and 'Ending Date'.

FIGURE 528. Wish List Search Page

3. Click **Submit** to display all the wish lists, or enter search criteria.

Enter search criteria to help you locate a list or a set of lists. You can specify the criteria to limit the scope of the search. The search criteria are described in Table 55 on page 844.

TABLE 55. Search Fields

Field	Description
Wish List ID	Enter the ID number for the wish list if you are searching for a particular wish list.
Product ID	If you enter one or more product IDs, then only wish lists that contain one or more of those IDs are listed.
Wish List Name	Enter the wish list name if you are searching for a particular wish list.
Wish List Status	Select Private or Public.
Creation Date	Enter the Starting Date and Ending Date to find all wish lists created within a certain time frame. Enter Starting Date only to find all wish lists from the specified date forward. Enter an Ending Date only to find all wish lists up to the specified date.
Last Modified	Enter the Starting Date and Ending Date to find all wish lists updated within a certain time frame. Enter Starting Date only to find all wish lists from the specified date forward. Enter an Ending Date only to find all wish lists up to the specified date.

The Search Results page displays all of the wish lists that meet your search criteria.

The screenshot shows the 'Account Activity' section of the Matrix Solutions software. It includes a search bar with the text 'Find wish lists that contain:' and a dropdown menu set to 'Product ID' with the value 'MXDS-7480'. Below the search bar are buttons for 'Copy', 'Delete', 'New', 'Private', and 'Public'. A table lists wish lists with columns for 'Wish List ID', 'Wish List Name', 'Last Modified', 'Date Created', 'Event Type', 'Event Date', and 'Status'. One wish list is shown with ID 600700 and name 'Pat's All-New Wish Lists'. At the bottom, there is a checkbox to 'Set As Default Wish List' and a link to 'Find someone else's wish list'.

<input type="checkbox"/>	Wish List ID	Wish List Name	Last Modified	Date Created	Event Type	Event Date	Status
<input type="checkbox"/>	600700	Pat's All-New Wish Lists	11/12/2007	11/12/2007			Public

FIGURE 529. Search Results

You can use this page to perform one or more of the following tasks:

- To copy a wish list. See "To Copy a Wish List" on page 845.
- To delete a wish list. See "To Delete a Wish List" on page 846.
- To create a new wish list. See "To Create a New Wish List" on page 846.
- To mark a wish list as private or public. See "To Change the Status of a Wish List" on page 847.
- To set a wish list as the default wish list. See "To Set a Default Wish List" on page 847.
- To search for a wish list belonging to another user. See "To Search for and View Details of Another User's Wish List" on page 847.
- To view the details of a wish list. See "To View the Details of a Wish List" on page 849.

To Copy a Wish List

One way to create a wish list is to copy an existing wish list. When you copy a wish list, you copy all its attributes other than the Wish List Name and Wish List ID. So after copying the wish list, you must modify any attributes that are different.

1. On the Wish List page, check the check box next to the wish list that you want to copy and click the **Copy** button.
2. A new wish list with "Copy of" prefixed to the wish list name gets added to the list of wish lists.

To Delete a Wish List

1. On the Wish List page, check the check box next to the wish list that you want to delete and click the **Delete** button.
2. The wish list gets deleted from the list of wish lists.

To Create a New Wish List

1. Navigate to the Wish List page and click the **New** button.
The Create New Wish List panel displays.

New Wish List *

List Name

WishList

Create

X

FIGURE 530. Create New Wish List Panel

2. Enter the wish list name, and click **Create**.

The Wish List Detail page displays for the wish list that you just created.

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product selection

My Home | My Account | Account Activity | Registries | My Wish List | My Template | Logout

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powered by

All Categories | Accessories | Computers | Handhelds | Outlet | Peripherals | Software | Product Advisor

My Wish List: Pat's Anniversary Wish List

Return to List

Catalog Search

Advanced Search

Sort On : Date Added

Actions

Make Wish List Public
This wish list is private.
Make Wish List Default
Email
Print View
Notes
View Purchases
Find someone else's wish list

Details

Name: Pat's Anniversary Wish List
Change
Show more information

My Wish List

Pat's Anniversary Wish List
Pat's All-Time Wish List
Wish List
More Templates

Quick Add

Add All Items to Cart

Update

Product Name	Availability	Price	Quantity Desired	Quantity Received	Still Needs
No Rows Found					

FIGURE 531. Wish List Detail Page

To Change the Status of a Wish List

1. On the Wish List page, check the check box next to the wish list for which you want to change the status, and click **Private** if you want to mark it private, or click **Public** if you want to mark it public.

The new status appears under the **Status** column of the wish list.

To Set a Default Wish List

1. Navigate to the wish list that you want to set as the default wish list, and click the Default Wish List icon next to the wish list.

The wish list is set as the default wish list.

To Search for and View Details of Another User's Wish List

You can search for a wish list that belongs to another user and view its details.

1. On the Wish List page, click the **Find someone else's wish list** link.

The Public Wish List(s) search page displays.

The screenshot shows the 'Public Wish List(s)' search page. At the top, there's a navigation bar with links like 'My Home', 'My Account', 'Account Activity', 'Registries', 'My Wish List', 'My Template', and 'Logout'. Below this is a search bar with the prompt 'Enter at least Owner's Last Name or Owner's Email for search'. The search criteria are split into three fields: 'Owner's First Name', 'Owner's Last Name', and 'Owner's E-Mail', with a 'Search' button. Below the search bar is a table with columns: 'Name', 'Wish List ID', 'Last Modified', 'Date Created', 'Recipient Name', and 'Memo'. The table is currently empty, with the text 'No Rows Found' at the bottom.

FIGURE 532. Public Wish Lists Search Page

2. Enter search criteria, such as the last name or email of the user who owns the wish list you are searching for, then click **Search**.

The Public Wish List(s) Search Results page displays the list of wish lists belonging to the user.

Note: The Public Wish List(s) Search Results page displays only those wish lists with **Public** status.

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[My Home](#) | [My Account](#) | [Account Activity](#) | [Registries](#) | [My Wish List](#) | [My Template](#) | [Logout](#)

All Categories | Accessories | Computers | Handhelds | Outlet | Peripherals | Software | Product Advisor

Public Wish List(s)

[Return to List](#)

Enter at least Owner's Last Name or Owner's Email for search

Find Someone's Wish List:

Owner's First Name

Owner's Last Name

Or

Owner's E-Mail

[Search](#)

Mike

Scott

Name	Wish List ID	Last Modified	Date Created	Recipient Name	Memo
Mike's New Wish List	600603	11/5/2007	11/5/2007	Scott, Mike	

FIGURE 533. Public Wish List(s) Search Results Page

3. Click the Wish List Name of the wish list for which you want to view the details.

The Public Wish List Detail page displays.

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product selection

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[My Home](#) | [My Account](#) | [Account Activity](#) | [Registries](#) | [My Wish List](#) | [My Template](#) | [Logout](#)

All Categories | Computers | Peripherals | Software | Accessories | Outlet | Handhelds | Product Advisor

Wishlist: Wish List

[Return to List](#)

Actions

[Print View](#)

Details

Name: Wish List

Recipient Name: Chuck James

Event Type:

Event Date:

Shipping Address:

Comments:

Currency: USD

Last Modified: 9/6/2007

Date Created: 9/6/2007

Items: 1

[Hide extra information](#)

[Add All Items to Cart](#)

Sort On : Date Added

Product Name	Availability	Price	Quantity Desired	Quantity Received	Still Needs
 7480 Desktop "Base" MXDS-7480	Matrix Solutions Inc.	\$733.95	1	0	1
17" Monitor MX-GV17T		included	1	0	
Windows 2000 MX-MSW2K		included	1	0	
Matrix Satellite Speaker MXA-MSS		included	2	0	
Comments	I need this at any cost	Priority	Low		

FIGURE 534. Public Wish List Detail Page

You can use the Public Wish List Detail page to perform one or more of the following tasks:

- To add all the items in the wish list to your cart, click the **Add All Items to Cart** button.

- To print the wish list details, click the **Print View** link under the **Actions** panel. A new window with details of the wish list displays.
- To sort the items in the wish list by Date Added, Still Needs, Price (low to high), Price (high to low), Department, or Priority, select the sorting criteria from the Sort On drop-down list.
- To add a particular line item in the wish list to your cart, click the **Add to Cart** icon next to the item.

To View the Details of a Wish List

1. Search for the wish list for which you want to view the details. See "To Search for a Wish List" on page 842.
2. Click the appropriate Wish List Name.

The Wish List Detail page displays.

The screenshot displays the 'My Wishlist: birthday wishlist' page. The left sidebar contains navigation links such as 'Catalog Search', 'Actions', 'Details', 'My Wishlist', and 'Quick Add'. The main content area features a table with the following items:

Product Name	Availability	Price	Quantity Desired	Quantity Received	Still Needs
7600 Desktop MX-7600	Matrix Solutions Inc. Change View alternatives	\$3,320.00	1	0	1
On Site Service - Express MX-SOSE004	included		1	0	
21" Monitor MX-SV2117	included		1	0	
Altec Lansing ACS340 speakers MX-SPP58	included		1	0	
Vocalation Video Publisher MX-PHVED121	included		1	0	
Comments <input type="text"/> Priority Low					
7500 Desktop MX-7500	Matrix Solutions Inc. Change View alternatives	\$2,135.00	1	0	1
30GB Separate Disc Drive MX-ST0300	included		1	0	
44MB SDRAM MX-PR645	included		1	0	
Windows 95 MX-MSW95	included		1	0	
Intel Pentium III 733MHz Processor MX-IC733P	included		1	0	
Comments <input type="text"/> Priority Low					

Configuration Subtotal: \$2,135.00

FIGURE 535. Wish List Detail Page

You can use the Wish List Detail page to perform one or more of the following tasks:

- To add an item to a wish list. See "To Add an Item to a Wish List" on page 851.
- To mark a wish list private or public, click the **Make Wish List Private** or **Make Wish List Public** link.
- To set a wish list as the default wish list, click the **Make Wish List Default** link.
- To email wish list information to another user. See "To Email Wish List Information" on page 853.
- To download the details of a wish list. See "To Download Wish List Information" on page 854.
- To view and add notes for a wish list. See "To Add Notes for a Wish List" on page 854.
- To view the purchase history of a wish list. See "To View the Purchase History of a Wish List" on page 855.
- To search for a wish list belonging to another user, click the **Find someone else's wish list** link. For more details about searching for a wish list belonging to another user, see "To Search for and View Details of Another User's Wish List" on page 847.
- To modify a wish list. See "To Modify Wish List Header Information" on page 855.
- To view more wish lists, click the **More** link under the **My Wish List** panel.
- To navigate to the Templates tab of your workspace, click the **Templates** link under the **My Wish List** panel.
- To add another item to your cart, enter the item's Product ID and quantity under the **Quick Add** panel, then click **Add**.
- To copy all the items in the wish list to a cart, click the **Add All Items to Cart** button. A pop-up displays where you can select the cart to copy the items to.
- To update the wish list after making modifications, click the **Update** button.
- To change the order of the sequence in which the items appear in the wish list, select the appropriate sorting criteria from the **Sort On** drop-down

list. You can sort the items by Still Needs, Price (low to high), Price (high to low), Department, Date Added, or Priority.

- To delete a line item from the wish list, click the **Delete (X)** button next to the item.
- To add a line item to a cart. See "To Add an Item to a Cart" on page 856.
- To move a line item to a wish list. See "To Move an Item to a Wish List" on page 857.
- To copy a line item to a wish list. See "To Copy an Item to a Wish List" on page 858.
- To view alternative items for a selected line item. See "To View Alternative Items for a Line Item" on page 859.
- To view complementary items for a wish list. See "To View Complementary Items for a Line Item" on page 859.
- To purchase items for another user from the user's wish list. See "To Purchase Items from Wish List of Another User" on page 860.

To Add an Item to a Wish List

1. On the Wish List Detail page, search for the item you want to add to the wish list using the **Catalog Search** panel.
2. Navigate to the Product Detail page of the item you want to add to the wish list.

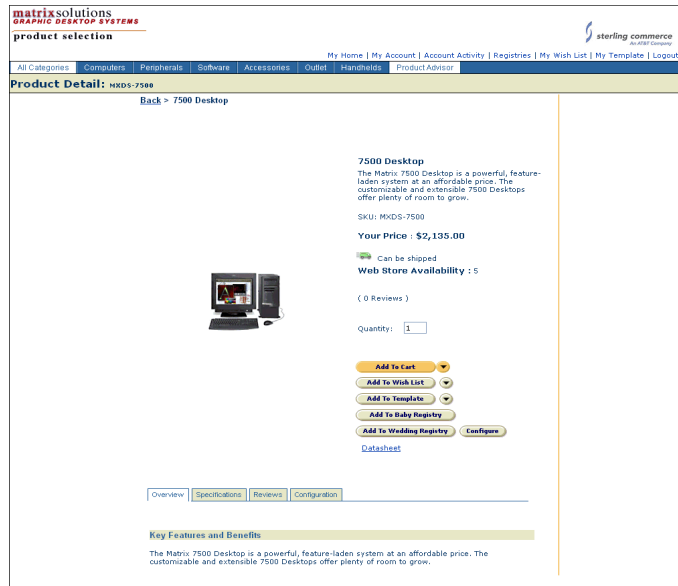


FIGURE 536. Product Detail Page

3. You can add the item to a wish list in one of the following ways:
 - a. Click the **Add to Wish List** button to add the item to the default wish list.
 - b. Click the down arrow next to the **Add To Wish List** button to select a wish list to add the item to.

A pop-up displays.



The dialog box is titled "Select a Wish List" with a close button (X) in the top right corner. It contains the following elements:

- Instructional text: "Add to an existing Wish List or create a new one and add to that Wish List"
- Three radio button options:
 - Pat's Anniversary Wish List
 - Pat's All-New Wish List
 - Wish List
- An "Add" link below the radio buttons.
- A text input field labeled "New name" with the value "NewList" entered.
- A "Create & Add" link below the text input field.

FIGURE 537. Select Wish List Pop-Up

Select the radio button next to the wish list you want to add the item to and click **Add**, or enter a wish list name and click **Create & Add** to create a new wish list and add the item to the new wish list.

To Email Wish List Information

1. On the Wish List Detail page, click the **Email** link under the **Actions** panel.
The Send Email pop-up displays.



The dialog box is titled "Send Email" with a yellow header bar. It contains the following elements:

- Instructional text: "Enter the recipient's and your own email address, a memo, and click the 'Send' button"
- Four labeled input fields:
 - To: (text input)
 - From: (text input)
 - Cc: (text input)
 - Memo: (text area with up/down arrows)
- Two buttons at the bottom right: "Send" (orange) and "Cancel" (blue).

FIGURE 538. Send Email Pop-Up

2. Enter the recipient's email address in the To: field and the sender's email address in the From: field. Optionally, enter a CC: email address in the CC: field and any additional comments in the Memo: field.
3. Click **Send** to send the email or **Cancel** to cancel it.

To Download Wish List Information

1. On the Wish List Detail page, click the **Print View** link under the **Actions** panel.

A new browser window displays showing details of the wish list in HTML format.

You can save this file to your machine. If the file has been generated by a UNIX installation of the Sterling Multi-Channel Selling Solution, then the file has UNIX end-of-line characters. This means that some Windows text-editing applications such as Notepad may display the file as one continuous line.

To Add Notes for a Wish List

1. On the Wish List Detail page, click the **Notes** link under the **Actions** panel.
The Notes page displays.

Date	Note	Organization	Created By
9/7/2007	I can add a note here.	Andarel	pkelley

FIGURE 539. Notes Page

2. Enter a note, then click **Add Note**.

To View the Purchase History of a Wish List

1. On the Wish List Detail page, click the **View Purchases** link under the **Actions** panel.

The Purchase History page displays.


matrixsolutions GRAPHIC DESKTOP SYSTEMS product selection		 <small>AsiNET Company</small>	
		10 Item(s) in Cart My Home My Account Account Activity Registries My Wish List My Template Help Logout	
Purchase History		Return	
Item	Quantity Purchased	Purchase Date	Purchased By
MXDS-7480 7480 Desktop "Base"	5	9/7/2007	Kelley, Pat
MXA-MSS Matrix Satellite Speaker			
MX-MSW2K Windows 2000			
MX-GV17T 17" Monitor			

FIGURE 540. Purchase History Page

The Purchase History page displays details of the items that a user has purchased by copying them from the wish list, such as the quantity of the item, the date on which the item was purchased, the user who purchased the item, and the date the item was shipped.

To Modify Wish List Header Information

1. On the Wish List Detail page, click the **Change** button under the **Details** panel.

The Edit Wish List page displays.

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product selection

My Home | My Account | Account Activity | Registries | My Wish List | My Template | Logout

All Categories | Computers | Peripherals | Software | Accessories | Outlet | Handhelds | Product Advisor

Edit Wish List [Return](#)

[Reset](#) [Save](#)

Wish List Name: Mike's Wish List

Recipient Name: Mike Scott

Event Date:

Comments:

Currency: USD

Event Type: None

Date Created: 11/7/2007

Date Last Modified: 11/7/2007

Number of Items in the list: 1

Enter/Select Your Shipping address:

- 172 Barford Ave.
- First Floor
- Salt Lake City, UT 84093
- USA

Disable Address: ☒

FIGURE 541. Edit Wish List Page

2. Modify the appropriate details. You can change the following information:
 - Wish List Name, Event Date, Comments, Currency, Event Type, and Shipping Address. For more details about creating custom event types, see the *Sterling Multi-Channel Selling Solution Developer Guide*.
3. Click **Save** to save your changes or click **Reset** to reset the details.

To Add an Item to a Cart

1. On the Wish List Detail page, click the **Add to Cart** icon next to the item.
 - a. If the user has only one active cart, the item gets added to this cart.
 - b. If the user has more than one active cart, a pop-up displays.

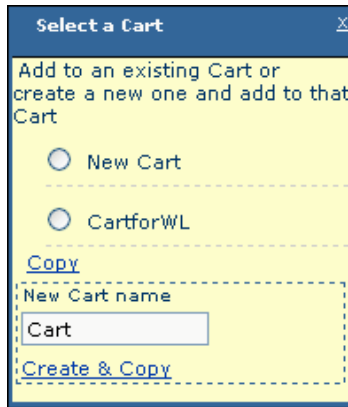


FIGURE 542. Select Cart Pop-Up

- Select the radio button next to the cart and click **Copy** to add the item to the cart, or enter a cart name and click **Create & Copy** to create a new cart and add the item to the new cart.

To Move an Item to a Wish List

1. Click the **Move to Wish List** icon next to the item you want to move.
A pop-up displays.

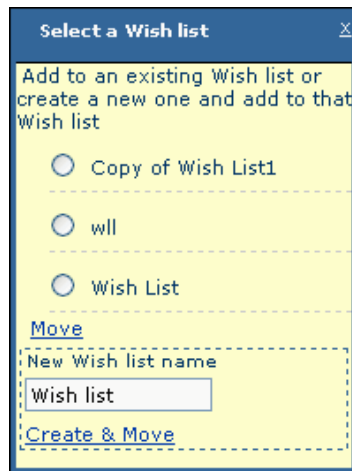


FIGURE 543. Select Wish List Pop-Up

The pop-up displays all the wish lists that belong to the user.

- Select the radio button next to the wish list you want to move the item to and click **Move**, or enter a wish list name and click **Create & Move** to create a new wish list and move the item to the new wish list.

To Copy an Item to a Wish List

1. Click the **Copy to Wish List** icon next to the line item you want to copy to a wish list. A pop-up displays.

FIGURE 544. Select Wish List Pop-Up

- Select the radio button next to the wish list you want to copy the item to and click **Copy**, or enter a wish list name and click **Create & Copy** to create a new wish list and copy the item to the new wish list.

To View Complementary Items for a Line Item

You can view the complementary items for a line item.

Note: You can view complementary items for a line item only if the **Enable Complementary items link in Wish Lists** business rule is set to true, and if the line item has any complementary items associated with it. For more information about business rules, see CHAPTER 39, "Business Rules Administration".

1. On the Wish List Detail page, navigate to the line item for which you want to view the complementary items, and click the **View Complementary Items** link.

The list of available complementary items for the line item displays.

To View Alternative Items for a Line Item

You can view the alternative items for a line item.

Note: You can view alternative items for a line item only if the **Enable Alternative items link in Wish Lists** business rule is set to true, and if the line item has any alternative items associated with it. For more information about business rules, see CHAPTER 39, "Business Rules Administration".

1. On the Wish List Detail page, click the **View alternatives** link under the **Availability** column for the line item.

A pop-up displays.

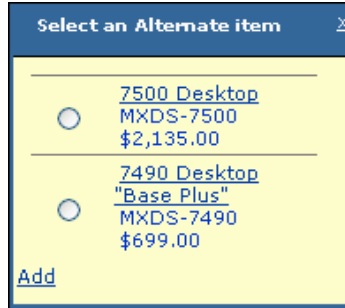


FIGURE 545. Select Alternate Item Pop-Up

The pop-up displays the list of alternative items for the line item.

2. Select the radio button next to the item you want to add to the wish list to replace the line item, then click **Add**.

To Purchase Items from Wish List of Another User

1. Navigate to the Public Wish List Detail page of the user from whose wish list you want to purchase the items. See "To Search for and View Details of Another User's Wish List" on page 847.

The screenshot shows the 'matrixsolutions GRAPHIC DESKTOP SYSTEMS' product selection interface. The page title is 'Wish List: Chuck's Wish List'. The left sidebar contains 'Actions' (Add All Items to Cart, Print View) and 'Details' (Name: Chuck's Wish List, Recipient Name: Chuck James, Event Type, Event Date, Shipping Address, Comments, Currency: USD, Last Modified: 11/6/2007, Date Created: 11/6/2007, Items: 2, Hide extra information). The main content area shows a table of items with columns: Product Name, Availability, Price, Quantity Desired, Quantity Received, and Still Needs. The table lists two main items: 'Memory Stick Media 32MB MSG-32A' and '7480 Desktop "Base" MXDS-7480'. The first item has a price of \$49.95 and 1 quantity desired. The second item has a price of \$733.95 and 1 quantity desired. Below the second item, there are three sub-items: '17" Monitor MX-GV177' (included, 1 quantity desired), 'Windows 2000 MX-MSW2K' (included, 1 quantity desired), and 'Matrix Satellite Speaker MXA-MSS' (included, 2 quantity desired). The table also shows 'Comments' and 'Priority' for each item.

Product Name	Availability	Price	Quantity Desired	Quantity Received	Still Needs
Memory Stick Media 32MB MSG-32A	Matrix Solutions Inc.	\$49.95	1	0	1
7480 Desktop "Base" MXDS-7480	Matrix Solutions Inc.	\$733.95	1	0	1
17" Monitor MX-GV177		included	1	0	
Windows 2000 MX-MSW2K		included	1	0	
Matrix Satellite Speaker MXA-MSS		included	2	0	

FIGURE 546. Public Wish List Detail Page

- Click the **Add All Items to Cart** button to copy the items to a cart. See "To Add an Item to a Cart" on page 856.
- Search for the cart to which you copied the items you want to purchase and navigate to the Cart Detail page. See "To Search for a Cart" on page 838.
- Click the **Checkout** button.

The Order Detail page displays.

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My Home | My Account | Account Activity | Registries | My Wish List | My Template | Logout

Review the order details below and click "Place Order" to complete your purchase

If you aren't done yet, [Go Back](#) and [Edit your Cart](#).

Place Order

Order Details - Items Shipping from: Matrix Solutions Inc.					Payment																																					
Sold-To					Order Summary																																					
Pat Kelley AndereI 601 Emerald Bay Lane First floor Springfield, CT 26595 USA Change					Misc. Adjustments: (\$141.79) Adjusted Subtotal: \$3,527.96 Tax: \$211.68 Shipping Cost: \$176.40 Total Price: \$3,916.04																																					
Shipping Details					Redeem Coupons/ Gift Certificates																																					
Shipping To: Pat Kelley AndereI 601 Emerald Bay Lane First floor Springfield, CT 26595 USA Change					Enter promo codes/ gift certificate # here: <input type="text"/> Add																																					
Shipping Method: UPS					Billing Address																																					
Ship When Complete: No					Pat Kelley AndereI 601 Emerald Bay Lane First floor Springfield, CT 26595 USA Change																																					
Deliver on: What is this?																																										
Item Details					Payment Method																																					
<table><thead><tr><th>Name</th><th>Ship To</th><th>Ship Via</th><th>Other Charges</th><th>Quantity Avail.</th><th>Amount</th></tr></thead><tbody><tr><td>7480 Desktop "Base" MXDS-7480</td><td></td><td></td><td></td><td>5</td><td>\$3,669.75</td></tr><tr><td>17" Monitor MX-OV17T</td><td></td><td></td><td>included</td><td>5</td><td>included</td></tr><tr><td>Windows 2000 MX-MEN2K</td><td></td><td></td><td>included</td><td>5</td><td>included</td></tr><tr><td>Matrix Satellite Speaker MXSA-MSS</td><td></td><td></td><td>included</td><td>10</td><td>included</td></tr><tr><td colspan="4">Subtotals:</td><td></td><td>\$3,669.75</td></tr></tbody></table>					Name	Ship To	Ship Via	Other Charges	Quantity Avail.	Amount	7480 Desktop "Base" MXDS-7480				5	\$3,669.75	17" Monitor MX-OV17T			included	5	included	Windows 2000 MX-MEN2K			included	5	included	Matrix Satellite Speaker MXSA-MSS			included	10	included	Subtotals:					\$3,669.75	Payment Type: Credit card Credit Card Type: CC Number: Exp. Date: September / 2007 Name On Card: Phone #: 610-6850 Payment Email: pkelley@rit.com P.O. #: Taxable: Yes Change	
Name	Ship To	Ship Via	Other Charges	Quantity Avail.	Amount																																					
7480 Desktop "Base" MXDS-7480				5	\$3,669.75																																					
17" Monitor MX-OV17T			included	5	included																																					
Windows 2000 MX-MEN2K			included	5	included																																					
Matrix Satellite Speaker MXSA-MSS			included	10	included																																					
Subtotals:					\$3,669.75																																					

FIGURE 547. Order Detail Page

5. Click the **Place Order** button.

Working with Templates

This section describes the tasks that partner users can perform to manage templates. A template is a list of items that a user purchases regularly. A template cannot be shared with anyone. If you want to purchase an item from a template, you must first copy the item to your cart and then place the order.

To Search for a Template

You can search for a template as follows:

1. Click the **Templates** tab on the **Account Activity** page.

The list of available templates displays.

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My Home | My Account | Account Activity | Registries | My Wish List | My Template | Logout

Account Activity

Active | Templates | Wish Lists | Registries | Approvals | Routed | Quotes | Sales Contracts | Orders | Service Contracts | Returns | Invoices

Find templates that contain:

Product ID [Search](#) [Show All](#) [Advanced Search](#)

Select Templates to Copy or Delete. Click New to create a new Template.

[Copy](#) [Delete](#) [New](#)

<input type="checkbox"/>	Template ID	Template Name	Last Modified	Date Created	Reminder Date
<input type="checkbox"/>	600740	Monthly Items Template	11/12/2007	11/12/2007	None
<input type="checkbox"/>	600601	Template	11/7/2007	11/7/2007	None

[Download Selected Templates](#) [Email Selected Templates](#)

☒ Set As Default Template

FIGURE 548. Template List Page

2. You can search for the template in one of the following ways:
 - a. Click **Search** to perform a quick search on Product ID, Template ID, or Template Name.
 - b. Click **Show All** to display all the templates.
 - c. Click **Advanced Search** to perform an advanced search for the template.
- The Template Search page displays.

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My Home | My Account | Account Activity | Registries | My Wish List | My Template | Logout

Template Search [Return to List](#)

Search for Templates with the given criteria. Partial entries with the wildcard character (*) are supported for Product ID.

[Submit](#) [Reset](#)

Find Templates with the following attributes

Template ID	Product ID	Template Name
<input type="text"/>	<input type="text"/>	<input type="text"/>

Find Templates by Date Range

Creation Date	Last Modified
Starting Date: M/D/YYYY <input type="text"/>	Starting Date: M/D/YYYY <input type="text"/>
Ending Date: M/D/YYYY <input type="text"/>	Ending Date: M/D/YYYY <input type="text"/>

FIGURE 549. Template Search Page

3. Click Submit to display all the templates, or enter search criteria.

Enter search criteria to help you locate a list or set of lists. You can specify the criteria to limit the scope of the search. The search criteria are described in Table 56 on page 864.

TABLE 56. Search Fields

Field	Description
Template ID	Enter the ID number for the template if you are searching for a particular template.
Product ID	If you enter one or more product IDs, then only templates that contain one or more of those IDs are listed.
Template Name	Enter the template name if you are searching for a particular template.
Creation Date	Enter the Starting Date and Ending Date to find all templates created within a certain time frame. Enter Starting Date only to find all templates from the specified date forward. Enter an Ending Date only to find all templates up to the specified date.
Last Modified	Enter the Starting Date and Ending Date to find all templates updated within a certain time frame. Enter Starting Date only to find all templates from the specified date forward. Enter an Ending Date only to find all templates up to the specified date.

The Search Results page displays a list of all the templates that meet your search criteria.

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An AT&T Company

My Home | My Account | Account Activity | Registries | My Wish List | My Template | Logout

Account Activity

Active | Templates | Wish Lists | Registries | Approvals | Routed | Quotes | Sales Contracts | Orders | Service Contracts | Returns | Invoices

Find templates that contain:

Product ID Search Show All Advanced Search

Select Templates to Copy or Delete. Click New to create a new Template.

Copy Delete New

<input type="checkbox"/>	Template ID	Template Name	Last Modified	Date Created	Reminder Date	
<input type="checkbox"/>	600740	Monthly Items Template	11/12/2007	11/12/2007	None	✓

Download Selected Templates Email Selected Templates

✓ Set As Default Template

FIGURE 550. Template Search Results Page

You can use the Search Results page to perform one or more of the following tasks:

- To copy a template. See "To Copy a Template" on page 865.
- To delete a template. See "To Delete a Template" on page 866.
- To create a new template. See "To Create a New Template" on page 866.
- To set a template as the default template. See "To Set a Default Template" on page 867.
- To download template information. See "To Download Template Information" on page 868.
- To email template information. See "To Email Template Information" on page 868.

To Copy a Template

One way to create a template is to copy an existing template. When you copy a template, you copy all its attributes other than the Template Name and Template ID. So after copying the template, you must modify any attributes that are different.

1. On the Template List page, check the check box next to the template that you want to copy and click the **Copy** button.
2. A new template with "Copy of" prefixed to the Template Name gets added to the list of templates.

To Delete a Template

1. On the Template List page, check the check box next to the template that you want to delete, and click the **Delete** button.
2. The template gets deleted from the list of templates.

To Create a New Template

1. Navigate to the Template List page and click the **New** button.
The Create New Template panel displays.

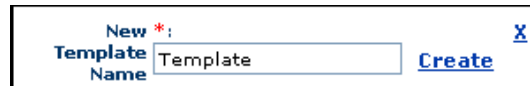


FIGURE 551. Create New Template Panel

2. Enter the Template name, and click **Create**.
The Template Detail page displays for the template that you just created.

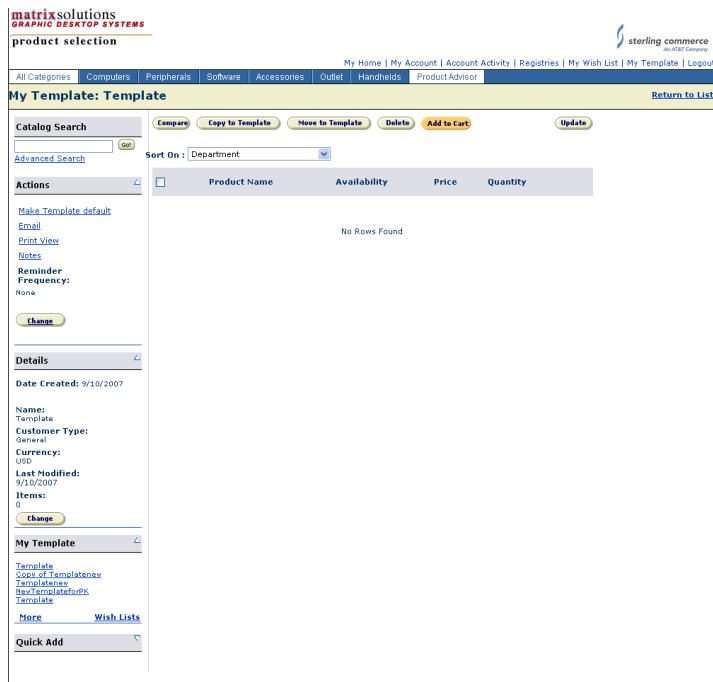


FIGURE 552. Template Detail Page

To Set a Default Template

1. Navigate to the template that you want to set as the default template, and click the **Set as Default Template** icon next to the template.

The template is set as the default template.

To Download Template Information

1. On the Template List page, check the check boxes next to the templates for which you want to download information, and click **Download Selected Templates** on the right-hand corner of the page.

A new browser window displays with the details of the selected template data in HTML format.

You can save this file to your machine. If the file has been generated by a UNIX installation of the Sterling Multi-Channel Selling Solution, then the file has UNIX end-of-line characters. This means that some Windows text-editing applications (such as Notepad) may display the file as one continuous line. You can still open the file as a spreadsheet.

To Email Template Information

1. On the Template List page, check the check boxes next to the templates whose details you want to email, and click **Email Selected Templates** on the right-hand corner of the page.

The **Send Email** pop-up displays.

A screenshot of a 'Send Email' pop-up dialog box. The dialog has a title bar with the text 'Send Email'. Below the title bar, there is a text area with the instruction: 'Enter the recipient's and your own email address, a memo, and click the "Send" button'. Below this instruction are four input fields: 'To:', 'From:', 'Cc:', and 'Memo:'. The 'To:', 'From:', and 'Cc:' fields are single-line text boxes. The 'Memo:' field is a multi-line text box with a vertical scrollbar. At the bottom right of the dialog, there are two buttons: 'Send' (orange) and 'Cancel' (blue).

FIGURE 553. Send Email Pop-Up

2. Enter the recipient's email address in the To: field and the sender's email address in the From: field. Optionally, enter a CC: email address in the CC: field and any additional comments in the Memo: field.
3. Click **Send** to send the email or **Cancel** to cancel it.

To View the Details of a Template

1. Search for the template for which you want to view the details. See "To Search for a Template" on page 862.
2. Click the appropriate Template Name.

The Template Detail page displays showing the complete details of the template, including the availability, price, and quantity of each line item.

The screenshot displays the 'My Template: Monthly Items Template' page. The sidebar on the left includes a 'Catalog Search' section with a search bar and 'Advanced Search' link, an 'Actions' section with links like 'Make Template default', 'Email', 'Print View', 'Notes', 'Reminder', and 'Frequency', and a 'Details' section showing 'Date Created: 11/12/2007'. The main content area features a table with columns: Product Name, Availability, Price, and Quantity. The table lists three items: '7480 Desktop "Base"', '17" Monitor', and 'Windows 2000'. Each item has a checkbox, a price, and a quantity field.

Product Name	Availability	Price	Quantity
<input type="checkbox"/> 7480 Desktop "Base"	Matrix Solutions Inc. View alternatives	\$733.95	<input type="text" value="1"/>
<input type="checkbox"/> 17" Monitor	included		1
<input type="checkbox"/> Windows 2000	included		1
<input type="checkbox"/> Matrix Satellite Speaker	included		2

FIGURE 554. Template Detail Page

You can use the Template Detail page to perform one or more of the following tasks:

- To add an item to a template. See "To Add an Item to a Template" on page 871.
- To set a template as the default template. See "To Set a Default Template" on page 872.

- To email template information to another user, click the **Email** link under the **Actions** panel. For more information about emailing template information, see "To Email Template Information" on page 868.
- To download template information, click the **Print View** link under the **Actions** panel. For more information about downloading template information, see "To Download Template Information" on page 868.
- To add notes for a template, click the **Notes** link under the Actions panel. See "To Add Notes for a Template" on page 872.
- To change the reminder frequency for the template. See "To Change the Reminder Frequency for a Template" on page 873.
- To modify the template details. See "To Modify Template Header Information" on page 873.
- To view more templates. See "To View More Templates" on page 874.
- To navigate to the **Wish List** tab of your workspace. See "To View Wish Lists" on page 874.
- To add an item to your cart. See "To Add an Item to a Cart" on page 874.
- To compare line items. See "To Compare Line Items" on page 874.
- To copy a line item to a template. See "To Copy a Line Item to a Template" on page 874.
- To move a line item to a template. See "To Move a Line Item to a Template" on page 875.
- To delete a line item from the template. See "To Delete a Line Item From a Template" on page 876.
- To add a line item to a cart. See "To Add a Line Item to a Cart" on page 877.
- To update a template after making modifications. See "To Update a Template After Making Changes" on page 876.
- To change the order of the sequence in which the items appear in the template. See "To Sort the Items in a Template" on page 876.
- To view complementary items for a selected line item. See "To View Complementary Items for a Line Item" on page 878.
- To view alternative items for a selected line item. See "To View Alternative Items for a Line Item" on page 859.

To Add an Item to a Template

1. On the Template Detail page, search for the item you want to add to the template using the **Catalog Search** panel.
2. Navigate to the Product Detail page of the item you want to add to the template.

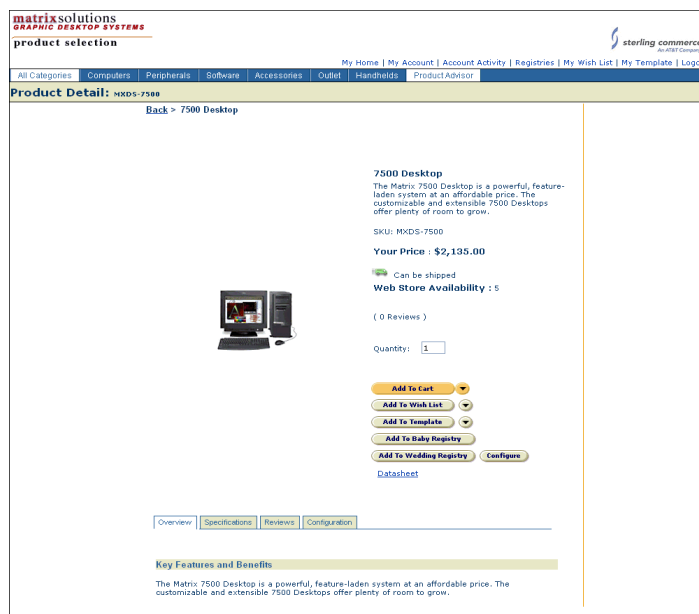


FIGURE 555. Product Detail Page

3. You can add the item to a template in one of the following ways:
 - a. Click the **Add to Template** button to add the item to the default template.
 - b. Click the down arrow next to the **Add To Template** button to select a template to add the item to.

A pop-up displays.

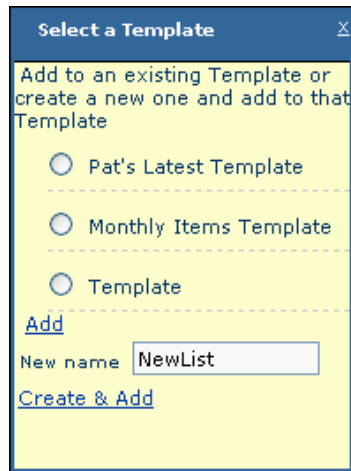


FIGURE 556. Select Template Pop-Up

Select the radio button next to the template you want to add the item to and click **Add**, or enter a template name and click **Create & Add** to create a new template and add the item to the new template.

To Set a Default Template

1. On the Template Detail page, click the **Make Template default** link under the **Actions** panel.

The template is set as the default template and the **Make Template default** link disappears.

To Add Notes for a Template

1. On the Template Detail page, click the **Notes** link under the **Actions** panel.

The **Notes** page displays.

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11 Item(s) in [Cart](#) | [My Home](#) | [My Account](#) | [Account Activity](#) | [Registries](#) | [My Wish List](#) | [My Template](#) | [Logout](#)

Note: TemplateforC3

Enter a new note in the textbox and click the 'Add Note' button to save the note.

[Back](#)

Note

[Add Note](#)

Date	Note	Organization	Created By
No Rows Found			

FIGURE 557. Notes Page

2. Enter a note, and click **Add Note**.

To Change the Reminder Frequency for a Template

1. On the Template Detail page, click the **Change** button under the **Actions** panel.
2. Select the appropriate reminder frequency for the template from the drop-down lists. You can set the reminder frequency in one of the following ways:
 - a. Weekly: Select Beginning from the drop-down list to use the Reminder Frequency cron job to send an email reminder to the user every Sunday, or End to send the reminder every Thursday.
 - b. Monthly: Select Beginning from the drop-down list to use the Reminder Frequency cron job to send an email reminder on the day before the month begins, or 15th to send the reminder on the 14th day of the month, or End to send the reminder on the last day of the month.

Note: The system sends the reminder emails at the time that the Reminder Frequency cron job is run. Administrators should set the Reminder Frequency cron job start time so that it runs late at night to prevent emails from being received one business day earlier than intended. See CHAPTER 40, "Job Scheduling Administration", for more information.

3. Click **Update**.

To Modify Template Header Information

1. On the Template Detail page, click the **Change** button under the **Details** panel.

2. Modify the appropriate details. You can change the following information:
 - Template Name, Customer Type, and Currency.
3. Click **Update**.

To View More Templates

1. On the Template Detail page, click the **More** link under the **My Template** panel.

The Template List page displays, showing the list of templates belonging to the user.

To View Wish Lists

1. On the Template Detail page, click the **Wish Lists** link under the **My Template** panel.

The **Wish Lists** tab of your workspace page displays.

To Add an Item to a Cart

1. On the Template Detail page, enter the item's Product ID and quantity under the **Quick Add** panel.
2. Click the **Add** button.

To Compare Line Items

1. On the Template Detail page, check the check boxes next to the line items you want to compare, and click the **Compare** button.
2. The **Compare Products** page displays, showing the details of the selected products.

To Copy a Line Item to a Template

1. On the Template Detail page, check the check box next to the line item you want to copy to a template, and click the **Copy to Template** button.

A pop-up displays.



FIGURE 558. Select Template To Copy Pop-Up

2. Select the radio button next to the template you want to copy the item to and click **Copy**, or enter a template name and click **Create & Copy** to create a new template and copy the item to the new template.

To Move a Line Item to a Template

1. On the Template Detail page, check the check box next to the line item you want to move to a template, and click the **Move to Template** button.



FIGURE 559. Select Template To Move Pop-Up

2. Select the radio button next to the template you want to move the item to and click **Move**, or enter a template name and click **Create & Move** to create a new template and move the item to the new template.

To Delete a Line Item From a Template

1. On the Template Detail page, check the check box next to the line item you want to delete, and click the **Delete** button.

The line item is deleted from the template.

To Update a Template After Making Changes

1. On the Template Detail page, click the **Update** button.

The template is updated with the changes that you made.

To Sort the Items in a Template

You can change the order of the sequence in which the items appear in the template.

1. On the Template Detail page, select the appropriate sorting criteria from the **Sort On** drop-down list. You can select one of the following sorting criteria:
 - Price (low to high)
 - Price (high to low)
 - Date Added (most recent first)

- Date Added (oldest first)
- Department
- Product Name (A-Z)
- Product Name (Z-A)
- Product ID (A-Z)
- Product ID (Z-A)

To Add a Line Item to a Cart

1. On the Template Detail page, check the check box next to the line item you want to add to a cart, and click the **Add to Cart** button.
 - a. If the user has only one active cart, the item gets added to this cart.
 - b. If the user has more than one active cart, a pop-up displays.

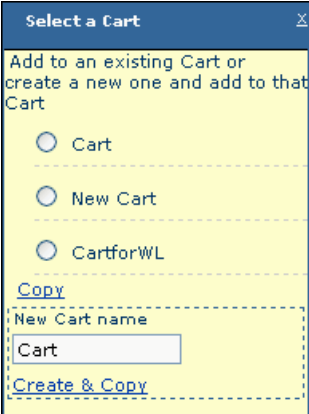
A screenshot of a 'Select a Cart' pop-up dialog. The dialog has a blue header bar with the title 'Select a Cart' and a close button (X). The main content area is yellow. It contains the text 'Add to an existing Cart or create a new one and add to that Cart'. Below this text are three radio buttons: 'Cart', 'New Cart', and 'CartforWL'. Below the radio buttons is a 'Copy' link. Below the 'Copy' link is a dashed box containing the text 'New Cart name' and a text input field with the value 'Cart'. Below the dashed box is a 'Create & Copy' link.

FIGURE 560. Select Cart Pop-Up

- Select the radio button next to the cart you want to add the item to and click **Copy**, or enter a cart name and click **Create & Copy** to create a new cart and add the item to the new cart.

To View Complementary Items for a Line Item

You can view complementary items for a line item.

Note: You can view complementary items for a line item only if the **Enable Complementary items link in Templates** business rule is set to true, and if the line item has any complementary items associated with it. For more information about business rules, see CHAPTER 39, "Business Rules Administration".

1. On the Template Detail page, navigate to the line item for which you want to view the complementary items, and click the **View Complementary Items** link.

The list of available complementary items for the line item displays.

To View Alternative Items for a Line Item

You can view the alternative items for a line item.

Note: You can view alternative items for a line item only if the **Enable Alternative items link in Templates** business rule is set to true, and if the line item has any alternative items associated with it. For more information about business rules, see CHAPTER 39, "Business Rules Administration".

1. On the Template Detail page, click the **View alternatives** link under the **Availability** column for the line item.

A pop-up displays.

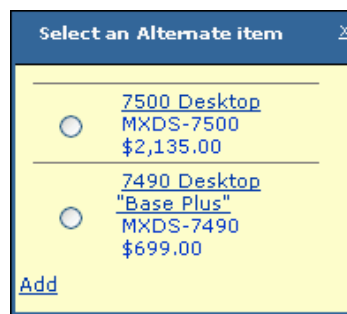


FIGURE 561. Select Alternate Item Pop-Up

The pop-up displays the list of alternative items for the line item.

2. Select the radio button next to the item you want to add to the template to replace the line item, then click **Add**.

Working with Registries

This section describes the tasks that partner users can perform to manage baby and wedding registries.

To Search for a Registry

1. Navigate to the **Registries** tab of your Account Activity page.

The Registry List page displays.

The screenshot shows the 'Account Activity' page with the 'Registries' tab selected. Below the tab, there is a search section with a dropdown for 'Registry Type' set to 'Baby Registry', and buttons for 'Search', 'Show All', and 'Advanced Search'. Below the search section, there are buttons for 'Create Baby Registry', 'Create Wedding Registry', 'Private', and 'Public'. A table lists existing registries with columns for Registry ID, Registry Type, Registrant Name, Co-Registrant Name, Last Modified, Date Created, Event Date, and Status. Two registries are listed: 'Pat's New Wedding Registry' and 'Pat's Wedding Registry'. A link 'Find someone else's Registry' is at the bottom right.

Registry ID	Registry Type	Registrant Name	Co-Registrant Name	Last Modified	Date Created	Event Date	Status
600900	Pat's New Wedding Registry	Kelley,Pat		11/12/2007	11/12/2007	11/28/2007	Private
600880	Pat's Wedding Registry	Kelley,Pat		11/12/2007	11/12/2007	12/12/2007	Private

FIGURE 562. Registry List Page

2. You can perform one of the following tasks to search for a registry:
 - a. Click **Search** to perform a quick search on Registry Type, Registrant Name, Co-Registrant Name, Status, Product ID, or Event Location.
 - b. Click **Show All** to display the list of all the registries.
 - c. Click **Advanced Search** to perform an advanced search for the registry.

The Registries Search page displays.

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My Home | My Account | Account Activity | Registries | My Wish List | My Template | Logout

Return to List

Registries Search

Search for Registries with the given criteria. Partial entries with the wildcard character (*) are supported for Product ID.

Submit Reset

Find Registries with the following attributes

Registry ID

Product ID

Event Location

Find Registries By Registrant's Detail

First Name

Last Name

Find Registries By Co-Registrant's Detail

First Name

Last Name

Search Registries By Registry Type

Registry Type

Search Registries By Status

Registry Status

Find Registries by Date Range

Creation Date

Last Modified

Starting Date:MM/DD/YYYY

Starting Date:MM/DD/YYYY

Ending Date:MM/DD/YYYY

Ending Date:MM/DD/YYYY

FIGURE 563. Registries Search Page

3. Click **Submit** to display all the registries, or enter search criteria.

Enter search criteria to help you locate a list or set of lists. You can specify the criteria to limit the scope of the search. The search criteria are described in Table 57 on page 881.

TABLE 57. Search Fields

Field	Description
Registry ID	Enter the ID number for the registry if you are searching for a particular registry.
Product ID	If you enter one or more product IDs, then only registries that contain one or more of those IDs are listed.
Event Location	Enter the location where the event will be held.
First Name	Enter the first name of the registrant to find all registries created by the registrant.
Last Name	Enter the last name of the registrant to find all registries created by the registrant.
First Name	If you enter the first name of the co-registrant, then only registries that have this last name as the co-registrant's first name are listed.
Last Name	If you enter the last name of the co-registrant, then only registries that have this last name as the co-registrant's last name are listed.
Registry Type	Select Baby Registry if you are searching for a baby registry, or Wedding Registry if you are searching for a wedding registry.
Registry Status	Select Private or Public.
Creation Date	Enter the Starting Date and Ending Date to find all registries created within a certain time frame. Enter Starting Date only to find all registries from the specified date forward. Enter an Ending Date only to find all registries up to the specified date.
Last Modified	Enter the Starting Date and Ending Date to find all registries updated within a certain time frame. Enter Starting Date only to find all registries from the specified date forward. Enter an Ending Date only to find all registries up to the specified date.

The Search Results page displays a list of all the registries that meet your search criteria.

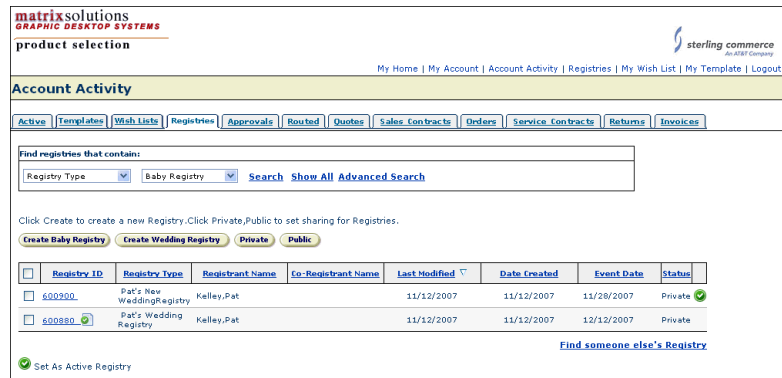


FIGURE 564. Registry Search Results Page

4. Click an item or refine your search.

If you can identify the registry that you are looking for, click its link to display the Registry Detail page. The Registry Detail page provides a complete description of a registry, including the availability, price, desired quantity and received quantity of each line item.

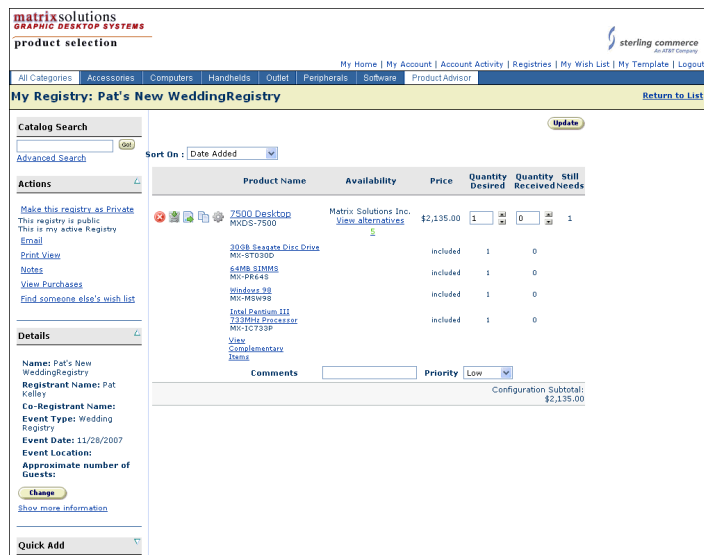


FIGURE 565. Registry Detail Page

To Create a Registry

1. Navigate to the **Registries** tab of your Account Activity page.
The Registry List page displays.
2. Click the **Create Baby Registry** button if you want to create a baby registry, or click the **Create Wedding Registry** button if you want to create a wedding registry.

The **Event Details** page displays. The Event Details step is the first in the three-step registry creation process.

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My Home | My Account | Account Activity | Registries | My Wish List | My Template | Help | Logout

Wedding Registry

Event details | Ship | Confirm | **Next**

Create a Wedding Registry:
Enter your Registry's information.

Wedding Date *

Wedding Location

Shower Date

Shower Location

Approximate number of guests

Reward Card No.

Comments

Registrant's Info:

Registrant's First Name *

Registrant's Last Name *

Registrant's Email

Registrant's Address Line 1 *

Registrant's Address Line 2 *

Registrant's city *

State and Zip

Country *

[More Addresses](#)

☐ Save to User Profile

Registrant's Phone No. *

Co-Registrant's Info:

Co-Registrant's First Name

Co-Registrant's Last Name

Co-Registrant's Email

Co-Registrant's Address Line 1

Co-Registrant's Address Line 2

Co-Registrant's city

State and Zip

Country

Co-Registrant's Phone No.

Business: 610-6850
Fax: 610-6802
Mobile: 799-3487

Add **Remove**

FIGURE 566. Event Details Page

3. Enter the appropriate details. See Table 58 on page 884 for a description of the fields.

TABLE 58. Event Details Fields

Field	Description
Wedding Date	Click the calendar icon to select a wedding date. Note: This field displays only if you are creating a wedding registry.
Wedding Location	Enter the location of the wedding. Note: This field displays only if you are creating a wedding registry.
Shower Date	Click the calendar icon to select a shower date for the registry.
Shower Location	Enter the location of the shower.
Expected Birth Date	Click the calendar icon to select the expected birth date of the baby. Note: This field displays only if you are creating a baby registry.
Baby Gender	Select Boy, Girl, or Not Known from the drop-down list. Note: This field displays only if you are creating a baby registry.
Approximate number of guests	Enter the number of guests expected to attend the event.
Reward Card No.	Enter the reward card number.
Comments	Enter your comments.
Registrant's First Name	Enter the registrant's first name.
Registrant's Last Name	Enter the registrant's last name.
Registrant's Email	Enter the registrant's email address.
Registrant's Address Line 1	Enter the first line of the registrant's address. Click the Copy Registrant's Address icon next to this field to copy the registrant's address to the co-registrant's address fields.
Registrant's Address Line 2	Enter the second line of the registrant's address.
Registrant's city	Enter the registrant's city.

TABLE 58. Event Details Fields

Field	Description
State and Zip	Select the registrant's state and enter its zip code.
Country	Select the registrant's country.
More Addresses	Click this link to select another address for the registrant.
Save to User Profile	Check this check box to save the registrant's address in the user's profile as a new Bill To address.
Registrant's Phone No.	Select the type of phone number and enter the phone number, then click the Add or Remove button to add or remove the registrant's phone numbers.
Co-Registrant's First Name	Enter the co-registrant's first name.
Co-Registrant's Last Name	Enter the co-registrant's last name.
Co-Registrant's Email	Enter the co-registrant's email address.
Co-Registrant's Address Line 1	Enter the first line of the co-registrant's address.
Co-Registrant's Address Line 2	Enter the second line of the co-registrant's address.
Co-Registrant's city	Enter the co-registrant's city.
State and Zip	Select the co-registrant's state and enter its zip code.
Country	Select the co-registrant's country.
Co-Registrant's Phone No.	Enter the co-registrant's phone number.

4. Click **Next**.

The Shipping Information page displays.

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product selection

My Home | My Account | Account Activity | Registries | My Wish List | My Template | Logout

All Categories | Accessories | Computers | Handhelds | Outlet | Peripherals | Software | Product Advisor

Shipping Information

Event details | **Ship** | Confirm | Next

Enter/Select Your Shipping address: If you set a default address in your profile, then that address has been populated for you automatically. If you want to use this address, just press 'Next'. You may enter a new address by typing one below, or by selecting an address from your address book. To select an address from the list, click the 'arrow' button to the right of the address. To see more addresses from your address book, click the 'More' link.

Current Address

601 Emerald Bay Lane
First floor
Springfield, CT 26595
USA

601 Emerald Bay Lane
First floor
Springfield, CT 26595
USA

601 Emerald Bay Lane
First floor
Springfield, CT 26595
USA

601 Emerald Bay Lane
First floor
Springfield, CT 26595
USA

Title:

Last name:

First name:

Address Line 1: *

Address Line 2:

City: *

State and Zip:

Country: *

☐ Save To User Profile

Future Address

Disable Address: ☒

Start Date:

Title:

Last name:

First name:

Address Line 1: *

Address Line 2:

City: *

State and Zip:

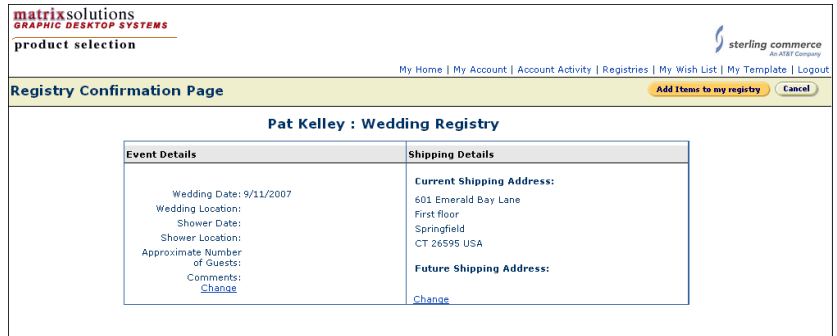
Country: *

☐ Save To User Profile

FIGURE 567. Shipping Details Page

5. Enter the appropriate shipping information.
6. Click **Next**.

The Registry Confirmation Page displays. The Registry Confirmation is the final step in the three-step registry creation process.



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My Home | My Account | Account Activity | Registries | My Wish List | My Template | Logout


Registry Confirmation Page [Add Items to my registry](#) [Cancel](#)

Pat Kelley : Wedding Registry

Event Details	Shipping Details
Wedding Date: 9/11/2007 Wedding Location: Shower Date: Shower Location: Approximate Number of Guests: Comments: Change	Current Shipping Address: 601 Emerald Bay Lane First floor Springfield CT 26595 USA Future Shipping Address: Change

FIGURE 568. Registry Confirmation Page

- Click the **Add Items to my registry** button to add items to the registry.
The Registry Detail page displays.



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My Home | My Account | Account Activity | Registries | My Wish List | My Template | Logout

All Categories | Accessories | Computers | Handhelds | Outlet | Peripherals | Software | Product Advisor

My Registry: Pat's New WeddingRegistry [Return to List](#)

[Update](#)

Catalog Search

[Get](#)

[Advanced Search](#)

Actions

[Make this registry as Private](#)
This is my active Registry

[Email](#)
[Print View](#)
[Notes](#)
[View Purchases](#)
[Find someone else's wish list](#)

Details

Name: Pat's New WeddingRegistry
 Registrant Name: Pat Kelley
 Co-Registrant Name:
 Event Type: Wedding Registry
 Event Date: 11/28/2007
 Event Location:
 Approximate number of Guests:
[Change](#)
[Show more information](#)

Quick Add

Sort On :

Product Name	Availability	Price	Quantity Desired	Quantity Received	Still Needs
7500 Desktop MXDS-7500 View alternatives	Matrix Solutions Inc.	\$2,135.00	<input type="text" value="1"/>	<input type="text" value="0"/>	<input type="text" value="1"/>
20GB Sata/Side Disc Drive MX-ST0300	included		1	0	
4GB SDRAM MX-PR445	included		1	0	
Windows 98 MX-M9W98	included		1	0	
Intel Pentium III 733MHz Processor MX-TC733P	included		1	0	
View Complementary Items					
Comments <input type="text"/>	Priority <input type="text" value="Low"/>				
Configuration Subtotal: \$2,135.00					

FIGURE 569. Registry Detail Page

8. Search for the item you want to add to the registry by using the **Catalog Search** panel.
9. Navigate to the Product Detail page of the item you want to add to the registry.

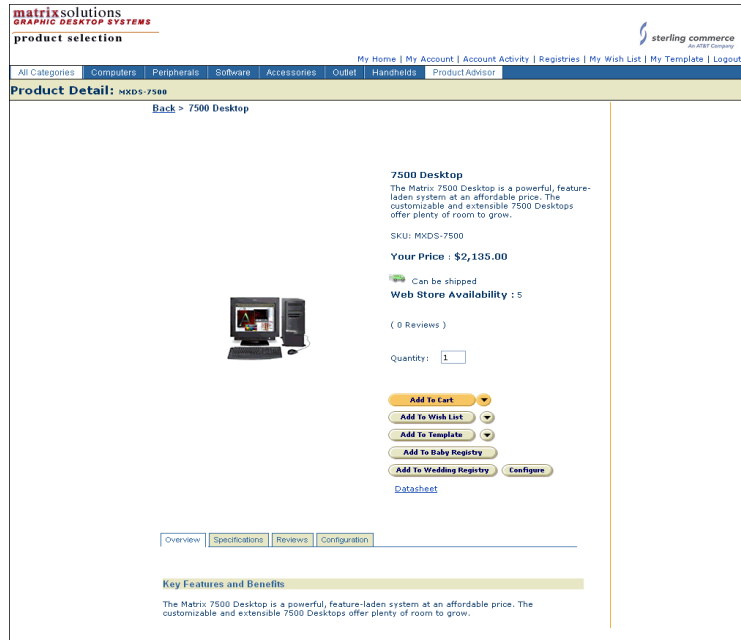


FIGURE 570. Product Detail Page

10. You can add the item to your active registry or another existing registry.
 - a. Click the **Add to Wedding Registry** button to add the item to your active wedding registry, or click the **Add to Baby Registry** button to add the item to your active baby registry.

Note: Users can have more than one baby registry or wedding registry but they cannot have more than one active registry of each type at the same time.

- b. Click the down arrow next to the **Add to Wedding Registry** button to add the item to an existing wedding registry, or click the down arrow next to the **Add to Baby Registry** button to add the item to an existing baby registry.

A pop-up displays, similar to the following figure.

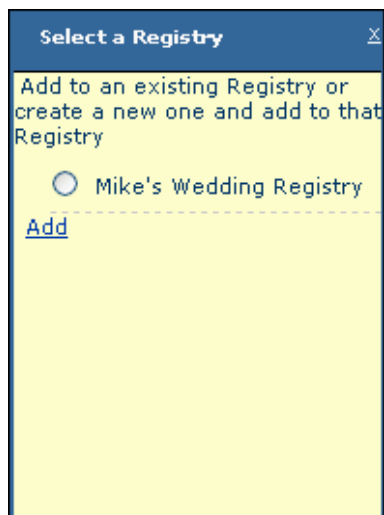


FIGURE 571. Select Registry Pop-Up

To Mark a Registry Private

1. Navigate to the **Registries** tab of your Account Activity page.
The Registry List page displays.
2. Check the check box next to the registry you want to mark private, then click the **Private** button.

To Mark a Registry Public

1. Navigate to the **Registries** tab of your Account Activity page.
The Registry List page displays.
2. Check the check box next to the registry you want to mark public, then click the **Public** button.

Note: You can mark a registry Public only if it is in Active status.

To Set a Registry as Active

1. Navigate to the **Registries** tab of your Account Activity page.
The Registry List page displays.

2. Click the **Set As Active Registry** icon next to the registry you want to set as your active registry.

Note: You can have only one active registry of each type at one time.

To Purchase Items from a Registry

1. Search for and navigate to the registry from where you want to purchase the items. See "To Search for a Registry" on page 879.
2. On the Registry Detail page, click the **Add to Cart** icon next to the line item to add the item to your cart.
 - a. If the user has only one active cart, the item gets added to this cart.
 - b. If the user has more than one active cart, a pop-up displays.

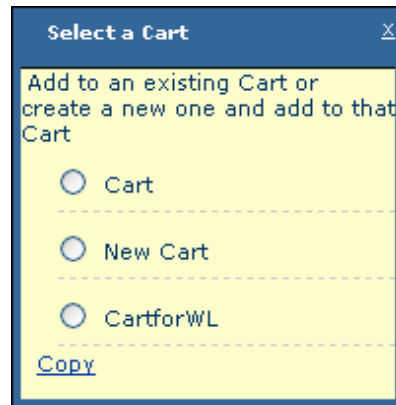


FIGURE 572. Select Cart Pop-Up

- Select the cart to which you want to add the item, then click **Copy**.
3. Navigate to your cart. See "To Search for a Cart" on page 838.
 4. On the Cart Detail page, click the **Checkout** button.
 5. Enter the Ship To and Bill To addresses, then click the **Place Order** button.

To Search for a Registry Belonging to Another User

1. On the Registry List page, click the **Find someone else's Registry** link in the lower right-hand corner of the page.

The Public Registry Search page displays.

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My Home | My Account | Account Activity | Registries | My Wish List | My Template | Logout

All Categories | Accessories | Computers | Handhelds | Outlet | Peripherals | Software | Product Advisor

Public Registry(s) [Return](#)

Find Someone's Registry:

Registrant's or Co-Registrant's First Name: Registrant's or Co-Registrant's Last Name:*

[Search](#)

Name	Registrant First Name	Registrant LastName	Co-Registrant First Name	Co-Registrant LastName	Event Date	Event Location
No Rows Found						

FIGURE 573. Public Registry Search Page

- Enter the registrant or co-registrant's first name and last name, then click **Search**.

The Public Registry Search Results page displays the list of all the registries that meet your search criteria. The search results page displays only the registries that are marked Public.

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My Home | My Account | Account Activity | Registries | My Wish List | My Template | Logout

All Categories | Accessories | Computers | Handhelds | Outlet | Peripherals | Software | Product Advisor

Public Registry(s) [Return](#)

Find Someone's Registry:

Registrant's or Co-Registrant's First Name: Registrant's or Co-Registrant's Last Name:*

[Search](#)

Name	Registrant First Name	Registrant LastName	Co-Registrant First Name	Co-Registrant LastName	Event Date	Event Location
Mike's Wedding Registry	Mike	Scott			12/12/2007	Redwood City, California

FIGURE 574. Public Registry Search Results Page

Click the Registry Name to view the details of the registry and purchase items from the registry, or refine your search.

To Purchase Items from a Registry Belonging to Another User

- Search for the registry from where you want to purchase items. See "To Search for a Registry Belonging to Another User" on page 890.

2. On the Public Registry Search Results page, click the Registry Name from where you want to purchase items.

The Registry Detail page displays.

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My Home | My Account | Account Activity | Registries | My Wish List | My Template | Logout

All Categories | Accessories | Computers | Handhelds | Outlet | Peripherals | Software | Product Advisor

Registry: BabyRegistry [Return to List](#)

Actions

Sort On: Date Added

[Print View](#)

Details

Name: BabyRegistry
Registrant Name: Pat Kelley
Co-Registrant Name:
Event Type: Baby Registry
Event Date: 9/16/2007
Event Location:
Approximate number of Guests:
Shower Date: 9/19/2007
Shower Location:
Shipping Address:
Comments:
Currency: USD
Date Created: 9/10/2007
Last Modified: 9/11/2007
Items: 1

[Hide extra information](#)


Product Name	Availability	Price	Quantity Desired	Quantity Received	Still Needs
 7480 Desktop "Base" MXDS-7480	Matrix Solutions Inc.	\$733.95	2	0	2
17" Monitor MX-GV17T		Included	2	0	
Windows 2000 MX-MSW02		Included	2	0	
Matrix Satellite Speaker MXA-MSS		Included	4	0	
Comments	Priority	Low			

FIGURE 575. Registry Detail Page

3. Click the **Add to Cart** icon next to the line item to purchase an item from the registry.
 - a. If the user has only one active cart, the item gets added to this cart.
 - b. If the user has more than one active cart, a pop-up displays.

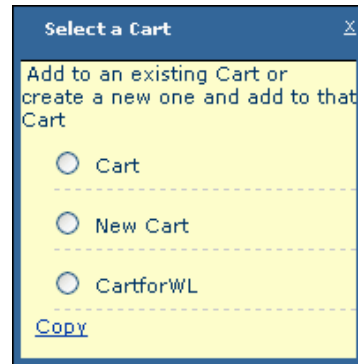


FIGURE 576. Select Cart Pop-Up

- Select the cart to which you want to add the item, then click **Copy**.
4. Search for the cart to which you copied the items you want to purchase and navigate to the Cart Detail page. See "To Search for a Cart" on page 838.
 5. Click the **Checkout** button.

The **Order Detail** page displays.

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product selection

My Home | My Account | Account Activity | Registries | My Wish List | My Template | Logout

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Review the order details below and click 'Place Order' to complete your purchase

If you aren't done yet, [Go Back and Edit your Cart.](#)

Place Order

Order Details - Items Shipping from: Matrix Solutions Inc.						Payment																																											
Sold-To						Order Summary																																											
Pat Kelley Anderel 601 Emerald Bay Lane First floor Springfield, CT 26595 USA Change						Misc. Adjustments: (\$141.79) Adjusted Subtotal: \$3,527.96 Tax: \$211.68 Shipping Cost: \$176.40 Total Price: \$3,916.04																																											
Shipping Details						Redeem Coupons/ Gift Certificates																																											
Shipping To: Pat Kelley Shipping Method: UPS Shipping Instructions: Anderel 601 Emerald Bay Lane First floor Springfield, CT 26595 USA Change						Enter promo codes/ gift certificate # here: <input type="text"/> Add																																											
Item Details						Billing Address																																											
<table><thead><tr><th>Name</th><th>Ship To</th><th>Ship Via</th><th>Other Charges</th><th>Quantity Avail.</th><th>Amount</th></tr></thead><tbody><tr><td>7480 Desktop Base</td><td></td><td></td><td></td><td>5</td><td>\$3,669.75</td></tr><tr><td>RXDS-7480</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>17" Monitor MX-GV17T</td><td></td><td></td><td>included</td><td>5</td><td>included</td></tr><tr><td>Windows 2000 MX-WSP2K</td><td></td><td></td><td>included</td><td>5</td><td>included</td></tr><tr><td>Matrix Satellite Speaker MKA-MSS</td><td></td><td></td><td>included</td><td>10</td><td>included</td></tr><tr><td colspan="5">Subtotals:</td><td>\$3,669.75</td></tr></tbody></table>						Name	Ship To	Ship Via	Other Charges	Quantity Avail.	Amount	7480 Desktop Base				5	\$3,669.75	RXDS-7480						17" Monitor MX-GV17T			included	5	included	Windows 2000 MX-WSP2K			included	5	included	Matrix Satellite Speaker MKA-MSS			included	10	included	Subtotals:					\$3,669.75	Payment Method	
Name	Ship To	Ship Via	Other Charges	Quantity Avail.	Amount																																												
7480 Desktop Base				5	\$3,669.75																																												
RXDS-7480																																																	
17" Monitor MX-GV17T			included	5	included																																												
Windows 2000 MX-WSP2K			included	5	included																																												
Matrix Satellite Speaker MKA-MSS			included	10	included																																												
Subtotals:					\$3,669.75																																												
						Payment Type: Credit card Credit Card Type: CC Number: Exp. Date: September / 2007 Name On Card: Phone #: 610-6850 Payment Email: pkelley@rit.com P.O. #: Taxable: Yes Change																																											

FIGURE 577. Order Detail Page

6. Click the **Place Order** button.

Working with Quotes

Partner users can create quotes from product carts. They can also submit requests for price negotiation. The customer service representative uses the tasks in this section to approve or reject the quotes. Once approved, a price-negotiation quote becomes an orderable quote. The customer service representative can use the tasks in this section to edit quote details. For further details, see "Processing Quotes" on page 982.

To Search for a Quote

You can search for a quote as follows:

1. Click **Advanced Search** in the Quotes panel on the Sterling Multi-Channel Selling Solution home page.

FIGURE 578. Quotes Search Page

2. Enter search criteria.

Note: You can click **Submit** to display all the lists of the selected list type.

You can specify one or more of the criteria listed in Table 54 on page 840 to limit the scope of the search.

3. Click **Submit**.

The Search Results page displays all of the quotes that meet your search criteria.

FIGURE 579. Quotes Search Results Page

To View Cart Activity for Selected Partners

See "To View Cart Activity for Selected Profiles" on page 202.

This chapter covers tasks performed on the enterprise server only by enterprise employees who have been assigned the Commerce function in the Sterling Multi-Channel Selling Solution. See CHAPTER 6, "User Administration" for information about assigning functions. "Customer Service" on page 44 provides an overview of customer service in the Sterling Multi-Channel Selling Solution.

The users assigned the Commerce function can perform the following tasks in the Sterling Multi-Channel Selling Solution:

- "Viewing and Modifying Order Information" on page 900
 - "To Search for Orders" on page 900
 - "To Modify Price and Quantity Information" on page 903
 - "To Modify Order Header Information" on page 905
 - "To Modify Header Information for a Line Item" on page 908
 - "To View Order History" on page 912
- "Ordering On Behalf Of Customers" on page 913
 - "To Create Orders On Behalf of Customers" on page 914
 - "To Download Order Information" on page 919
- "Managing Wish Lists" on page 922

- "To Create a Wish List On Behalf of a Customer" on page 922
- "To Add Items to a Wish List on Behalf of a Customer" on page 924
- "To Search for and View the Details of a Wish List" on page 926
- "To Email Wish List Information" on page 932
- "To Download Wish List Information" on page 932
- "To Add Notes for a Wish List" on page 932
- "To View the Purchase History of a Wish List" on page 933
- "To Search for a Wish List Belonging to Another User" on page 934
- "To Modify a Wish List Header Information" on page 935
- "To Add an Item to a Cart" on page 935
- "To Move an Item to a Wish List" on page 936
- "To Copy an Item to a Wish List" on page 937
- "To View Alternative Items for a Line Item" on page 938
- "To View Complementary Items for a Line Item" on page 939
- "To Purchase Items for Another User from the User's Wish List" on page 939
- "Managing Templates" on page 941
 - "To Create a Template on Behalf of a Customer" on page 941
 - "To Add Items to a Template on Behalf of a Customer" on page 943
 - "To Search for and View the Details of a Template" on page 945
 - "To Compare Items in a Template" on page 949
 - "To Copy an Item to A Template" on page 950
 - "To Move an Item to a Template" on page 951
 - "To Delete an Item from a Template" on page 951
 - "To Add an Item to a Cart" on page 951
 - "To View Complementary Items for a Template" on page 952
 - "To View Alternative Items for a Line Item" on page 952
 - "To Download Template Information" on page 953

-
- "To Email Template Information" on page 954
 - "Managing Registries" on page 955
 - "To Create a Registry on Behalf of a Customer" on page 955
 - "To Search for a Registry" on page 962
 - "To Email Registry Information to Another User" on page 967
 - "To Download Registry Information" on page 968
 - "To Add Notes for a Registry" on page 968
 - "To Modify a Registry's Header Information" on page 970
 - "To Add a Line Item to a Cart" on page 971
 - "To Move a Line Item to a Registry" on page 971
 - "To View Complementary Items for a Line Item" on page 973
 - "To View Alternative Items for a Line Item" on page 973
 - "To Search for a Registry Belonging to Another User" on page 974
 - "Working with Service Contracts" on page 975
 - "To Search for Service Contracts" on page 976
 - "To Modify Service Contracts" on page 977
 - "To View Service Contract History" on page 977
 - "Processing Return Requests" on page 978
 - "To Search for Return Requests" on page 978
 - "To Process Return Requests" on page 981
 - "Processing Quotes" on page 982
 - "To Search for Quotes" on page 982
 - "To Process Quotes" on page 984
 - "To Modify a Quote" on page 985
 - "To Reject a Quote" on page 987
 - "Creating Tasks From Commerce Objects" on page 987
 - "To Create a Task from a Commerce Object" on page 987

Viewing and Modifying Order Information

Once an order has been placed and accepted, customer service representatives can modify information about the order. This includes order header information (addresses and shipping details), and line item information (quantities, prices, ship-to addresses). For example, the original order quantity might have warranted a price break; a change in quantity might mean the price break is no longer relevant.

You can only modify orders whose status is either "In Process", "Partially Shipped", or "Partially Shipped, Partially Returned". When the order status is any of the "submitted" states ("Order Submitted", "Change Submitted", and so on), you cannot modify the order until the submission has been processed.

Simultaneous Changes to an Order

If simultaneous modifications are being made to an order, such as users or administrators modifying orders at a Sterling Multi-Channel Selling Solution installation, automatic ERP updates to the Sterling Multi-Channel Selling Solution installation, and so on, the last-saved changes override previous changes.

For example, Person A displays the Order Detail page and changes a line item quantity from 5 to 10. At the same time, Person B displays the Order Detail page for the same order and changes the quantity for another line item from 5 to 8. Person B submits their changes which are then committed to the database. Person A then submits changes which are committed to the database. When Person B logs in later and displays the Order Detail page for the changed order, the quantity that Person B changed will still show 5 not 8. The quantity for the line item changed by Person A will show correctly, 10 not 5.

In the same way, Person A can make a change to a partially-shipped line item which, while Person A is making the change, is being completely shipped. When Person A attempts to submit the change, the database will show that the line item cannot be modified. The system will refuse to allow the change by Person A.

If you suspect that changes have been made to an order, then you should log out of the Sterling Multi-Channel Selling Solution and log back in again. When you display the order, the order will contain the latest changes.

To Search for Orders

You can search for orders as follows:

1. Click **Advanced Search** in the Orders panel on the Sterling Multi-Channel Selling Solution home page.

FIGURE 580. Order Search Page

2. Enter one or more search criteria (Table 59 on page 901), then click **Submit**.

You can use the asterisk (*) to perform wildcard searches.

The Orders tab of your Workspace page (Figure 581 on page 902) displays all of the orders that meet your search criteria.

TABLE 59. Searching for Orders: Search Fields

Field	Description
Accounts by Manager/Rep	You can specify that the search should be performed only over partner accounts that are assigned to particular enterprise managers and users. Click ... to select users from the enterprise organization.
Organization	If you enter the name of an organization, then only orders that belong to users of that organization are listed.
Username	Enter the username of a user to find all orders created by the specific user.
User First Name	Enter the first name of a user to find all orders created by the specific user.
User Last Name	Enter the last name of a user to find all orders created by the specific user.

TABLE 59. Searching for Orders: Search Fields (Continued)

Field	Description
Reference Number	Enter a reference number to retrieve an order by its reference number.
Supplier Name	Enter the name of a supplier to find all orders placed with the supplier.
Order Number	Enter a order number to retrieve an order by its order number.
PO Number	Enter a purchase order number to retrieve an order by its purchase order number.
Product Id	If you enter one or more product IDs, then only lists that contain one or more of those IDs are listed.
Serial Number	Enter a serial number to retrieve orders that use this serial number.
Order Status	Select an order status.
Ordered Date	Enter the Starting Date and Ending Date to find all orders placed within a certain time frame. Enter Starting Date only to find all orders from the specified date forward. Enter an Ending Date only to find all orders up to the specified date.
Last Updated	Enter the Starting Date and Ending Date to find all orders updated within a certain time frame. Enter Starting Date only to find all orders from the specified date forward. Enter an Ending Date only to find all orders up to the specified date.

The screenshot shows the Sterling Commerce Administration interface. At the top, there's a navigation bar with 'sterling commerce' logo and 'Administration' text. Below it, a 'My Home | My Account | About | Help | Logout' link set is visible. The main section is titled 'Account Activity' and contains a series of tabs: 'Active', 'Templates', 'Wish Lists', 'Registries', 'Quotes', 'Sales Contracts', 'Orders', 'Service Contracts', 'Returns', and 'Invoices'. The 'Orders' tab is currently selected. Below the tabs, there's a search section titled 'Find orders that contain:' with a dropdown menu set to 'Reference #' and a search input field. Below the search field are links for 'Search', 'Show All', and 'Advanced Search'. A message states: 'You are viewing lists for Username mscott, User First Name Mike, User Last Name Scott'. Below this, a note says: 'Click on "Reorder" to copy over the contents of selected orders into active carts. Orders with the same reference number result in a single active cart.' There is a 'Reorder' button. Below the message is a table of search results with columns: Supplier, Reference #, Sales Order #, Purchase Order #, Last Modified, Date Submitted, Amount, Overall Status, User Name, and Organization. Two results are shown: 1) Matrix Solutions Inc. with Reference # 600532, Sales Order # 6525602281, Purchase Order # 9274023, Last Modified 5/16/2007, Date Submitted 5/16/2007, Amount \$24,776.43, Overall Status Shipped, User Name Scott, Mike, and Organization DataSolve. 2) Matrix Solutions Inc. with Reference # 300048, Sales Order # 8341308327, Purchase Order # qw75987qwe98, Last Modified 6/7/2006, Date Submitted 6/7/2006, Amount \$247,781.42, Overall Status Partially Shipped, User Name Scott, Mike, and Organization DataSolve. At the bottom right of the table are links for 'Download Selected Orders' and 'Email Selected Orders'.

Supplier	Reference #	Sales Order #	Purchase Order #	Last Modified	Date Submitted	Amount	Overall Status	User Name	Organization
<input type="checkbox"/> Matrix Solutions Inc.	600532	6525602281	9274023	5/16/2007	5/16/2007	\$24,776.43	Shipped	Scott, Mike	DataSolve
<input type="checkbox"/> Matrix Solutions Inc.	300048	8341308327	qw75987qwe98	6/7/2006	6/7/2006	\$247,781.42	Partially Shipped	Scott, Mike	DataSolve

FIGURE 581. Workspace Page: Orders Tab with Search Results

- Click the order number to see the Order Detail page.

This page provides specific information about the order, including relevant information about the user, the order, and the line item(s).

COMERGENT Administration eBusiness System		My Home My Account About Help Logout														
Order Details: Order # 8096603576 Return to List																
Back																
<table border="1"> <tr><td>Order #:</td><td>8096603576</td></tr> <tr><td>Customer Type:</td><td>General</td></tr> <tr><td>Currency:</td><td>USD</td></tr> <tr><td>Last Modified:</td><td>9/22/2005</td></tr> <tr><td>Items:</td><td>1</td></tr> <tr><td>User Name:</td><td>Scott, Mike</td></tr> <tr><td>Organization:</td><td>DataSolve</td></tr> </table>			Order #:	8096603576	Customer Type:	General	Currency:	USD	Last Modified:	9/22/2005	Items:	1	User Name:	Scott, Mike	Organization:	DataSolve
Order #:	8096603576															
Customer Type:	General															
Currency:	USD															
Last Modified:	9/22/2005															
Items:	1															
User Name:	Scott, Mike															
Organization:	DataSolve															
Review the order details. To return already delivered products click Request Return. To view Invoices for this Order, click the Invoices button below.																
Supplier: Enterprise																
Shipping Information Ship To: Mike Scott 172 Barford Ave, First floor Salt Lake City, UT 84093 USA Ship Via: UPS Ship when complete: No Deliver on: Hemo:	Billing Information Bill To: Mike Scott 172 Barford Ave, First floor Salt Lake City, UT 84093 USA PO Number: None Email Address: m.scott@comsolutions.com Account Number: 12345245 Expiry Date: 11/30/2008	Sold-To Information Sold To: Mike Scott 172 Barford Ave, First floor Salt Lake City, UT 84093 USA														

FIGURE 582. Order Detail Page


If the order has not yet been accepted, then the page will be displayed as read-only. Otherwise, the page is displayed as in Figure 582 on page 903.

To Modify Price and Quantity Information

You may be required to change an order, for example in response to a request by a user.

- Search for and display the Order Detail page for the order you want to modify.
See "To Search for Orders" on page 900.
- Click **Change Order**.

This displays the Change Order page.

 **sterling commerce**
An AT&T Company

Administration

[My Home](#) | [My Account](#) | [About](#) | [Help](#) | [Logout](#)

Change Order:: Redwood Securities

[Return to List](#)

Catalog Search

[Advanced Search](#)
[Browse Catalog](#)
[Help Me Find Products](#)

Actions

[Email](#)
[Print View](#)
[Notes](#)

Details

Order #:
9912593762

Order Status:
Partially Shipped

Supplier Name:
Matrix Solutions Inc.

Customer Type:
General

Currency:
USD

Last Modified:
5/16/2007

Items:
5

User Name:
[Sutton, Felix](#)

Quick Add

Enter Product ID and QTY below.
Once you are done entering
products, click on Add to include
the products in your Order.

Checkout >

Zip Code for Store Pickup:

Update

Name	Availability	Other Charges	Price	Quantity	Total
Soundblaster Live! Value audio card MX-SC0204			\$85.33	10	\$853.30
IEEE 1394 Controller Card MX-FW3343			\$63.22	10	\$632.20
Matrox G450 MX-GC091			\$143.00	10	\$1,430.00
nVIDIA GeForce 2 GTS, 32MB DDR MX-GC301			\$164.00	10	\$1,640.00
<div><div><div><div></div><div></div><div></div></div><div>nVIDIA Quadro2Pro, 64MB VGA/TVI MX-GC332</div></div></div> <div><div><input type="radio"/> Pickup</div><div><input checked="" type="radio"/> Ship</div></div> <div><div>\$230.00</div><div>10</div><div>\$2,300.00</div></div>					
Subtotals:					\$6,855.50
Misc. Adjustments:					\$0.00
Adjusted Subtotal:					\$6,855.50
Tax:					\$959.77
Shipping Cost:					\$891.22
Adj Shipping Cost:					\$891.22
Total Price:					\$8,706.49

Checkout >

FIGURE 583. Change Order Page

3. Modify the price or quantity of the line items you want to change. You can add products to the carts in these ways:
- a. Click **Browse Catalog** to navigate through the product catalog to the product that you want to add.
 - b. Click **Help Me Find Products** to use Sterling Advisor to identify products that meet the customer's needs.
 - c. Click **Advanced Search** to search for the product you want to add to the cart.

The screenshot shows a web interface titled "Enter Product ID Panel". At the top, there are two buttons: "Continue Shopping" on the left and "Enter Product IDs" on the right. Below these buttons, a text instruction reads: "Enter Product ID and QTY below, and Add. Once you are done entering products, click 'Add To List' to include the products in your Product List." The main area contains two input fields: "Product ID#" and "QTY". To the right of the "QTY" field is an "Add" button. Below the input fields, a text instruction says: "Click the 'Add to List' button below to include these products in your Product List". At the bottom left of the panel is a yellow "Add to List" button.

FIGURE 584. Enter Product ID Panel

Enter the product ID and quantity and then click **Add**. You can enter product IDs that do not exist in the product catalog: these are referred to as *external products*. If you do so, then you must uncheck the **Validate product** check box. When you do, extra fields open up so that you can enter a Name, Description, and Price for this external product. Then click **Add to List**. Note that external product prices cannot be validated against the price lists stored in the Knowledgebase: if the currency of the cart changes, then the prices of external products are marked as N/A (not available).

4. Click **Update**.
5. Click **Checkout**. If you want to change information in the order header such as delivery or payment information, then click **Edit**. When you have finished making changes, then click **Save** to return to the Change Order Header page.
6. Click **Place Order** to submit the changes.

The changes are submitted and the status of the order changes to "Change Submitted".


7. On the Confirmation of Order page, click **Done** to return to the Orders tab of your Workspace page.

To Modify Order Header Information

This task describes how to modify header information for the entire order. See "To Modify Header Information for a Line Item" on page 908 for information about modifying header information for a specific line item.

1. Search for and display the Order Detail page for the order you want to modify.
See "To Search for Orders" on page 900.
2. Click **Change Order**.

This displays the Change Order page.



Administration

My Home | My Account | About | Help | Logout



Change Order:: Redwood Securities

Return to List

Catalog Search

[Advanced Search](#)
[Browse Catalog](#)
[Help Me Find Products](#)



Zip Code for Store Pickup:

Actions	Name	Availability	Other Charges	Price	Quantity	Total
Email Print View Notes	Soundblaster Live! Value audio card MX-SC0204			\$85.33	10	\$853.30
	IEEE 1394 Controller Card MX-PW3343			\$63.22	10	\$632.20
	Matrox G450 MX-GC091			\$143.00	10	\$1,430.00
	nVIDIA GeForce 2 GTS 32MB DDR MX-GC301			\$164.00	10	\$1,640.00
	  nVIDIA Quadro2Pro 64MB vGA/VLI MX-GC332	<input checked="" type="radio"/> Pickup <input checked="" type="radio"/> Ship		\$230.00	10	\$2,300.00
	Subtotals:					\$6,855.50
	Misc. Adjustments:					\$0.00
	Adjusted Subtotal:					\$6,855.50
	Tax:					\$959.77
	Shipping Cost:					\$891.22
	Adj Shipping Cost:					\$891.22
	Total Price:					\$8,706.49

Catalog Search

[Advanced Search](#)
[Browse Catalog](#)
[Help Me Find Products](#)

Zip Code for Store Pickup:

Actions	Name	Availability	Other Charges	Price	Quantity	Total
Email Print View Notes	Soundblaster Live! Value audio card MX-SC0204			\$85.33	10	\$853.30
	IEEE 1394 Controller Card MX-PW3343			\$63.22	10	\$632.20
	Matrox G450 MX-GC091			\$143.00	10	\$1,430.00
	nVIDIA GeForce 2 GTS 32MB DDR MX-GC301			\$164.00	10	\$1,640.00
	  nVIDIA Quadro2Pro 64MB vGA/VLI MX-GC332	<input checked="" type="radio"/> Pickup <input checked="" type="radio"/> Ship		\$230.00	10	\$2,300.00
	Subtotals:					\$6,855.50
	Misc. Adjustments:					\$0.00
	Adjusted Subtotal:					\$6,855.50
	Tax:					\$959.77
	Shipping Cost:					\$891.22
	Adj Shipping Cost:					\$891.22
	Total Price:					\$8,706.49

Order #:

9912593762

Order Status:

Partially Shipped

Supplier Name:

Matrix Solutions Inc.

Customer Type:

General

Currency:

USD

Last Modified:

5/16/2007

Items:

5

User Name:

Edmon, Felix

Quick Add

Enter Product ID and QTY below. Once you are done entering products, click on Add to include the products in your Order.

Id

Qty

FIGURE 585. Change Order Page

3. Click **Checkout**.

Note: If no Checkout button is displayed, then a change has already been submitted for this order. You cannot make a change until the submitted change has been processed.

This displays the Change Order Header page.

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Change Order Header
 Ready to submit changes to your Order? Click on Place Order to submit your order. You will receive an e-mail message confirming your changes. If you aren't done yet, [go back and edit your order](#).
 [Place Order](#)

Order Details - Items Shipping from: Matrix Solutions Inc.

Sold-To
 Felix Sutton
 172 Barford Ave. First floor
 Salt Lake City, UT 84093 USA
 fsutton@icmsolutions.com
[Change](#)

Shipping Details

Ship To:
 Felix Sutton
 172 Barford Ave. First floor
 Salt Lake City, UT 84093 USA
[Change](#)

Ship Via:
 Standard Shipping
Ship when complete: No
[What is this?](#)
Deliver on:
[Change](#)

Shipping Instructions:

Item Details

Name	Ship To	Ship Via	Status	Other Charges	Quantity Avail.	Amount
Soundblaster Live! Value audio card HX-SC0204			Partially Shipped		10	\$853.30
IEEE 1394 Controller Card HX-FW3343			Shipped		10	\$632.20
Matrox G450 HX-QC691			Partially Shipped		10	\$1,430.00
nVIDIA GeForce 2 GTS 32MB GDR HX-QC301			Partially Shipped		10	\$1,640.00
nVIDIA Quadro2Pro 64MB VGA/DVI HX-QC332			In Process		10	\$2,300.00
Subtotals:						\$6,855.50

Payment
Order Summary
 Misc. Adjustments: \$0.00
 Adjusted Subtotal: \$6,855.50
 Tax: \$959.77
 Shipping Cost: \$891.22
 Adj Shipping Cost: \$891.22
 Total Price: \$8,706.49
Billing Address
 Credit Card Number: XXXXXXXX9885
 Felix Sutton
 172 Barford Ave. First floor
 Salt Lake City, UT 84093 USA
[Change](#)
Payment Method
 P.O.#: 093579823475
 Taxable: Yes
 Payment Type: Credit card
 Credit Card: Visa
 Type: XXXXXXXX9885
 CC Number: XXXXXXXX9885
 Exp. Date: November / 2007
 Name On Card:
 Phone #: 610-6851
 Payment Email: fsutton@icmsolutions.com
 Change Amount: \$8,706.49
[Change](#)

FIGURE 586. Change Order Header Page

4. Click **Change** to display the Order Header Info page.

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Administration

[My Home](#) | [My Account](#) | [About](#) | [Help](#) | [Logout](#)

Order Header Info: Supplier: Matrix Solutions Inc.
[Return to List](#)

All fields with asterisk(*) are required.
 [Save](#) [Cancel](#)

Sold-To

Enter/Select Your Sold-To address:
 If you set a default address in your profile, then that address has been populated for you automatically. If you want to use this address, just press 'Save'. You may enter a new address by typing one below, or by selecting an address from your address book. To select an address from the list, click the 'arrow' button to the right of the address. To see more addresses from your address book, click the 'More' link.

172 Barford Ave.
 First floor
 Salt Lake City, UT 84093
 USA

Title:
 Last name:
 First name:
 Organization:
 Address Line 1: *
 Address Line 2:
 City: *
 State and Zip:
 Country: *
 Email:

☐ Save To User Profile

FIGURE 587. Order Header Info Page

5. You can change the following information:

- General Order Information

This includes payment information, phone numbers, and email addresses.

- Ship To, Bill To, and Sold To Addresses

The ship to address you enter here is used as the default for the order. Each line item can have its own ship to address. You can choose to have this line item address override the order level ship to address.

- Modify the shipping details as necessary. To change the delivery date, you can click the calendar icon to the right of the field to display a calendar.

6. Click **Save** to save your changes and re-display the Order Header Change page (Figure 586 on page 907).

7. Click **Review Changes**.

This displays a read-only screen that enables you to review the changes you have made.

Attention: Do not click Place Order until you have made all the order modifications you want to make. Once you submit the changes, you cannot make any changes to the order until the changes have been processed.
--

8. Click **Place Order** to submit the changes.

To Modify Header Information for a Line Item


This task describes how you can modify order information specific to a line item. To modify price and quantity, see "To Modify Price and Quantity Information" on page 903.

1. Search for and display the Order Detail page for the order you want to modify.

See "To Search for Orders" on page 900.

2. Click **Change Order**.

This displays the Change Order page.



Administration

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Change Order:: Redwood Securities

[Return to List](#)

Catalog Search

[Advanced Search](#)
[Browse Catalog](#)
[Help Me Find Products](#)

Actions

[Email](#)
[Print View](#)
[Notes](#)

Details

Order #:

9912593762

Order Status:

Partially Shipped

Supplier Name:

Matrox Solutions Inc.

Customer Type:

General

Currency:

USD

Last Modified:

5/16/2007

Items:

5

User Name:

[Button_Felix](#)

Quick Add

Enter Product ID and QTY below.
Once you are done entering
products, click on Add to include
the products in your Order.

Id

Qty

Checkout >

Zip Code for Store Pickup:



Name	Availability	Other Charges	Price	Quantity	Total
Soundblaster Live! Value audio card MX-SC0204			\$85.33	10	\$853.30
IEEE 1394 Controller Card MX-FW3343			\$63.22	10	\$632.20
Matrox G450 MX-GC091			\$143.00	10	\$1,430.00
nVIDIA GeForce 2 GTS 32MB DDR MX-GC301			\$164.00	10	\$1,640.00
  nVIDIA Quadro2Pro 64MB VGA/DVI MX-GC332			\$230.00	10	\$2,300.00
Subtotals:					\$6,855.50
Misc. Adjustments:					\$0.00
Adjusted Subtotal:					\$6,855.50
Tax:					\$959.77
Shipping Cost:					\$891.22
Adj Shipping Cost:					\$891.22
Total Price:					\$8,797.49

FIGURE 588. Change Order Page

3. Click Checkout.

Note: If no Checkout button is displayed, then a change has already been submitted for this order. You cannot make a change until the submitted change has been processed.

This displays the Change Order Header page.

Sterling Multi-Channel Selling Solution Administration Guide

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Shipping Details: Return to List

Enter Shipping Information. When you are finished filling out the information below click 'Save'. < Back Save

Name	Quantity	Shipped Qty.	Status
NVIDIA Quadro2Pro 64MB VGA DVI MX-GC332	10	10	In Process

Click the checkbox below to use the following shipping information for this product.
☐ Use this shipping information

Enter/Select Your Shipping address:
 To use a line level shipping address check the 'Use this shipping information' box. You may enter a shipping address by typing one below, or by selecting an address from your address book. To select an address from the list, click the 'arrow' button to the right of the address. To see more addresses from your address book, click the 'More' link.

172 Barford Ave.
First Floor
Salt Lake City, UT 84093
USA

172 Barford Ave.
First Floor
Salt Lake City, UT 84093
USA

Title: Mr.
Last name:
First name:
Organization:
Address Line 1: *
Address Line 2:
City: *
State and Zip:
Country: * USA

Select Your Shipping Method:
Shipping Method: Standard Shipping
Ship When Complete? ☐
Shipping Instructions:
Deliver On: (M/D/Y)

FIGURE 590. Shipping Detail Page: Line Item

6. Change information as necessary. Check the box marked **Use this shipping information** if you want to use the line-item specific ship to address for this line item. If you do not check this box, then the order level ship to address will be used as the default.
 - Ship To Address

The ship to address you enter here is used as the ship to address for this particular line item.
 - Modify the shipping details as necessary.


You use the Shipping Details frame in the lower right portion of the page (see Figure 590 on page 911). To change the delivery date, you can click the calendar icon to the right of the field to display a calendar.

You can also enter shipping details that apply to this specific line item.
7. Click **Save** to save your changes and re-display the Change Order Header page (Figure 589 on page 910).
8. Repeat steps 4 through 7 to modify additional line items.
9. Click **Place Order** to submit the changes.

To View Order History

Perform these steps to view the history for an individual line item on an order.

1. Search for and display the Order Detail page for the order you want to modify.
See "To Search for Orders" on page 900.
2. Click the Order Number to display the detail page.

 Administration

[My Home](#) | [My Account](#) | [About](#) | [Help](#) | [Logout](#)

Order Details: Order # 8096603576 [Return to List](#)

Order #:

8096603576

Customer Type:

General

Currency:

USD

Last Modified:

9/22/2005

Items:

1

User Name:

[Scott, Mike](#)

Organization:

[DataSolve](#)

Back

Review the order details. To return already delivered products click Request Return. To view Invoices for this Order, click the Invoices button below.

Supplier: Enterprise

Shipping Information

Ship To:
Mike Scott
172 Barford Ave. First floor
Salt Lake City, UT 84093 USA
Ship Via: UPS
Ship when complete: No
Deliver on:
Memo:

Billing Information

Bill To:
Mike Scott
172 Barford Ave. First floor
Salt Lake City, UT 84093 USA
PO Number: None
Email Address:
msscott@comsolutions.com
Account Number: 12342345
Expiry Date: 11/30/2008


Sold-To Information

Sold To:
Mike Scott
172 Barford Ave. First floor
Salt Lake City, UT 84093 USA

FIGURE 591. Order Detail Page

3. Find the line item whose history you want to view.
4. Click the **History** link next to the line item.

This displays the Line History list page. This page lists the actions that have been performed on the line item. Click **Done** to return to the Order Detail page.



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Line History for Order number: 8311308327

[Return to List](#)

Done

	Last Updated	Updated By	Other Charges	Ordered Qty	Price	Shipped Qty	Status
Details	6/7/2005	cmanson		34	\$2,563.00		Order Submitted
Details	6/7/2005	ERPAdmin		34	\$2,563.00		In Process
Details	6/7/2005	ERPAdmin		34	\$2,563.00	3	Partially Shipped

FIGURE 592. Line History List Page

- Find the action for which you want to view the details.
- Click **Details** for the action.


 sterling commerce <small>An AT&T Company</small>		Administration					My Home My Account About Help Logout					
Shipping Details: PO#: qw75987qwe98												
Done												
Product Information												
				Name		QTY						
				Matrix 7550 Notebook		34						
				MXLP-7550-S								
<input type="checkbox"/> Using Shipping Information												
Ship To Address				Shipping Details								
First name:				Shipped Via:*								
Last name:				Ship only when complete <input type="checkbox"/>								
Organization:				Shipping Instructions:								
Address Line 1:*												
Address Line 2:												
City:*				Deliver On: (M/D/Y)								
State and Zip:												
Country:*												

FIGURE 593. Line History Detail Page

- Click **Done** to return to the Line History list page.

Ordering On Behalf Of Customers

Occasionally, a customer is unwilling or temporarily unable to place orders themselves. They might not have access to online ordering or their online system

may not be working. Enterprise users assigned to the Commerce function can use the tasks in this chapter to place an order on behalf of a customer.


Note: You can only place orders on behalf of users who already exist in the Sterling Multi-Channel Selling Solution and who belong to partners that have been assigned to you.

In particular, you can only create orders for new customers if you have been assigned the Anonymous User partner.

To Create Orders On Behalf of Customers

1. Click **Customer Account Activity** under the Commerce Activity panel on the Sterling Multi-Channel Selling Solution home page.

This displays the Workspace for creating and modifying orders on behalf of the customers.

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Account Activity

Active | Templates | Wish Lists | Registries | Quotes | Sales Contracts | Orders | Service Contracts | Returns | Invoices

Find carts that contain:
Product ID: Search Show All Advanced Search

Select a Cart to Copy or Delete. Click New to create a new Cart.
Copy Delete New

PreviousNext

<input type="checkbox"/>	Cart ID	Name	Last Modified	Date Created	Memo	User Name	Organization
<input type="checkbox"/>	1270	SimpleCart	2/21/2007	2/21/2007		Wells, Brant	AffinityNet
<input type="checkbox"/>	300030	Product List	6/7/2006	6/7/2006		unknown, unknown	AnonymousUserPartner
<input type="checkbox"/>	300029	Product List	6/7/2006	6/7/2006		unknown, unknown	AnonymousUserPartner
<input type="checkbox"/>	7501	Principal Health Care	4/11/2006	4/11/2006		Mason, Chuck	Virtual Networks
<input type="checkbox"/>	7601	Nintendo Gaming Technologies	4/11/2006	4/11/2006		Mason, Chuck	Virtual Networks

FIGURE 594. CSR Workspace

2. Click **New**.

The Create New Cart panel displays.

Target User *:

AnonymousUser

X

New Cart Name *:

Cart

Create

FIGURE 595. Create New Cart

3. Enter the username of the registered user.
4. Enter the name that you want to give the cart.

It is good practice to include the name of the user in the cart name to help distinguish among carts.

5. Click **Create**.

The Cart Detail page displays.

The screenshot shows the 'My Shopping Cart: Cart' page in the Sterling Commerce Administration interface. The page is divided into a left sidebar and a main content area. The sidebar contains links for 'Catalog Search', 'Actions', 'Details', and 'Quick Add'. The main content area displays a table of items in the cart, including 'Z490 Desktop', '12 Monitor', and 'Alpha Laptops'. Each item has columns for Name, Availability, Other Charges, Price, Quantity, and Total. A summary section at the bottom right shows the Subtotals, Misc. Adjustments, Adjusted Subtotal, Tax, Shipping Cost, and Total Price of \$754.28. The page also includes a 'Return to List' link and a 'Checkout' button.

FIGURE 596. Cart Detail Page

6. Modify the general information, if necessary.
 - a. Click **Change**.
 - b. If desired, change the name, the customer type, or the currency code.

The customer types and currency codes in the drop-down lists represent the customer types and currency codes of the price lists assigned to the partner user for whom you are creating the order. When you create the order, you will find only products (and prices) from price lists assigned to the partner that have the displayed combination of customer type and currency code.

- c. Click **Update**.

7. Build the product list.

You can add products in the following ways:

- Search for the products.

Click **Advanced Search** to search for the products.

- Browse the product catalog.

Click **Browse Catalog** to browse the product hierarchy.

- Add products by answering questions.

Click **Help Me Find Products**. This displays a series of questions, the answers to which determine the products that are displayed.

- Add products by entering product IDs.

Enter the Product ID, then click **Go**.

8. Click **Checkout**.

The **Sold-To Address** page displays.

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Administration

My Home | My Account | About | Help | Logout

Select or Enter Sold-To Address

Sold-To Ship Pay Confirm Next >

Enter/Select Your Sold-To address:

If you set a default address in your profile, then that address has been populated for you automatically. If you want to use this address, just press "Next". You may enter a new address by typing one below, or by selecting an address from your address book. To select an address from the list, click the "arrow" button to the right of the address. To see more addresses from your address book, click the "More" link.

601 Emerald Bay Lane
First floor
Springfield, CT 26595
USA

Title: Mr.
Last name: James
First name: Chuck
Organization: Andere
Address Line 1: * 601 Emerald Bay Lane
Address Line 2: * First floor
City: * Springfield
State and Zip: CT 26595
Country: * USA
☐ Save To User Profile

FIGURE 597. Sold-To Address Page

- Select or enter the Sold-To address, then click **Next**.

The Shipping Information page displays.

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An HCS Company

Administration

My Home | My Account | About | Help | Logout

Shipping Information

Sold-To Ship Pay Confirm **Next >**

Enter/Select Your Shipping address:
If you set a default address in your profile, then that address has been populated for you automatically. If you want to use this address, just press "Next". You may enter a new address by typing one below, or by selecting an address from your address book. To select an address from the list, click the "arrow" button to the right of the address. To see more addresses from your address book, click the "More" link.

601 Emerald Bay Lane
First floor
Springfield, CT 26595
USA

601 Emerald Bay Lane
First floor
Springfield, CT 26595
USA

Other Addresses

601 Emerald Bay Lane
First floor
Springfield, CT 26595
USA

Title: Mr.
Last name: James
First name: Chuck
Organization: Andere
Address Line 1: 601 Emerald Bay Lane
Address Line 2: First floor
City: Springfield
State and Zip: CT 26595
Country: USA
☐ Use As Bill To Address
☐ Save To User Profile

Select Your Shipping Method:
Shipping Method: UPS
Ship When Complete? ☐
Shipping Instructions:
Deliver On (M/D/Y):

FIGURE 598. Shipping Information Page

- b. Select or enter the shipping information, then click **Next**.

The Billing Address page displays.

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Administration

My Home | My Account | About | Help | Logout

Select or Enter a Billing Address

Sold-To

Ship

Pay

Confirm

Next >

Enter/select Your Billing address:

If you set a default address in your profile, then that address has been populated for you automatically. If you want to use this address, just press "Next". You may enter a new address by typing one below, or by selecting an address from your address book. To select an address from the list, click the "arrow" button to the right of the address. To see more addresses from your address book, click the "More" link.

601 Emerald Bay Lane
First floor
Springfield, CT 26595
USA

601 Emerald Bay Lane
First floor
Springfield, CT 26595
USA

Title:

Mr.

Last name:

James

First name:

Chuck

Organization:

Anderel

Address Line 1: *

601 Emerald Bay Lane

Address Line 2:

First floor

City: *

Springfield

State and Zip:

CT

26595

Country: *

USA

☐ Save To User Profile

Enter Your Payment Information:

Payment Type:

Credit card

Card Type:

Visa

Credit Card#:

Exp. Date:

September

2007

First Name: *

Middle Name/Initial:

Last Name: *

Billing Phone:

610-6856

Email Address:

cjames@rit.com

P.O.#:

FIGURE 599. Billing Address Page

c. Select or enter the billing information.

The Confirm Order page displays.

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An HBT Company

Administration

[My Home](#) | [My Account](#) | [About](#) | [Help](#) | [Logout](#)

Review the order details below and click 'Place Order' to complete your purchase
If you aren't done yet, [Go Back and Edit your cart](#).

Place Order

Sold To

Ship

Pay

Confirm

Order Details - Items Shipping from: Matrix Solutions Inc.

Sold To

Chuck James
Andereel
601 Emerald Bay Lane First floor
Springfield, CT 06595 USA
[Change](#)

Shipping Details

Shipping To:

Chuck James
Andereel
601 Emerald Bay Lane First floor
Springfield, CT 06595 USA
[Change](#)

Shipping Method:

UPS
[What is this?](#)

Shipping Instructions:

Ship When Complete: No
Deliver on:

Payment

Order Summary

Misc. Adjustments:

(\$25.47)

Adjusted Subtotal:

\$679.53

Tax:

\$40.77

Shipping Costs:

\$33.98

Total Price:

\$754.28

Redeem Coupons/ Gift Certificates

Enter promo codes/ gift certificate # here:

Add

Billing Address

Chuck James
Andereel
601 Emerald Bay Lane First floor
Springfield, CT 06595 USA
[Change](#)

Payment Method

Payment Type:

Account

Account Number:

0000000121212121

P.O.#:

Payment Email:

cjames@rit.com

Taxable:

Yes

[Change](#)

Item Details

Name	Ship To	Ship Via	Other Charges	Quantity	Avail.	Amount
7490 Desktop				1	In-stock	\$699.00
3 Year Onsite						
HWDS-7490						
LT-Storage						
HW-05177						
Modem 2000						
HW-MW02						
HW-Lessons AC340						
HW-05177						
HW-05177						
Subtotals:						\$699.00

FIGURE 600. Confirm Order Page

9. Click Place Order.

The order is submitted. A confirmation number is displayed.

Once the order has been accepted and is “in process”, the partner user for whom the order was placed can view and modify the order by logging in as an end-user.

The customer service representative can view and modify the order using the procedures in "Viewing and Modifying Order Information" on page 900.

To Download Order Information

1. Click **Advanced Search** in the Orders panel on the Sterling Multi-Channel Selling Solution home page.
2. Enter search criteria to help you locate an order or set of orders. You can specify criteria to limit the scope of the search as described in "To Search for Orders" on page 900. Click **Submit**.

The Orders tab of the Workspace page is displayed with the orders that meet your search criteria displayed.

3. Select those orders whose details you wish to download by checking the check boxes next to each order.

4. Click **Download Selected Orders**.

A new browser window is displayed showing the selected order data in text format.

http://madoka.icc:1030/Comergent/en/US/enterpriseMgr/matrix?cmd=DownloadOrderRequest - Microsoft Internet E...

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites Media Print

Order Number: 8761592881
PO Number:
Supplier: Enterprise

Product ID	Description	List Price	Qty	Extended Price
MXLP-7410	The Matrix 7410 Notebook is the rig	\$1,506.50	1	\$1,506.50
Misc. Adjustments:				\$0.00
Sub Total:				\$1,506.50
Shipping Charges:				\$75.32
Taxes:				\$90.39
Total:				\$1,672.22

Order Number: 8917592737
PO Number:
Supplier: Enterprise

Product ID	Description	List Price	Qty	Extended Price
MX-GV17T	17" Monitor	\$374.00	1	\$374.00
MXDS-7480	The Matrix 7480 Desktop is a comple	\$733.95	1	\$733.95
MX-GV17T	17" Monitor	included	1	
MX-MSW2K	Win2K	included	1	
MXA-MSS	Matrix Satellite Sound Speaker	included	2	
W7D-7500	Matrix 7500 Notebook Tough Lite has	\$2,563.00	1	\$2,563.00

FIGURE 601. Download Selected Lists Page

You can save this file to your machine. When you open this saved file in a spreadsheet application, you must specify that it has been created in a tab-delimited format.

If the file has been generated by a UNIX installation of the Sterling Multi-Channel Selling Solution, then the file has UNIX end-of-line characters. This means that some Windows text-editing applications (such as Notepad) may display the file as one continuous line. You can still open the file as a spreadsheet.

To Email Order Information

1. Click **Advanced Search** in the Orders panel on the Sterling Multi-Channel Selling Solution home page.

FIGURE 602. Order Search Page

2. Enter search criteria to help you locate an order or set of orders. You can specify criteria to limit the scope of the search as described in "To Search for Orders" on page 900. Click **Submit**.

The Orders tab of the Workspace page is displayed with the orders that meet your search criteria.

3. Select those orders whose details you wish to download by checking the check boxes next to each order.
4. Click **Email Selected Orders**.

The Email Lists window displays.

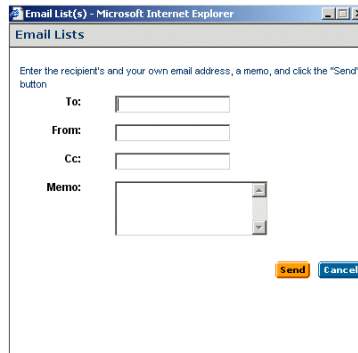


FIGURE 603. Email Lists Window

5. Enter the receiving email address in the **To:** field and the sending email address in the **From:** field. Optionally enter a **CC:** email address in the **CC:** field and any additional comments in the **Memo:** field.
6. Click **Send**.
7. Click **Close** to close the window.

Managing Wish Lists

This section describes the tasks that a customer service representative can perform to manage wish lists.

To Create a Wish List On Behalf of a Customer

1. Search for the user for whom you want to create a wish list by using the Search for User by Name panel on the Sterling Multi-Channel Selling Solution home page.
2. On the User List page, click the **Account Activity** link next to the user for whom you want to create a wish list.

The workspace page displays.

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Administration

My Home | My Account | About | Help | Logout

Account Activity

Active | Templates | **Wish Lists** | Registries | Quotes | Sales Contracts | Orders | Service Contracts | Returns | Invoices

Find carts that contain:

Product ID: Search Show All Advanced Search

You are viewing lists for Username kelleys, User First Name Pat, User Last Name Kelley

Select a Cart to Copy or Delete. Click New to create a new Cart.

Copy Delete New

<input type="checkbox"/>	Cart ID	Name	Last Modified	Date Created	Memo	User Name	Organization
<input type="checkbox"/>	600690	Cart	11/12/2007	11/12/2007		Kelleys, Pat	Anderson

Download Selected Carts Email Selected Carts

Shopping cart

Carts generated from Proposal

FIGURE 604. Workspace Page

- Click the Wish Lists tab.

The list of wish lists belonging to the user displays.

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My Home | My Account | About | Help | Logout

Account Activity

Active | Templates | **Wish Lists** | Registries | Quotes | Sales Contracts | Orders | Service Contracts | Returns | Invoices

Find wish lists that contain:

Product ID: Search Show All Advanced Search

You are viewing lists for Username mscott, User First Name Mike, User Last Name Scott

Select Wish Lists to Copy or Delete. Click New to create a new Wish List.

Copy Delete New Private Public

<input type="checkbox"/>	Wish List ID	Wish List Name	Last Modified	Date Created	Event Type	Event Date	Status	User Name	Organization
<input type="checkbox"/>	600641	Mike's Wish List	11/7/2007	11/7/2007			Public	Scott, Mike	DataSolve
<input type="checkbox"/>	600640	NewList	11/7/2007	11/7/2007			Private	Scott, Mike	DataSolve ✓
<input type="checkbox"/>	600620	Wish List	11/7/2007	11/7/2007			Private	Scott, Mike	DataSolve ✓

Find someone else's wish list

Set As Default Wish List

Default Wish List

FIGURE 605. Account Activity Page: Wish Lists Tab

- Click New.

The Create New Wish List panel displays.

Target User * :

X

New Wish List Name * :

Create

FIGURE 606. Create New Wish List Panel

5. Enter a wish list name in the New Wish List Name field, and click **Create**.
The Wish List Detail page displays.

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Administration

My Home | My Account | About | Help | Logout

My Wish List: Mike's New Wish List

Return to List

Catalog Search

Add All Items to Cart

Update

Advanced Search

Sort On : Date Added

Go

Actions

Make Wish List Public

This wish list is private

Make Wish List Default

Email

Print View

Notes

View Purchases

Find someone else's wish list

Details

Name: Mike's New Wish List

Change

Show more information

My Wish List

Mike's New Wish List

Mike's New Wish List

Mike's New Wish List

Rec'd List

Wish List

More

Templates

Quick Add

Enter Product ID and QTY below.

Once you are done entering products, click on Add to include the products in your Cart.

Id

Qty

Add

Product Name	Availability	Price	Quantity Desired	Quantity Received	Still Needs
No Rows Found					

FIGURE 607. Wish List Detail Page

To Add Items to a Wish List on Behalf of a Customer

1. Search for the user to whose wish list you want to add items by using the Search for User by Name panel on the Sterling Multi-Channel Selling Solution home page.
2. On the User List page, click the **Account Activity** link next to the user.
The workspace page displays.

3. Click the **Wish Lists** tab.

The list of wish lists belonging to the user displays.

4. Click the Wish List Name of the wish list you want to add items to.

The Wish List Detail page displays.

5. Search for the item you want to add to the wish list using the **Catalog Search** panel.

The Catalog Search Results page displays.

6. Click the Product Name.

The Product Detail page displays.

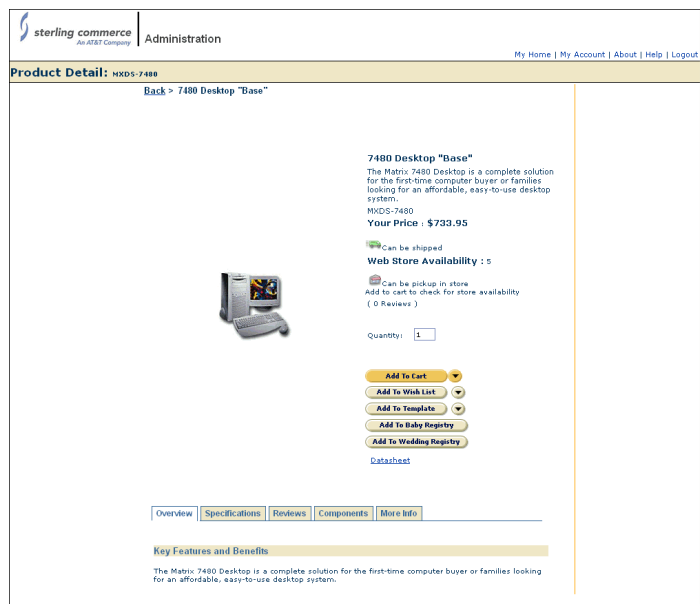


FIGURE 608. Product Detail Page

7. You can add the item to a wish list in one of the following ways:
 - a. Click the **Add to Wish List** button to add the item to the default wish list.

- b. Click the down arrow next to the **Add to Wish List** button to select a wish list to add the item to.

A pop-up displays.


A screenshot of a web-based pop-up dialog box titled "Select a Wish List" with a close button (X) in the top right corner. The dialog has a yellow background and a blue header. Inside, it says "Add to an existing Wish List or create a new one and add to that Wish List". There are three radio button options: "Pat's Anniversary Wish List", "Pat's All-New Wish List", and "Wish List". Below these is a blue "Add" link. Further down is a text input field labeled "New name" containing the text "NewList". At the bottom is a blue "Create & Add" link.

FIGURE 609. Select Wish List Pop-Up

Select the radio button next to the wish list you want to add the item to and click **Add**, or enter a wish list name and click **Create & Add** to create a new wish list and add the item to the new wish list.

To Search for and View the Details of a Wish List

1. Click **Customer Account Activity** on the Commerce Activity panel on the Sterling Multi-Channel Selling Solution home page.

Your Workspace page displays.

2. Click the **Wish Lists** tab.

The **Wish List** page displays.

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My Home | My Account | About | Help | Logout

Account Activity

Active | Template | **Wish List** | Registry | Quotes | Sales Contracts | Orders | Service Contracts | Returns

Find wish lists that contain:

Product ID: [Search](#) [Show All](#) [Advanced Search](#)

<input type="checkbox"/>	Wish List ID	Wish List Name	Last Modified	Date Created	Event Type	Event Date	Status	User Name	Organization
<input type="checkbox"/>	601260	Birthday Wish List	10/19/2007	10/19/2007	None		Public	Keller, Ed	Anderson
<input type="checkbox"/>	601201	Hal's Wish List	10/17/2007	10/17/2007			Private	Fortuna, Hal	Ballistina
<input type="checkbox"/>	601180	Wish List	10/17/2007	10/17/2007			Private	Fortuna, Hal	Ballistina
<input type="checkbox"/>	601140	Wish List	10/17/2007	10/17/2007			Private	Dodds, Rose	Ballistina
<input type="checkbox"/>	601100	Wish List	10/15/2007	10/15/2007			Private	Rasmussen, Jane	FirstCommerce
<input type="checkbox"/>	600680	Wish List	10/10/2007	10/10/2007			Private	Keller, Ed	Anderson

[Find someone else's wish list](#)

Default Wish List

FIGURE 610. Wish List Page

- You can perform a quick search on Product ID, Wish List ID, Wish List Name, or Status, or search for the wish list(s) by clicking **Advanced Search**.

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Administration

My Home | My Account | About | Help | Logout

Wish List Search [Return to List](#)

Search for Wish List with the given criteria. Partial entries with the wildcard character (*) are supported for Organization, Username, User First Name, User Last Name and Product ID.

[Submit](#) [Reset](#)

Find Wish List by Organization or User

Organization: Username: User First Name: User Last Name:

Find Wish List with the following attributes

Wish List ID: Product ID: Wish List Name:

Search Wish List By Status

Wish List Status:

Find Wish List by Date Range

Creation Date: Starting Date: M/D/YYYY Last Modified: Starting Date: M/D/YYYY
Ending Date: M/D/YYYY Ending Date: M/D/YYYY

FIGURE 611. Wish List Search Page


4. Click Submit to display all the wish lists, or enter search criteria.

Enter search criteria to help you locate a list or set of lists. You can specify the criteria to limit the scope of the search. The search criteria are described in Table 60 on page 928.

TABLE 60. Search Fields

Field	Description
Organization	If you enter the name of an organization, then only wish lists that belong to users of that organization are listed.
Username	Enter the username of a user to find all wish lists created by the specific user.
User First Name	Enter the first name of a user to find all wish lists created by the specific user.
User Last Name	Enter the last name of a user to find all wish lists created by the specific user.
Wish List ID	Enter the ID number for the wish list if you are searching for a particular wish list.
Product ID	If you enter one or more product IDs, then only wish lists that contain one or more of those IDs are listed.
Wish List Name	Enter the wish list name if you are searching for a particular wish list.
Wish List Status	Select Private or Public.
Creation Date	Enter the Starting Date and Ending Date to find all wish lists created within a certain time frame. Enter Starting Date only to find all wish lists from the specified date forward. Enter an Ending Date only to find all wish lists up to the specified date.
Last Modified	Enter the Starting Date and Ending Date to find all wish lists updated within a certain time frame. Enter Starting Date only to find all wish lists from the specified date forward. Enter an Ending Date only to find all wish lists up to the specified date.

The Search Results page displays a list of all the wish lists that meet your search criteria.



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[My Home](#) | [My Account](#) | [About](#) | [Help](#) | [Logout](#)

Account Activity

[Active](#) | [Templates](#) | [Wish Lists](#) | [Registries](#) | [Quotes](#) | [Sales Contracts](#) | [Orders](#) | [Service Contracts](#) | [Returns](#) | [Invoices](#)

Find wish lists that contain:

Product ID

▼

MXDS-7500

Search

Show All

Advanced Search

<input type="checkbox"/>	Wish List ID	Wish List Name	Last Modified	Date Created	Event Type	Event Date	Status	User Name	Organization
<input type="checkbox"/>	600700	Pat's All-New Wish List	11/12/2007	11/12/2007			Public	Calvin East	Andersl
<input type="checkbox"/>	600641	Mike's Wish List	11/7/2007	11/7/2007			Public	Scott, Mike	DataSolve
<input type="checkbox"/>	600640	NewList	11/7/2007	11/7/2007			Private	Scott, Mike	DataSolve

[Find someone else's wish list](#)


 Default Wish List

FIGURE 612. Search Results

- Click an item or refine your search.

If you can identify the wish list that you are looking for, click its link to display the Wish List Detail page. The Wish List Detail page provides a complete description of a wish list, including the availability of each line item, its price, and the desired and received quantity.

The screenshot displays the 'My Wish List: Mike's Wish List' page in the Sterling Commerce Administration interface. The page is divided into several sections:

- Header:** Sterling Commerce logo, 'Administration' title, and user links (My Home, My Account, About, Help, Logout).
- Navigation:** 'Return to List' link.
- Left Sidebar:**
 - Catalog Search:** Includes 'Add All Items to Cart' and 'Update' buttons.
 - Advanced Search:** Links for 'Advanced Search', 'Browse Catalog', and 'Help Me Find Products'.
 - Actions:** Links for 'Make Wish List Private', 'This is my default Wish List', 'Email', 'Print View', 'Notes', 'View Purchases', and 'Find someone else's wish list'.
 - Details:** Section for 'Name: Mike's Wish List' with a 'Change' button and a 'Show more information' link.
 - My Wish List:** Section with 'More' and 'Templates' links.
 - Quick Add:** Section for adding products by ID and QTY.
- Main Content Area:**
 - Sort On:** Dropdown menu set to 'Date Added'.
 - Table:** A table with columns: Product Name, Availability, Price, Quantity Desired, Quantity Received, and Still Needs. It lists items like '7500 Desktop', '2008 External Disc Drive', '4GB SDRAM', 'Windows XP', and 'Intel Pentium III'.
 - Comments and Priority:** Fields for 'Comments' and 'Priority' (set to 'Low').
 - Configuration Subtotal:** \$2,135.00.

FIGURE 613. Wish List Detail Page

You can use the Wish List Detail page to perform one or more of the following tasks:

- To make a wish list public or private.
 - To make a wish list public, click the **Make Wish List Public** link under the **Actions** panel.
 - To make a wish list private, click the **Make Wish List Private** link under the **Actions** panel.
- To email wish list information, click the **Email** link under the **Actions** panel. See "To Email Wish List Information" on page 932.
- To download wish list information, click the **Print View** link under the **Actions** panel. See "To Download Wish List Information" on page 932.
- To add notes for a wish list, click the **Notes** link under the **Actions** panel. See "To Add Notes for a Wish List" on page 932.
- To view the purchase history of a wish list. See "To View the Purchase History of a Wish List" on page 933.

- To search for a wish list belonging to another user. See "To View the Purchase History of a Wish List" on page 933.
- To modify the header information for a wish list, click the **Change** button under the **Details** panel. See "To Modify a Wish List Header Information" on page 935.
- To view more wish lists, click the **More** link under the **My Wish List** panel.
- To navigate to the Templates tab of your workspace, click the **Template** link under the **My Wish List** panel.
- To add another item to your cart, enter the item's Product ID and quantity under the **Quick Add** panel, then click **Add**.
- To copy all the items in the wish list to a cart, click the **Add All Items to Cart** button. A pop-up window displays. Use the pop-up window to select the cart to which to copy the items.
- To update the wish list after making modifications, click the **Update** button.
- To change the order of the sequence in which the items appear in the wish list, select the appropriate sorting criteria from the **Sort On** drop-down list. You can sort the items by Still Needs, Price (low to high), Price (high to low), Department, Date Added, or Priority.
- To delete a line item from the wish list, click the **Delete (X)** button next to the item.
- To add a line item to a cart. See "To Add an Item to a Cart" on page 935.
- To move a line item to a wish list. See "To Move an Item to a Wish List" on page 936.
- To copy a line item to a wish list. See "To Copy an Item to a Wish List" on page 937.
- To view alternative items for a selected line item. See "To View Alternative Items for a Line Item" on page 938.
- To view complementary items for a wish list. See "To View Complementary Items for a Line Item" on page 939.
- To purchase items for another user from the user's wish list. See "To Purchase Items for Another User from the User's Wish List" on page 939.

To Email Wish List Information

1. On the Wish List Detail page, click the **Email** link under the **Actions** panel.
The Send Email pop-up displays.

A screenshot of a 'Send Email' pop-up window. The window has a title bar 'Send Email' and a light green header. Below the header, there is a text instruction: 'Enter the recipient's and your own email address, a memo, and click the "Send" button'. The form contains four fields: 'To:' (a single-line text box), 'From:' (a single-line text box), 'Cc:' (a single-line text box), and 'Memo:' (a multi-line text box with up and down arrow buttons on the right). At the bottom right of the form are two buttons: 'Send' (orange) and 'Cancel' (blue).

FIGURE 614. Send Email Pop-Up

2. Enter the recipient's email address in the To: field and the sender's email address in the From: field. Optionally, enter a CC: email address in the CC: field and any additional comments in the Memo: field.
3. Click **Send** to send the email or **Cancel** to cancel it.

To Download Wish List Information

1. On the Wish List Detail page, click the **Print View** link under the **Actions** panel.

A new browser window displays showing details of the wish list in HTML format.

You can save this file to your machine. If the file has been generated by a UNIX installation of the Sterling Multi-Channel Selling Solution, then the file has UNIX end-of-line characters. This means that some Windows text-editing applications such as Notepad may display the file as one continuous line.

To Add Notes for a Wish List

1. On the Wish List Detail page, click the **Notes** link under the **Actions** panel.
The Notes page displays.

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[My Home](#) | [My Account](#) | [About](#) | [Help](#) | [Logout](#)

Note: birthday wishlist

Enter a new note in the textbox and click the 'Add Note' button to save the note.

[Back](#)

Note

[Add Note](#)

Date	Note	Organization	Created By
No Rows Found			

FIGURE 615. Notes Page

2. Enter a note, then click **Add Note**.

To View the Purchase History of a Wish List

1. On the Wish List Detail page, click the **View Purchases** link under the **Actions** panel.

The Purchase History page displays.

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[My Home](#) | [My Account](#) | [About](#) | [Help](#) | [Logout](#)

Purchase History [Return](#)

Item	Quantity Purchased	Purchase Date	Purchased By	Ship Date
MX-GU17T 17" Monitor				
MXA-MSS Matrix Satellite Speaker				
MUDS-7480 7480 Desktop "Base"	5	9/7/2007	Kelley, Pat	
MX-MSW2K Windows 2000				


FIGURE 616. Purchase History Page

The Purchase History page displays details of the items that a user has purchased by copying them from the wish list, such as the quantity of the item, the date on which the item was purchased, the user who purchased the item, and the date the item was shipped.

To Search for a Wish List Belonging to Another User

1. On the Wish List Detail page, click the **Find someone else's wish list** link under the **Actions** panel.

The Public Wish List(s) search page displays.

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[My Home](#) | [My Account](#) | [Account Activity](#) | [About](#) | [Help](#) | [Logout](#)

Public Wish List(s)[Return to List](#)

Enter at least Owner's Last Name or Owner's Email for search

Find Someone's Wish List:

Owner's First Name

Owner's Last Name

Or

Owner's E-Mail

Search


Name	Wish List ID	Last Modified ▾	Date Created	Recipient Name	Memo
No Rows Found					

FIGURE 617. Public Wish List(s) Search Page

2. Enter search criteria, such as the last name or email of the user who owns the wish list you are searching for, then click **Search**.

The Public Wish List(s) Search Results page displays the list of wish lists belonging to the user.

Note: The Public Wish List(s) Search Results page displays only those wish lists with **Public** status.

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[My Home](#) | [My Account](#) | [Account Activity](#) | [About](#) | [Help](#) | [Logout](#)

Public Wish List(s)[Return to List](#)

Enter at least Owner's Last Name or Owner's Email for search

Find Someone's Wish List:

Owner's First Name
mike

Owner's Last Name
scott

Or

Owner's E-Mail

Search

Name	Wish List ID	Last Modified ▾	Date Created	Recipient Name	Memo
Mike's New Wish List	600820	11/12/2007	11/12/2007	Scott,Mike	
Mike's New Wish List	600800	11/12/2007	11/12/2007	Scott,Mike	
Mike's Wish List	600641	11/7/2007	11/7/2007	Scott,Mike	
NewList	600640	11/7/2007	11/7/2007	Scott,Mike	
Wish List	600620	11/7/2007	11/7/2007	Scott,Mike	

FIGURE 618. Public Wish List(s) Search Results Page

To Modify a Wish List Header Information

1. On the Wish List Detail page, click the **Change** button under the **Details** panel. The Edit Wish List page displays.

The screenshot shows the 'Edit Wish List' page in the Sterling Commerce Administration interface. The page has a header with the Sterling Commerce logo and 'Administration' text. Below the header, there's a navigation bar with links like 'My Home', 'My Account', 'About', 'Help', and 'Logout'. The main content area is titled 'Edit Wish List' and contains several form fields and sections. At the top right of the form area are 'Reset' and 'Save' buttons. The form fields include: 'Wish List Name' (text input), 'Assignee Name' (text input), 'Event Date' (date picker), 'Comments' (text area), 'Currency' (dropdown menu), 'Event Type' (dropdown menu), 'Date Created' (text input), 'Date Last Modified' (text input), and 'Number of Items in the List' (text input). Below these fields is a section titled 'Enter/Select Your Shipping address:' which contains a list of suggested addresses and a form to enter or select a shipping address. The suggested addresses are: '172 Barford Ave., First Floor, Salt Lake City, UT 84093, USA' and '172 Barford Ave., First Floor, Salt Lake City, UT 84093, USA'. The shipping address form includes fields for 'Disable Address:', 'Title:', 'Last name:', 'First name:', 'Address Line 1:', 'Address Line 2:', 'City:', 'State and Zip:', and 'Country:'. There are also 'Reset' and 'Save' buttons at the bottom right of the form area.

FIGURE 619. Edit Wish List Page

2. Modify the appropriate details. You can change the following information:
 - Wish List Name, Event Date, Comments, Currency, Event Type, and Shipping Address. For more information about custom event types, see the *Sterling Multi-Channel Selling Solution Developer Guide*.
3. Click **Save** to save your changes or click **Reset** to reset the details.

To Add an Item to a Cart

1. On the Wish List Detail page, click the **Add to Cart** icon next to the item.
 - a. If the user has only one active cart, the item gets added to this cart.
 - b. If the user has more than one active cart, a pop-up window displays.

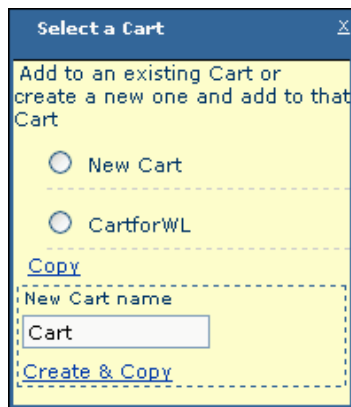


FIGURE 620. Select Cart Pop-Up

- Select the radio button next to the cart and click **Copy** to add the item to the cart, or enter a cart name and click **Create & Copy** to create a new cart and add the item to the new cart.

To Move an Item to a Wish List

1. Click the **Move to Wish List** icon next to the item you want to move.
A pop-up window displays.

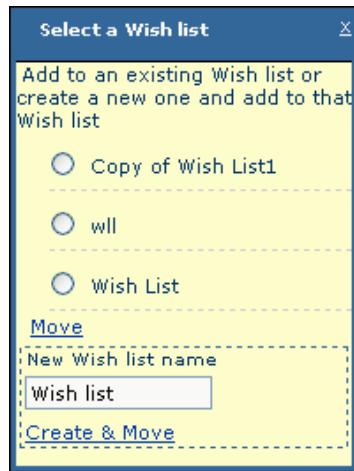


FIGURE 621. Select Wish List Pop-Up

The pop-up displays all the wish lists that belong to the user.

- Select the radio button next to the wish list you want to move the item to and click **Move**, or enter a wish list name and click **Create & Move** to create a new wish list and move the item to the new wish list.

To Copy an Item to a Wish List

1. Click the **Copy to Wish List** icon next to the line item you want to copy to a wish list.

A pop-up window displays.

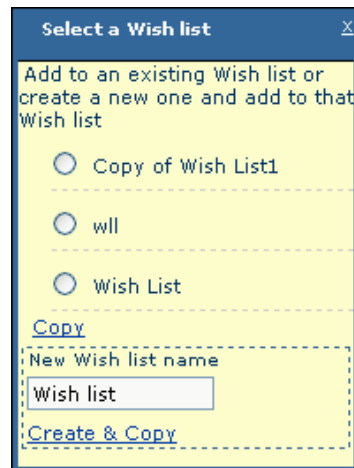


FIGURE 622. Select Wish List Pop-Up

- Select the radio button next to the wish list you want to copy the item to and click **Copy**, or enter a wish list name and click **Create & Copy** to create a new wish list and copy the item to the new wish list.

To View Alternative Items for a Line Item

You can view the alternative items for a line item.

Note:	You can view alternative items for a line item only if your storefront administrator has set the Enable Alternative items link in Wish Lists business rule to true, and if the line item has any alternative items associated with it. For more information about business rules, see CHAPTER 39, "Business Rules Administration".
--------------	---

1. On the Wish List Detail page, click the **View alternatives** link under the **Availability** column for the line item.
A pop-up window displays.

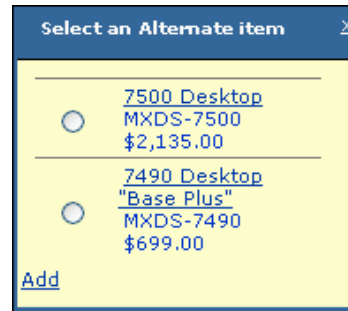


FIGURE 623. Select Alternate Item Pop-Up

The pop-up displays the list of alternative items for the line item.

2. Select the radio button next to the item you want to add to the wish list to replace the line item, then click **Add**.

To View Complementary Items for a Line Item

You can view the complementary items for a line item.


Note: You can view complementary items for a line item only if your storefront administrator has set the **Enable Complementary items link in Wish Lists** business rule to true, and if the line item has any complementary items associated with it. For more information about business rules, see CHAPTER 39, "Business Rules Administration".

1. On the Wish List Detail page, navigate to the line item for which you want to view the complementary items, and click the **View Complementary Items** link.

The list of available complementary items for the line item displays.

To Purchase Items for Another User from the User's Wish List

1. Search for the wish list from where you want to purchase the items. See "To Search for a Wish List Belonging to Another User" on page 934.
2. Click the wish list Name of the wish list from where you want to purchase the items. The Wish List Detail page displays.



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Wish List: Mike's Wish List


[Return to List](#)

Actions

[Print View](#)

Add All Items to Cart

Sort On : Date Added

Product Name	Availability	Price	Quantity Desired	Quantity Received	Still Needs
 <div> 7500 Desktop MXDS-7500 </div>	<div>Matrix Solutions Inc.</div> <div>S</div>	\$2,135.00	1	0	1
<div> 300R Seagate Disc Drive MX-ST030D </div>		included	1	0	
<div> 64MB SDRAM MX-PP445 </div>		included	1	0	
<div> Windows 98 MX-MSW98 </div>		included	1	0	
<div> Intel Pentium III 733MHz Processor MX-ICP350 </div>		included	1	0	
View Complementary Items					
Comments	Priority	Low			
Configuration Subtotal: \$2,135.00					

[Hide extra information](#)

FIGURE 624. Public Wish List Detail Page

- Click the **Add All Items to Cart** button to copy the items to a cart.
 - If the user has only one active cart, the item gets added to this cart.
 - If the user has more than one active cart, a pop-up displays where you can select the cart to copy the items to.
- Click the **Add to Cart** icon to add a line item to a cart. See "To Add an Item to a Cart" on page 935.
- Search for the cart to which you copied the items you want to purchase and navigate to the Cart Detail page. See "To Search for a Cart" on page 838.
- Click the **Checkout** button.

The **Order Detail** page displays.

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Review the order details below and click "Place Order" to complete your purchase
[Place Order](#)

Order Details - Items Shipping from: Matrix Solutions Inc.

Sold-To

unknown unknown

[Change](#)

Shipping Details

Shipping To:

unknown unknown

[Change](#)

Shipping Method:

UPS

Shipping Instructions:

Ship When Complete: No
What is this?
Deliver on:

Item Details

Name	Ship To	Ship Via	Other Charges	Quantity Avail.	Amount
7600 Desktop HighEnd MXDS-7600				1	\$1,320.00
On Site Service - Basic MX-SC5004			included	1	included
21" Monitor MX-GV21T			included	1	included
Altec Lansing AC3250 Speakers MX-SP998			included	1	included
Acceleration Video Recorder MX-RV100121			included	1	included
Subtotals:					\$1,320.00

Payment

Order Summary

Misc. Adjustments:

\$5.00

Adjusted Subtotal:

\$1,325.00

Tax:

\$0.00

Shipping Cost:

\$0.00

Total Price:

\$1,325.00

Redeem Coupons/ Gift Certificates

Enter promo codes/ gift certificate # here:

[Add](#)

Billing Address

unknown unknown

[Change](#)

Payment Method

Payment Type:

Credit card

Credit Card Type:

CC Number:

Exp. Date:

September / 2007

Name On Card:

Phone #:

Payment Email:

unknown@unknown.com

P.O. #:

Taxable:

Yes

[Change](#)

FIGURE 625. Order Detail Page

7. Click the **Place Order** button.

Managing Templates

This section describes the tasks that a customer service representative can perform to manage templates. A template cannot be shared with anyone. A user can purchase items only from his own template. To purchase items from a template, a user has to copy the items from the template to his cart before placing the order.

To Create a Template on Behalf of a Customer

- Search for the user for whom you want to create a template by using the Search for User by Name panel on the Sterling Multi-Channel Selling Solution home page.
- On the User List page, click the **Account Activity** link next to the user for whom you want to create a template.

The workspace page displays.

Sterling Multi-Channel Selling Solution Administration Guide

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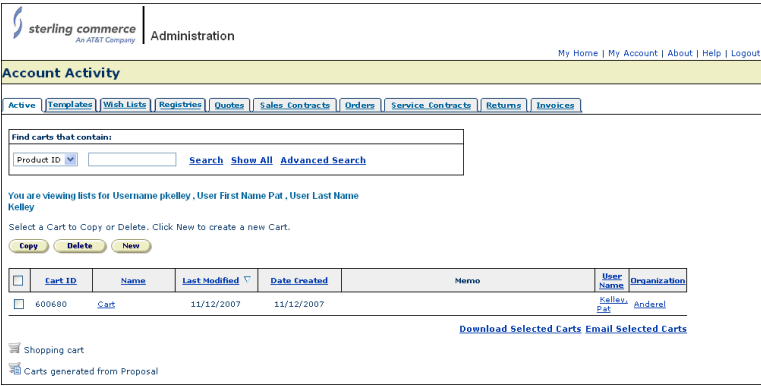


FIGURE 626. Workspace Page

3. Click the **Templates** tab.

The list of templates belonging to the user displays.

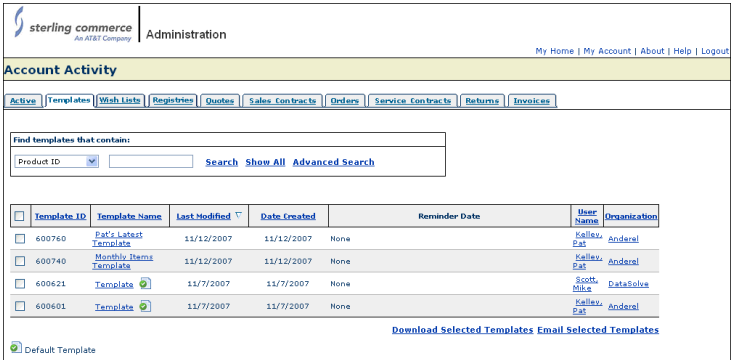


FIGURE 627. Account Activity Page: Templates Tab

4. Click **New**.

The Create New Template panel displays.

Target User *

New Template Name *

[Create](#)

FIGURE 628. Create New Template Panel

- Enter a template name in the New Template Name field, and click **Create**.
The Template Detail page displays.

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Administration

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My Template: Monthly Items Template
[Return to List](#)

Catalog Search

[Advanced Search](#)
[Browse Catalog](#)
[Help Me Find Products](#)

Actions

[Make Template default](#)
[Email](#)
[Print View](#)
[Notes](#)
Reminder Frequency:
None

Details

Date Created: 10/22/2007
Name: Monthly Items Template
Customer Type: General
Currency: USD
Last Modified: 10/22/2007
Items: 0
User Name: Kelley, Pat

My Template

[Monthly Items Template Template](#)
[More](#) [Wish Lists](#)

Quick Add

Sort On:

<input type="checkbox"/>	Product Name	Availability	Price	Quantity
No Rows Found				

FIGURE 629. Template Detail Page

To Add Items to a Template on Behalf of a Customer

- Search for the user to whose template you want to add items by using the Search for User by Name panel on the Sterling Multi-Channel Selling Solution home page.

2. On the User List page, click the **Account Activity** link next to the user.
The workspace page displays.
3. Click the **Templates** tab.
The list of templates belonging to the user displays.
4. Click the Template Name of the template you want to add items to.
The Template Detail page displays.
5. Search for the item you want to add to the template using the **Catalog Search** panel.
The Catalog Search Results page displays.
6. Click the Product Name.
The Product Detail page displays.

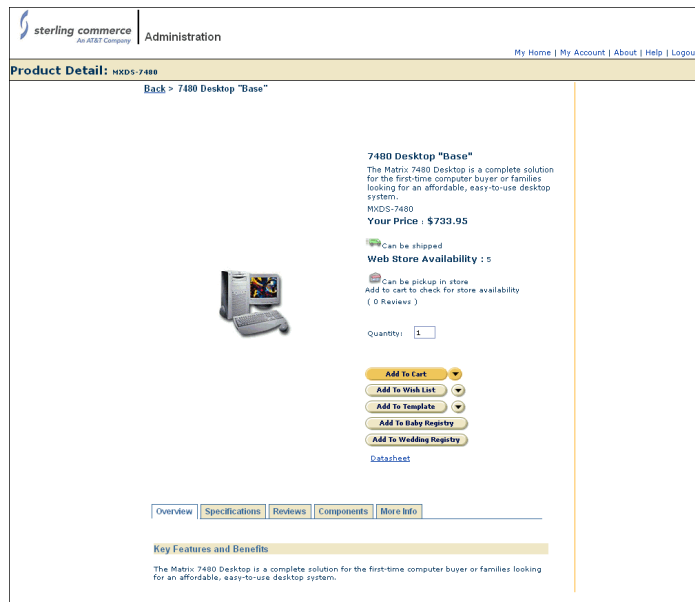


FIGURE 630. Product Detail Page

7. You can add the item to a template in one of the following ways:
 - a. Click the **Add to Template** button to add the item to the default template.

- b. Click the down arrow next to the **Add to Template** button to select a template to add the item to.

A pop-up displays.

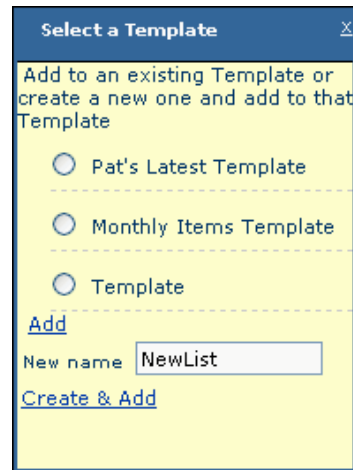
A screenshot of a 'Select a Template' pop-up dialog box. The dialog has a blue title bar with the text 'Select a Template' and a close button (X). The main area has a yellow background and contains the text 'Add to an existing Template or create a new one and add to that Template'. Below this text are three radio button options: 'Pat's Latest Template', 'Monthly Items Template', and 'Template'. Below the radio buttons is a blue 'Add' link. Under the 'Add' link is a text input field labeled 'New name' with the text 'NewList' entered. At the bottom of the dialog is a blue 'Create & Add' link.

FIGURE 631. Select Template Pop-Up

Select the radio button next to the template you want to add the item to and click **Add**, or enter a template name and click **Create & Add** to create a new template and add the item to the new template.

To Search for and View the Details of a Template

1. Click **Customer Account Activity** on the Commerce Activity panel on the Sterling Multi-Channel Selling Solution home page.

The Workspace page displays.

2. Click the **Templates** tab.

The **Template List** page displays.

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Templates

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Sales Contracts

Orders

Service Contracts

Returns

Invoices

Find templates that contain:

Product ID

Search

Show All

Advanced Search

<input type="checkbox"/>	Template ID	Template Name	Last Modified	Date Created	Reminder Date	User Name	Organization
<input type="checkbox"/>	600960	Pat's New Template	11/12/2007	11/12/2007	None	Kellu, Pat	Anderson
<input type="checkbox"/>	600760	Pat's Latest Template	11/12/2007	11/12/2007	None	Kellu, Pat	Anderson
<input type="checkbox"/>	600740	Monthly Items Template	11/12/2007	11/12/2007	None	Kellu, Pat	Anderson
<input type="checkbox"/>	600621	Template	11/7/2007	11/7/2007	None	Scott, Mike	DataSolve
<input type="checkbox"/>	600601	Template	11/7/2007	11/7/2007	None	Kellu, Pat	Anderson

Download Selected Templates

Email Selected Templates

Default Template

FIGURE 632. Template List Page

3. You can perform one of the following tasks to search for a template:
- a. Click **Search** to perform a quick search on Product ID, Template ID, or Template Name
 - b. Click **Show All** to display all the templates
 - c. Click **Advanced Search** to perform an advanced search for the template.
- The Template Search page displays.

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Template Search

Return to List

Search for Templates with the given criteria. Partial entries with the wildcard character (*) are supported for Organization, Username, User First Name, User Last Name and Product ID.

Submit

Reset

Find Templates by Organization or User

Organization:

Username:

User First Name:

User Last Name:

Find Templates with the following attributes

Template ID:

Product ID:

Template Name:

Find Templates by Date Range

Creation Date:

Last Modified:

Starting Date:MM/DD/YYYY

Starting Date:MM/DD/YYYY

Ending Date:MM/DD/YYYY

Ending Date:MM/DD/YYYY

FIGURE 633. Template Search Page


4. Click **Submit** to display all the templates, or enter search criteria.

Enter search criteria to help you locate a list or set of lists. You can specify the criteria to limit the scope of the search. The search criteria are described in Table 60 on page 928.

TABLE 61. Search Fields

Field	Description
Organization	If you enter the name of an organization, then only templates that belong to users of that organization are listed.
Username	Enter the username of a user to find all templates created by the specific user.
User First Name	Enter the first name of a user to find all templates created by the specific user.
User Last Name	Enter the last name of a user to find all templates created by the specific user.
Template ID	Enter the ID number for the template if you are searching for a particular template.
Product ID	If you enter one or more product IDs, then only templates that contain one or more of those IDs are listed.
Template Name	Enter the template name if you are searching for a particular template.
Creation Date	Enter the Starting Date and Ending Date to find all templates created within a certain time frame. Enter Starting Date only to find all templates from the specified date forward. Enter an Ending Date only to find all templates up to the specified date.
Last Modified	Enter the Starting Date and Ending Date to find all templates updated within a certain time frame. Enter Starting Date only to find all templates from the specified date forward. Enter an Ending Date only to find all templates up to the specified date.

The Search Results page displays a list of all the templates that meet your search criteria.



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Administration

My Home | My Account | About | Help | Logout

Account Activity

Active | Templates | Wish Lists | Registries | Quotes | Sales Contracts | Orders | Service Contracts | Returns | Invoices

Find templates that contain:

Product ID

Search Show All Advanced Search

You are viewing lists for User First Name pat , User Last Name kelly

<input type="checkbox"/>	Template ID	Template Name	Last Modified	Date Created	Reminder Date	User Name	Organization
<input type="checkbox"/>	600740	Monthly Items Template	11/12/2007	11/12/2007	None	Kelly, Pat	Acadral

[Download Selected Templates](#) [Email Selected Templates](#)

☒ Default Template

FIGURE 634. Template Search Results Page

5. Click an item or refine your search.

If you can identify the template that you are looking for, click its link to display the Template Detail page. The Template Detail page provides a complete description of a template, including the availability, price, and quantity of each line item.

The screenshot shows the 'sterling commerce' Administration interface. The page title is 'My Template: Monthly Items Template'. On the left, there is a 'Catalog Search' section with links for 'Advanced Search', 'Browse Catalog', and 'Help Me Find Products'. Below this is an 'Actions' section with links for 'Make Template default', 'Email', 'Print View', 'Notes', 'Reminder', and 'Frequency: None'. A 'Details' section shows 'Date Created: 11/12/2007', 'Name: Monthly Items Template', 'Customer Type: General', 'Currency: USD', 'Last Modified: 11/12/2007', and 'Items: 1'. The 'My Template' section includes a 'Quick Add' button and a 'Wish Lists' link. The main content area features a 'Sort On: Date Added (oldest first)' dropdown and a table of items. The table has columns for 'Product Name', 'Availability', 'Price', and 'Quantity'. Three items are listed: '7480 Desktop "Base"', '17" Monitor', and 'Windows 2000'. Each item has a checkbox in the 'Quantity' column. A 'Compare' button is located at the top of the table.

Product Name	Availability	Price	Quantity
<input type="checkbox"/> 7480 Desktop "Base" HXDS-7480	Matrix Solutions Inc. View alternates	\$733.95	<input type="text" value="1"/>
<input type="checkbox"/> 17" Monitor HC-09177	included		1
<input type="checkbox"/> Windows 2000 WC-00924	included		1
<input type="checkbox"/> Matrix Satellite Speaker HSA-MSS	included		2

FIGURE 635. Template Detail Page

To Compare Items in a Template

1. Search for and navigate to the Template Detail page of the template you want to compare line items for. See "To Search for and View the Details of a Template" on page 945.
2. Check the check boxes next to the line items you want to compare, and click the **Compare** button.

The Compare Products page displays, similar to the following figure.

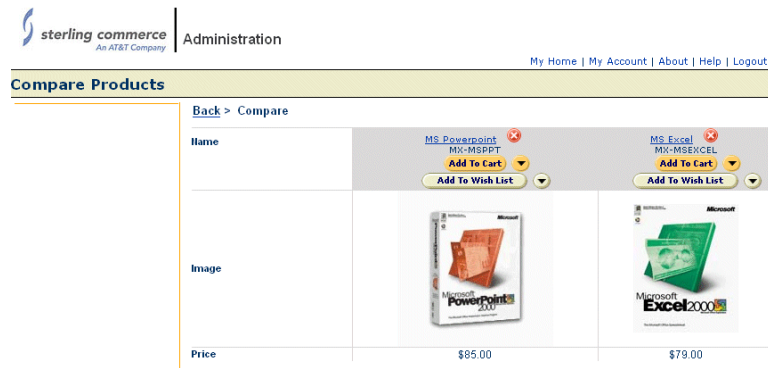


FIGURE 636. Compare Products Page

To Copy an Item to A Template

1. On the Template Detail page, check the check box next to the line item you want to copy to a template, and click the **Copy to Template** button.

A pop-up window displays.



FIGURE 637. Select Template to Copy Pop-Up

- Select the radio button next to the template you want to copy the item to and click **Copy**, or enter a template name and click **Create & Copy** to create a new template and copy the item to the new template.

To Move an Item to a Template

1. On the Template Detail page, check the check box next to the line item you want to move to a template, and click the **Move to Template** button.

A pop-up displays.

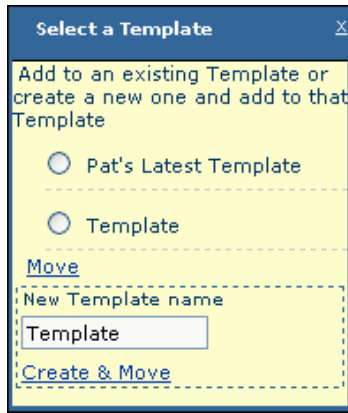


FIGURE 638. Select Template to Move Pop-Up

2. Select the radio button next to the template you want to move the item to and click **Move**, or enter a template name and click **Create & Move** to create a new template and move the item to the new template.

To Delete an Item from a Template

1. On the Template Detail page, check the check box next to the line item you want to delete from the template, and click the **Delete** button.

The line item is deleted from the template.

To Add an Item to a Cart

1. On the Template Detail page, check the check box next to the line item you want to add to a cart, and click the **Add to Cart** button.
 - a. If the user has only one active cart, the item gets added to this cart.
 - b. If the user has more than one active cart, a pop-up displays.

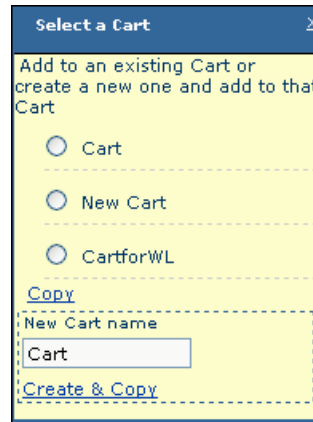


FIGURE 639. Select Cart Pop-Up

- Select the radio button next to the cart you want to add the item to and click **Copy**, or enter a cart name and click **Create & Copy** to create a new cart and add the item to the new cart.

To View Complementary Items for a Template

You can view complementary items for a line item.

Note: You can view complementary items for a line item only if the **Enable Complementary items link in Templates** business rule is set to true, and if the line item has any complementary items associated with it. For more information about business rules, see CHAPTER 39, "Business Rules Administration".

1. On the Template Detail page, navigate to the line item for which you want to view the complementary items, and click the **View Complementary Items** link.

The list of available complementary items for the line item displays.

To View Alternative Items for a Line Item

You can view the alternative items for a line item.

Note: You can view alternative items for a line item only if the **Enable Alternative items link in Templates** business rule is set to true, and if the line item has any alternative items associated with it. For more information about business rules, see CHAPTER 39, "Business Rules Administration".

1. On the Template Detail page, click the **View alternatives** link under the **Availability** column for the line item.

A pop-up displays.

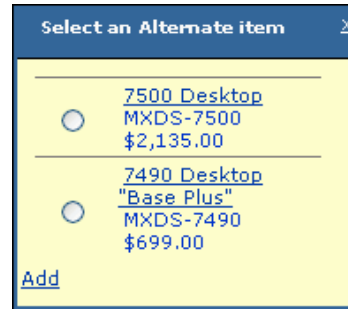


FIGURE 640. Select Alternate Item Pop-Up

The pop-up displays the list of alternative items for the line item.

2. Select the radio button next to the item you want to add to the template to replace the line item, then click **Add**.

To Download Template Information

1. Click **Customer Account Activity** on the Commerce Activity panel on the Sterling Multi-Channel Selling Solution home page.
2. Search for a list or set of templates.

See "To Search for and View the Details of a Template" on page 945.

The template list page displays. It presents all of the templates that meet your search criteria.

3. Select those templates whose details you wish to export by checking the check box next to each template.

4. Click **Download Selected Templates** in the lower-right corner of the page.

A new browser window displays showing details of the selected templates in HTML format.

You can save this file to your machine. If the file has been generated by a UNIX installation of the Sterling Multi-Channel Selling Solution, then the file has UNIX end-of-line characters. This means that some Windows text-editing applications such as Notepad may display the file as one continuous line.

To Email Template Information

1. Click **Customer Account Activity** on the Commerce Activity panel on the Sterling Multi-Channel Selling Solution home page.

2. Search for a list or set of templates.

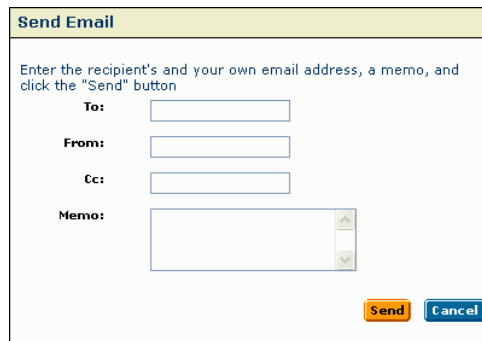
See "To Search for and View the Details of a Template" on page 945.

The template list page displays. It presents all of the templates that meet your search criteria.

3. Select those templates whose details you wish to email by checking the check box next to each template.

4. Click **Email Selected Templates** in the lower-right corner of the page.

The Send Email pop-up displays.



The image shows a 'Send Email' pop-up dialog box. It has a title bar with the text 'Send Email'. Below the title bar, there is a text area with the instruction: 'Enter the recipient's and your own email address, a memo, and click the "Send" button'. Below this instruction, there are four input fields: 'To:', 'From:', 'Cc:', and 'Memo:'. The 'Memo:' field is a larger text area with a vertical scrollbar. At the bottom right of the dialog box, there are two buttons: 'Send' (orange) and 'Cancel' (blue).

FIGURE 641. Send Email Pop-Up

5. Enter the recipient's email address in the To: field and the sender's email address in the From: field. Optionally, enter a CC: email address in the CC: field and any additional comments in the Memo: field.
6. Click **Send** to send the email or **Cancel** to cancel it.

Managing Registries

This section describes the tasks that a customer service representative can perform to manage registries.

To Create a Registry on Behalf of a Customer

1. Search for the user for whom you want to create a registry by using the **Search for User by Name** panel on the Sterling Multi-Channel Selling Solution home page.
2. On the User List page, click the **Account Activity** link next to the user for whom you want to create a registry.

The workspace page displays.

The screenshot shows the Sterling Commerce Administration interface. The top navigation bar includes the Sterling Commerce logo, the word "Administration", and links for "My Home", "My Account", "About", "Help", and "Logout". Below this is the "Account Activity" section with a tabbed interface. The "Registries" tab is selected. A search box labeled "Find carts that contain:" is present, with a "Product ID" dropdown and "Search", "Show All", and "Advanced Search" buttons. Below the search box, a message states: "You are viewing lists for Username pkelley, User First Name Pat, User Last Name Kelley". A prompt says "Select a Cart to Copy or Delete. Click New to create a new Cart." with "Copy", "Delete", and "New" buttons. A table displays the following data:

<input type="checkbox"/>	Cart ID	Name	Last Modified	Date Created	Memo	User Name	Organization
<input type="checkbox"/>	400680	Cart	11/12/2007	11/12/2007		Kelley, Pat	Acadral

At the bottom right of the table, there are links for "Download Selected Carts" and "Email Selected Carts". At the bottom left, there are links for "Shopping cart" and "Carts generated from Proposal".

FIGURE 642. Workspace Page

3. Click the **Registries** tab.

The list of registries belonging to the user displays.

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Administration

My Home | My Account | About | Help | Logout

Account Activity

Active | Templates | Wish Lists | Registries | Quotes | Sales Contracts | Orders | Service Contracts | Returns | Invoices

Find registries that contain:
Registry Type Search [Show All](#) [Advanced Search](#)

You are viewing lists for Username jkelly, User First Name Pat, User Last Name Kelley

Click Create to create a new Registry. Click Private, Public to set sharing for Registries.

Create Baby Registry Create Wedding Registry Private Public

<input type="checkbox"/>	Registry ID	Registry Type	Registrant Name	Co-Registrant Name	Last Modified	Date Created	Event Date	Status	User Name	Organization
<input type="checkbox"/>	600880	Pat's Wedding Registry	Kelley, Pat		11/12/2007	11/12/2007	12/12/2007	Private	Kelley, Pat	Address

[Find someone else's Registry](#)

☒ Set As Active Registry

☒ Default Registry

FIGURE 643. Account Activity Page: Registries Tab

4. Click **Create Baby Registry** if you want to create a baby registry, or click **Create Wedding Registry** if you want to create a wedding registry.

The Event Details page displays. The Event Details step is the first in the three-step registry creation process.

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Wedding Registry

Event details Ship Confirm [Next](#)

Create a Wedding Registry:
Enter your Registry's information.

Wedding Date

Wedding Location

Shower Date

Shower Location

Approximate number of guests

Reward Card No.

Comments

Registrant's Info:

Registrant's First Name

Registrant's Last Name

Registrant's Email

Registrant's Address Line 1

Registrant's Address Line 2

Registrant's city

State and Zip

Country

[More Addresses](#)

☐ Save to User Profile

Registrant's Phone No.

[Add](#)
Business: 410-6850
Fax: 410-6802
Mobile: 799-3487
[Remove](#)

Co-Registrant's Info:

Co-Registrant's First Name

Co-Registrant's Last Name

Co-Registrant's Email

Co-Registrant's Address Line 1

Co-Registrant's Address Line 2

Co-Registrant's city

State and Zip

Country

FIGURE 644. Event Details Page

5. Enter the appropriate details. See Table 62 on page 957 for a description of the fields.

TABLE 62. Event Details Fields

Field	Description
Wedding Date	Click the calendar icon to select a wedding date. Note: This field displays only if you are creating a wedding registry.
Wedding Location	Enter the location of the wedding. Note: This field displays only if you are creating a wedding registry.
Shower Date	Click the calendar icon to select a shower date for the registry.
Shower Location	Enter the location of the shower.
Expected Birth Date	Click the calendar icon to select the expected birth date of the baby. Note: This field displays only if you are creating a baby registry.
Baby Gender	Select Boy, Girl, or Not Known from the drop-down list. Note: This field displays only if you are creating a baby registry.
Approximate number of guests	Enter the number of guests expected to attend the event.
Reward Card No.	Enter the reward card number.
Comments	Enter your comments.
Registrant's First Name	Enter the registrant's first name.
Registrant's Last Name	Enter the registrant's last name.
Registrant's Email	Enter the registrant's email address.
Registrant's Address Line 1	Enter the first line of the registrant's address. Click the Copy Registrant's Address icon next to this field to copy the registrant's address to the co-registrant's address fields.
Registrant's Address Line 2	Enter the second line of the registrant's address.
Registrant's city	Enter the registrant's city.

TABLE 62. Event Details Fields

Field	Description
State and Zip	Select the registrant's state and enter its zip code.
Country	Select the registrant's country.
More Addresses	Click this link to select another address for the registrant.
Save to User Profile	Check this check box to save the registrant's address in the user's profile as a new Bill To address.
Registrant's Phone No.	Select the type of phone number and enter the phone number, then click the Add or Remove button to add or remove the registrant's phone numbers.
Co-Registrant's First Name	Enter the co-registrant's first name.
Co-Registrant's Last Name	Enter the co-registrant's last name.
Co-Registrant's Email	Enter the co-registrant's email address.
Co-Registrant's Address Line 1	Enter the first line of the co-registrant's address.
Co-Registrant's Address Line 2	Enter the second line of the co-registrant's address.
Co-Registrant's city	Enter the co-registrant's city.
State and Zip	Select the co-registrant's state and enter its zip code.
Country	Select the co-registrant's country.
Co-Registrant's Phone No.	Enter the co-registrant's phone number.

6. Click **Next**.

The Shipping Information page displays.

sterling commerce Administration My Home | My Account | About | Help | Logout

Shipping Information

Event details **Ship** Confirm Next

Enter/Select Your Shipping address: If you set a default address in your profile, then that address has been populated for you automatically. If you want to use this address, just press "Next". You may enter a new address by typing one below, or by selecting an address from your address book. To select an address from the list, click the "arrow" button to the right of the address. To see more addresses from your address book, click the "More" link.

- 601 Emerald Bay Lane
- First Floor
- Springfield, CT 26595
- USA

Current Address

Title:

Last name:

First name:

Address Line 1: *

Address Line 2:

City: *

State and Zip:

Country: *

☐ Save To User Profile

- 601 Emerald Bay Lane
- First Floor
- Springfield, CT 26595
- USA

Future Address

Disable Address: ☐

Start Date:

Title:

Last name:

First name:

Address Line 1: *

Address Line 2:

City: *

State and Zip:

Country: *

☐ Save To User Profile

FIGURE 645. Shipping Details Page

7. Enter the appropriate shipping information.
8. Click **Next**.

The Registry Confirmation Page displays. The Registry Confirmation is the final step in the three-step registry creation process.

sterling commerce Administration My Home | My Account | About | Help | Logout

Registry Confirmation Page [Add Items to my registry](#) [Cancel](#)

Pat Kelley: Wedding Registry

Event Details	Shipping Details
<p>Wedding Date: 11/28/2007</p> <p>Wedding Location:</p> <p>Shower Date:</p> <p>Shower Location:</p> <p>Approximate Number of Guests:</p> <p>Comments: Change</p>	<p>Current Shipping Address:</p> <p>601 Emerald Bay Lane</p> <p>First Floor</p> <p>Springfield</p> <p>CT 26595 USA</p> <p>Future Shipping Address:</p> <p>Change</p>

FIGURE 646. Registry Confirmation Page

9. Click the **Add Items to my registry** button to add items to the registry.

The Registry Detail page displays.

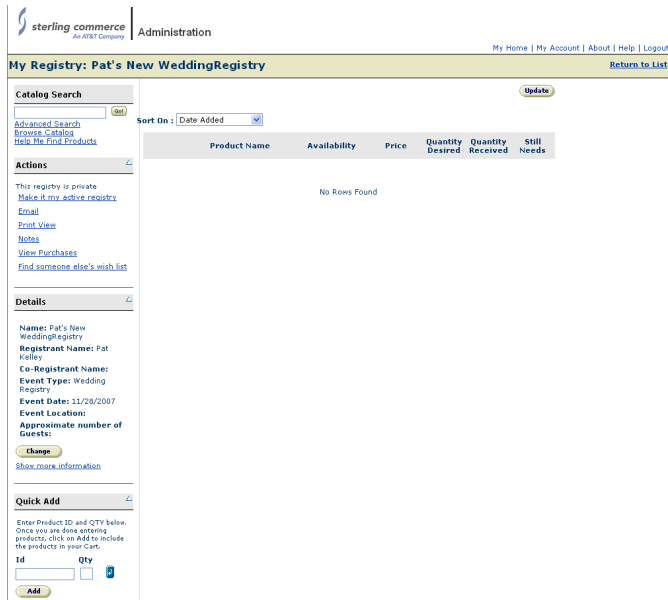


FIGURE 647. Registry Detail Page

10. Search for the item you want to add to the registry using the **Catalog Search** panel.

The Catalog Search Results page displays.

11. Click the Product Name.

The Product Detail page displays.

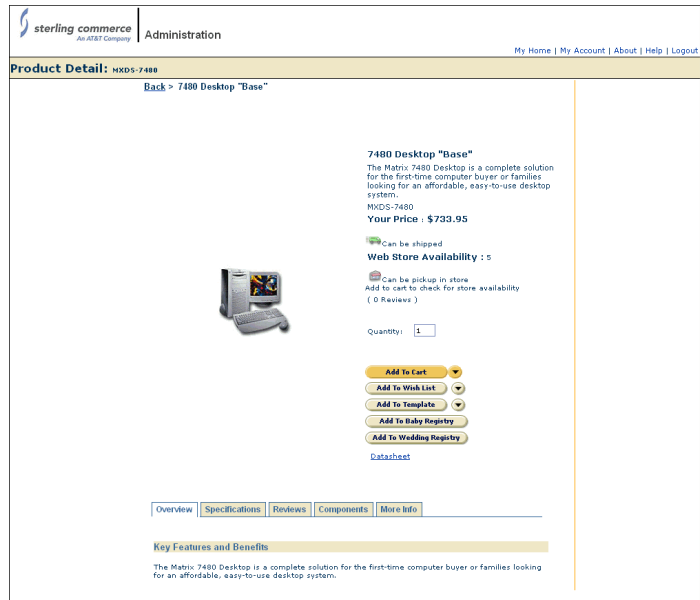


FIGURE 648. Product Detail Page

12. Click the **Add to Wedding Registry** button to add the item to a wedding registry, or click the **Add to Baby Registry** button to add the item to a baby registry.

A pop-up displays, similar to the following figure.

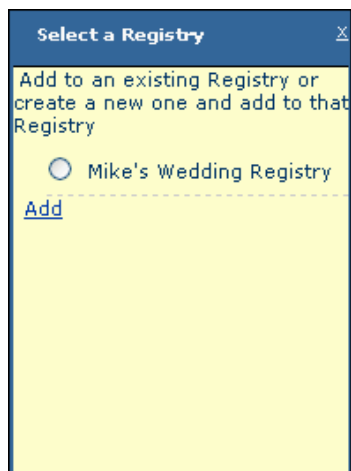


FIGURE 649. Select Registry Pop-Up

Select the radio button next to the registry you want to add the item to and click **Add**.

To Search for a Registry

1. Click **Customer Account Activity** on the Commerce Activity panel on the Sterling Multi-Channel Selling Solution home page.
Your workspace page displays.
2. Click the **Registries** tab.
The Registry List page displays.

The screenshot shows the 'Account Activity' section of the Sterling Commerce Administration interface. It includes a navigation bar with links like 'My Home', 'My Account', 'About', 'Help', and 'Logout'. Below the navigation bar is a tabbed interface with 'Active' selected. A search box allows filtering by 'Registry Type' (set to 'Baby Registry') and includes 'Search', 'Show All', and 'Advanced Search' buttons. A table lists registries with columns for Registry ID, Registry Type, Registrant Name, Co-Registrant Name, Last Modified, Date Created, Event Date, Status, User Name, and Organization. Three registries are listed: 'Pat's New Wedding Registry', 'Pat's Wedding Registry', and 'Mike's Wedding Registry'. A 'Find someone else's Registry' link is at the bottom right.

<input type="checkbox"/>	Registry ID	Registry Type	Registrant Name	Co-Registrant Name	Last Modified	Date Created	Event Date	Status	User Name	Organization
<input type="checkbox"/>	600300	Pat's New Wedding Registry	Kelley,Pat		11/12/2007	11/12/2007	11/28/2007	Private	Kelley,Pat	Andaral
<input type="checkbox"/>	600880	Pat's Wedding Registry	Kelley,Pat		11/12/2007	11/12/2007	12/12/2007	Private	Kelley,Pat	Andaral
<input type="checkbox"/>	600780	Mike's Wedding Registry	Scott,Mike		11/12/2007	11/12/2007	12/12/2007	Public	Scott,Mike	DataSolve

[Find someone else's Registry](#)

☐ Default Registry

FIGURE 650. Registry List Page

3. You can perform one of the following tasks to search for a registry:
 - a. Click **Search** to perform a quick search on Registry Type, Registrant Name, Co-Registrant Name, Status, Product ID, or Event Location.
 - b. Click **Show All** to display the list of all the registries.
 - c. Click **Advanced Search** to perform an advanced search for the registry.
- The Registries Search page displays.

The screenshot shows the 'Registries Search' page in the Sterling Commerce Administration interface. It features a search bar with the text 'Search for Registries with the given criteria. Partial entries with the wildcard character (*) are supported for Organization, Username, User First Name, User Last Name and Product ID.' Below the search bar are several search criteria sections: 'Find Registries by Organization or User' (with fields for Organization, Username, User First Name, and User Last Name), 'Find Registries with the following attributes' (with fields for Registry ID, Product ID, and Event Location), 'Find Registries by Registrant's Detail' (with fields for First Name and Last Name), 'Find Registries by Co-Registrant's Detail' (with fields for First Name and Last Name), 'Search Registries by Registry Type' (with a dropdown for Registry Type), 'Search Registries by Status' (with a dropdown for Registry Status), and 'Find Registries by Date Range' (with fields for Creation Date, Starting Date, Last Modified, Ending Date, and Last Modified). A 'Submit' button is at the bottom right.

FIGURE 651. Registries Search Page

4. Click **Submit** to display all the registries, or enter search criteria.

Enter search criteria to help you locate a list or set of lists. You can specify the criteria to limit the scope of the search. The search criteria are described in Table 63 on page 964.

TABLE 63. Search Fields

Field	Description
Organization	If you enter the name of an organization, then only registries that belong to users of that organization are listed.
Username	Enter the username of a user to find all registries created by the specific user.
User First Name	Enter the first name of a user to find all registries created by the specific user.
User Last Name	Enter the last name of a user to find all registries created by the specific user.
Registry ID	Enter the ID number for the registry if you are searching for a particular registry.
Product ID	If you enter one or more product IDs, then only registries that contain one or more of those IDs are listed.
Event Location	Enter the location where the event will be held.
First Name	Enter the first name of the registrant to find all registries created by the registrant.
Last Name	Enter the last name of the registrant to find all registries created by the registrant.
First Name	If you enter the first name of the co-registrant, then only registries that have this last name as the co-registrant's first name are listed.
Last Name	If you enter the last name of the co-registrant, then only registries that have this last name as the co-registrant's last name are listed.
Registry Type	Select Baby Registry if you are searching for a baby registry, or Wedding Registry if you are searching for a wedding registry.
Registry Status	Select Private or Public.

TABLE 63. Search Fields

Field	Description
Creation Date	Enter the Starting Date and Ending Date to find all registries created within a certain time frame. Enter Starting Date only to find all registries from the specified date forward. Enter an Ending Date only to find all registries up to the specified date.
Last Modified	Enter the Starting Date and Ending Date to find all registries updated within a certain time frame. Enter Starting Date only to find all registries from the specified date forward. Enter an Ending Date only to find all registries up to the specified date.

The Search Results page displays a list of all the registries that meet your search criteria.

The screenshot shows the Sterling Commerce Administration interface. At the top, there's a navigation bar with 'sterling commerce' logo and 'Administration' text. Below it, a 'My Home | My Account | About | Help | Logout' link is visible. The main section is titled 'Account Activity' and contains a series of tabs: 'Active', 'Templates', 'Wish Lists', 'Registries', 'Quotes', 'Sales Contracts', 'Orders', 'Service Contracts', 'Returns', and 'Invoices'. The 'Registries' tab is selected. Below the tabs, there's a search section titled 'Find registries that contain:' with a 'Registry Type' dropdown menu set to 'Baby Registry' and buttons for 'Search' and 'Show All Advanced Search'. Below the search section is a table with the following columns: Registry ID, Registry Type, Registrant Name, Co-Registrant Name, Last Modified, Date Created, Event Date, Status, User Name, and Organization. The table contains three rows of data:

Registry ID	Registry Type	Registrant Name	Co-Registrant Name	Last Modified	Date Created	Event Date	Status	User Name	Organization
600200	Pat's New Wedding Registry	Kelley, Pat		11/12/2007	11/12/2007	11/28/2007	Private	Kelley, Pat	Anderson
600880	Pat's Wedding Registry	Kelley, Pat		11/12/2007	11/12/2007	12/12/2007	Private	Kelley, Pat	Anderson
600780	Mike's Wedding Registry	Scott, Mike		11/12/2007	11/12/2007	12/12/2007	Public	Scott, Mike	Anderson

At the bottom of the table, there's a link 'Find someone else's Registry' and a 'Default Registry' button.

FIGURE 652. Registry Search Results Page

5. Click an item or refine your search.

If you can identify the registry that you are looking for, click its link to display the Registry Detail page. The Registry Detail page provides a complete description of a registry, including the availability, price, desired quantity and received quantity of each line item.

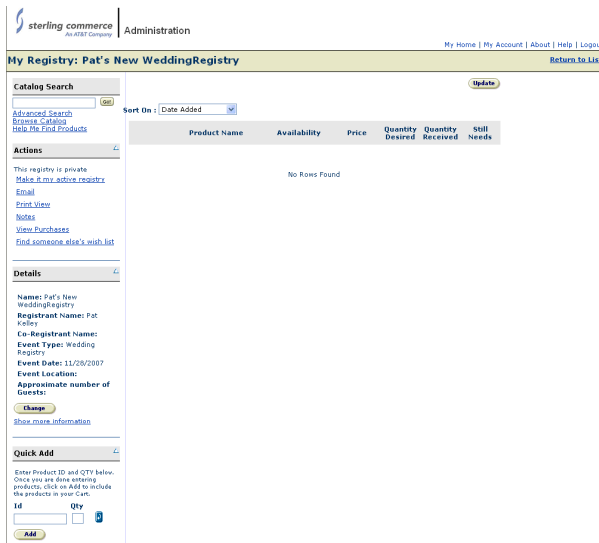


FIGURE 653. Registry Detail Page

You can use the Registry Detail page to perform one or more of the following tasks:

- To make a registry public, click the **Make this registry public** link under the **Actions** panel.
- To share a public registry with another user, click the **Email** link under the **Actions** panel. See "To Email Registry Information to Another User" on page 967.
- To download registry information, click the **Print View** link under the **Actions** panel. See "To Download Registry Information" on page 968.
- To add notes for a registry, click the **Notes** link under the **Actions** panel. See "To Add Notes for a Registry" on page 968.
- To view the purchase history of a registry. See "To View the Purchase History of a Registry" on page 969.
- To modify the header information for a registry, click the **Change** button under the **Details** panel. See "To Modify a Registry's Header Information" on page 970.

- To add an item to a cart, enter the Product ID and quantity of the item you want to add to a cart, then click the **Add** button under the **Quick Add** panel.
- To sort the line items in a registry by Date Added, Still Needs, Price (low to high), Price (high to low), Department, or Priority, select the sorting criteria from the Sort On drop-down list.
- To update the registry after making modifications, click the **Update** button.
- To delete a line item from the registry, click the **Delete (X)** icon next to the line item.
- To add a line item to a cart, click the **Add to Cart** icon next to the line item. See "To Add a Line Item to a Cart" on page 971.
- To move a line item to a registry. See "To Move a Line Item to a Registry" on page 971.
- To copy a line item to a registry. See "To Copy a Line Item to a Registry" on page 972.
- To view complementary items for a line item. See "To View Complementary Items for a Line Item" on page 973.
- To view alternative items for a line item. See "To View Alternative Items for a Line Item" on page 973.

To Email Registry Information to Another User

1. On the Registry Detail page, click the **Email** link under the **Actions** panel.
The Send Email pop-up displays.



The image shows a 'Send Email' pop-up dialog box. It has a title bar with the text 'Send Email'. Below the title bar, there is a blue instruction text: 'Enter the recipient's and your own email address, a memo, and click the "Send" button'. The form contains four fields: 'To:' with a text input box, 'From:' with a text input box, 'Cc:' with a text input box, and 'Memo:' with a larger text area that has a vertical scrollbar. At the bottom right of the dialog, there are two buttons: 'Send' (orange) and 'Cancel' (blue).

FIGURE 654. Send Email Pop-Up

2. Enter the recipient's email address in the **To:** field and the sender's email address in the **From:** field. Optionally, enter a **CC:** email address in the **CC:** field and any additional comments in the **Memo:** field.
3. Click **Send** to send the email or **Cancel** to cancel it.

To Download Registry Information

1. On the Registry Detail page, click the **Print View** link under the **Actions** panel.

A new browser window displays showing details of the wish list in HTML format.

You can save this file to your machine. If the file is generated by a UNIX installation of the Sterling Multi-Channel Selling Solution, the file has UNIX end-of-line characters. This means that some Windows text-editing applications such as Notepad may display the file as one continuous line.

To Add Notes for a Registry

1. On the Registry Detail page, click the **Notes** link under the **Actions** panel.
The Notes page displays.

sterling commerce
An AT&T Company

Administration

My Home | My Account | About | Help | Logout

Note: BabyRegistry

Enter a new note in the textbox and click the 'Add Note' button to save the note.

Back

Note

Add Note

Date	Note	Organization	Created By
No Rows Found			

FIGURE 655. Notes Page

2. Enter a note, then click **Add Note**.

To View the Purchase History of a Registry

1. On the Registry Detail page, click the **View Purchases** link under the **Actions** panel.

The Purchase History page displays.

sterling commerce
An AT&T Company

Administration

My Home | My Account | About | Help | Logout

Purchase History

Return

Item	Quantity Purchased	Purchase Date	Purchased By	Ship Date
MX-GV17T 17" Monitor				
MXA-MSS Matrix Satellite Speaker				
MDP-7480 7480 Desktop "Base"	5	9/7/2007	Kelley, Pat	
MX-MSW2K Windows 2000				

FIGURE 656. Purchase History Page

The Purchase History page displays details of the items that a user has purchased by copying them from the registry, such as the quantity of the item, the date on which the item was purchased, the user who purchased the item, and the date the item was shipped.

To Modify a Registry's Header Information

1. On the Registry Detail page, click the **Change** button under the **Details** panel.

The Edit Registry Information page displays.

sterling commerce
An ASST Company

Administration

My Home | My Account | About | Help | Logout

Return to List

SaveReset

Edit Baby Registry:

Enter your Registry's information.

Shower Date

9/19/2007

Shower Location

Expected Birth Date

9/16/2007

Baby Gender

Boy

Approximate number of guests

Revard Card No.

Comments

Registrar's Info:

Registrar's First Name

Pat

Registrar's Last Name

Kelley

Registrar's Email

pkelley@st.com

Registrar's Address Line 1

601 Emerald Bay Lane

Registrar's Address Line 2

First floor

Registrar's city

Springfield

State and Zip

CT 06595

Country

USA

Save to User Profile

Registrar's Phone No.

Business

Add

Business: 610-6850

PA#: 610-6802

Mobile: 799-3487

Remove

Co-Registrar's Info:

Co-Registrar's First Name

Co-Registrar's Last Name

Co-Registrar's Email

Co-Registrar's Address Line 1

Co-Registrar's Address Line 2

Co-Registrar's city

State and Zip

Country

USA

Co-Registrar's Phone No.

Enter/Select Your Shipping address: If you set a default address in your profile, then that address has been populated for you automatically. If you want to use this address, just press "Next". You may enter a new address by typing one below, or by selecting an address from your address book. To select an address from the list, click the "arrow" button to the right of the address. To see more addresses from your address book, click the "More" link.

601 Emerald Bay Lane

First floor

Springfield, CT 06595

USA

601 Emerald Bay Lane

First floor

Springfield, CT 06595

USA

Current Address

Title

Mr.

Last name

First name

Address Line 1 *

601 Emerald Bay Lane

Address Line 2

First floor

City *

Springfield

State and Zip

CT 06595

Country *

USA

Save To User Profile

Future Address

Disable Address:

☒

Start Date

Title

Mr.

Last name

First name

Address Line 1 *

Address Line 2

City *

State and Zip

Country *

USA

Save To User Profile

FIGURE 657. Edit Registry Information Page

970

Sterling Multi-Channel Selling Solution Administration Guide

2. Modify the appropriate details. You can change the registry's information, the registrant and co-registrant's information and shipping address.
3. Click **Save** to save your changes or click **Reset** to reset the details.

To Add a Line Item to a Cart

1. On the Registry Detail page, click the **Add to Cart** icon next to the item.
 - a. If the user has only one active cart, the item gets added to this cart.
 - b. If the user has more than one active cart, a pop-up window displays.

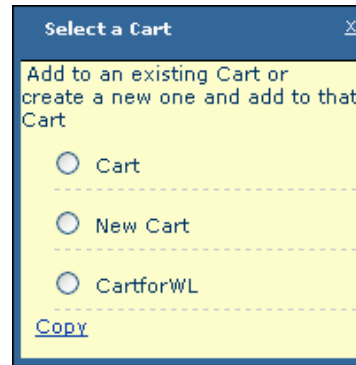


FIGURE 658. Select Cart Pop-Up

- Select the radio button next to the cart and click **Copy** to add the item to the cart.

To Move a Line Item to a Registry

1. On the Registry Detail page, click the **Move to Registry** icon next to the item you want to move.

A pop-up displays.



FIGURE 659. Select Wish List Pop-Up

The pop-up displays all the registries that belong to the user.

- Select the radio button next to the registry you want to move the item to and click **Move**.

To Copy a Line Item to a Registry

1. On the Registry Detail page, click the **Copy to Registry** icon next to the item you want to copy.

A pop-up displays.



FIGURE 660. Select Wish List Pop-Up

The pop-up displays all the registries that belong to the user.

- Select the radio button next to the registry you want to copy the item to and click **Copy**.

To View Complementary Items for a Line Item

You can view the complementary items for a line item.

Note: You can view complementary items for a line item only if your storefront administrator has set the **Enable Complementary items link in Registries** business rule to true, and if the line item has any complementary items associated with it. For more information about business rules, see CHAPTER 39, "Business Rules Administration".

1. On the Registry Detail page, navigate to the line item for which you want to view the complementary items, and click the **View Complementary Items** link.

The list of available complementary items for the line item displays.

To View Alternative Items for a Line Item

You can view the alternative items for a line item.

Note: You can view alternative items for a line item only if your storefront administrator has set the **Enable Alternative items link in Registries** business rule to true, and if the line item has any alternative items associated with it. For more information about business rules, see CHAPTER 39, "Business Rules Administration".

1. On the Registry Detail page, click the **View alternatives** link under the **Availability** column for the line item.

A pop-up window displays.

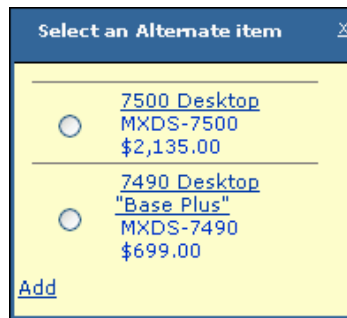


FIGURE 661. Select Alternate Item Pop-Up

The pop-up displays the list of alternative items for the line item.

2. Select the radio button next to the item you want to add to the registry to replace the line item, then click **Add**.

To Search for a Registry Belonging to Another User

1. Click **Customer Account Activity** on the Commerce Activity panel on the Sterling Multi-Channel Selling Solution home page.

Your Workspace page displays.

2. Click the **Registries** tab.

The Registry List page displays.

The screenshot shows the Sterling Commerce Administration interface. At the top, there's a navigation bar with 'sterling commerce' logo and 'Administration' text. Below it, a 'My Home | My Account | About | Help | Logout' link is visible. The main section is titled 'Account Activity' and contains a tabbed interface with 'Active', 'Templates', 'Wish Lists', 'Registries', 'Quotes', 'Sales Contracts', 'Orders', 'Service Contracts', 'Returns', and 'Invoices'. The 'Registries' tab is selected. Below the tabs, there's a search section titled 'Find registries that contain:' with a dropdown for 'Registry Type' set to 'Baby Registry' and a 'Search' button. Below the search section is a table of registries. The table has columns: Registry ID, Registry Type, Registrant Name, Co-Registrant Name, Last Modified, Date Created, Event Date, Status, User Name, and Organization. There are three rows of data. At the bottom right, there's a link 'Find someone else's Registry'.

Registry ID	Registry Type	Registrant Name	Co-Registrant Name	Last Modified	Date Created	Event Date	Status	User Name	Organization
<input type="checkbox"/> 600900	Pat's New Wedding Registry	Kelley,Pat		11/12/2007	11/12/2007	11/28/2007	Private	Kelley,Pat	Andarel
<input type="checkbox"/> 600880	Pat's Wedding Registry	Kelley,Pat		11/12/2007	11/12/2007	12/12/2007	Private	Kelley,Pat	Andarel
<input type="checkbox"/> 600780	Mike's Wedding Registry	Scott,Mike		11/12/2007	11/12/2007	12/12/2007	Public	Scott,Mike	DataSolve

[Find someone else's Registry](#)

FIGURE 662. Registry List Page

3. Click the **Find someone else's Registry** link on the right-hand corner of the page.

The Public Registry Search page displays.

sterling commerce
An AT&T Company

Administration

[My Home](#) | [My Account](#) | [Account Activity](#) | [About](#) | [Help](#) | [Logout](#)

Public Registry(s) [Return](#)

Find Someone's Registry:

Registrant's or Co-Registrant First Name

Registrant's or Co-Registrant Last Name

[Search](#)

Name	Registrant First Name	Registrant LastName	Co-Registrant First Name	Co-Registrant LastName	Event Date ▾	Event Location
No Rows Found						

FIGURE 663. Public Registry Search Page

4. Enter the registrant or co-registrant's first name and registrant or co-registrant's last name, then click **Search**.

The Search Results page displays the list of registries that meet your search criteria.

sterling commerce
An AT&T Company

Administration

[My Home](#) | [My Account](#) | [Account Activity](#) | [About](#) | [Help](#) | [Logout](#)

Public Registry(s) [Return](#)

Find Someone's Registry:

Registrant's or Co-Registrant First Name

Registrant's or Co-Registrant Last Name

[Search](#)

Name	Registrant First Name	Registrant LastName	Co-Registrant First Name	Co-Registrant LastName	Event Date ▾	Event Location
Wedding Registry	Chuck	James			9/20/2007	
Baby Registry	Chuck	James			9/15/2007	

FIGURE 664. Public Registry Search Results Page

Working with Service Contracts

The customer service representative can view the service contractable items in the system and make changes to service contracts that are in the Active state.

Service contracts are generated for service contractable items after orders including such items are submitted. Once the order containing the service contractable item has been placed and accepted, customer service representatives can modify information about the service contract. Information that can be modified includes

service contract header information such as addresses and shipping information, and contract line items such as prices and expiration dates. For example, a customer may wish to renew a contract that is due to expire within 30 days, or take advantage of a special service offer.

To Search for Service Contracts


You can search for service contracts as follows:

1. Click **Advanced Search** in the Service Contracts panel on the Sterling Multi-Channel Selling Solution home page. The Service Contracts Search page displays as shown in the following figure.

The screenshot shows the 'Service Contracts Search' page within the Sterling Commerce Administration interface. The page has a header with the Sterling Commerce logo and 'Administration' text. A navigation bar includes links for 'My Home', 'My Account', 'About', 'Help', and 'Logout'. The main heading is 'Service Contracts Search' with a 'Return to List' link. Below the heading is a search instruction: 'Search for Contracts with the given criteria. Partial entries with the wildcard character (*) are supported for Organization, Username, User First Name, User Last Name, Contract Name, and Sales Order #.' There are 'Submit' and 'Reset' buttons. The search criteria are organized into several sections: 'Find by Accounts handled by Manager/Rep' with a dropdown menu; 'Find Contracts by Organization or User' with fields for Organization, Username, User First Name, and User Last Name; 'Find Contracts with the following attributes' with fields for Contract ID, Contract Name, and Sales Order #; 'Find Contracts by Status' with a dropdown menu for Contract Status; and 'Find Contracts by Date Range' with fields for Creation Date, Last Modified, Next End Date, and Final End Date, each with a date picker icon. The date range section also includes fields for Starting Date and Ending Date for each of the four date types.

FIGURE 665. Service Contracts Search Page

2. Enter one or more search criteria, then click **Submit**. You can use the asterisk (*) to perform wildcard searches.
3. The **Service Contracts** tab of your workspace page displays all the service contracts that meet your search criteria.
4. Click the contract ID to see the Service Contract Summary page. This page provides specific information about the service contract, including relevant information about the user, the order, and the line item(s).
5. If the order has not yet been accepted, then the page will be displayed as read-only. Otherwise, the page displayed is similar to the following figure.


Administration

[My Home](#) | [My Account](#) | [About](#) | [Help](#) | [Logout](#)

Service Contract Summary: Service Contract # 611202
[Return to List](#)

Service Contract Details
[Back](#)

Name:
Modified Contract Nm + Item
Status:
Active
Customer Type:
General
Currency:
USD
Last Modified:
2/7/2007
Next End Date:
Final End Date:
Items:
1
User Name:
Hover, Larry
Organization:
Dexus Communication

Review the contract summary. To see the details of the contract, click View Details. To change the contract header or details, click Change Contract. To place on contract on hold, click Place on Hold. To cancel the entire contract, click Cancel Contract. This contract was generated from order # [9090618008](#)

Shipping Information	Billing Information	Sold-To Information
Ship To: Larry Hover Dexus Communication 1077 W. California Ave. First floor San Francisco, CA 96022 USA Ship Via: UPS Ship when complete: No Deliver on: Memo:	Bill To: Larry Hover Dexus Communication 1077 W. California Ave. First floor San Francisco, CA 96022 USA PO Number: 1 serv con itm-single cart/adview, chg serv con,re Email Address: hlgaglan@comerгент.com Account Number: XXXXXXXXXXXX1111	Sold To: Larry Hover Dexus Communication 1077 W. California Ave. First floor San Francisco, CA 96022 USA

[View Details](#)
[Change Contract](#)
[Place on Hold](#)
[Cancel Contract](#)

Name	Description	Other Charges	Ordered Qty	Amount
history End 7650 Workstation "High End" MXWS-7650	The Matrix 7650 Workstation provides a highly flexible and expandable solution.		1	\$5,431.00
Intel Pentium III 800MHz Processor MX-IC800P	Intel Pentium III 800MHz Processor		1	\$325.00
256MB SIMMS MX-PR256S	256MB SIMMS		1	\$120.00
150GB Seagate Disc Drive MX-ST150D	150GB Seagate Disc Drive, Fibre Channel, 10033 RPM, 3.8 ms.		1	\$1,425.00
15" CRT 15" Flat Panel Monitor			1	
Windows 98 MX-MSW98	Win98		1	\$105.00
Subtotals:				\$7,406.00

FIGURE 666. Service Contract Summary Page

To Modify Service Contracts

You may be required to change a service contract, for example in response to a request by a user.

1. Search for and display the service contract that you want to modify.
See "To Search for Service Contracts" on page 976.
2. Click **Change Contract**. The Change Service Contract page displays.
3. Modify the service contract information.
4. When you are finished modifying the service contract information, click **Checkout**.

To View Service Contract History

Perform these steps to view the history for an individual service contract.

1. Search for and display the Service Contract Summary page for the service contract whose history you want to view.
See "To Search for Service Contracts" on page 976.
2. Click the **history** link on the Service Contract Summary page. The Service Contract History page displays, as shown in the following figure.

The screenshot shows the 'Service Contract History' page for Service Contract # 600703. It includes a search bar with a dropdown for 'Updated By' and buttons for 'Search' and 'Show All'. Below the search bar is a table with the following data:

Date	Updated By	Type	Field Name	Old Value	New Value	Comment
11/28/2007	ajones	Change	Status	Open (10)	Pending (20)	Service Contract creation.

A 'Done' button is located to the right of the table.


FIGURE 667. Service Contract History Page

Processing Return Requests

The customer service representative can view all the return requests currently in the system. In addition, the representative can manually approve or reject those requests for which no decision has been reached.

To Search for Return Requests

1. Click **Advanced Search** in the Returns panel on the Sterling Multi-Channel Selling Solution home page.

 Administration

[My Home](#) | [My Account](#) | [About](#) | [Help](#) | [Logout](#)

Returns Search

[Return to List](#)

Search for Returns with the given criteria. Partial entries with the wildcard character (*) are supported for Organization, Username, User First Name, User Last Name, Order Number, RMA Number, Serial Number and Product ID.

Find by Accounts handled by Manager/Rep

Find Returns by Organization or User

Organization:	Username:	User First Name:	User Last Name:
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Find Returns with the following attributes

Return Number	Order Number	RMA Number	Serial Number
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Product ID	<input type="text"/>		

Find Returns By Status

Return Status

Find Returns by Date Range

Request Date	Approval Date
<input type="text"/>	<input type="text"/>

FIGURE 668. Returns Search Page

2. Enter search criteria to help you locate a return request. You can use the asterisk (*) wildcard for your search. Click **Submit**.

TABLE 64. Search Criteria: Returns

Field	Description
Accounts by Manager/Rep	You can specify that the search should be performed only over partner accounts that are assigned to particular enterprise managers and users. Click ... to select users from the enterprise organization.
Organization	If you enter the name of an organization, then only returns requested by users of that organization are listed.
Username	Enter the username of a user to find all returns requested by the specific user.
User First Name	Enter the first name of a user to find all returns requested by the specific user.
User Last Name	Enter the last name of a user to find all returns requested by the specific user.
Return Number	Enter the identification number for the return assigned when the return was created.
Order Number	Enter an order number to display the requests associated with that order.
RMA Number	Enter the Return Material Authorization (RMA) number to display the return request associated with that RMA number.
Serial Number	Inactive. You cannot use this field.
Product ID	Enter the product ID number to list all the return requests that contain this product ID.
Return Status	Enter the status (approved, rejected, or pending) to display requests that have that particular status.
Request Date	Enter starting and ending dates to display any requests created within a given time period.
Approval Date	Enter the starting and ending date to display any returns approved with the given period.

The Returns tab of the Workspace page is displayed with the returns that meet your search criteria displayed.

COMERGENT eBusiness System Administration

My Home | My Account | About | Help | Logout

Account Activity

Active | Quotes | Sales Contracts | Orders | Returns | Invoices

Find Returns that contain:

Product ID: Search Show All Advanced Search

You are viewing lists for Username c'

To return an item, locate the original order # within the 'Orders' tab above.

Return Number	RMA Number	Order Number	Request Date	Approval Date	Status	User Name	Organization
600655	2987	3163599573	9/21/2005	9/21/2005	Approved by ERP	GJ.Chen	DataSolve
300053	2987	2609302629	6/7/2002	6/7/2002	Approved by ERP	Mason,Chuck	Virtual Networks
300054		3118303066	6/7/2002		Denied by CSR	Mason,Chuck	Virtual Networks

FIGURE 669. Workspace Page: Returns Tab

- Click on the return number of the appropriate return request.

This displays the Return Request Detail page.

COMERGENT eBusiness System Administration

My Home | My Account | About | Help | Logout

Return Information: 600781 [Return to List](#)

Placed on: 9/23/2005
Items: 1
Status: Pending
Order Number: [2742593063](#)
User Name: [Mason,Chuck](#)
Organization: [Virtual Networks](#)

To change the Warehouse location, enter new Warehouse location and click on Go. To approve the Return request click on Approve Return. To reject the Return request click on Reject Return.

Shipping Information

Return To: Tracking Number:
Warehouse Location: Go

Tracking #:
Ship Via:
Date:

Memo:

[Reject Return](#) [Approve Return](#)

List of items which are part of this Return.

Product ID	Quantity	Serial Number	Return Reason	Return Criteria
MX-LNXX	1		Defective	Equipment is broken

FIGURE 670. Return Request Detail Page

To Process Return Requests

- Search for the return as described in "To Search for Return Requests" on page 978.

2. Navigate to the detail page for the request.
3. On the Return Request Detail page, click **Approve Return** or **Reject Return**.
If you approve the request, then a Returns Management Authorization (RMA) number is assigned and an email notification is sent to the customer.
If you reject the request, then only an email notification is sent to the customer.

Processing Quotes

The customer service representative can view all the quotes currently in the system. In addition, the representative can override details of the quote, including its expiration date, and the quantity and prices of each line item saved in the quote.

To Search for Quotes

1. Click **Advanced Search** in the Quotes panel on the Sterling Multi-Channel Selling Solution home page.

The screenshot shows the 'Quote Search' page in the COMERGENT Administration system. The page has a header with the COMERGENT logo and 'Administration' text. Below the header, there are navigation links: 'My Home', 'My Account', 'About', 'Help', and 'Logout'. The main section is titled 'Quote Search:' and includes a 'Return to List' link. A search instruction states: 'Search for Quotes with the given criteria. Partial entries with the wildcard character (*) are supported for Organization, Username, User First Name, User Last Name and Quote Name.' There are two buttons: 'Submit' (orange) and 'Reset' (blue). Below this, there are several search criteria sections: 'Find by Accounts handled by Manager/Rep' with a text input and a 'Go' button; 'Find Inquiry Lists by Organization or User' with four text inputs for 'Organization:', 'Username:', 'User First Name:', and 'User Last Name:'; 'Quotes with the following attributes' with two text inputs for 'Quote ID' and 'Quote Name'; 'Quotes By Status' with a dropdown menu; and 'Find Quotes by Date Range' with three text inputs for 'Creation Date', 'Last Modified', and 'Expiration Date', each with a 'Starting' label.

FIGURE 671. Quotes Search Page

2. Enter search criteria to help you locate a quote. You can use the asterisk (*) wildcard for your search. Click **Submit**.

TABLE 65. Search Criteria: Quotes

Field	Description
Accounts by Manager/Rep	You can specify that the search should be performed only over partner accounts that are assigned to particular enterprise managers and users. Click ... to select users from the enterprise organization.
Organization	Enter the company name of the user that created the quote.
Username	Enter the username of the user that created the quote.
User First Name	Enter the first name of the user that created the quote.
User Last Name	Enter the last name of the user that created the quote.
Quote ID	Enter the ID of the quote that you are looking for.
Product ID	Enter the product ID number to list all the quotes that contain this product ID.
Creation Date	Enter starting and ending dates to display any quotes created within the given time period.
Expiration Date	Enter the starting and ending date to display any quotes that expire within the given time period.

The Quotes tab of the Workspace page is displayed with the quotes that meet your search criteria displayed.

COMERGENT eBusiness System | Administration

My Home | My Account | About | Help | Logout

Product Lists

Active | **Quotes** | Sales Contracts | Orders | Returns | Invoices

Find Quotes that contain:

Product ID: Search Show All Advanced Search

Select a list to Remove.

Delete

<input type="checkbox"/>	Quote ID	Quote Name	Quoted By	Expiration Date	Last Modified	Status
<input type="checkbox"/>	600733	Quote List 6	mbarry	9/23/2005	9/22/2005	Accepted
<input type="checkbox"/>	600730	Quote List 5	mbarry	10/22/2005	9/22/2005	Accepted
<input type="checkbox"/>	600621	Quote List	mbarry	10/21/2005	9/21/2005	Accepted
<input type="checkbox"/>	600616	Pricing Rule List	mbarry	10/21/2005	9/21/2005	Accepted
<input type="checkbox"/>	600604	Cart	mbarry	10/20/2005	9/20/2005	Submitted

FIGURE 672. Workspace Page: Quotes Tab

- Click on the quote name of the appropriate quote.

This displays the Quote Detail page.

COMERGENT | Administration
eBusiness System

My Home | My Account | About | Help | Logout

Quote Display

[Return to List](#)

Name: [Cart](#) [Change](#)
 Customer Type: General
 Currency: USD
 Last Modified: 9/20/2005
 Status: Submitted
 Expiration Date: 10/20/2005
 User Name: [Barry Mike](#)
 Organization: [AMT Systems](#)

Use this page to prepare your quote.
 You can adjust the prices that are presented to your contact using the Uplift and Discount fields: the uplift is applied to the list price, and the discount is applied to the uplifted price. When you print the quote, only the discounted price is displayed. Major Line items can be marked Below the Line (BTL) to indicate that they are not part of the formal quote but might be items of interest for the user. Minor lines can be marked Do Not Display (DND) when they are part of the quote but they should not be displayed in the print view of the quote. Use the Calculate button to try out different combinations of uplifts and discounts. Save your final uplift and discount choices by clicking Update.

[Continue Shopping](#) [Help Me Find Products](#) [Enter Product IDs](#)

[Compare](#) [Remove](#) [Calculate](#) [Reject](#) [Accept](#) [Update](#)

<input type="checkbox"/> BTL <input type="checkbox"/> DND	Name	Product ID	Supplier	Price	Qty	Ext. Price	Status
<input type="checkbox"/>	Matrix 7550	MCG-7550	Enterprise	\$1,378.00	1	\$1,378.00	Configure
<input type="checkbox"/>	Desktop "Xtra"						
			Pct.	Uplift 0.00		\$1,378.00	
			Abs.	Discount 0.00		\$1,378.00	

FIGURE 673. Quote Detail Page

To Process Quotes

Customer service representatives can modify the details of a quote and they can place the quote as an order on behalf of the user that saved the quote.

- Search for the return as described in "To Search for Quotes" on page 982.
- Navigate to the detail page for the quote.
- On the Quote Detail page, modify the quote details as appropriate.
- Click **Update**.

If you want to place the quote as an order, then follow these additional steps:

- Click **Prepare Order Header**.
- Click **Edit Header Info**. Enter order information as appropriate on behalf of the user.
- Click **Review and Place Order**. On the Review and Place Order page, you can double-check any order details before placing the order.

8. Click **Place Order**.

A confirmation page is displayed. Click **Done** to return to your workspace page.

To Modify a Quote

As an enterprise user, you can modify quotes as follows:

1. Search for the quote.
See "To Search for Quotes" on page 982.
2. Click on an ID to view the details of the quote.

COMERGENT Administration
eBusiness System

My Home | My Account | About | Help | Logout

Quote Display

[Return to List](#)

Name: [Cart](#) [Change](#)

Customer Type: General
Currency: USD
Last Modified: 9/20/2005
Status: Submitted
Expiration Date: 10/20/2005
User Name: [Barry, Mike](#)
Organization: [AMT Systems](#)

Use this page to prepare your quote.
You can adjust the prices that are presented to your contact using the Uplift and Discount fields: the uplift is applied to the list price, and the discount is applied to the uplifted price. When you print the quote, only the discounted price is displayed. Major Line items can be marked Below the Line (BTL) to indicate that they are not part of the formal quote but might be items of interest for the user. Minor lines can be marked Do Not Display (DND) when they are part of the quote but they should not be displayed in the print view of the quote. Use the Calculate button to try out different combinations of uplifts and discounts. Save your final uplift and discount choices by clicking Update.

[Continue Shopping](#) [Help Me Find Products](#) [Enter Product IDs](#)

[Compare](#) [Remove](#) [Calculate](#) [Reject](#) [Accept](#) [Update](#)

<input type="checkbox"/> BTL <input type="checkbox"/> DND	Name	Product ID	Supplier	Price	Qty	Ext. Price	Status
<input type="checkbox"/>	Matrix 7550 Desktop 'Ntra'	MIGS-7550	Enterprise	\$1,378.00	1	\$1,378.00	Configure
			Pct. Uplift 0.00	\$1,378.00			
			Abs. Discount 0.00	\$1,378.00			

FIGURE 674. Quote Detail Page

3. Modify the information as necessary.

You can click the calendar icon to select a new expiry date.

4. Click **Update** to save the changes and continue editing the quote; click **Back** to return to the list of quotes.

Users can request better prices by clicking **Negotiate Prices** while viewing a cart. When they do so, they are prompted to specify the discount that they want for each line item and to provide a reason for the request (such as a volume discount or a competing offer). When the request is submitted, then:

- It can be automatically approved: this occurs if the requested price for each line item is within a certain percentage of the user's list price. This percentage is determined by the RFQ Rule Acceptance Percentage system property. See "RFQ Rule Acceptance Percentage" on page 1081 for more information. If a quote is automatically approved, then it is saved as an orderable quote, and so the user can immediately place it as an order.
- If it is not automatically approved, then it is saved as an submitted quote and an email message is sent to an email address used to alert customer service representatives that a user has requested a quote. The email address is determined by the Email Address for CSR system property. See "Email Address for CSR" on page 1081 for more information. A customer service representative must then approve or reject the quote as described in this section.

A customer service representative can view all the quotes currently in the system that have not been automatically approved. In addition, the representative can override details of the quote, including its expiration date, and the quantity and prices of each line item saved in the quote.

- If you approve a quote, then the quote is converted to an orderable quote. When the user who requested the quote next logs in, they will see that the quote is now approved, and they can proceed to place the quote as an order.
- If you reject a quote, then the quote status is set to Rejected. When the user who requested the quote next logs in, they will see that the quote has been rejected. If they want to, the user can navigate to the quote and re-submit it.

To Approve a Quote

Customer service representatives can modify the details of a submitted quote and they can approve or reject it. If they approve a quote, then it is saved as an orderable quote: it can then be placed as an order either by the user or by a customer service representative. Note that once an quote is accepted, then any pricing rules associated with the quote are removed because their effect on prices is overwritten by manual pricing changes.

1. Search for the quote as described in "To Search for Quotes" on page 982.
2. Navigate to the detail page for the quote.
3. You can modify the quote before acting on it. If necessary, modify the quote to provide information about the approval or rejection.

- Memo: the reason for approval or rejection
- Quantity: an acceptable quantity.
- CSR Price: an acceptable price. If you leave this field blank, then the quoted price defaults to the price requested by the user (User Price).

If desired, modify the comment for each line.

4. Click **Approve**.

The quote is saved as an orderable quote and can now be placed as an order.

To Reject a Quote

Customer services representatives can modify the details of a submitted quote and they can approve or reject it. If they reject a quote, then the user can review the reasons for your rejection and they can re-submit the request.

1. Search for the quote as described in "To Search for Quotes" on page 982.
2. Navigate to the detail page for the quote.
3. You can modify the quote before acting on it. If necessary, modify the quote to provide information about the approval or rejection.
 - Memo: the reason for approval or rejection
 - Quantity: an acceptable quantity.
 - CSR Price: an acceptable price. If you leave this field blank, then the quoted price defaults to the price requested by the user (User Price).

If desired, modify the comment for each line.

4. Click **Reject**.

Creating Tasks From Commerce Objects

You can create tasks from orders and quotes. By doing so, you can add a task to your own "To do" list, or have a colleague work on the order or quote. See "Task Management" on page 59 for more information about tasks.

To Create a Task from a Commerce Object

1. Navigate to the detail page of the commerce object.
2. Click **Create Task**.

The screenshot shows the 'Task Detail' page in the COMERGENT Task Manager. The page has a header with the COMERGENT logo and 'Task Manager' text. Navigation links include 'My Home', 'My Account', 'About', 'Help', and 'Logout'. A 'Go to Task List' link is in the top right. The main section is titled 'Task Detail:' and contains a 'Detail' tab. Below the tab is a 'Task Detail page.' label and 'Create' and 'Cancel' buttons. The form is divided into two main sections: 'General Information' and 'Task Summary'. The 'General Information' section includes fields for '*Task Name', '*Priority' (set to 'High'), '*Task Type' (set to 'Commerce'), 'Due Date', and '*Status' (set to 'New'). The 'Task Summary' section includes a large text area for 'Task Summary' and a 'Watcher List' section with a table for adding watchers. The 'Watcher List' table has columns for 'Name', 'Email', and 'Phone'. The 'Email Creator' checkbox is also present.

General Information								
NOTE: (*) items are required.								
*Task Name	*Priority	*Task Type						
<input type="text"/>	High	Commerce						
Due Date		*Status						
<input type="text"/>		New						
Task Summary		URL 1						
<input type="text"/>		<input type="text"/>						
		URL 2						
		<input type="text"/>						
		URL 3						
		<input type="text"/>						
Watcher List		Email Creator						
<table border="1"><thead><tr><th>Name</th><th>Email</th><th>Phone</th></tr></thead><tbody><tr><td><input type="text"/></td><td><input type="text"/></td><td><input type="text"/></td></tr></tbody></table>		Name	Email	Phone	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
Name	Email	Phone						
<input type="text"/>	<input type="text"/>	<input type="text"/>						

FIGURE 675. Task Detail Page for new Commerce Task

3. Enter the task details as appropriate.
4. Assign watchers to the new task.
5. Click **Create**.

The Task Detail page is re-displayed.

6. Click **Notes** to enter task-related notes.

This chapter covers all of the tasks associated with managing leads, opportunities, and proposals. "Leads Management" on page 48 provides an overview of how you work with Sterling Leads.

Creating and Modifying Leads

Lead administrators can add leads to the system either by creating the leads manually or by uploading a file as described in "To Upload a Lead" on page 992. Before uploading leads, check that the system property Job Scheduler URL has been set: typically it should be set to:


```
http://<server:port>/Sterling/msg/matrix
```

See "Job Scheduler Settings" on page 1078 for further information.

To Create a Lead

1. Click **Lead Activity** on the Channel Management panel on the Sterling Multi-Channel Selling Solution home page.

This displays the Leads Management List page.

 **COMERGENT**
eBusiness System

Lead Management

[My Home](#) | [My Account](#) | [About](#) | [Help](#) | [Logout](#)

Lead List

Find:

Lead ID

Search

Show All

All Leads Shown

AutoAssign

Assign

Close

New

Upload

Previous

Next

<input type="checkbox"/>	Lead ID	Lead Name	Priority	Primary Contact	Created By	Creation Date	Status
<input type="checkbox"/>	600548	ALBERT'S NEW LEAD	Medium	Guan, Mark	ajones	9/14/2005	Unassigned
<input type="checkbox"/>	600538	Lead 24 - No Proposal Currency Code	Medium	Fong, Al	ajones	9/13/2005	Unassigned
<input type="checkbox"/>	600537	Lead 23 - No Proposal Name	Medium	Fong, Al	ajones	9/13/2005	Unassigned
<input type="checkbox"/>	600518	Lead 8 - No Lead Source	Low	Fong, Al	ajones	9/13/2005	Unassigned
<input type="checkbox"/>	600515	Lead 6 - No RecommendedPartner	Medium	Fong, Albert	ajones	9/13/2005	Unassigned
<input type="checkbox"/>	600512	Lead 4 - Allnat Corp	Medium	Fong, Albert	ajones	9/13/2005	Unassigned
<input type="checkbox"/>	600511	Lead 3 - AffinityNet	Medium	Fong, Albert	ajones	9/13/2005	Unassigned
<input type="checkbox"/>	600510	Lead 2 - ARCnet	Medium	Fong, Albert	ajones	9/13/2005	Unassigned
<input type="checkbox"/>	600509	Lead 1 - AMT System	High	Fong, Albert	ajones	9/13/2005	Unassigned
<input type="checkbox"/>	600571	Western Trade Show	Low	Stermer, Alex	ajones	9/14/2005	Assigned

FIGURE 676. Leads List Page

2. On the Lead Management List page, click **New Lead**.
- The lead detail page displays.

COMERGENT | Lead Management
eBusiness System

[My Home](#) | [My Account](#) | [About](#) | [Help](#) | [Logout](#)

Lead: [Go To Leads List](#)

Edit Properties

Enter new lead information or change existing information. Press the 'Save' button to save the current changes. Press the 'Cancel' button to reverse current changes.

[Save & New](#) [Save](#) [Cancel](#)

* Required Fields

General Lead Information

* Lead Name: Status: Customer Type:

Date Created: Priority: --Select--

* Lead Source: * Territory: * Assign to Profile Type:

* Assign to Profile Level:

Contact Information

Title: * Address Line 1: * Phone Numbers:

* First Name: Address Line 2: [Add](#)

* Last Name: * City:

Job Title: State / Province: [Remove](#)

FIGURE 677. Lead Detail Page: General Tab

3. Enter the general lead information.

See "To Add or Modify Lead Information" on page 997.

4. Enter contact information for the lead. You can add one or more contacts for a lead.
5. Click **Save & New** to save the lead and clear the fields so you can create another new lead. Click **Save** to save the lead and display the Detail page for the new lead, so you can modify the lead.

The lead is created. At this point, you can do one or more of the following:

- Repeat the steps to create another lead (if you clicked **Save & New**).
- Create a proposal by adding products to the product list. To do this, click **Manage Proposals**. Add products, either by adding them from the product catalog or by entering them directly using the rapid-entry UI.
- Add notes about the lead.

See "To Add or View Notes About a Lead" on page 1000.

- Assign the lead to one or more partners.
See "Assigning Leads" on page 1004.

The screenshot shows the 'Edit Properties' tab for a lead named 'Western Trade Show'. The interface includes a header with the COMERGENT logo and navigation links (My Home, My Account, About, Help, Logout). Below the header, there are tabs for 'Edit Properties', 'Manage Proposals', 'Add Notes', 'Assign Lead', and 'Review Activity'. The 'Edit Properties' tab is active, displaying a form for lead information. The form is divided into two main sections: 'General Lead Information' and 'Contact Information'. The 'General Lead Information' section contains fields for Lead Name (Western Trade Show), Date Created (9/14/2005), Lead Source (Tradeshaw), Status (Low), Priority (Low), Territory (SouthWest), Customer Type (General), Assign to Profile Type (Distributor), and Assign to Profile Level (Platinum). The 'Contact Information' section contains fields for Title (Mr.), Address Line 1 (1301 Hacienda Ave), Address Line 2, First Name (Alex), Last Name (Stermer), City (Campbell), and Phone Numbers (Business: (650) 232 6800). There are 'Save' and 'Cancel' buttons at the top right of the form.

FIGURE 678. Lead Detail Page: Edit Properties Tab

To Upload a Lead

You can upload leads to the Sterling Leads application using an XML file. The file must conform to the requirements described in "Uploading Leads" on page 52.

The Automatic assign uploaded leads to their fixed recommended partners business rule determines whether uploaded leads are automatically assigned to partners. See "Automatic assign uploaded leads to their fixed recommended partners" on page 1086.

1. Click **Lead Activity** on the Channel Management panel on the Sterling Multi-Channel Selling Solution home page.

This displays the Leads Management List page.

COMERGENT eBusiness System | Lead Management

[My Home](#) | [My Account](#) | [About](#) | [Help](#) | [Logout](#)

Lead List

Find:

Lead ID [Show All](#)

All Leads Shown

[AutoAssign](#) [Assign](#) [Close](#) [New](#) [Upload](#)

[Previous](#) [Next](#)

<input type="checkbox"/>	Lead ID	Lead Name	Priority	Primary Contact	Created By	Creation Date	Status
<input type="checkbox"/>	600548	ALBERT'S NEW LEAD	Medium	Guan, Mark	ajones	9/14/2005	Unassigned
<input type="checkbox"/>	600538	Lead 24 - No Proposal Currency Code	Medium	Fong, Al	ajones	9/13/2005	Unassigned
<input type="checkbox"/>	600537	Lead 23 - No Proposal Name	Medium	Fong, Al	ajones	9/13/2005	Unassigned
<input type="checkbox"/>	600518	Lead 8 - No Lead Source	Low	Fong, Al	ajones	9/13/2005	Unassigned
<input type="checkbox"/>	600515	Lead 6 - No RecommendedPartner	Medium	Fong, Albert	ajones	9/13/2005	Unassigned
<input type="checkbox"/>	600512	Lead 4 - Allnat Corp	Medium	Fong, Albert	ajones	9/13/2005	Unassigned
<input type="checkbox"/>	600511	Lead 3 - AffinityNet	Medium	Fong, Albert	ajones	9/13/2005	Unassigned
<input type="checkbox"/>	600510	Lead 2 - ARCnet	Medium	Fong, Albert	ajones	9/13/2005	Unassigned
<input type="checkbox"/>	600509	Lead 1 - AMT System	High	Fong, Albert	ajones	9/13/2005	Unassigned
<input type="checkbox"/>	600571	Western Trade Show	Low	Stermer, Alex	ajones	9/14/2005	Assigned

FIGURE 679. Leads List Page

- On the Lead Management List page, click **Upload**.

This displays a page that enables you to specify the file location.

COMERGENT eBusiness System | Lead Management

[My Home](#) | [My Account](#) | [About](#) | [Help](#) | [Logout](#)

Lead Upload

[Go to Leads List](#)

Note (*) Items are Required.

*Format:

*Upload Lead File:

FIGURE 680. Uploading a Lead

- Select the appropriate format for the file which you want to upload.
- Click **Browse...** to find the file of leads that you want to upload.
- Click **Upload**.

The lead information is added to the system and the new lead names appear in the Lead Management List page. At this point, you can assign the leads or modify any other elements of the new leads. See "To Modify a Lead" on page 994.


Note: If you see an error page that reports a timeout error, then the leads have been created correctly, but it has taken longer than the system timeout parameter allows. You can increase the value of this timeout by navigating to the system property Commerce Manager -> Partner Request Timeout Value, and set this to a higher value such as 300 (five minutes).

To Modify a Lead

If you modify a lead after it has been assigned to partners, then the modifications that you make are not propagated to the existing partner opportunities. Your changes will be seen only by those partners to whom you assign the lead after making your changes.

- 1. Click **Lead Activity** on the Channel Management Tasks panel on the Sterling Multi-Channel Selling Solution home page.

This displays the Lead Management List page.

 **COMERGENT**
eBusiness System

Lead Management

[My Home](#) | [My Account](#) | [About](#) | [Help](#) | [Logout](#)

Lead List

Find:

Lead ID

[Search](#) [Show All](#)

All Leads Shown

[AutoAssign](#) [Assign](#) [Close](#) [New](#) [Upload](#)

[Previous](#) [Next](#)


<input type="checkbox"/>	Lead ID	Lead Name	Priority	Primary Contact	Created By	Creation Date	Status 
<input type="checkbox"/>	600548	ALBERT'S NEW LEAD	Medium	Guan, Mark	ajones	9/14/2005	Unassigned
<input type="checkbox"/>	600538	Lead 24 - No Proposal Currency Code	Medium	Fong, Al	ajones	9/13/2005	Unassigned
<input type="checkbox"/>	600537	Lead 23 - No Proposal Name	Medium	Fong, Al	ajones	9/13/2005	Unassigned
<input type="checkbox"/>	600518	Lead 8 - No Lead Source	Low	Fong, Al	ajones	9/13/2005	Unassigned
<input type="checkbox"/>	600515	Lead 6 - No RecommendedPartner	Medium	Fong, Albert	ajones	9/13/2005	Unassigned
<input type="checkbox"/>	600512	Lead 4 - Allnet Corp	Medium	Fong, Albert	ajones	9/13/2005	Unassigned
<input type="checkbox"/>	600511	Lead 3 - AffinityNet	Medium	Fong, Albert	ajones	9/13/2005	Unassigned
<input type="checkbox"/>	600510	Lead 2 - ARCnet	Medium	Fong, Albert	ajones	9/13/2005	Unassigned
<input type="checkbox"/>	600509	Lead 1 - AMT System	High	Fong, Albert	ajones	9/13/2005	Unassigned
<input type="checkbox"/>	600571	Western Trade Show	Low	Stermer, Alex	ajones	9/14/2005	Assigned

FIGURE 681. Leads List Page

- 2. In the Lead Name column, find the lead you want to modify.

3. Click on the lead name.

This displays the lead detail page.

The screenshot shows the 'COMERGENT eBusiness System' interface for 'Lead Management'. The page title is 'Lead: Western Trade Show'. There are navigation links: 'My Home', 'My Account', 'About', 'Help', and 'Logout'. Below the title, there are tabs: 'Edit Properties', 'Manage Proposals', 'Add Notes', 'Assign Lead', and 'Review Activity'. The 'Edit Properties' tab is active. A message states: 'Enter new lead information or change existing information. Press the 'Save' button to save the current changes. Press the 'Cancel' button to reverse current changes.' There are 'Save' and 'Cancel' buttons. A note indicates '* Required Fields'. The form is divided into two sections: 'General Lead Information' and 'Contact Information'. The 'General Lead Information' section includes fields for 'Lead Name' (Western Trade Show), 'Status' (dropdown), 'Customer Type' (General), 'Date Created' (9/14/2005), 'Priority' (Low), 'Lead Source' (Tradeshow), 'Territory' (SouthWest), 'Assign to Profile Type' (Distributor), and 'Assign to Profile Level' (Platinum). The 'Contact Information' section includes fields for 'Title' (Mr.), 'Address Line 1' (1301 Hacienda Ave), 'Address Line 2' (empty), 'City' (Campbell), 'First Name' (Alex), 'Last Name' (Sterner), 'Phone Numbers' (Business: (650) 232 6800), and an 'Add' button. There are also links for 'New', 'Duplicate', 'Previous', and 'Next'.

FIGURE 682. Lead Detail Page: Edit Properties Tab

At this point, you can modify the following information about a lead:


- Enter or modify general lead information.
See "To Add or Modify Lead Information" on page 997.
- Add or modify contact information.
- Add or remove products from the product list.
- Add or view notes about the lead.
See "To Add or View Notes About a Lead" on page 1000.
- Assign the lead to one or more partners.
See "Assigning Leads" on page 1004.
- View any activity on the lead by partners.
See "Viewing Partner Activity" on page 1011.

To Search for a Lead

You can use the fields at the top of the Leads Management List page to search for a specific lead.

1. Click **Lead Activity** on the Channel Management Tasks panel on the Sterling Multi-Channel Selling Solution home page.

This displays the Lead Management List page.

 **COMERGENT**
eBusiness System

Lead Management

[My Home](#) | [My Account](#) | [About](#) | [Help](#) | [Logout](#)

Lead List

Find:

Lead ID

[Search](#) [Show All](#)

All Leads Shown

[AutoAssign](#) [Assign](#) [Close](#) [New](#) [Upload](#)

[Previous](#) [Next](#)


<input type="checkbox"/>	Lead ID	Lead Name	Priority	Primary Contact	Created By	Creation Date	Status 
<input type="checkbox"/>	600548	ALBERT'S NEW LEAD	Medium	Guan, Mark	ajones	9/14/2005	Unassigned
<input type="checkbox"/>	600538	Lead 24 - No Proposal Currency Code	Medium	Fong, Al	ajones	9/13/2005	Unassigned
<input type="checkbox"/>	600537	Lead 23 - No Proposal Name	Medium	Fong, Al	ajones	9/13/2005	Unassigned
<input type="checkbox"/>	600518	Lead 8 - No Lead Source	Low	Fong, Al	ajones	9/13/2005	Unassigned
<input type="checkbox"/>	600515	Lead 6 - No RecommendedPartner	Medium	Fong, Albert	ajones	9/13/2005	Unassigned
<input type="checkbox"/>	600512	Lead 4 - Allnet Corp	Medium	Fong, Albert	ajones	9/13/2005	Unassigned
<input type="checkbox"/>	600511	Lead 3 - AffinityNet	Medium	Fong, Albert	ajones	9/13/2005	Unassigned
<input type="checkbox"/>	600510	Lead 2 - ARCnet	Medium	Fong, Albert	ajones	9/13/2005	Unassigned
<input type="checkbox"/>	600509	Lead 1 - AMT System	High	Fong, Albert	ajones	9/13/2005	Unassigned
<input type="checkbox"/>	600571	Western Trade Show	Low	Stermer, Alex	ajones	9/14/2005	Assigned

FIGURE 683. Leads List Page

2. Select a criteria for the search from the drop-down list.

COMERGENT | Lead Management
eBusiness System

[My Home](#) | [My Account](#) | [About](#) | [Help](#) | [Logout](#)

Lead List

Find:

Lead ID

All Leads Shown

[Previous](#) [Next](#)

<input type="checkbox"/>	Lead ID	Lead Name	Priority	Primary Contact	Created By	Creation Date	Status
<input type="checkbox"/>	600548	ALBERT'S NEW LEAD	Medium	Guan, Mark	ajones	9/14/2005	Unassigned
<input type="checkbox"/>	600538	Lead 24 - No Proposal Currency Code	Medium	Fong, Al	ajones	9/13/2005	Unassigned
<input type="checkbox"/>	600537	Lead 23 - No Proposal Name	Medium	Fong, Al	ajones	9/13/2005	Unassigned
<input type="checkbox"/>	600518	Lead 8 - No Lead Source	Low	Fong, Al	ajones	9/13/2005	Unassigned
<input type="checkbox"/>	600515	Lead 6 - No RecommendedPartner	Medium	Fong, Albert	ajones	9/13/2005	Unassigned
<input type="checkbox"/>	600512	Lead 4 - Allnat Corp	Medium	Fong, Albert	ajones	9/13/2005	Unassigned
<input type="checkbox"/>	600511	Lead 3 - AffinityNet	Medium	Fong, Albert	ajones	9/13/2005	Unassigned
<input type="checkbox"/>	600510	Lead 2 - ARCnet	Medium	Fong, Albert	ajones	9/13/2005	Unassigned
<input type="checkbox"/>	600509	Lead 1 - AMT System	High	Fong, Albert	ajones	9/13/2005	Unassigned
<input type="checkbox"/>	600571	Western Trade Show	Low	Stermer, Alex	ajones	9/14/2005	Assigned

FIGURE 684. Searching for Leads

- In the field next to the drop down list, type a search string or select a value from the drop-down list.

The search is case insensitive and you can use an asterisk (*) to perform wildcard searches.

- Click **Search**.

Note: You can click **Show All** to display all the leads.

To Add or Modify Lead Information

When you create ("To Create a Lead" on page 989) or modify ("To Modify a Lead" on page 994) a lead, you can enter or modify lead information.

* Required Fields

General Lead Information			
* Lead Name: <input type="text" value="Second Enterprise Lead"/>	Status: <input type="text" value="Assigned"/>	Customer Type: <input type="text" value="General"/>	
Date Created: <input type="text" value="10/21/2003"/>	Priority: <input type="text" value="Low"/>	* Assign to Profile Type: <input type="text" value="Distributor"/>	
* Lead Source: <input type="text" value="Phone"/>	* Territory: <input type="text" value="NorthWest"/>	* Assign to Profile Level: <input type="text" value="Platinum"/>	

FIGURE 685. Lead Detail Page: General Lead Information

1. In the upper part of the page, enter the General Lead Information, as described in Table 66 on page 998.

In the opportunity page, required fields are marked with an asterisk (*). At any time, you can click **Cancel** to clear any new or modified information and begin again.

TABLE 66. General Lead Information

Field	Description
Lead Name	Name of the Lead
Date Created	The date the lead was created. System-generated and read-only. If you are creating a lead, then this field is empty.
Lead Source	Where the lead came from: Phone, Tradeshow, Fax, Website
Status	<p>Lead Status. This field is read-only. Values are Unassigned, Assigned, Working, and Closed.</p> <p>An Unassigned Lead is a lead that has not yet been assigned to a partner.</p> <p>An Assigned Lead is one which has been assigned to a partner, and which the partner has neither accepted nor declined.</p> <p>A Working Lead is one which has been assigned to and accepted by a partner.</p> <p>A Closed Lead is one which has been closed by the Enterprise Lead Administrator. See "To Close a Lead" on page 1014.</p>
Priority	The priority of the lead.
Territory	The territory to which the lead belongs
Customer Type	The vertical market to which the lead belongs
Assign To Profile Type	The profile type to whom the lead should be assigned: distributor, OEM, reseller, retailer. (Note: this list is customizable.)
Assign To Profile Level	The level of the profile to whom the lead should be assigned: platinum, gold, silver, tin. (Note: this list is customizable.)

Contact Information

[New](#) [Duplicate](#) Previous: 1 out of 1 Next

Title:

* Address Line 1: * Phone Numbers

* First Name: Address Line 2: Business:

* Last Name: * City: Business: (650) 232 6000

Job Title: State / Province:

Department: * Postal Code:

Company: * Country:

☒ Use as Primary Contact Email:

To Add: select phone type (e.g. Fax) and then click Add
To Remove: select phone number from list and then click Remove

FIGURE 686. Lead Detail Page: Contact Information

2. In the lower part of the Lead page, enter the contact information, as described in Table 67 on page 999.

In the Lead Header General tab, required fields are marked with an asterisk (*).

TABLE 67. Contact Information

Field	Description
Title	The title of the lead contact (Mr., Mrs., and so on)
First Name	The first name of the lead contact
Last Name	The last name of the lead contact
Job Title	The job title for the lead contact
Department	The department to which the lead contact belongs at their company
Company	The company to which the contact belongs
Use as Primary Contact	Every lead must have one contact designated as the primary contact
Address Line 1	First line for an address. (In the United States, this is normally the street address.)
Address Line 2	Second line for an address. (In the United States, this is normally the apartment or mailstop.)
City	The city for the address
State/Province	The state for the address
Postal Code	The postal code for the address
Country	The country for the address

TABLE 67. Contact Information (Continued)

Field	Description
Email	The email address for the lead contact

3. Enter one or more phone numbers for the contact.
 - a. Select the type of phone number from the drop-down list.
 - b. Enter the phone number in the entry field.
 - c. Click **Add**.
 - d. Repeat these steps for each number you want to add.

To remove a phone number, select the number in the list, then click **Remove**.

4. Click **Save**.

The information is saved and the Lead Header page is re-displayed.

At this point, you can do one or more of the following:

- Add another contact or modify another contact.
- Add notes about the lead.

See "To Add or View Notes About a Lead" on page 1000.

- Assign the lead to one or more partners.
See "Assigning Leads" on page 1004.
- Add products to the lead product list.

To Add or View Notes About a Lead

When you modify ("To Modify a Lead" on page 994) a lead, you can add notes about the lead. In addition, notes can be generated by the system automatically when the lead is assigned or accepted.

The screenshot shows the 'COMERGENT eBusiness System' interface. At the top, there's a navigation bar with links: 'My Home', 'My Account', 'About', 'Help', and 'Logout'. Below this, the page title is 'Lead: Western Trade Show' with a link 'Go To Leads List'. A secondary navigation bar contains tabs: 'Edit Properties' (selected), 'Manage Proposals', 'Add Notes', 'Assign Lead', and 'Review Activity'. A message states: 'Enter new lead information or change existing information. Press the 'Save' button to save the current changes. Press the 'Cancel' button to reverse current changes.' Below this are 'Save' and 'Cancel' buttons. The main form is divided into two sections: 'General Lead Information' and 'Contact Information'. The 'General Lead Information' section includes fields for 'Lead Name' (Western Trade Show), 'Status' (dropdown), 'Customer Type' (General), 'Date Created' (9/14/2005), 'Priority' (Low), 'Lead Source' (Tradeshow), 'Territory' (SouthWest), 'Assign to Profile Type' (Distributor), and 'Assign to Profile Level' (Platinum). The 'Contact Information' section includes a 'Title' dropdown (Mr.), 'Address Line 1' (1301 Hacienda Ave), 'Address Line 2' (empty), 'City' (Campbell), 'Phone Numbers' (Business: (650) 232 6800), and 'First Name' (Alex). There are also links for 'New', 'Duplicate', 'Previous', and 'Next'.

FIGURE 687. Lead Detail Page: Edit Properties Tab

1. On the Lead Detail page, click **Add Notes**.

This displays a list of the current notes as well as a text field for adding additional notes. The window displays all notes, system-generated as well as user-generated.

By default the notes are sorted by date. You can sort the Date column in ascending or descending order by clicking the triangle in the Date column. You can also sort by Company or Created By.

The screenshot shows the COMERGENT eBusiness System interface. At the top, there's a navigation bar with links: My Home, My Account, About, Help, and Logout. Below this, the page title is 'Lead: Western Trade Show' with a link 'Go To Leads List'. A secondary navigation bar contains tabs: Edit Properties, Manage Proposals, Add Notes (which is highlighted), Assign Lead, and Review Activity. The main content area has a text box for entering a new note, an 'Add Note' button, and a table of existing notes.

Enter a new note in the textbox and click the 'Add Note' button to save the note.

Lead Notes

Date	Note	Organization	Created By
9/14/2005	Lead accepted by dtensor.	DataSolve	System
9/14/2005	Lead has been assigned by ajones to DataSolve.	Enterprise	System
9/14/2005	Lead created by ajones.	Enterprise	System

[Back to Top](#)

FIGURE 688. Lead Detail Page: Add Notes Tab

2. In the Lead Notes field, enter the note you want to add.
3. Click **Add Note**.

The note is added to the list.

To Add Product Information to a Lead

One of the main things that you want to communicate to your partners is which of your products the contact is interested in. You do this by adding them to the product list associated with the lead.

1. On the Lead Detail page, click **Manage Proposals**.

COMERGENT | Lead Management
eBusiness System

My Home | My Account | About | Help | Logout

Lead: Western Trade Show [Go To Leads List](#)

[Edit Properties](#) [Manage Proposals](#) [Add Notes](#) [Assign Lead](#) [Review Activity](#)

Name: Western Trade Show
Customer Type: General
Currency: USD
Last Modified: 9/14/2005
Status: New
Expiration Date:
User Name: [Jones, Alison](#)
Organization: [Enterprise](#)

Percent Discount: Total Price: **\$0.000**
Absolute Discount: **\$0.000** Total Margin: **\$0.000**

Use this page to prepare your proposal.
You can adjust the prices that are presented to your contact using the Uplift and Discount fields: the uplift is applied to the list price extended to you, and the discount is applied to the uplifted price. When you print the proposal, only the discounted price is displayed. Major Line items can be marked Below the Line (BTL) to indicate that they are not part of the formal proposal but might be items of interest for the user. Minor lines can be marked Do Not Display (DND) when they are part of the proposal but they should not be displayed in the print view of the proposal.
Use the Calculate button to try out different combinations of uplifts and discounts. Save your final uplift and discount choices by clicking Save.

[Continue Shopping](#) [Help Me Find Products](#) [Enter Product IDs](#)

[Compare](#) [Remove](#) [Calculate](#) [Save](#)

BTL/DND	Name	Product ID	Supplier	Price	Qty	Ext. Price	Status

FIGURE 689. Lead Detail Page: Manage Proposals Tab

2. You can add products to the product list in the following ways:
 - Click **Add from Catalog**, and navigate to the product(s) using the standard catalog navigation pages.
 - Click **Help Me Find Products**, and select the product(s) using the Sterling Advisor questionnaire.
 - Click **Enter Product IDs**, and add the product(s) using the rapid-entry form provided.

When you assign this lead to a partner, then products that you add to the product list will appear on the partner's opportunity product list.

3. You can remove products by checking the check box next to the product ID, and clicking **Remove**.
4. If you want to indicate that a product is to marked "below the line", then check the BTL check box and click **Save**.

You can use the below the line (BTL) flag to include products as suggestions in a lead. BTL products are not automatically part of an order placed from a lead, but they can be moved to "above the line" by the end-user and hence become part of the order.

Assigning Leads

You can assign a lead manually, or you can let the system assign the lead automatically. Refer to "To Assign a Lead Automatically" on page 1009 for details about automatic assignment.

There are two ways to assign a lead manually:

- You can select one or more leads from the Leads Management List, then choose the partner (or partners) to whom you want to assign them: see "To Assign Leads Manually from the Leads Management List" on page 1004.
- You can also access the lead detail page for a particular lead, then assign that single lead from the Assignments tab: see "To Assign a Lead Manually from Lead Header Page" on page 1007.

To Assign Leads Manually from the Leads Management List

1. Click **Lead Activity** on the Channel Management Tasks panel on the Sterling Multi-Channel Selling Solution home page.

This displays the Leads Management List.

The screenshot shows the 'Lead Management' page of the COMERGENT eBusiness System. The page has a navigation bar with links: My Home, My Account, About, Help, and Logout. Below the navigation bar is the 'Lead List' section. It includes a search box with a 'Find:' label, a dropdown for 'Lead ID', and buttons for 'Search' and 'Show All'. Below the search box are buttons for 'AutoAssign', 'Assign', 'Close', 'New', and 'Upload'. The main content is a table of leads with columns: Lead ID, Lead Name, Priority, Primary Contact, Created By, Creation Date, and Status. The table contains 11 rows of lead data.

Lead ID	Lead Name	Priority	Primary Contact	Created By	Creation Date	Status
600548	ALBERT'S NEW LEAD	Medium	Guan, Mark	ajones	9/14/2005	Unassigned
600538	Lead 24 - No Proposal Currency Code	Medium	Fong, Al	ajones	9/13/2005	Unassigned
600537	Lead 23 - No Proposal Name	Medium	Fong, Al	ajones	9/13/2005	Unassigned
600518	Lead 8 - No Lead Source	Low	Fong, Al	ajones	9/13/2005	Unassigned
600515	Lead 6 - No Recommended Partner	Medium	Fong, Albert	ajones	9/13/2005	Unassigned
600512	Lead 4 - Allnet Corp	Medium	Fong, Albert	ajones	9/13/2005	Unassigned
600511	Lead 3 - AffinityNet	Medium	Fong, Albert	ajones	9/13/2005	Unassigned
600510	Lead 2 - ARCnet	Medium	Fong, Albert	ajones	9/13/2005	Unassigned
600509	Lead 1 - AMT System	High	Fong, Albert	ajones	9/13/2005	Unassigned
600571	Western Trade Show	Low	Stermer, Alex	ajones	9/14/2005	Assigned

FIGURE 690. Leads List Page

2. In the list, find the lead(s) that you want to assign to one or more partners.
See "To Search for a Lead" on page 996 for information on finding leads.
3. Click the check box to the left of the Lead Id.
4. Repeat the last two steps for each lead you want to assign.

Attention: If you check the box next to one or more leads, and then search for a lead before you click **Assign**, then the leads you selected will become unselected. Likewise, if you click either **Show All**, **Next**, or **Previous**, before you click **Assign**, then the leads you selected become unselected.

5. Click **Assign**.

If you have selected only one lead, then the Assign Lead tab of the Lead header is displayed. This displays the list of partners to whom you can assign this lead.

The screenshot shows the 'COMERGENT eBusiness System' interface. The main header is 'Lead Management'. Below it, the breadcrumb is 'Lead: Lead 2 for the Enterprise'. The navigation bar includes 'Edit Properties', 'Manage Proposals', 'Add Notes', 'Assign Lead' (which is highlighted), and 'Review Activity'. The 'Assign Lead' section contains a 'Find Organization' search box with a dropdown menu and buttons for 'Search', 'Show All', and 'Show Recommended'. Below this is a 'Fixed Recommended organization' section with a link 'Assign to this Partner' and a note: 'Check the box by the organization or organizations that the lead should be assigned to. Then press the 'Assign' button to commit the assignment.' There is an 'Assign' button and a list of organizations with checkboxes, profile types, and levels. The list is as follows:

<input type="checkbox"/>	Organization	Profile Type	Profile Level	Status
<input type="checkbox"/>	A1	Distributor	Platinum	
<input type="checkbox"/>	AllNet Corp	Distributor	Silver	
<input type="checkbox"/>	Andere1	Distributor	Silver	
<input type="checkbox"/>	CompuNet	Reseller	Gold	
<input type="checkbox"/>	DataLinq	Distributor	Platinum	
<input type="checkbox"/>	DataSolve	Reseller	Gold	
<input type="checkbox"/>	DataSolve Western Division	Reseller	Gold	

FIGURE 691. Lead Detail Page: Assign Lead Tab

If you have selected more than one lead, then a general Assignments page is displayed. This displays the list of partners to whom you can assign the selected leads.

COMERGENT | Lead Management
eBusiness System

[My Home](#) | [My Account](#) | [About](#) | [Help](#) | [Logout](#)

Lead: [Go To Leads List](#)

Assignments

Find Organization:

Organization [Search](#) [Show All](#) [Show Recommended](#)

Check the box by the organization or organizations that the lead should be assigned to. Then press the 'Assign' button to commit the assignment.

All Organizations Shown

[Assign](#)

Previous [Next](#)

<input type="checkbox"/>	Organization ↗	Profile Type	Profile Level	Status
<input type="checkbox"/>	A1	Distributor	Platinum	
<input type="checkbox"/>	AllNet Corp	Distributor	Silver	
<input type="checkbox"/>	Andereel	Distributor	Silver	
<input type="checkbox"/>	CompuNet	Reseller	Gold	
<input type="checkbox"/>	DataLink	Distributor	Platinum	
<input type="checkbox"/>	DataSolve	Reseller	Gold	
<input type="checkbox"/>	DataSolve Western Division	Reseller	Gold	
<input type="checkbox"/>	Dexus Communication	Reseller	Gold	

FIGURE 692. Leads Assignments Page

In either case, the list displays only those partners who have a sales executive: that is, a partner user to whom the Sales Executive function has been assigned. See "Assigning Functions for Managing Leads" on page 51.

6. In the Partner Name column, find the partner(s) to whom you want to assign the lead.

You can search for a particular partner name. Enter the name of the partner in the Search Partner Name for field, then click **Search**. You can use an asterisk (*) to do a wildcard search.

If you are assigning only one lead, then you can click **Show Recommended** to display a list of partners filtered according to a set of criteria defined in the Lead Management Recommended Partner Search Attributes business rule. The criteria includes one to four attributes (partner type, partner level, territory, and customer type). You choose one of these attributes when creating a lead (see Table 66, "General Lead Information", on page 998). The system recommends partners whose attributes (as defined in their partner profile) match the same attributes in the lead.

You can click **Show All** to re-display the list of all partners that have a sales executive user.

- Click the check box to the left of each partner name to whom you want to assign the lead.

If there is no check box to the left of the partner, then that partner has already been assigned the lead.

Attention: If you check the box next to one or more partners, then search for a partner before you click **Assign**, the partners you selected will become unselected. Likewise, if you click either **Show All**, **Show Recommended Partners**, **Next**, or **Previous**, before you click **Assign**, then the partners you selected become unselected.

- Click **Assign**.

The lead(s) you selected are assigned to the partner (or partners) you selected.

To Assign a Lead Manually from Lead Header Page

When you create ("To Create a Lead" on page 989) or modify ("To Modify a Lead" on page 994) a lead, you can assign the lead to one or more partners from the Leads Management Detail page.

- Navigate to the lead that you want to assign.

The screenshot displays the 'COMERGENT eBusiness System' interface for 'Lead Management'. The page title is 'Lead: Western Trade Show'. A navigation bar includes links for 'My Home', 'My Account', 'About', 'Help', and 'Logout'. Below the title, there are tabs for 'Edit Properties', 'Manage Proposals', 'Add Notes', 'Assign Lead', and 'Review Activity'. The 'Edit Properties' tab is active, showing a form to enter or change lead information. The form includes sections for 'General Lead Information' and 'Contact Information'. In the 'General Lead Information' section, fields include 'Lead Name' (Western Trade Show), 'Status' (dropdown), 'Customer Types' (General), 'Date Created' (9/14/2005), 'Priority' (Low), 'Lead Source' (Tradeshows), 'Territory' (SouthWest), 'Assign to Profile Type' (Distributor), and 'Assign to Profile Level' (Platinum). The 'Contact Information' section includes fields for 'Title' (Mr.), 'Address Line 1' (1301 Hacienda Ave), 'Address Line 2' (empty), 'City' (Campbell), 'Phone Numbers' (Business: (650) 232 6800), and 'First Name' (Alex). There are 'Save' and 'Cancel' buttons at the top right of the form area.

FIGURE 693. Lead Detail Page: Edit Properties Tab

1. Click **Assign Lead**.

This displays a list of the partners to whom you can assign this lead. The list displays only those partners who have a partner sales manager.

You can click **Show Recommended** to display the list of recommended partners. The recommended list of partners is filtered according to a set of criteria defined in the Lead Management Recommended Partner Search Attributes business rule. The criteria includes one to four attributes (profile type, profile level, profile territories, and customer type). You choose one of these attributes when creating a lead (see Table 66, "General Lead Information", on page 998). The system recommends partners whose attributes (as defined in their profile) match the same attributes in the lead.

You can click **Show All** to re-display the list of all partners that have a partner sales manager.

COMERGENT | Lead Management
eBusiness System

My Home | My Account | About | Help | Logout

Lead: Lead 2 for the Enterprise [Go To Leads List](#)

Edit Properties | Manage Proposals | Add Notes | **Assign Lead** | Review Activity

Find Organization:
 Organization [Show All](#) [Show Recommended](#)

Fixed Recommended organization:
[Assign to this Partner](#)

Check the box by the organization or organizations that the lead should be assigned to. Then press the 'Assign' button to commit the assignment.

All Organizations Shown

Previous [Next](#)

<input type="checkbox"/>	Organization	Profile Type	Profile Level	Status
<input type="checkbox"/>	A1	Distributor	Platinum	
<input type="checkbox"/>	AllNet Corp	Distributor	Silver	
<input type="checkbox"/>	Andere1	Distributor	Silver	
<input type="checkbox"/>	CompuNet	Reseller	Gold	
<input type="checkbox"/>	DataLink	Distributor	Platinum	
<input type="checkbox"/>	DataSolve	Reseller	Gold	
<input type="checkbox"/>	DataSolve Western Division	Reseller	Gold	

FIGURE 694. Lead Detail Page: Assign Lead Tab

2. In the Partner Name column, find the partner to whom you want to assign the lead.

If the partner is greyed-out, then that partner has already been assigned the lead.

You can search for a particular partner name. Enter the name of the partner in the Search Partner Name for field, then click **Search**. You can use an asterisk (*) to do a wildcard search.

3. Click the check box to the left of each partner name to whom you want to assign the lead.
4. Repeat the last two steps for each partner to whom you want to assign the lead.

Attention: If you check the box next to a partner, then search for a partner before you click Assign , the partners you selected will become unselected. Likewise, if you click either Show All , Show Recommended Partners , Next , or Previous , before you click Assign , then the partners you selected become unselected.

5. Click **Assign**.

The lead is assigned to the partner (or partners you selected).

To Assign a Lead Automatically

You can provide for automatic lead assignment by defining partner criteria in a business rule.

1. Click **Lead Activity** on the Channel Management Tasks panel in the Sterling Multi-Channel Selling Solution home page.

This displays the Leads Management List.

2. In the list, find the lead that you want to assign to a partner.

See "To Search for a Lead" on page 996 for information about searching.

3. Click the check box to the left of the Lead Id column.
4. Repeat the last two steps for each lead you want to assign.

Attention: If you check the box next to a lead, then search for a lead before you click Auto Assign , the leads you selected will become unselected. Likewise, if you click either Show All , Show Recommended Partners , Next , or Previous , before you click Auto Assign , then the leads you selected become unselected.

5. Click **Auto Assign**.

The Sterling Multi-Channel Selling Solution assigns the selected leads automatically to those partners defined by the business rule criteria. See "Assigning Leads" on page 52 for explanation of this business rule.

You can set a business rule (see "Lead Management Number of Recommended Partners/Users for Popup" on page 1086) so that a confirmation page is displayed for each lead that is being automatically assigned. This page displays the partners to which the lead(s) will be automatically assigned. If this page is displayed, then uncheck the box(es) next to the partner(s) to whom you do not want to assign the lead, then click **Assign** (to confirm). You can click **Cancel** to cancel the auto-assignment for the specific lead for which the page appears.

Note: The confirmation page only displays partners for whom a user has been created with the SalesExecutive function.

To Retract a Lead

On occasion, you may wish to retract an opportunity from a partner to whom you have assigned it. Retracting an opportunity has the effect of making the opportunity read-only for the partner sales executive and the sales representative to whom the opportunity has been delegated. You can re-assign a lead that you have retracted.

1. Click **Lead Activity** in the Channel Management Tasks panel on the Sterling Multi-Channel Selling Solution home page.

This displays the Leads List page.

2. Identify the lead that you want to retract and click the link to its lead detail page.
3. On the Lead Detail page, click **Partner Activity**.

The screenshot shows the COMERGENT eBusiness System interface. The top navigation bar includes links for My Home, My Account, About, Help, and Logout. The main header indicates the current lead is 'Western Trade Show' with a 'Go To Leads List' link. Below this is a tabbed interface with options: Edit Properties, Manage Proposals, Add Notes, Assign Lead, and Review Activity (which is selected). The Review Activity tab displays a list of organizations assigned to the lead. A message states: 'Below is a list of organization or organizations that the lead is assigned. In order to view detail information, select the 'View Details' link for the appropriate organization.' The table below lists the assigned organizations.

Organization	Sales Rep	Assigned Date	Status	Retract	
DataSolve	mccott	9/14/2005	Accepted	<input checked="" type="checkbox"/>	View Details

At the bottom left, there is a 'Back to Top' link.

FIGURE 695. Lead Detail Page: Review Activity Tab

4. Identify the partner(s) from whom you want to retract the lead.
5. Click **Retract** in their row.

The Status of the opportunity changes to Retracted. If the assigned sales representative now views the opportunity, then they will see it only as a read-only object. You can re-assign this lead to the partner later if you want to.


Viewing Partner Activity

You can view any activity performed by a partner to whom the lead is assigned. For example, when the partner sales representative speaks with the opportunity contact, they may create a proposal or modify. You can view the proposals created by the partner sales representatives when you view partner activity. You can also view any notes entered by the partner sales representative about the opportunity.

To View Partner Activity

1. Click **Lead Activity** in the Channel Management Tasks panel on the Sterling Multi-Channel Selling Solution home page.

This displays the Leads Management List page.

 **COMERGENT**
eBusiness System

Lead Management

[My Home](#) | [My Account](#) | [About](#) | [Help](#) | [Logout](#)

Lead List

Find:

Lead ID

Search

Show All

All Leads Shown

AutoAssign

Assign

Close

New

Upload

Previous

Next

<input type="checkbox"/>	Lead ID	Lead Name	Priority	Primary Contact	Created By	Creation Date	Status
<input type="checkbox"/>	600548	ALBERT'S NEW LEAD	Medium	Guan, Mark	ajones	9/14/2005	Unassigned
<input type="checkbox"/>	600538	Lead 24 - No Proposal Currency Code	Medium	Fong, Al	ajones	9/13/2005	Unassigned
<input type="checkbox"/>	600537	Lead 23 - No Proposal Name	Medium	Fong, Al	ajones	9/13/2005	Unassigned
<input type="checkbox"/>	600518	Lead 8 - No Lead Source	Low	Fong, Al	ajones	9/13/2005	Unassigned
<input type="checkbox"/>	600515	Lead 6 - No RecommendedPartner	Medium	Fong, Albert	ajones	9/13/2005	Unassigned
<input type="checkbox"/>	600512	Lead 4 - Allnat Corp	Medium	Fong, Albert	ajones	9/13/2005	Unassigned
<input type="checkbox"/>	600511	Lead 3 - AffinityNet	Medium	Fong, Albert	ajones	9/13/2005	Unassigned
<input type="checkbox"/>	600510	Lead 2 - ARCnet	Medium	Fong, Albert	ajones	9/13/2005	Unassigned
<input type="checkbox"/>	600509	Lead 1 - AMT System	High	Fong, Albert	ajones	9/13/2005	Unassigned
<input type="checkbox"/>	600571	Western Trade Show	Low	Stermer, Alex	ajones	9/14/2005	Assigned

FIGURE 696. Leads List Page

2. In the Lead Name column, find the lead whose partner activity you want to view.

See "To Search for a Lead" on page 996 for information about searching.

3. Click the lead name to display the Lead Detail page.
4. Click **Review Activity**.

This displays the Review Activity tab which contains a list of the partners to whom leads have been assigned.

COMERGENT | Lead Management
eBusiness System

My Home | My Account | About | Help | Logout

Lead: Western Trade Show [Go To Leads List](#)

Edit Properties | Manage Proposals | Add Notes | Assign Lead | **Review Activity**

Below is a list of organization or organizations that the lead is assigned. In order to view detail information, select the 'View Details' link for the appropriate organization.

Organization	Sales Rep	Assigned Date	Status	Retract	
DataSolve	mccott	9/14/2005	Accepted	<input checked="" type="checkbox"/>	View Details

[Back to Top](#)

FIGURE 697. Lead Detail Page: Review Activity Tab

- Find the partner whose activity you want to view.
- In the right-most column, click **View Details**.

This displays the Opportunity Detail window.

COMERGENT | Lead Management
eBusiness System

My Home | My Account | About | Help | Logout

Opportunity: Western Trade Show [Organization: DataSolve] [Go To Leads List](#)

Edit Properties | Manage Proposals | **Add Notes**

Organization Information

Organization Name: DataSolve	Representative's Phone: 610-6853 (business)
Representative's First Name: Mike	Representative's Email: mccott@icmsolutions.com
Representative's Last Name: Scott	

General Opportunity Information

Opportunity Name: Western Trade Show	Status: Accepted
Date Created: 9/14/2005	Expected Close Date:
Priority: Low	Expected Revenue:
Customer Type: General	Probability of Sale: 50
* Lead Source: Tradeshov	Budget Price: N/A
	Budget Approved:

FIGURE 698. Opportunity Detail Page: Edit Properties Tab

The opportunity information is derived from the information entered when the lead was created. The partner information is derived from the information about either the partner sales manager or partner sales representative.

7. Click **Manage Proposals** to display a list of products associated with the lead.
After the enterprise lead administrator creates and assigns the lead, the partner manages their opportunity and creates a proposal for the contact.
8. Click **Add Notes** to view notes about the partner activity.

Closing a Lead

Once you determine that a lead has been fulfilled, you can use these steps to close a lead. Typically, you would close a lead when you view partner activity for a lead (see "Viewing Partner Activity" on page 1011) and see that the opportunity status for one or more partners is Closed.

To Close a Lead

1. Click **Lead Activity** in the Channel Management Tasks panel on the Sterling Multi-Channel Selling Solution home page.

This displays the Lead Management List page.

COMERGENT

eBusiness System

Lead Management

My Home

My Account

About

Help

Logout

Lead List

Find:

Lead ID

Search

Show All

All Leads Shown

AutoAssign

Assign

Close

New

Upload

Previous

Next

<input type="checkbox"/>	Lead ID	Lead Name	Priority	Primary Contact	Created By	Creation Date	Status	
<input type="checkbox"/>	600548	ALBERT'S NEW LEAD	Medium	Guan, Mark	ajones	9/14/2005	Unassigned	
<input type="checkbox"/>	600538	Lead 24 - No Proposal Currency Code	Medium	Fong, Al	ajones	9/13/2005	Unassigned	
<input type="checkbox"/>	600537	Lead 23 - No Proposal Name	Medium	Fong, Al	ajones	9/13/2005	Unassigned	
<input type="checkbox"/>	600518	Lead 8 - No Lead Source	Low	Fong, Al	ajones	9/13/2005	Unassigned	
<input type="checkbox"/>	600515	Lead 6 - No RecommendedPartner	Medium	Fong, Albert	ajones	9/13/2005	Unassigned	
<input type="checkbox"/>	600512	Lead 4 - Allnet Corp	Medium	Fong, Albert	ajones	9/13/2005	Unassigned	
<input type="checkbox"/>	600511	Lead 3 - AffinityNet	Medium	Fong, Albert	ajones	9/13/2005	Unassigned	
<input type="checkbox"/>	600510	Lead 2 - ARCnet	Medium	Fong, Albert	ajones	9/13/2005	Unassigned	
<input type="checkbox"/>	600509	Lead 1 - AMT System	High	Fong, Alex	ajones	9/13/2005	Unassigned	
<input type="checkbox"/>	600571	Western Trade Show	Low	Stermer, Alex	ajones	9/14/2005	Assigned	

FIGURE 699. Leads List Page

2. In the list, find the lead that you want to close.

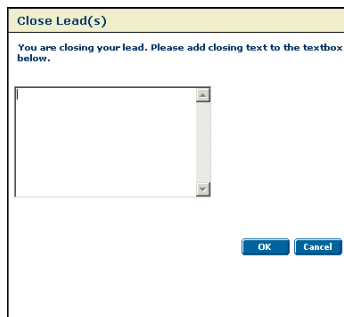
See "To Search for a Lead" on page 996 for information about finding leads.

3. Click the check box to the left of the Lead ID.
4. Repeat the last two steps for each lead you want to close.

<p>Attention: If you check the box next to a lead, then search for a lead before you click Close, then the leads you selected will become unselected. Likewise, if you click either Show All, Show Recommended Partners, Next, or Previous, before you click Close, then the leads you selected become unselected.</p>

5. Click **Close**.

A confirmation popup appears that enables you to enter a reason for closing the lead.



The image shows a confirmation popup window titled "Close Lead(s)". Inside the window, there is a message: "You are closing your lead. Please add closing text to the textbox below." Below this message is a large, empty text area with a vertical scrollbar on the right side. At the bottom right of the window, there are two buttons: "OK" and "Cancel".

FIGURE 700. Closing a Lead: Confirmation Popup

6. Enter a reason and click **OK**.

The lead status is changed to "Closed".

This chapter covers the tasks associated with managing email campaigns. See "Campaigns Management" on page 56 for an overview of campaigns and "Mailing Lists Management" on page 56 for an overview of mailing lists.

Before creating any campaigns, create the cron job necessary to run campaigns. See "Campaigns Cron Job" on page 1026.

This chapter covers the following topics:

- "Creating and Modifying Campaigns" on page 1017
- "Mailing Lists" on page 1022
- "Campaigns Cron Job" on page 1026

Creating and Modifying Campaigns

Campaign administrators can add campaigns to the system and manage existing ones.

To Create a Campaign

1. Click **Campaigns** in the Channel Management panel on the Sterling Multi-Channel Selling Solution home page.

The Campaigns List page displays.

sterling commerce
An AT&T Company

Campaigns

[My Home](#) | [My Account](#) | [About](#) | [Help](#) | [Logout](#)

Campaigns List

Find campaigns that contain:

Campaign Name [Search](#) [Show All](#) [Advanced Search](#)

All campaigns shown

[New Campaign](#)

Campaign Name	Created By	Scheduled Execution Date	Actual Execution Date	Recipient Count	Sent Count	View Count	Click Count	Status	
Resellers Conference	ajones	11/26/07 10:00 AM						Enabled	Delete

FIGURE 701. Campaigns List Page

2. Click **New Campaign**.

The Campaign Detail Header tab displays.

sterling commerce
An AT&T Company

Campaigns

[My Home](#) | [My Account](#) | [About](#) | [Help](#) | [Logout](#)

Campaign:

[Go to Campaign List](#)

[Edit Header](#)

Enter data and click on Create button to create campaign

All fields with asterisk(*) are required.

[Create](#) [Cancel](#)

Campaign Header

*Name

Description

Execution Date (M/D/YYYY)

Execution Hour 00:00

Enable ☐

FIGURE 702. Campaign Detail Edit Header Tab

- On the Edit Header tab, enter a Name and Description for the new campaign.
- Enter an execution date and time.
- Check the **Enable** check box.
- Click **Create**.

The Campaign Detail page re-displays with new tabs.

7. Click the **Manage Content** tab.

The Campaign Detail Manage Content tab displays.

The screenshot displays the 'Manage Content' tab for a campaign titled 'Press Email'. The interface includes a header with the Sterling Commerce logo and navigation links. Below the header, there are tabs for 'Edit Header', 'Manage Content' (selected), and 'Manage Recipients'. A message states: 'After changing campaign information save changes using the Save button. All fields with asterisk(*) are required.' The main form area contains the following fields:

- *Locale:** A dropdown menu currently showing 'United States'.
- *From:** A text field containing 'changeme@changeme.changeme'.
- *Subject:** A text field containing 'Press Email'.
- Body:** A large text area containing HTML code for an email body, including a table with links and a table with links.
- Link 1:** A text field with 'http://link1' and a 'Text' field with 'Text1'.
- Link 2:** A text field with 'http://link2' and a 'Text' field with 'Text2'.
- Link 3:** A text field with 'http://link3' and a 'Text' field with 'Text3'.
- Link 4:** A text field with 'http://link4' and a 'Text' field with 'Text4'.

Buttons for 'Text', 'Save', and 'Cancel' are located at the top right of the form area.

FIGURE 703. Campaign Detail Manage Content Tab

Use the Manage Content tab to specify the email message(s) sent to the recipients of the campaign. You can create messages for one or more of the locales supported by the Sterling Multi-Channel Selling Solution. Repeat the following steps for each locale you want to use for this campaign.

- Locale:** select the appropriate locale for the email message. Only users whose preferred locale matches this value will be sent the email message. See "Campaigns and Locales" on page 56 for more information about how locales are used when campaigns are executed.
- From:** specify an appropriate email address.
- Subject:** specify an appropriate subject line for the email message.

- d. Enter the message in the form of an HTML document. You can create the HTML file using your preferred HTML editor and then cut and paste it into this text area.

If you use the @Link n @ tags in the HTML message, then make sure that you provide the corresponding values for the Link n fields. The first field is the URL set in the hypertext reference, and the second field is what recipients will see displayed as the link. For example, suppose that you enter:

```
Link1:  
http://www.sterlingcommerce.comText: this link
```

Recipients will see the following in the received email message:
For more information on item1, go to this link.

When they click this link, their browser opens to
<http://www.sterlingcommerce.com>

Note that the link URL in the generated email message is actually pointing back to the Sterling Multi-Channel Selling Solution. When the Sterling Multi-Channel Selling Solution server receives the request, it logs the request, and then redirects the browser to the target URL. This way, you can compile statistics that track which links from your email campaigns are clicked by users.

8. Click **Save**.
9. You can test the message as follows:
 - a. Click **Test**.
 - b. The Test Campaign dialog box is displayed.

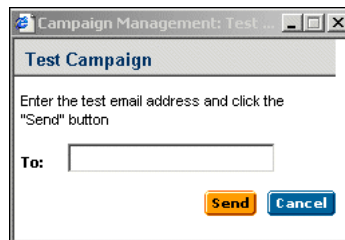


FIGURE 704. Test Campaign Dialog Box

- c. In the Test Campaign dialog box, enter your email address.

d. Click **Send**.

Verify that the email message is sent correctly. If you do not receive the email message, check the following items:

- Ensure that the email address is correct.
- Ensure that the address of the SMTP server used for campaigns is correct. Check the value of the Campaigns.SMTP Host Machine property by navigating to the system properties. See CHAPTER 38, "Enterprise System Administration" for more information about system properties.

Verify that any automatically-generated URLs (using the Link*n* tags described in Step 7) point back to the Sterling Multi-Channel Selling Solution server. If they start "http://localhost...", then you must set the ServerName system property to the externally-visible name of the Sterling Multi-Channel Selling Solution server.

10. Click the **Manage Recipients** tab.

The Campaign Detail Manage Recipients tab displays.

sterling commerce
An AT&T Company

Campaigns

My Home | My Account | About | Help | Logout

Campaign: Press Email [Go to Campaign List](#)

Edit Header **Manage Content** **Manage Recipients**

Define new selection criteria and assign it to this campaign by clicking the Add New Criteria button. Upload an external mailing list and assign it to this campaign by clicking the Upload button.

[Cancel](#)

Include	Exclude	Ignore	Mailing List Name	Description	Mailing List Type	Created By	Created Date
No Rows Found							

FIGURE 705. Campaign Detail Manage Recipients Tab

Use the Manage Recipients tab to specify which recipients should receive the email message. You can specify the recipients by selecting which mailing lists should be used. See "Mailing Lists" on page 1022 for information about creating mailing lists.

For each mailing list, you can decide whether to use it to include its email addresses, exclude its email addresses, or not to use it at all. Click the appropriate radio button for each mailing list for your email campaign.

11. Click **Save**.

Mailing Lists

You can create and manage mailing lists for use in marketing campaigns. To create a mailing list:

- Upload a file containing a list of email addresses and their accompanying information, or
- Attach one or more customer segments to the mailing list.

You manage mailing lists from the Mailing Lists page. To access the Mailing Lists page, click the Mailing Lists link under the Channel Management panel on the home page.

FIGURE 706. Mailing Lists Page

Mailing List Files

The format for uploading mailing lists is a tab-delimited text file. You can download a template for the file from the Upload Detail page. Each line must comprise the following fields, separated by tab characters:

TABLE 68. Mailing List Fields

Field	Required?	Description
Email Address	Yes	Email address of user
Company	No	Company of user
Title	No	Title: for example, Ms, Dr, and so on
First Name	No	First name
Last Name	No	Last name

TABLE 68. Mailing List Fields (Continued)

Field	Required?	Description
Job Title	No	Job Title: for example, CTO, Product Manager, and so on
Department	No	Department: for example, Sales, Marketing, and so on
Locale	No	Locale: for example, en_US, fr_CA, and so on. You should only specify locales that are supported by the Sterling Multi-Channel Selling Solution. If you leave this field blank, then the user is assumed to have the default system locale as their preferred locale.
Telephone	No	Telephone

To Create a Mailing List by Uploading a File

1. On the Mailing Lists page, choose From Upload from the Mailing List Type drop-down list, and click **New Mailing List**.

The New Mailing List page displays, similar to the following figure.

The screenshot displays the 'New Mailing List' page within the Sterling Commerce Administration interface. The page header includes the Sterling Commerce logo and 'Administration' text. Navigation links such as 'My Home', 'My Account', 'About', 'Help', and 'Logout' are visible. The main heading is 'New Mailing List', with a 'Go To Mailing Lists' link. Below the heading, instructions state: 'Enter data and click on Upload button to read a mailing list from a file.' and 'All fields with asterisk(*) are required.' There are 'Upload' and 'Cancel' buttons. A 'Mailing List Upload Details' section contains a form with the following fields:

- *Mailing List Name: A text input field containing 'Tech List'.
- Description: A text area containing 'Technical consumers'.
- *Upload File: A section with a 'Browse...' button and a file path 'C:\Documents and Settings\vgalan\Des'. A 'View Template' link is also present.

FIGURE 707. New Mailing List Page: Upload Mailing List

2. Enter a mailing list name and optionally a description of the mailing list. Make sure that the mailing list name is unique.
3. Browse to the mailing list file by clicking **Browse...** and navigating to the file using the file dialog box. Select the file and click **Open**.

4. Click **Upload**.

A success message displays if the upload succeeds. An error message displays if the file does not conform to the template format.

To Create a Mailing List Using Customer Segments

1. On the Mailing Lists page, choose From Customer Segment from the Mailing List Type drop-down list, and click **New Mailing List**.

The Mailing List Detail page displays, similar to the following figure.

The screenshot shows the 'New Mailing List' page in the Sterling Commerce Administration interface. The page has a header with the Sterling Commerce logo and 'Administration' text. A navigation bar includes links for 'My Home', 'My Account', 'About', 'Help', and 'Logout'. The main content area is titled 'New Mailing List' and includes a 'Go To Mailing Lists' link. Below this is an 'Edit Header' tab with instructions: 'Enter the mailing list header data and click: Create.' and a note: 'All fields with asterisk(*) are required.' There are 'Create' and 'Cancel' buttons. A 'Mailing List Upload Details' section contains a required text field for 'Mailing List Name' and an optional text area for 'Description'.

FIGURE 708. New Mailing List Page: Customer Segment Mailing List

2. Enter the mailing list header information:

- Mailing List Name
- (Optional) Description

3. Click **Create**.

The New Mailing List Detail page re-displays with a new **Target Customers** tab.

sterling commerce
An AT&T Company

Administration

My Home | My Account | About | Help | Logout

Mailing List: All Resellers [Go To Mailing Lists](#)

Edit Header **Target Customers**

Change the header data and click Save, or use the Target Customers tab to create the mailing list from customer segments.
All fields with asterisk(*) are required.

[Save](#) [Cancel](#)

Mailing List Upload Details

*Mailing List Name
All Resellers

Description

FIGURE 709. New Mailing List Detail Page With Target Customers Tab

4. Click the **Target Customers** tab.

The Target Customers page displays, similar to the following figure.

sterling commerce
An AT&T Company

Administration

My Home | My Account | About | Help | Logout

Mailing List: All Resellers [Go To Mailing Lists](#)

Edit Header **Target Customers**

To apply to all users in the system, choose Applies to All Users and press the Save button.

To apply to selected customer segments, choose Selected Customer Segments, and press the Save button. You will then be able to select segments to attach.

*Applies To ☐ All Users ☐ Selected Customer Segments

[Save](#)

FIGURE 710. Mailing List Detail Page: Target Customers Tab

5. To select all users, click the **All Users** radio button.
6. To select one or more customer segments:
 - a. Click the **Selected Customer Segments** radio button.
 - b. Click **Browse...** to browse the list of available customer segments. A Segment Picker pop-up displays, similar to the following figure.

Select Segment

Search

Search By: **Segment Name** ▼

Search Criteria: **Search**

[Show All](#)

Search Result

 Copy of Rural Rich

Delete

Done **Cancel**

FIGURE 711. Segment Picker Pop-Up

You can search for segments by Segment Name or Effective date. To remove a segment from your list, click the segment name, then click **Delete**.

- c. To select a customer segment, click the segment name. The segment name displays in the Segment Picker text box. When you finish selecting segments, click **Done**.

7. Click **Save**.

Campaigns Cron Job

When you create a campaign, it is designed to be run at a specified time in the future. A cron job called the campaigns cron job ensures that the campaign is run. Because the campaigns cron job runs as an application cron job, make sure that you

enable application cron jobs and specify the message URL for cron jobs. See "Job Scheduling Administration" on page 1095 for more information on cron jobs.

Attention: Make sure that you have set the `ServerName` property of the **Comergent.xml** configuration file to the externally visible name of the Sterling Multi-Channel Selling Solution machine.

To create the campaigns cron job:

1. Log in as an enterprise administrator.
2. Navigate to the cron job list page by clicking **Job Scheduler** in the System Administration panel on the Sterling Multi-Channel Selling Solution home page.
3. Click **Create New Cron Job**.
4. On the Create New Cron Job page, enter the following information:
 - **Job Name:** Campaigns Execution
 - **Program:**
com.comergent.apps.mktMgr.campaigns.bizAPI.CampaignsCron
 - **Command Line Arguments:** RequestTimeout=-1
 - Select **Application** cron job. Enter your username and password.
 - **Cron Job Schedule:** Enter appropriate start and end dates for the cron job. We suggest setting a frequency of one minute, but you can choose another lower frequency if you prefer.
5. Click **Save All Changes**.

This chapter covers the tasks associated with managing programs and activities. See "Program Management and Payment Accounts" on page 57 for an overview of programs and activities.

You can manage programs if you have been assigned the Program Manager or Channel Executive function. You can assign a program to a partner if you are the account manager for the partner.

This chapter covers the following topics:

- "To Create a Program" on page 1030
- "To Add an Activity" on page 1032
- "To Upload a Marketing Plan" on page 1031
- "To Assign a Program to a Partner" on page 1033
- "To Create an Approval Form" on page 1034
- "To Create a Claim Form" on page 1036
- "To Manage Approval Requests" on page 1039
- "To Manage Claims for an Activity" on page 1043
- "To Upload Co-op Account Information" on page 1045
- "To Download a Co-op Account Update Template File" on page 1046

Before you can start approving requests and claims, you must create payment accounts for your partners. See "Payment Accounts" on page 204 for more information.

Creating and Modifying Programs

To Create a Program

1. Click **Partner Programs** in the Channel Management panel on the Sterling Multi-Channel Selling Solution home page.

The Program List page displays.

COMERGENT eBusiness System Administration

My Home | My Account | About | Help | Logout

Program List

"Find programs that contain:"

Program Name [Search](#) [Show All](#)

All programs shown

[New Program](#) [Upload Co-op Accounts](#)

Program ID	Program Name	Program Type	Creation Date	Activities Start Date	Activities End Date	Program Status	
600500	Workstation Launch	MDF	11/16/2005	11/15/2005	12/15/2005	In Creation	Delete
600501	Brand Campaign	MDF	11/16/2005	12/1/2005	1/31/2006	Active	

FIGURE 712. Program List Page

2. Click **New Program**.

The screenshot shows the 'New Program' page in the COMERGENT Administration interface. The page has a header with the COMERGENT logo and 'Administration' text. Below the header, there's a navigation bar with links: 'My Home', 'My Account', 'About', 'Help', and 'Logout'. The main title is 'New Program' with a link 'Go To Program List'. The section is titled 'Program Details' and contains the instruction 'Enter data and click on the Create button to create a program.' Below this, there are 'Create' and 'Cancel' buttons. A section labeled '* Required Fields' contains a form with the following fields: 'Program Name' (text input), 'Description' (text area), 'Associated Products/Solutions' (text area), 'Program ID' (text input, value 'N/A'), 'Program Status' (text input, value 'In Creation'), 'Program Type' (dropdown menu, value 'MDF'), 'Notify Channel Managers' (checkbox), 'Activities Start Date' (date input), and 'Activities End Date' (date input).

FIGURE 713. New Program Page

3. Enter a name and description for the new program.
4. Specify whether this is an MDF or a Co-op program.
Your choice determines whether MDF or Co-op payment accounts are used to allocate funds to partner activities undertaken under this program.
5. If you want channel managers to be notified that the program has been created, then check the Notify Channel Managers check box.
6. Set start and end dates for the new program.
7. If you want to specify that only a restricted set of partners is eligible for this program, then check the appropriate check boxes under Organization Eligibility: Profile Types, Organization Eligibility: Profile Levels, and Organization Eligibility: Territories.
8. Click **Create**.

To Upload a Marketing Plan

After you create a program, you associate a marketing plan with it. A marketing plan is a document that describes the program and the activities that it supports. Partners consult the marketing plan when they want to choose how to participate in it. The plan is a file, typically a Word document, that you upload to the Sterling Multi-Channel Selling Solution.

1. Navigate to the program to which you want to add a marketing plan.

2. Click **Browse** next to the Marketing Plan text field.
3. In the File Chooser dialog box, navigate to the file that describes the marketing plan. Select it and click **Open**.
4. Click **Upload**.

The file is uploaded to the Sterling Multi-Channel Selling Solution. Check that it is correct by clicking **View Marketing Plan**.

To Add an Activity

After you create a program, you define activities for the program.

1. Navigate to the program to which you want to add an activity.
2. On the Program Detail page, click the Activities tab.
3. Click **New Activity**.

FIGURE 714. New Activity Page

4. Enter a name and description for the new activity.
5. Set submission dates as appropriate.
6. Specify which form should be used to submit pre-approval requests. See "To Create an Approval Form" on page 1034 for more information on creating approval forms.

- a. Click ... under the Preapproval Process text field.
 - b. In the Hierarchical Entity Picker window, navigate to the MDF Application Forms -> Approval Request Forms list.
 - c. Select the form that you want to use.
 - d. Click **Done**.
7. Specify which form should be used to submit claims. See "To Create a Claim Form" on page 1036 for more information on creating claim forms.
 - a. Click ... under the Claims Process text field.
 - b. In the Hierarchical Entity Picker window, navigate to the MDF Application Forms -> Claims Request Forms list.
 - c. Select the form that you want to use.
 - d. Click **Done**.
8. Click **Create**.

To Assign a Program to a Partner

Once you have created a program and its activities, you can assign it to one or more partners so that they can begin to plan and execute activities, and make claims against the activities. Note that you can only assign an active program to partners: programs that are In Creation cannot be assigned.

1. Navigate to the program to which you want to assign a partner.
2. On the Program Detail page, click **Assignments**. The list of eligible partners displays.

Note:	By default, the list shows only the eligible partners that are assigned to you as an account manager. To see all eligible partners, click Show All, then click Show Eligible to remove ineligible partners from the list.
--------------	---

COMERGENT Administration
eBusiness System

My Home | My Account | About | Help | Logout

Workstation Launch [Go To Program List](#)

Program Details | **Activities** | Assignments

"Find organizations that contain:"

Organization Name [Search](#) [Show All](#)

All organizations shown

Check the partners to which you want to assign the program, then click Save to perform the assignment.

[Select All](#) [Deselect All](#) [Show Eligible](#) [Show All](#) [Save](#)

[Previous](#) [Next](#)

Assigned	Organization ↕	Profile Type	Profile Level
<input type="checkbox"/>	AMT Systems	Reseller	Gold
<input type="checkbox"/>	ARCnet Group	Reseller	Gold
<input type="checkbox"/>	Aessten_uc	Distributor	Gold
<input type="checkbox"/>	Aelften_uc	Distributor	Gold
<input type="checkbox"/>	AffinityNet	Reseller	Gold
<input type="checkbox"/>	AllNet Corp	Distributor	Silver
<input type="checkbox"/>	Andere	Distributor	Silver

FIGURE 715. Assignments List Page

3. Check the check boxes for the partners to whom you want to assign this program.
4. Click **Save**.

Creating Forms

When a partner wants to submit an approval request or claim for an activity, they must complete the corresponding form. You can associate pre-existing forms with approval requests or claims, or you can create new forms using the Visual Modeler.

To Create an Approval Form

1. Click **Configuration Models** in the Product and Catalog Administration panel.
2. In the Model Groups navigation panel, navigate to **Model Groups -> MDF Application Forms -> Activities**.
3. Click the activity for which you want to create the claim form.
4. Click **New Model**.

The screenshot shows the 'New Model' page in the COMERGENT Visual Modeler. On the left, there is a 'Model Group navigation' tree with a hierarchy: Model Groups > Matrix > MDF Application Forms > Activities > Advertising > Direct Mail > Trade Shows > Seminars > Customer Events > Newsletters > Product Collateral. Below this, under 'Models and Groups', are 'Claim Submission Form' and 'Preapproval Form'. The main 'New Model' form has the following fields: 'Name' (text input), 'Description' (text input), 'Start Date (MD/Y/YY)' (calendar icon, value 11/16/2005), 'End Date (MD/Y/YY)' (calendar icon, value 11/16/2005), and 'Assigned Product ID' (text input with a 'Browse...' button). At the bottom are buttons: 'Save', 'Save and Edit', and 'Cancel and Return'.

FIGURE 716. New Form Page

5. Enter a Name and a Description for the new form.
6. Click **Save**.
7. When the new form displays in the list of forms, select it and click **Edit**.

The screenshot shows the 'Edit Form' page in the COMERGENT Visual Modeler. On the left, the 'Model navigation' tree shows 'Press Release Submission Form' selected. The main area has tabs: 'General Info' (selected), 'Display', 'Properties', 'Rules', 'Lists', 'Tables', 'Tabs', and 'Worksheets'. The 'General Info' tab contains: 'Name' (Press Release Submission Form), 'Description' (Press Release Submission Form), 'Display Name' (text input), 'Start Date (MD/Y/YY)' (11/16/2005), 'End Date (MD/Y/YY)' (11/16/2005), and a 'Children' list (empty). To the right of the 'Children' list are buttons: 'Move Up', 'Move Down', and 'Delete'. At the bottom are buttons: 'New Option Class' and 'Attach'.

FIGURE 717. Edit Form Page

8. Now you can create the fields to be displayed on the form, by specifying them as option classes and option items. You can add pre-built portions of the form by attaching the corresponding option class assemblies as follows:

- a. Click **Attach**.
- b. Click **Browse....**

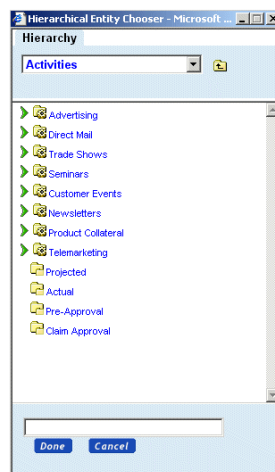


FIGURE 718. Hierarchy Entity Chooser Window

- c. Navigate to the Activities model group.
 - d. Select one of the option class assemblies such as Pre-Approval.
 - e. Click **Done**.
9. Once you have completed the form, then click **Test** to verify that it meets your needs. If it does not, then close the Test window and modify the form as appropriate.
 10. Once the form is correct, then click **Compile**.

The form is now available to use as a form for approval requests.

To Create a Claim Form

1. Click **Configuration Models** in the Product and Catalog Administration panel.
2. In the Model Groups navigation panel, navigate to **Model Groups -> MDF Application Forms -> Activities**.
3. Click the activity for which you want to create the claim form.
4. Click **New Model**.

The screenshot shows the 'COMERGENT eBusiness System' interface. The top navigation bar includes links for 'My Home', 'My Account', 'About', 'Help', and 'Logout'. The main content area is titled 'Visual Modeler' and 'New Model'. On the left, there is a 'Model Group navigation' tree with a hierarchy: Model Groups > Matrix > MDF Application Forms > Activities > Advertising > Direct Mail > Trade Shows > Seminars > Customer Events > Newsletters > Product Collateral. The main form area has the following fields: 'Name' (text input), 'Description' (text input), 'Start Date (MD/YYYY)' (calendar picker set to 11/16/2005), 'End Date (MD/YYYY)' (calendar picker set to 11/16/2005), and 'Assigned Product ID' (text input with a 'Browse...' button). At the bottom of the form are three buttons: 'Save', 'Save and Edit', and 'Cancel and Return'.

FIGURE 719. New Form Page

5. Enter a Name and a Description for the new form.
6. Click **Save**.

When the new form displays in the list of forms, select it and click **Edit**.

The screenshot shows the 'COMERGENT eBusiness System' interface. The top navigation bar includes links for 'My Home', 'My Account', 'About', 'Help', and 'Logout'. The main content area is titled 'Visual Modeler' and 'General Info'. On the left, there is a 'Model navigation' tree with the item 'Press Release Submission Form' selected. The main form area has the following fields: 'Name' (text input with value 'Press Release Submission Form'), 'Description' (text input with value 'Press Release Submission Form'), 'Display Name' (text input with a checkmark icon), 'Start Date (MD/YYYY)' (calendar picker set to 11/16/2005), and 'End Date (MD/YYYY)' (calendar picker set to 11/16/2005). Below these fields is a 'Children' list (empty) and three buttons: 'Move Up', 'Move Down', and 'Delete'. At the bottom of the form are two buttons: 'New Option Class' and 'Attach'.

FIGURE 720. Edit Form Page

7. Now you can create the fields to be displayed on the form by specifying them as option classes and option items. You can add pre-built portions of the form by attaching the corresponding option class assemblies as follows:

- a. Click **Attach**.
- b. Click **Browse....**

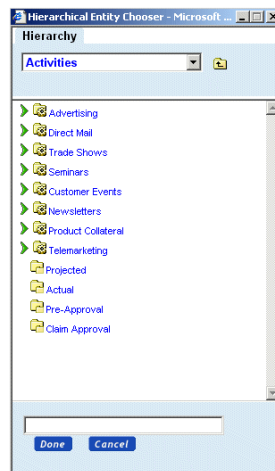


FIGURE 721. Hierarchy Entity Chooser Window

- c. Navigate to the Activities model group.
 - d. Select one of the option class assemblies such as Pre-Approval.
 - e. Click **Done**.
8. Once you have completed the form, click **Test** to verify that it meets your needs. If it does not, then close the Test window and modify the form as appropriate.
 9. Once the form is correct, click **Compile**.

The form is now available to use as a form for claims.

Managing Approval Requests and Claims

Once you have created programs and activities, your partners will start submitting approval requests and claims for their activities. This section describes how to process these requests and claims.

To Manage Approval Requests

As an account manager for one or more accounts, you review approval requests made by your partners. For each program activity, one or more approval requests can be submitted by partner program managers (partner users assigned the Marketing Executive function).

1. Navigate to the activity.

COMERGENT Administration
eBusiness System

My Home | My Account | About | Help | Logout

Workstation Launch: Press Release [Return](#)

After changing activity information save changes using the Save button. Use the Cancel button to reverse the changes.

[View Preapprovals & Claims](#) [Cancel](#) [Save](#)

* Required Fields

Activity Information	
Activity Name * Press Release	Activity ID 600500
Program Name Workstation Launch	Activity Status Active
Description Press releases for the workstation launch.	Start Date * 11/24/2005
Preapproval Required Y	End Date * 12/15/2005
Last Date for Preapproval Request Submission * 11/20/2005	Preapproval Process * MDF Application Forms/Activities/Direct Mail/Preapproval Form
Last Date for Claim Submission * 12/31/2005	Claim Process * MDF Application Forms/Activities/Direct Mail/Claim Submission Form

FIGURE 722. Program Activity Detail Page

2. Click **View Preapprovals & Claims**.

COMERGENT Administration
eBusiness System

My Home | My Account | About | Help | Logout

Claim List

"Find records that contain:"

Activity Name: [Search](#) [Show All](#)


Search Results for Activity Name: Press Release

Preapproval ID	Preapproval Status	Preapproval Request Date	Claim ID	Claim Status	Claim Date	Activity Name	Program Name	Organization
600500	Pending Approval	11/16/2005				Press Release	Workstation Launch	DataSolve

FIGURE 723. Program Claim List Page

The claims list page displays all approval requests made against this activity. Requests that require approval have the Pending Approval status.

3. Click the Preapproval Id to the approval request that you want to consider.

Administration

[My Home](#) | [My Account](#) | [About](#) | [Help](#) | [Logout](#)

Preapproval Request

[Go to Claim List](#)

Preapproval FormNotes

Click Allocate Funds to see eligible accounts and allocate funds to this request. Deny the request by clicking the Deny button. Save the data you entered by clicking the Save button. Click Update to view changes. Cancel changes by clicking the Cancel button.

SaveDenyAllocate FundsUpdateCancel

Preapproval Application Form

Preapproval Request Details

Program Name

[Workstation Launch](#)

Activity Name

[Press Release](#)

Channel Partner:

DataSolve

Preapproval ID

600500

Submission Date

11/16/2005

Preapproval Status

Pending Approval

Approval Number

Currency

USD

Projected Sales

Projected Unit Sales

Projected Sales Revenue

(in dollars)

FIGURE 724. Preapproval Request Page

4. You can:
- a. Approve the request by allocating funds: click **Allocate Funds**.
 - b. Deny this request: click **Deny**.
- If you deny the request, then the approval request becomes read-only and cannot be acted on further.
- If you click **Allocate Funds**, the Approve Funds page displays.

Administration

[My Home](#) | [My Account](#) | [About](#) | [Help](#) | [Logout](#)

Approve Funds

[Go to Claim List](#)

Specify the quantity of funds you want to apply to this request from each account. Click Approve Funds to approve the request and put the funds on hold. Click Cancel Allocation to cancel allocations and return to the previous page. Click Update to update the total.

Preapproval ID: 600500
Projected Request for Funds: \$100,000
Preapproval Currency: USD

Cancel AllocationApprove FundsUpdate

Account Name	Available Date	Available Balance	Expiration Date	Program Name	Activity Name	Amount to Allocate
General MDF Account	11/16/2005	\$5,000,000	2/14/2006			0.00
Total						0,000

FIGURE 725. Approve Funds Page

5. You can choose to allocate funds from any of the partner's funds. The amount that you allocate is deducted from the available balance of the fund and is put on hold.
6. Click **Approve Funds**.

The Approval Request page re-displays with updated information.

Managing Claims

As an account manager for one or more accounts, you review and approve claims made by your accounts. You can view all claims or you can navigate to the claims made against a specific activity.

To Manage a Claim

1. Click **Partner Program Preapprovals & Claims** in the Channel Management panel on the Sterling Multi-Channel Selling Solution home page.

The Claim List page is displayed. Claims that require approval have the Pending Approval status.

The screenshot shows the 'Claim List' page within the 'COMERGENT eBusiness System Administration' interface. At the top, there is a navigation bar with links: 'My Home', 'My Account', 'About', 'Help', and 'Logout'. Below the header, the page title 'Claim List' is displayed. A search section contains a text input field with the placeholder 'Find records that contain:', a dropdown menu for 'Activity Name', and buttons for 'Search' and 'Show All'. Below the search section, the text 'Search Results for Activity Name: Press Release' is shown. A table lists the search results with columns: 'Preapproval ID', 'Preapproval Status', 'Preapproval Request Date', 'Claim ID', 'Claim Status', 'Claim Date', 'Activity Name', 'Program Name', and 'Organization'. The table contains one row with the following data: '600500', 'Pending Approval', '11/16/2005', and links for 'Press Release', 'Workstation Launch', and 'DataSolve'.

Preapproval ID	Preapproval Status	Preapproval Request Date	Claim ID	Claim Status	Claim Date	Activity Name	Program Name	Organization
600500	Pending Approval	11/16/2005				Press Release	Workstation Launch	DataSolve

FIGURE 726. Claim List Page

2. Click the Claim Id link to the claim that you want to consider.

COMERGENT | Administration
eBusiness System

[My Home](#) | [My Account](#) | [About](#) | [Help](#) | [Logout](#)

Claim for Press Release [Go to Claim List](#)

Claim Form **Notes**

Click Allocate Funds to see eligible accounts and allocate funds to this claim. Deny the claim by clicking the Deny button. Save the data you entered by clicking the Save button. Click Update to view changes. Cancel changes by clicking the Cancel button.

Save **Deny** **Allocate Funds** **Update** **Cancel**

Claim Application Form

Claim Details

Program Name [Workstation Launch](#)
Activity Name [Press Release](#)
Channel Partner DataSolve
Preapproval ID 600500
Approval Number 1132165194063
Claim ID 600501
11/16/2005
Claim Status Pending Approval

Actual Sales

Actual Unit Sales
Actual Sales Revenue (in dollars)

FIGURE 727. Claim Detail Page

3. You can:
- a. Approve the claim by allocating funds: click **Allocate Funds**.
 - b. Deny this claim: click **Deny**.

If you deny the claim, then the claim becomes read-only and cannot be acted on further.

If you click **Allocate Funds**, the Approve Funds page displays.

COMERGENT | Administration
eBusiness System

[My Home](#) | [My Account](#) | [About](#) | [Help](#) | [Logout](#)

Approve Funds [Go to Claim List](#)

Specify the quantity of funds you want to apply to this request from each account. Click Approve Funds to approve the request and put the funds on hold. Click Cancel Allocation to cancel allocations and return to the previous page. Click Update to update the total.

Preapproval ID: 600500
Projected Request for Funds: \$100,000
Preapproval Currency: USD

Cancel Allocation **Approve Funds** **Update**

Account Name	Available Date	Available Balance	Expiration Date	Program Name	Activity Name	Amount to Allocate
General MDF Account	11/16/2005	\$5,000,000	2/14/2006			<input type="text" value="0.00"/>
Total						<input type="text" value="0.000"/>

FIGURE 728. Approve Funds Page

4. You can choose to allocate funds from any of the partner's funds. The amount that you allocate is deducted from the available balance of the fund.

5. Click **Approve Funds**.

The Claim Detail page re-displays with updated information.

To Manage Claims for an Activity

1. Navigate to the activity.

COMERGENT Administration
eBusiness System

My Home | My Account | About | Help | Logout

Workstation Launch: Press Release [Return](#)

After changing activity information save changes using the Save button. Use the Cancel button to reverse the changes.

[View Preapprovals & Claims](#) [Cancel](#) [Save](#)

* Required Fields

Activity Information

Activity Name * Press Release	Activity ID 600500
Program Name Workstation Launch	Activity Status Active
Description Press releases for the workstation launch.	Start Date * 11/24/2000
Preapproval Required Y	End Date * 12/15/2000
Last Date for Preapproval Request Submission * 11/20/2005	Preapproval Process * MDF Application Forms/Activities/Direct Mail/Preapproval Form
Last Date for Claim Submission * 12/31/2005	Claim Process * MDF Application Forms/Activities/Direct Mail/Claim Submission Form

FIGURE 729. Program Activity Detail Page

2. Click **View Claims**.

COMERGENT Administration
eBusiness System

My Home | My Account | About | Help | Logout

Claim List

"Find records that contain:"

Activity Name [Search](#) [Show All](#)

Search Results for Activity Name: Press Release

Preapproval ID	Preapproval Status	Preapproval Request Date	Claim ID	Claim Status	Claim Date	Activity Name	Program Name	Organization
600500	Pending Approval	11/16/2005				Press Release	Workstation Launch	DataSolve

FIGURE 730. Program Claim List Page

The claims list page displays all approval requests and claims made against this activity. Claims that require approval have the Pending Approval status.

3. Click the Claim Id link to the claim that you want to consider.

COMERGENT

eBusiness System

Administration

My Home

My Account

About

Help

Logout

Claim for Press Release

Go to Claim List

Claim Form

Notes

Click Allocate Funds to see eligible accounts and allocate funds to this claim. Deny the claim by clicking the Deny button. Save the data you entered by clicking the Save button. Click Update to view changes. Cancel changes by clicking the Cancel button.

Save

Deny

Allocate Funds

Update

Cancel

Claim Application Form

Claim Details

Program Name

Workstation Launch

Activity Name

Press Release

Channel Partner

DataSolve

Preapproval ID

600500

Approval Number

1132165194063

Claim ID

600501

Claim Status

11/16/2005

Pending Approval

Actual Sales

Actual Unit Sales

Actual Sales Revenue

(in dollars)

FIGURE 731. Claim Detail Page

4. You can:

- a. Approve the claim by allocating funds: click **Allocate Funds**.
- b. Deny this claim: click **Deny**.

If you deny the claim, the claim becomes read-only and cannot be acted on further.

If you click **Allocate Funds**, then the Approve Funds page displays.

COMERGENT

eBusiness System

Administration

My Home

My Account

About

Help

Logout

Approve Funds

Go to Claim List

Specify the quantity of funds you want to apply to this request from each account. Click Approve Funds to approve the request and put the funds on hold. Click Cancel Allocation to cancel allocations and return to the previous page. Click Update to update the total.

Preapproval ID: 600500

Projected Request for Funds: \$100,000

Preapproval Currency: USD

Cancel Allocation

Approve Funds

Update

Account Name	Available Date	Available Balance	Expiration Date	Program Name	Activity Name	Amount to Allocate
General MDF Account	11/16/2005	\$5,000,000	2/14/2006			0.00
Total						0.000

FIGURE 732. Approve Funds Page

5. You can choose to allocate funds from any of the partner's funds. The amount that you allocate is deducted from the available balance of the fund.

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6. Click **Approve Funds**.

The Claim Detail page re-displays with updated information.

Managing Payment Accounts

You can upload updates to Co-op accounts from data saved in a text file. When you do so, you specify a base amount for each account: a percentage of the base amount is added to the account up to a maximum balance allowed for the account. The percentage and maximum amount are managed in the partner profile.

The format of the text file is specified in "Co-op Account Update File Format" on page 1129. You can download a template as described in "To Download a Co-op Account Update Template File" on page 1046.

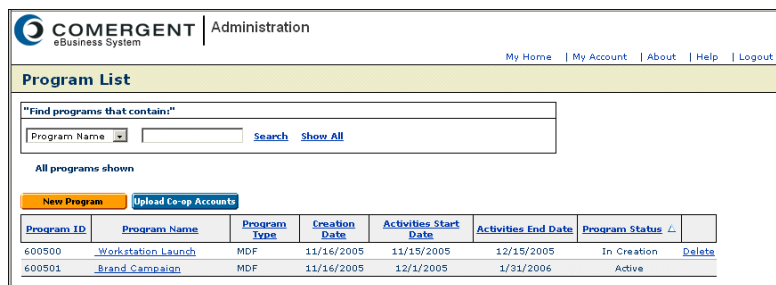
For each line in the uploaded text file, the processing is as follows:

- If an account key is not provided, a new account is created with the header information provided in the line.
- If an account key is provided, the account amount is updated by the specified amount. However, the other header information is not updated.

To Upload Co-op Account Information

1. Click **Partner Programs** in the Channel Management panel on the Sterling Multi-Channel Selling Solution home page.

The Program List page displays.



The screenshot shows the 'Program List' page in the COMERGENT eBusiness System Administration interface. The page has a header with the COMERGENT logo and 'Administration' text. There are links for 'My Home', 'My Account', 'About', 'Help', and 'Logout'. Below the header, there is a search bar with the text 'Find programs that contain:' and a dropdown menu for 'Program Name'. There are 'Search' and 'Show All' buttons. Below the search bar, there is a section titled 'All programs shown' with two buttons: 'New Program' and 'Upload Co-op Accounts'. Below these buttons is a table with the following columns: 'Program ID', 'Program Name', 'Program Type', 'Creation Date', 'Activities Start Date', 'Activities End Date', 'Program Status', and a 'Delete' link. The table contains two rows of data.

Program ID	Program Name	Program Type	Creation Date	Activities Start Date	Activities End Date	Program Status	Delete
600500	Workstation Launch	MDF	11/16/2005	11/15/2005	12/15/2005	In Creation	Delete
600501	Brand Campaign	MDF	11/16/2005	12/1/2005	1/31/2006	Active	

FIGURE 733. Program List Page

2. Click **Upload Co-op Accounts**.

The screenshot shows the 'Co-op Account Upload' page within the COMERGENT Administration system. The page has a header with the COMERGENT logo and 'Administration' text, and navigation links for 'My Home', 'My Account', 'About', 'Help', and 'Logout'. The main heading is 'Co-op Account Upload'. Below it, a message states: 'Enter file name and click on Upload button to create or update Co-op accounts.' There are 'Upload' and 'Cancel' buttons. A section labeled '*Required Fields' contains a sub-form titled 'Co-op Account Upload'. This sub-form has an '*Upload File:' label, a text input field, a 'Browse...' button, and a 'View' link. A 'Template' link is also present below the input field.

FIGURE 734. Co-op Account Upload Page

3. Click **Browse...** and navigate to the file that you want to upload.
4. Click **Open** to insert the name of the file into the Upload File text field.
5. Click **Upload**.

The Co-op Account Upload Results page displays, reporting the results of your upload.

The screenshot shows the 'Co-op Account Upload Results' page. The header is identical to the previous page. The main heading is 'Co-op Account Upload Results'. Below it, a message states: 'Co-op Accounts Upload Completed'. There is a 'Done' button. The text continues: 'Co-op account upload file C:\temp\AnderelCoopAccountUpload.txt has been uploaded with the following results:'. Below this, the following statistics are listed: 'Total number of accounts: 2', 'Number of accounts successfully uploaded: 2', and 'Number of accounts not uploaded due to errors: 0'.

FIGURE 735. Co-op Account Upload Results Page

To Download a Co-op Account Update Template File

1. Click **Partner Programs** in the Channel Management panel on the Sterling Multi-Channel Selling Solution home page.

The Program List page displays.

COMERGENT eBusiness System | Administration

My Home | My Account | About | Help | Logout

Program List

"Find programs that contain:"

Program Name Search Show All

All programs shown

New Program **Upload Co-op Accounts**

Program ID	Program Name	Program Type	Creation Date	Activities Start Date	Activities End Date	Program Status	
600500	Workstation Launch	MDF	11/16/2005	11/15/2005	12/15/2005	In Creation	Delete
600501	Brand Campaign	MDF	11/16/2005	12/1/2005	1/31/2006	Active	

FIGURE 736. Program List Page

- Click **Upload Co-op Accounts**.

COMERGENT eBusiness System | Administration

My Home | My Account | About | Help | Logout

Co-op Account Upload

Enter file name and click on Upload button to create or update Co-op accounts.

Upload **Cancel**

*Required Fields

Co-op Account Upload

*Upload File: Browse... View

[Template](#)

FIGURE 737. Co-op Account Upload Page

- Click **Template** and save the template file to your local system.

This chapter covers all of the tasks associated with managing sales contracts. See "Sales Contracts" on page 37 for an overview of sales contracts.

You can manage sales contracts if you have been assigned the Channel Executive function. The tasks associated with program management are:

- "To Create a Sales Contract" on page 1049
- "To Submit a Sales Contract" on page 1052
- "To Search for a Sales Contract" on page 1053

Creating and Modifying Sales Contracts

To Create a Sales Contract

1. Click **Customer Account Activity** in the Commerce Activity panel on the Sterling Multi-Channel Selling Solution home page.
2. Click the **Sales Contract** tab.

Find contracts that contain:

Product ID [Search](#) [Show All](#) [Advanced Search](#)

Click New to create a new contract.

[New](#)

Contract ID	Contract Name	Offer Expiry Date	Start Date	End Date	Status	Fulfilled	Organization
600601	AMT_contract	9/28/2007	6/29/2007	9/28/2007	Pending	False	AMT Systems

FIGURE 738. Sales Contract Tab

3. Click **New**.
4. Using the Organization Picker, enter the Organization name and a name for the new sales contract.

Review the Contract terms below. Enter the contract header information and click 'Create'. Click 'Cancel' to return to the list of contracts. All fields with asterisk(*) are required.

[Create](#) [Cancel](#)

Contract Header Information

Contract Header Information

Status:
New

*Organization:

*Name:

Description:

*Start Date: (M/D/Y)

FIGURE 739. Sales Contract Detail Page: Header Tab

5. Set the header information as follows:
 - a. Offer Expiry Date
 - b. Contract Start Date
 - c. Contract End Date

- d. Freight Terms
- e. Payment Terms
- f. Attached Document
- g. Prepay
- h. User details for intended partner user

6. Click **Create**.

Once you have created the basic header for the sales contract, you now add products and their contract prices to the contract.

7. Click the Details tab.

COMERGENT | Administration
eBusiness System

My Home | My Account | About | Help | Logout

Build Product List: [Return to List](#)

Header	Details	Notes																																												
<p>Catalog Search</p> <p><input type="text"/> <input type="button" value="Get"/></p> <p>Advanced Search Browse Catalog Help Me Find Products</p> <p>Contract Details <input type="button" value="Change"/></p> <p>Name: AMT contract</p> <p>Customer Type: General</p> <p>Currency: USD</p> <p>Last Modified: 6/28/2007</p> <p>Items: 3</p> <p>User Name: Smith, Aaron</p> <p>Organization: AMT Systems</p> <p><input type="button" value="Change"/></p> <p>Quick Add <input type="button" value="Change"/></p> <p>Enter Product ID and QTY below. Once you are done entering products, click on Add to include the products in your Cart.</p> <p>Id <input type="text"/> Qty <input type="text"/> <input type="button" value="Add"/></p>	<p>Add items to the list below by clicking on 'Continue Shopping' to browse the catalog or click on 'Enter Product IDs' if you know the SKU numbers you are interested in. To place an order from this contract return to the Contract Header page and click the Place Order button.</p> <p><input type="button" value="Compare"/> <input type="button" value="Remove"/> <input type="button" value="Update"/></p> <table border="1"> <thead> <tr> <th><input type="checkbox"/></th> <th>Name</th> <th>Supplier</th> <th>Other Charges</th> <th>Price</th> <th>Contract Charges</th> <th>Contract Price</th> <th>Quantity</th> <th>Ext. Price</th> <th>Ordered Quantity</th> <th>Status</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/></td> <td>Memory Stick Media 32MB MSG-32A</td> <td>Matrix Solutions Inc.</td> <td></td> <td>\$49.95</td> <td>39.95</td> <td>\$</td> <td>5</td> <td>\$199.75</td> <td></td> <td></td> </tr> <tr> <td><input type="checkbox"/></td> <td>Memory Stick Media 64MB MSG-64A</td> <td>Matrix Solutions Inc.</td> <td></td> <td>\$79.95</td> <td>69.95</td> <td>\$</td> <td>5</td> <td>\$349.75</td> <td></td> <td></td> </tr> <tr> <td><input type="checkbox"/></td> <td>Triple-Capacity Lithium-Ion Battery MX-ABAT05</td> <td>Matrix Solutions Inc.</td> <td></td> <td>\$235.00</td> <td>199.00</td> <td>\$</td> <td>5</td> <td>\$995.00</td> <td></td> <td></td> </tr> </tbody> </table> <p><input type="button" value="Compare"/> <input type="button" value="Remove"/> <input type="button" value="Update"/></p> <p>* indicates one or more supplier prices for a product is (are) remote. Click on 'Select' to view actual price for the supplier(s).</p>	<input type="checkbox"/>	Name	Supplier	Other Charges	Price	Contract Charges	Contract Price	Quantity	Ext. Price	Ordered Quantity	Status	<input type="checkbox"/>	Memory Stick Media 32MB MSG-32A	Matrix Solutions Inc.		\$49.95	39.95	\$	5	\$199.75			<input type="checkbox"/>	Memory Stick Media 64MB MSG-64A	Matrix Solutions Inc.		\$79.95	69.95	\$	5	\$349.75			<input type="checkbox"/>	Triple-Capacity Lithium-Ion Battery MX-ABAT05	Matrix Solutions Inc.		\$235.00	199.00	\$	5	\$995.00			
<input type="checkbox"/>	Name	Supplier	Other Charges	Price	Contract Charges	Contract Price	Quantity	Ext. Price	Ordered Quantity	Status																																				
<input type="checkbox"/>	Memory Stick Media 32MB MSG-32A	Matrix Solutions Inc.		\$49.95	39.95	\$	5	\$199.75																																						
<input type="checkbox"/>	Memory Stick Media 64MB MSG-64A	Matrix Solutions Inc.		\$79.95	69.95	\$	5	\$349.75																																						
<input type="checkbox"/>	Triple-Capacity Lithium-Ion Battery MX-ABAT05	Matrix Solutions Inc.		\$235.00	199.00	\$	5	\$995.00																																						

FIGURE 740. Sales Contract Detail Page: Details Tab

8. You add products in the same way as for any cart:
 - a. Search for products using **Catalog Search** or by clicking **Advanced Search**.

- b. Click **Browse Catalog** to add products through browsing and searching the product catalog.
 - c. Click **Help Me Find Products** to add products through the Sterling Advisor questionnaire.
 - d. In the **Quick Add** panel, add products by entering their product IDs.
- 9. Enter the contract price for products added to the sales contract in the Contract Price field.
 - 10. Specify the maximum quantity of the line item that can be ordered using the sales contract. As orders are placed using the sales contract, the quantity ordered for each line item is tracked so that the total quantity does not exceed the specified quantity.
 - 11. Click **Update** to save prices and quantities.
 - 12. Click the **Header** tab.
 - 13. Click **Save**.


After creating the sales contract, submit it to the designated organization. Only a partner user who has the Financials function can accept the sales contract, so make sure that at least one partner user has been assigned this function. Sales contracts must be submitted to enable partner users to access them.

To Submit a Sales Contract

After you create a sales contract, you can submit it to the partner.

- 1. Navigate to the sales contract.

See "To Search for a Sales Contract" on page 1053 on how to find a sales contract.


Administration

[My Home](#) | [My Account](#) | [About](#) | [Help](#) | [Logout](#)

Contract: AMT contract
[Return to List](#)

Header	Details	Notes
--------	---------	-------

Review the Contract terms below. Submit the contract to the organization by clicking the 'Submit' button. Save changes on the contract by clicking the 'Save' button. Create a new contract by clicking the 'Copy' button. Click 'Cancel' to return to the list of contracts.

All fields with asterisk(*) are required.

[Copy](#)
[Save](#)
[Submit](#)
[Cancel](#)

Contract Header Information

Contract Header Information

Status:
Open

***Organization:**
[AMT Systems](#)

***Name:**

Description:

***Start Date:**
 (M/D/YY)

***End Date:**
 (M/D/YY)

Freight Terms:

Payment Terms:

Attached Document:

Type:

***Offer Expiry Date:**
 (M/D/YY)

Bill-To Information

Title:

Last name:

First name:

Organization:

***Address Line 1:**

Address Line 2:

***City:**

State and Zip:

***Country:**


[Address Book](#)

FIGURE 741. Sales Contract Detail Page: Header Tab

- Click **Submit**.

To Search for a Sales Contract

- On the Enterprise Home page, click Customer Account Activity in the Commerce Activity panel.
- Click the **Sales Contracts** tab.

 **COMERGENT**
eBusiness System

Administration

[My Home](#) | [My Account](#) | [About](#) | [Help](#) | [Logout](#)

Account Activity

[Active](#) | [Quotes](#) | [Sales Contracts](#) | [Orders](#) | [Service Contracts](#) | [Returns](#) | [Invoices](#)

Find contracts that contain:

Product ID

[Search](#) [Show All](#) [Advanced Search](#)

Click New to create a new contract.

New

Contract ID	Contract Name	Offer Expiry Date	Start Date	End Date	Status	Fulfilled	Organization	
600601	AMT contract	9/28/2007	6/29/2007	9/28/2007	Pending	False	AMT Systems	

FIGURE 742. Sales Contract Tab With Contract List

3. Enter your search criteria as appropriate or click the Contract ID link to display the Contract Details page.

This chapter covers the tasks associated with managing product reviews. See "Product Reviews" on page 38 for an overview of product reviews.

You can manage product reviews if you have been assigned the Product Review Administration function. The tasks associated with product review administration are:


- "To View a Product Review" on page 1055
- "To Hide or Reject a Review" on page 1056
- "To Search for a Product Review" on page 1057

Managing Product Reviews

To View a Product Review

1. Click **Review Management** in the Review Management panel on the Sterling Multi-Channel Selling Solution home page.

The Review List page displays.

Administration

My Home | My Account | About | Help | Logout

Review List:

Search for Reviews

Product ID

Search Show All


Review List page.

Update

Product ID	Product Name	ReviewDate	Review Brief	Status	Helpful Count	ReviewRating	<input type="checkbox"/> Hide
MXLP-7500-Best	Best 7500 Notebook "Tough Line"	7/19/2006	Early-adopter review	Approved	1	1	<input type="checkbox"/>
MX-PR-IMG-01	Matrix-Digital-Imaging-Beginner-Set	7/19/2006	Timely product	Approved	1	1	<input type="checkbox"/>

FIGURE 743. Review List Page

- Click the link to the review that you want to view.
The Review Detail page displays.

Administration

My Home

MXLP-7500-Best

User Name and Date : Mike Scott 7/19/2006

Hide

☐ Out of 0 found it useful

Review Status

Approved

Review Rating:

1

OneLineSummary

Early-adopter review

Pros:

Good installation and documentation

Cons:

Expensive!

Full Review:

I have worked for about a week with the product. It was easy to set up. It meets all my immediate needs and I'm currently testing some more advanced features to see what they have to offer.

FIGURE 744. Review Detail Page

To Hide or Reject a Review

- Navigate to the product review.

COMERGENT eBusiness System | Administration [My Home](#)

MXLP-7500-Best

User Name and Date : Mike Scott 7/19/2006

Hide ☐

☐ Out of 0 found it useful

Review Status: Approved

Review Rating: 1

OneLineSummary: Early-adopter review

Pros: Good installation and documentation

Cons: Expensive!

Full Review:

I have worked for about a week with the product. It was easy to set up. It meets all my immediate needs and I'm currently testing some more advanced features to see what they have to offer.

FIGURE 745. Review Detail Page

2. To hide a review: check the **Hide** check box.
3. To reject a review, select Rejected in the Review Status drop-down list.
4. Click **Save**.

To Search for a Product Review

1. Click **Review Management** in the Review Management panel on the Sterling Multi-Channel Selling Solution home page.

COMERGENT eBusiness System | Administration [My Home](#) | [My Account](#) | [About](#) | [Help](#) | [Logout](#)

Review List:

Search for Reviews

Product ID ▼ [Search](#) [Show All](#)


Review List page.

[Update](#)

Product ID	Product Name	Review Date	Review Brief	Status	Helpful Count	Review Rating	<input type="checkbox"/> Hide
MXLP-7500-Best	Best 7500 Notebook "Tough Line"	7/19/2006	Early-adopter review	Approved		1	<input type="checkbox"/>
MX-PR-IMG-01	Matrix-Digital-Imaging-Beginner-Set	7/19/2006	Timely product	Approved		1	<input type="checkbox"/>

FIGURE 746. Review List Page

2. Select your search criteria as appropriate.
3. Click **Search**.

Administration

[My Home](#) | [My Account](#) | [About](#) | [Help](#) | [Logout](#)

Review List:

Search for Reviews

Product ID

[Search](#) [Show All](#)

Review List page.

Update

Product ID	Product Name	Review Date	Review Brief	Status	Helpful Count	Review Rating	<input type="checkbox"/> Hide
MXLP-7500-Best	Best 7500 Notebook "Tough Line"	7/19/2006	Early-adopter review	Approved	1	1	<input type="checkbox"/>
MX-PR-IMG-01	Matrix-Digital-Imaging-Beginner-Set	7/19/2006	Timely product	Approved	1	1	<input type="checkbox"/>

FIGURE 747. Review List Page with Search Results

4. Click the link to the product review you want to view.

This chapter covers the tasks associated with managing payment transactions. See "Payment Processing and Gift Card and Credit Card Transactions" on page 38 for an overview of payment transactions.


You can manage payment transactions if you have been assigned the Financials function. The tasks associated with payment transactions are:

- "To View a Payment Transaction" on page 1059
- "To Make a Manual Transaction" on page 1060

Viewing and Modifying Payment Transactions

To View a Payment Transaction

1. Click **Payment History** in the Commerce Activity panel on the Sterling Multi-Channel Selling Solution home page.



Payment History

My Home

|

My Account

|

About

|

Help

|

Logout

Payment History

Find credit card transactions that contain:

Last Name

Search


Show All

Advanced Search

First Name	Last Name	Transaction Date	Transaction Amount	Transaction Type	Accepted	Transaction ID	Order ID	Manual Payment	Credit Card#
Michael	Scott	11/13/2005	\$6,516.00	Authorization	true	1319108868020169622529	2515599011	false	*****1111
1	1	11/11/2005	\$202.00	Authorization	true	1317453694280169622532	1384601921	false	*****1111
a	a	11/11/2005	\$100,881.00	Authorization	false	1317451265380169622530	1940601532	false	*****1111

FIGURE 748. Transaction List Page

- Click the transaction ID of the transaction that you want to view.



Payment History

[My Home](#) | [My Account](#) | [About](#) | [Help](#) | [Logout](#)

Transaction Detail:

[Return to List](#)

[Back](#)


Transaction Detail:	
First Name	Michael
Middle Name/Initial	
Last Name	Scott
Bill To Address1	172 Barford Ave.
Bill To Address2	First floor
Bill To City	Salt Lake City
Bill To State	UT
Bill To Postal Code	84093
Bill To Country	USA
Bill To Email	msscott@icmsolutions.com
Credit Card Type	Visa
Credit Card Number	*****1111
Expiration Date	November 2008
Transaction Date	11/13/2005
Transaction Amount	6,516.00
Currency	USD
Transaction Type	Authorization
Accepted	true
Transaction ID	1319108868020169622529
Reason	Success

FIGURE 749. Transaction Detail Page

To Make a Manual Transaction

Once an order has shipped, the corresponding payment transaction can be updated. You can make a manual transaction against an existing payment transaction as follows:

- Navigate to the payment transaction as described in "To View a Payment Transaction" on page 1059.

 **COMERGENT**
eBusiness System

Payment History

[My Home](#) | [My Account](#) | [About](#) | [Help](#) | [Logout](#)

Transaction Detail: [Return to List](#)

Issue Credit

Issue Debit

Transaction Detail:	
First Name	Michael
Middle Name/Initial	
Last Name	Scott
Bill To Address1	172 Barford Ave.
Bill To Address2	First floor
Bill To City	Salt Lake City
Bill To State	UT
Bill To Postal Code	84093
Bill To Country	USA
Bill To Email	msscott@icmsolutions.com
Credit Card Type	Visa
Credit Card Number	*****1111
Expiration Date	November 2008
Transaction Date	11/18/2005
Transaction Amount	6,516.00
Currency	USD
Transaction Type	Capture
Accepted	true

FIGURE 750. Transaction Detail Page

2. Click **Issue Credit** or **Issue Debit** as appropriate.

The Manual Transaction page displays.

COMERGENT eBusiness System | Payment History

[My Home](#) | [My Account](#) | [About](#) | [Help](#) | [Logout](#)

Manual Debit Transaction: [Return To List](#)

Submit Transaction **Cancel**

Enter a Transaction Amount, update other fields as required, and click 'Submit Transaction'.

Transaction Detail

First Name *	<input type="text" value="Michael"/>
Middle Name/Initial	<input type="text"/>
Last Name *	<input type="text" value="Scott"/>
Bill To Address1 *	<input type="text" value="172 Barford Ave."/>
Bill To Address2	<input type="text" value="First floor"/>
Bill To City *	<input type="text" value="Salt Lake City"/>
Bill To State *	<input type="text" value="UT"/>
Bill To Postal Code *	<input type="text" value="84093"/>
Bill To Country *	<input type="text" value="USA"/>
Bill To Email *	<input type="text" value="mscott@icmsolution"/>
Credit Card Type *	<input type="text" value="Visa"/>
Credit Card Number *	<input type="text" value="XXXXXXXXXXXX1111"/>
Expiration Date *	<input type="text" value="November"/> <input type="text" value="2008"/>

FIGURE 751. Manual Transaction Page

3. Enter the relevant details, such as the transaction amount and currency code, and click **Submit Transaction**.

This chapter covers the tasks associated with managing tasks. "Task Management" on page 59 provides an overview of how you work with tasks. See "Creating Tasks From Commerce Objects" on page 987 for more information about creating tasks from orders and quotes.

Creating Tasks

To Create a Task

Any enterprise user can create a task as follows:

1. Click **Task Management** in the Commerce Activity panel on the Sterling Multi-Channel Selling Solution home page.

This displays the Task List page.

COMERGENT
E-BUSINESS SYSTEM

Home About Help Logout

Task List:

Search for Tasks

ID Search Show All Advanced Search

Task List page. [Create Task](#)

ID	Name	Create Date	Priority	Update Date	Status	Due Date
600510	RFQ Creation Task	4/22/2005		4/22/2005	New	
600509	abcd	4/22/2005	High	4/22/2005	Open	4/30/2005
600508	abc	4/22/2005	Medium	4/22/2005	New	4/29/2005
600506	RFQ Creation Task	4/21/2005	Medium	4/22/2005	Open	
600606	Customer Credit Hold Task	4/21/2006		4/21/2006	New	

FIGURE 752. Task List Page

2. Click **New**.

The task detail page displays.

COMERGENT | Task Manager
eBusiness System

My Home My Account About Help Logout

Task Detail: [Go to Task List](#)

Detail

Task Detail page. [Create](#) [Cancel](#)

General Information

NOTE: (*) items are required.

*Task Name

*Priority

*Task Type

Due Date

*Status

Task Summary

URL 1

URL 2

URL 3

Email Creator ☐

Watcher List

FIGURE 753. Task Detail Page

3. Enter the following information:

- Task Name
- Task Summary

- Priority
 - Due Date
 - Task Type
4. To assign enterprise users as watchers of this task, click ... next to the Watcher list box.

The Hierarchical Entity Chooser window displays.

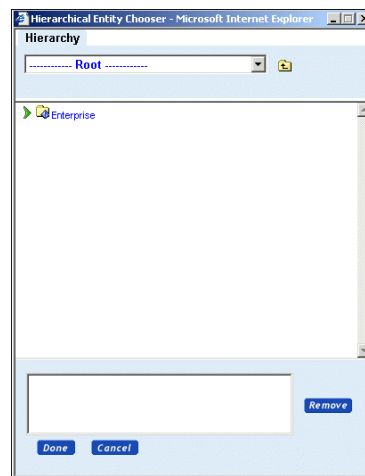


FIGURE 754. Hierarchical Entity Chooser

5. Click the arrow to navigate through the enterprise hierarchy. Click users to add them to the watcher list box.
6. Click **Done** when you finish selecting users for the watchers list.
7. On the Task Detail page, click **Create**.
The Task Detail page displays again
8. To enter a note associated with the task, click **Notes**.

The screenshot shows the 'Task Management' interface with a 'Notes' tab selected. The header includes 'TASK MANAGEMENT' and 'COMERGENT E-BUSINESS SYSTEM' with links for 'Home', 'About', 'Help', and 'Logout'. Below the header, the 'Task Notes:' section has a 'Detail' and 'Notes' tab. The 'Notes' tab is active, showing a text area for entering a new note and an 'Add Note' button. Below the text area, there is a table with columns: Date, Note, Organization, and User Name.

FIGURE 755. Task Detail Page: Notes Tab

9. Enter an appropriate note and click **Add Note**.

To Update an Existing Task

Users who are assigned tasks or who are on the watcher list for a task can update a task as follows.

1. Click **Task Management** in the Commerce Activity panel on the Sterling Multi-Channel Selling Solution home page.

This displays the Task List page.

The screenshot shows the 'Task List' page. The header is the same as Figure 755. Below the header, the 'Task List:' section has a search bar labeled 'Search for Tasks' with a dropdown menu for 'ID' and a text input field. To the right of the search bar are links for 'Search', 'Show All', and 'Advanced Search'. Below the search bar, there is a 'Task List page.' label and a 'Create Task' button.

FIGURE 756. Task List Page

2. Click the link to the task you want to update.

The task detail page displays.

TASK MANAGEMENT **COMERGENT**
E-BUSINESS SYSTEM

[Home](#) [About](#) [Help](#) [Logout](#)

Task Detail:

Detail **Notes**

Task Detail page. [Accept](#) [Cancel](#)

General Information

NOTE: (*) items are required.

***Task Name**
Reminder to check orders

***Task Summary**
Reminder to check orders

***Task Type**
EnterpriseCommerce

Object ID

***Status**
New

URL 1

URL 2

URL 3

Due Date
9/10/2004

***Priority**
High

***Creator**
ajones

Watcher List
cService

FIGURE 757. Task Detail Page

- Click **Accept** to take ownership of a task.

Automated Task Creation

Tasks can be created automatically when end-users perform specific actions such as requesting a price negotiation. This section describes what tasks are automatically created and which users are added to their watchers list.

TABLE 69. Automatically-Created Tasks

Application	Action	Watchers
Sterling Partner Programs	End-user submits claim	Enterprise users assigned to the end-user's account who have been assigned the Channel Executive function.
	End-user submits approval request	Enterprise users assigned to the end-user's account who have been assigned the Channel Executive function.
	Enterprise user activates a program	Enterprise users who have been assigned the Channel Executive function.

TABLE 69. Automatically-Created Tasks (Continued)

Application	Action	Watchers
Sterling Quotes	End-user submits price negotiation request	Enterprise users assigned to the end-user's account who have been assigned the Commerce function.
Sterling Orders	End-user places order beyond their credit limit	Enterprise users assigned to the end-user's account who have been assigned the Commerce function.
	End-user requests a return against an order	Enterprise users assigned to the end-user's account who have been assigned the Commerce function.

You can modify the default behavior by customizing or making configuration changes to the code for the automatically-generated tasks. See the *Events* chapter of the *Sterling Multi-Channel Selling Solution Developer Guide* for more information.

After a purchase has been made, an invoice may be generated to complete the transaction. The invoice is sent by the enterprise to the customer and the customer can either submit payment against the invoice or contest some aspect of the invoice. The Sterling Multi-Channel Selling Solution enables the enterprise and its customers to track invoices through their life cycles. See "Invoice Management" on page 46 for an overview of invoices and how to manage them in the Sterling Multi-Channel Selling Solution.

This chapter covers the following tasks:

- "To View an Invoice" on page 1070
- "To Modify an Invoice" on page 1072
- "To View the History of an Invoice" on page 1072
- "To Create a Credit Memo" on page 1073
- "To Create a Debit Memo" on page 1073

Invoice Administration

Enterprise users can view and modify invoices as follows. You must be assigned the Financials function to perform these tasks.

To View an Invoice

1. Click the link to the invoice in the Invoices panel on the Sterling Multi-Channel Selling Solution home page or if it is not listed, then click **More** to go to your Invoices tab on your workspace.

The screenshot displays the 'Invoices' tab within a workspace. At the top, there's a header with the 'COMERGENT E-BUSINESS SYSTEM' logo and navigation links like 'Home', 'About', 'Help', and 'Logout'. Below this is a 'Product Lists' section with tabs for 'Active', 'Quotes', 'Orders', 'Returns', and 'Invoices'. The 'Invoices' tab is selected. A search bar is present with the text 'Find Invoices that contain:' and a dropdown menu set to 'Order Number'. Below the search bar is a table of invoices. The table has columns for 'Invoice Number', 'Order Number', 'Due Date', 'Date Created', 'Amount', 'Balance', 'Invoice Status', 'User Name', and 'Organization'. There are four rows of data, each with a checkbox in the first column. Navigation links 'Previous' and 'Next' are located above the table.

	Invoice Number	Order Number	Due Date	Date Created	Amount	Balance	Invoice Status	User Name	Organization
<input type="checkbox"/>	75827613	9912593762	5/16/2003	5/16/2003	\$3,721.49	\$2,577.31	Disputed	Sutton, Felix	DataSolve
<input type="checkbox"/>	71137155	4601604194	5/16/2003	5/16/2003	\$120,204.04	\$0.00	Paid	Sutton, Felix	DataSolve
<input type="checkbox"/>	14591430	2783598787	5/16/2003	5/16/2003	\$6,314.04	\$6,314.04	Disputed	Sutton, Felix	DataSolve
<input type="checkbox"/>	96049622	8985592576	5/16/2003	5/16/2003	\$191,924.64	\$0.00	Paid	Collins, Linda	DataSolve

FIGURE 758. Invoices Tab of Workspace Page

By clicking **Advanced Search** in the Invoices panel, you search for an invoice.

HOME

COMERGENT
E-BUSINESS SYSTEM

[About](#) [Help](#) [Logout](#)

Invoices Search

Search for Invoices with the given criteria. Partial Entries and the wildcard character (*) are supported for Company Name, Customer ID, Customer First Name, Customer Last Name and Product ID.

Submit

Find Invoices by Partner or User

Company Name: Customer ID: Customer First Name: Customer Last Name:

Order Number: Invoice Number: Product ID:

Invoice Status:

Due Date
Starting Date: MD/YYYY
Ending Date: MD/YYYY

Last Updated
Starting Date: MD/YYYY
Ending Date: MD/YYYY

[Back to Top](#)

FIGURE 759. Invoice Search Page

2. On the Invoice Search page, enter the search criteria and click **Submit**.
The Invoices Tab of your workspace page displays the search results.
3. On the Invoice List page, click the link for the invoice whose detail you want to view.
4. The Invoice Detail page displays.

INVOICE ADMINISTRATION

COMERGENT
SELL-SIDE E-BUSINESS SYSTEM

[Home](#) > [Search](#) > [List](#) > [Detail](#)

[About](#) [Help](#) [Logout](#)

Invoice Detail

Invoice Number: **Chen Invoice** Invoice Status: **New**
Invoice Date: **1/1/2003** Due Date: **8/8/2008**
Balance: **\$0.22** Order Number: **4701295329**

Notes

Order Number: 4701295329

Bill To: Comergent Ms. Alla Budman 1201 Radio road suite 100 Redwood City, CA 94065 USA	Ship To: yahoo Mr. John Smith 500 Scott Blvd Building 1 Sunnyvale, CA 95099 USA	Sold To: Ms. Mary Brown 555 Pine street around the corner Boston , France	Remit To: RC Mr. RF RL RA1 RA2 Leningrad , 09090 USA
--	--	---	---

[Mark All Paid](#) [Update](#)

FIGURE 760. Invoice Detail Page

To Modify an Invoice

1. Navigate to the invoice as described in "To View an Invoice" on page 1070.
2. You can update the enterprise status of each invoice line item. The status for the invoice is updated automatically applying the rules described in "Invoice Statuses" on page 47.

To View the History of an Invoice

1. Navigate to the invoice as described in "To View an Invoice" on page 1070.
2. For any line item, click **History**. The Invoice History List page displays.

Invoice Line Item History List					
Invoice Number: Cchen Invoice Invoice Line Number: 24 Invoice Date: 1/1/2003 Due Date: 9/8/2009 Balance: \$0.22 Order Number: 4701295329					
Done					
Update Date	Updated By	Customer Status	Enterprise Status	Product ID	Quantity
11/4/2002	ERPAdmin	New	New	MXD9-7500	10

FIGURE 761. Invoice History List Page

3. Click **Done** to return to the Invoice Detail page.

Memo Administration

You can create credit and debit memos for an invoice.

To Create a Credit Memo

1. Navigate to the invoice against which you want to create a credit memo.
2. Click **Create Memo**.
3. Select Credit from the drop-down list.
4. Enter the adjustment information as required.
5. Click **Save**.

To Create a Debit Memo

1. Navigate to the invoice against which you want to create a debit memo.
2. Click **Create Memo**.
3. Select Debit from the drop-down list.
4. Enter the adjustment information as required.
5. Click **Save**.

This chapter covers the tasks associated with enterprise system administration for the Sterling Multi-Channel Selling Solution. Enterprise employees are responsible for maintaining their enterprise installation. See "Configuring the Sterling Multi-Channel Selling Solution" on page 62 for an overview of enterprise system administration.

Note that some site administration tasks are performed by site system administrators: see CHAPTER 41, "Site System Administration" for more information.

System Administration Tasks

You perform the System Administration tasks through the System Administration link on the Sterling Multi-Channel Selling Solution Administration page. This link is accessible only to authorized personnel.

You can modify system configuration settings only if you have the appropriate access function. In the reference implementation provided with the Sterling Multi-Channel Selling Solution, only users with the Program Management function (defined in the **Entitlements.xml** configuration file as `EnterpriseProgramManagement`) may access the System Administration pages.

To Modify System Settings

1. Click **System Services** in the System Administration panel on the Sterling Multi-Channel Selling Solution home page.

The system configuration properties are organized into logically-related groups.

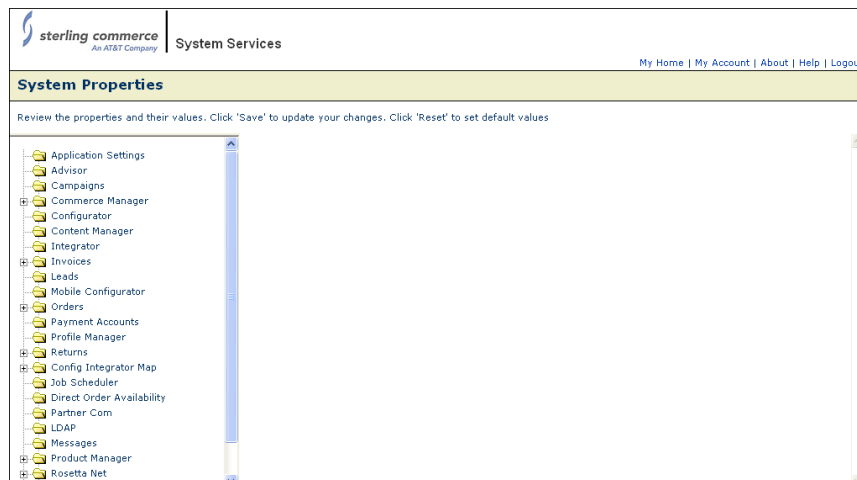


FIGURE 762. System Administration Page

2. Access each group by clicking the corresponding link on the System Administration page.

Each link takes you to a new page that displays the current values for each property.

3. Make the appropriate changes as necessary.

See "Configuration Properties" on page 1077 for a description of each set of properties.

4. Click **Save All and return to List**.

5. By default, changes to the value of a system property take effect immediately, and are persisted to the file system. A server restart is not necessary, but if you do restart the server, the new value of the property remains in effect.

Configuration Properties

Use the steps described in "To Modify System Settings" on page 1076 to access the property you want to modify. With the exception of the following, the properties each contain a detailed description within the user interface.

Locale Settings

The locale names supported by your installation combine the ISO-639 language codes and ISO-3166 country codes. You can define display names that will appear for these locale names in the Sterling Multi-Channel Selling Solution. You can define a display name for each supported locale, that is, how each locale name will appear for each supported locale. For example, you can decide that, in the en_us locale, "en_us" will be displayed as "United States", while in the de_de locale (Germany), "en_us" will be displayed as "Vereinigte Staaten".

Note: If a display name is not defined for a locale name for the locale effective during a session, then the fields in which that locale name should appear will be blank.

Changes that you make to locale names become active when you restart the Sterling Multi-Channel Selling Solution.

COMERGENT | System Administration
eBusiness System

[My Home](#) | [My Account](#) | [About](#) | [Help](#) | [Logout](#)

Properties for Locale

[Go to List](#)

[Save](#) [Save All and Return to List](#) [Reset](#)

Effective Locale Name Mapping	
Effective Locale en_US (English, United States)	
Locale Name	Display Name
de_DE (German, Germany)	Germany
en_US (English, United States)	United States
fr_FR (French, France)	France
zh_TW (Chinese, Taiwan)	Taiwan

Change display names that are associated to Locales. Note: Changing the Effective Locale will discard all unsaved changes.

FIGURE 763. Mapping Display Names to Locale Names

To Define the Display Names

1. Select an effective locale from the Effective Locale drop-down list.

The locale names for the supported locales appear in the Locale Name column. The current display name, if any, for each locale appears in the next field in the language of the effective locale.
2. In the text field next to each locale name, type the display name you want to appear for each locale name.
3. Repeat the last two steps for each supported locale.
4. Click **Save** to save the changes and remain at the Locale Settings page; click **Save All and return to List** to save the changes and redisplay the System Administration page.

If you click **Save**, then the Effective Locale field re-displays the default system locale, as defined in the Internationalization properties.

Repeat these steps for each locale in the Effective Locale drop-down list.

Attention: If you change the effective locale without clicking Save , then any unsaved changes to Display Names will be lost.

Job Scheduler Settings

The Sterling Multi-Channel Selling Solution supports the ability to schedule tasks that must be performed at regular intervals as cron jobs. See CHAPTER 40, "Job Scheduling Administration" for more information on this scheduling feature.

There are two types of cron jobs: system and application.

- System cron jobs run without session information and without an associated Sterling Multi-Channel Selling Solution user. Typically, they are used for low-level background tasks such as garbage collection. System cron jobs do not save their last execution time or execution status to the Knowledgebase because the same job may be run on several servers in a cluster.
- Application cron jobs are used when session information (such as a username or locale) is required to run the job or if audit information might be needed to determine how changes to data objects were made. Application cron jobs are initiated by posting an XML message to the Sterling Multi-Channel Selling Solution using the message URL for cron

jobs: consequently, to enable application cron jobs, you must take care to set this URL correctly.

For example, if the main URL used to access the Sterling Multi-Channel Selling Solution is:

`http://server:port/Sterling/en/US/enterpriseMgr/matrix`

then set the cron job message URL to:

`http://server:port/Sterling/msg/matrix`

Similarly, if the main URL used to access the Sterling Multi-Channel Selling Solution is:

`http://server:port/store/en/US/enterpriseMgr/anderel`

then set the cron job message URL to:

`http://server:port/store/msg/anderel`

You can choose whether or not to allow either type of cron job to run on your implementation.

Attention: Some cron jobs such as the search index builder must be run as an application cron jobs. To support advanced search, you must enable application cron jobs.

Application cron jobs are created specifying a username and password of a Sterling Multi-Channel Selling Solution user. You must ensure that the Password data field of the CronConfig data object is not set to store one-way encrypted values.

In a clustered installation of the Sterling Multi-Channel Selling Solution, if you want a job to run on all servers in the cluster, then make it a system cron job. If you want the job to be run on only one server in the cluster, then you must make it an application cron job.

Frequently Used System Administration Settings

This section describes some of the most commonly used system administration settings: it does not cover all the possible settings.

Commerce Manager

Are comergent applications rendered as part of a frameset?

Set this property to TRUE if the Sterling Multi-Channel Selling Solution end-user pages are displayed within a frame set. For example, suppose that you have a frame set defined as:

```
<html>
```

```
<frameset rows="120,*">
  <frame src="http://server:port/Navigation.html">
  <frame src="http://server:port/Sterling/en/US/adirect/
    matrix?cmd=OnlineOrderingPageDisplay">
</frameset>
</html>
```

When this page is displayed, you want the Sterling Multi-Channel Selling Solution pages to be displayed without their built-in banner heading. By setting this system property to “True”, you suppress the display of the built-in banner heading: end-users only see the navigation links provided in your **Navigation.html** page.

Availability Data Access Method

This property controls how inventory availability is obtained and estimated delivery date is calculated.

- If you select Static: inventory availability information is obtained from the static database tables, and estimated delivery date is not calculated.
- If you select System Initiated Real-Time: inventory availability information is obtained using a real-time availability check call to the Sterling Multi-Channel Fulfillment Solution (when the supplier is the current storefront) and/or static database tables (when the supplier is not the current storefront), and estimated delivery date is calculated automatically.
- If you select On Demand Real-Time: a Check Availability button is displayed on the Catalog Detail or Commerce page. Upon clicking the button, inventory availability information is obtained using a real-time availability check call to the Sterling Multi-Channel Fulfillment Solution (when the supplier is the current storefront) and/or static database tables (when the supplier is not the current storefront). While estimated delivery date is calculated on the Checkout page if the user clicks the Check Availability button, it is calculated automatically when the user places the order regardless of whether the user clicks the Check Availability button or not.

<p>Note: Before you choose System Initiated Real-Time or On-Demand Real-Time, you must make sure that the Sterling Multi-Channel Selling Solution is integrated with the Sterling Multi-Channel Fulfillment Solution. For more information about integrating the Sterling Multi-Channel Selling Solution with the Sterling Multi-Channel Fulfillment Solution, see the <i>Sterling Selling and Fulfillment Solution Integration Guide</i>.</p>

SMTP Host Machine

Set this property to the appropriate name of the SMTP host machine which is used to send email from the Sterling Multi-Channel Selling Solution.

Application Settings

Allowed Decimal Places for displaying extended prices

The value of this property determines how many decimal places are used in displaying calculated extended prices to users.

Allowed Decimal Places for displaying list prices

The value of this property determines how many decimal places are used in displaying list prices to users.

Lines Per Page in List Displays

This property controls the pagination behavior of the Sterling Multi-Channel Selling Solution. It specifies how many items appear on each page of a paginated list.

Orders

Email Address for CSR

Set this field to an appropriate address for customer service representatives. An email message is sent to this address when a user submits a quote for price negotiation and it is not automatically approved (see "RFQ Rule Acceptance Percentage" on page 1081).

Quote Expiration Duration

When an end-user creates a quote, this system property determines the number of days for which the quote is valid.

RFQ Rule Acceptance Percentage

When a user submits a quote, you can set a rule so that if the user's requested price is within a certain percentage of the list price, then the request is automatically approved, and the submitted quote becomes an orderable quote immediately.

For example, if you set this value to 10, then a user who requests a price of \$95.00 for an item whose price to them is \$100.00, then the submitted quote is approved automatically. However, if the user requests a price of \$85.00, then the submitted quote must be approved (or rejected) by a customer service representative.

If you set the value to "0", then submitted quotes are never approved automatically.

Send Orders XML msgs to ERP

A system administration setting determines whether orders are posted as XML messages to an external ERP system when they are placed in the Sterling Multi-Channel Selling Solution (see *Sterling Multi-Channel Selling Solution Implementation Guide* for more information). There may be occasions when you want to temporarily suspend sending these messages: use this system setting to do so.

- If you set this property to true, then orders are posted to the ERP system as soon as they are placed.
- If you set the property to false, then orders are not posted when they are placed. You can use a cron job to post them at a later time. See "OrdersToERP" on page 1107 for more information about the cron job.

Product Manager

List Size for Each Indexing Thread

This parameter determines how many objects are retrieved in one batch by each indexing thread.

List Size for Each Indexing Thread for Incremental Indexing

This parameter determines how many objects are retrieved in one batch by each indexing thread for an incremental build.

During implementation, you can configure business rules by editing the property files provided with the Sterling Multi-Channel Selling Solution. After implementation, you can manage the business rules from the Business Rules Manager page. See "Configuring the Sterling Multi-Channel Selling Solution" on page 62 for an overview of business rules administration.

Business Rules Administration Tasks

To manage the business rules in your Sterling Multi-Channel Selling Solution, you must be an enterprise user that has been assigned the appropriate function: typically, this is the Program Management function.

To Manage Business Rules

1. Click **Business Rules** in the System Administration panel on the Sterling Multi-Channel Selling Solution home page.

The Business Rules Manager page displays (see Figure 764 on page 1084).

The Business Rules link appears on the Sterling Multi-Channel Selling Solution home page only if you are assigned the appropriate function to perform this task.



FIGURE 764. Business Rules Manager Page

2. Click a link to modify the desired set of business rules.

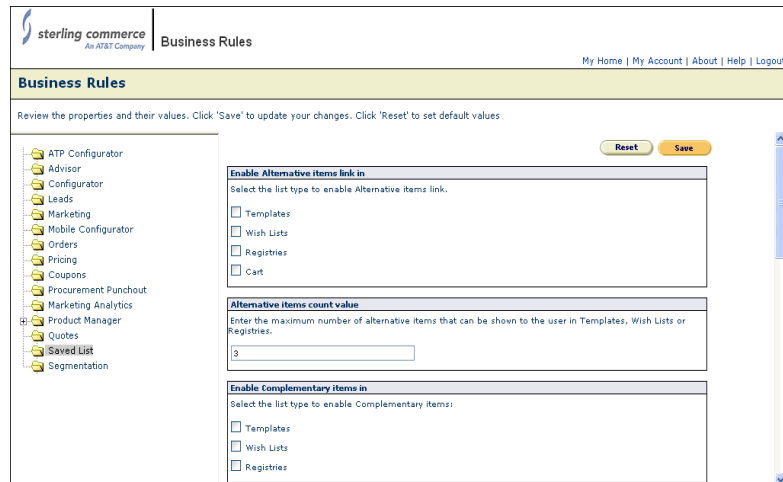


FIGURE 765. Business Rules Detail Page

Each business rule contains help text describing the rule.

3. Click **Save**.
4. Unless otherwise directed, the changes to the value of a business rule take effect immediately, and are persisted to the file system. This means that a

server restart is not necessary, but if the server is restarted, the new value of the business rule continues to be used.

Frequently Used Business Rules

This section describes some of the most commonly used rules.

Advisor

Apply Dynamic Pricing to Product List

This rule controls the way pricing is displayed as a user navigates your product catalog or Sterling Advisor or performs a product search.

- To retrieve prices using the pricing engine, select “On”.
- To display prices as they were saved when the current search index was created, select “Off”.

Track Action Rules

A number of Sterling Advisor business rules enable you to record how users navigate the product catalog and use the Sterling Advisor questionnaire. On a busy site, the volume of data generated by this logging can be large: take care to size your database carefully, and take measures to archive data if need be.

Configurator

Pricing Type

The Pricing Type rule determines how prices are determined for configured products. You can set prices for an option class or option items either by associating a product with it (in which case the price is determined from the Sterling Pricing engine) or by setting the value of the Price display property. This rule determines which method should be used.

Show Promotions

The Show Promotions rule determines whether or not promotions display as customers configure products. Enabling this rule applies only when a promotion is associated with products that are associated with a model, option class or an option item.

Coupons

Enable Coupon

Set this rule to true to allow customers to add coupons to their carts.

Leads

Automatic assign uploaded leads to their fixed recommended partners

Lead administrators can upload leads using XML or tab-delimited text files. When they do so, this rule determines whether the uploaded leads are automatically assigned to their recommended partner. This is the optional RecommendedPartnerName child element of the LeadCreate element.

Note that if the partner name does not exist or if more than one partner has the same name, then the lead is created, but the RecommendedPartnerName element is ignored.

Lead Management Number of Recommended Partners/Users for Popup

This business rule determines how the auto-assign feature of Sterling Leads behaves. When you select one or more leads to auto-assign, you can be prompted to control how the Sterling Multi-Channel Selling Solution works as follows:

- If you select Always, a popup window prompts you to confirm the auto-assignment of the lead to partners.
- If you select Never, the auto-assignment is performed without a confirmation.
- If you select Number of Partners and enter a positive integer, the popup window is displayed if the number of partners exceeds the number that number you enter.

Lead Management Recommended Partner Search Attributes

This business rule determines which attributes are used to auto-assign leads. You can select any or all of the attributes:

- Partner Type
- Partner Level
- Territory
- Customer Type

Marketing

Automatic Promotion Display

This rule determines whether promotions are displayed automatically when a user views a cart for which promotions are relevant. If you set this rule to true, promotions are displayed in a pop-up window that is displayed without any action by the user.

Marketing Analytics

Abandoned Cart Threshold (Amount)

Use this rule to set the amount of time an active cart can remain unchanged before it is considered abandoned. The Abandoned Cart Threshold (Units) rule determines the unit of measure for this value.

Abandoned Cart Threshold (Units)

Use this rule to set the unit of measure for the Abandoned Cart Threshold (Amount) rule. Choose one of the following units of measure:

- Minutes
- Hours
- Days

The default unit of measurement is Days.

Abandoned Cart (Processed Data) Retention

Use this rule to set the number of days to retain processed abandoned cart data. Leave this rule blank to retain abandoned cart data indefinitely. Indefinite retention is the default.

Order (Processed Data) Retention

Use this rule to set the number of days to retain processed order data. Leave this rule blank to retain processed order data indefinitely. Indefinite retention is the default.

Track Catalog Category Browse Events

Use this rule to set whether or not to track the catalog categories that your users browse. Set this rule to True to enable tracking. Set this rule to False to disable tracking. False is the default.

Catalog Category Browse Event Retention

Use this rule to set the number of days to retain catalog category browsing data. This rule takes effect only if you set Track Catalog Category Browse Events to True. Leave this rule blank to retain the data indefinitely. Indefinite retention is the default.

Track Product Detail View Events

Use this rule to set whether or not to track the product detail pages that your users view. Set this rule to True to enable tracking; False to disable tracking. The default is False.

Product Detail View Event Retention

Use this rule to set the number of days to retain product detail viewing data. This rule takes effect only if you set Track Product Detail View Events to True. Leave this rule blank to retain the data indefinitely. Indefinite retention is the default.

Track Catalog Search Events

Use this rule to set whether or not to track the search terms used to find products in the catalog. Set this rule to True to enable tracking; False to disable tracking. The default is False.

Catalog Search Event Retention

Use this rule to set the number of days to retain search term data. This rule takes effect only if you set Track Catalog Search Events to True. Leave this rule blank to retain the data indefinitely. Indefinite retention is the default.

Identify Users Before Login

Use this rule to attempt to identify users before they log in, based upon the last authenticated user who used the browser. Set this rule to True to enable user identification before login; False to disable user identification before logging. The default is True.

Note:	Change this rule only during periods of low user activity to avoid putting current Anonymous User sessions into an inconsistent state.
--------------	--

Orders

Enable In-Store Pickup

Use this rule to enable or disable in-store pickup support for orders. Set this rule to true if you want in-store pickup to be supported for orders. Set this rule to false if

you want only shipping to be supported for orders. By default, this rule is set to false.

Write Order Line Item History to the Database

Use this business rule to control whether changes to orders are logged to the Knowledgebase.

Enable Quotes

Use this rule to enable or disable support for quotes. If you set this rule to false, end-users cannot save a cart as a quote.

Attention: If you disable support for quotes, check that the Quotes widget is removed or disabled on the end-user JSP page that displays the widget.

Show Widgets on Home Page

Several business rules determine whether or not to show certain types of widgets on the home pages of users. By default, enterprise users such as administrators and Customer Service Representatives see only the Tasks widget on their home page, while all other users see all widgets. To turn off viewing a particular widget, set the relevant business rule to false. To allow administrators and Customer Service Representatives to view particular widgets, you must modify the **WEB-INF/web/en/US/enterpriseMgr/home/HomeData.jsp** page. See the section Home Page Widgets in Chapter 17, Customization Examples, of the *Sterling Multi-Channel Selling Solution Developer Guide* for more information.

The rules are:

- show Carts Widget On Home Page
- show Invoices Widget On Home Page
- show Orders Widget On Home Page
- show Quotes Widget On Home Page
- show Returns Widget On Home Page
- show Routed Carts Widget On Home Page
- show SalesContracts Widget On Home Page
- show Tasks Widget On Home Page
- show TeamTasks Widget On Home Page

Parameter to pass to the DB as the rownum or top hint in SQL Select statements for widgets

Use this rule to determine the number of results returned from the Knowledgebase by SQL SELECT queries.

Pricing

Create Product Entitlement Based on Pricelist

This rule is used to specify whether price lists and their assignment to partners are used to automatically specify product entitlements. If you set this rule to "Auto-Create", whenever a price list is created a corresponding product entitlement is created, and each time the price list is assigned to a partner, the product entitlement is also assigned.

Cache Currency and Customer Type assignments to a partner

Use this rule to determine whether the currencies and customer types available to partners are cached. If you set this rule to "Yes", then if you change the assignment of price lists to partners in such a way as to change their access to currencies and customer types, then partner users will not see the change take effect until the cache is flushed. The time interval that determines when the cache is flushed is controlled by the Expiry time (minutes) for Currency Customer Type cache business rule.

Cache Price List assignments

Use this rule to determine if the assignment of price lists to a user's partner should always be retrieved when there is a call to the pricing engine, or whether the assignments should be cached for the duration of the user's session. If you set this rule to "Yes", then if a new price list is assigned to a partner while a partner user is logged in, then they will not see the prices from the new list.

Pricing Engine Type

This rule controls whether the Sterling Multi-Channel Selling Solution uses the Sterling Pricing engine to retrieve prices or not. If you set this rule to Entitlement Only, then prices must be supplied by an external pricing engine and the Sterling Multi-Channel Selling Solution price lists are used only to determine which users can see which products. See the *Sterling Multi-Channel Selling Solution Implementation Guide* for more information.

Default customer type

Use this rule to determine the default customer type that will be used in pricing calculation. By default, this rule is set to "General".

Enable Auxiliary Price Calculation

Use this rule to determine whether auxiliary prices should be calculated for the products when there is a call to the pricing engine.

- If you set this business rule to "Yes", auxiliary price will be calculated when there is a call for catalog or cart level price.
- If you set this business rule to "No", auxiliary price will not be calculated when there is a call for catalog or cart level price. This is the default setting.

Product Manager

Suppress Empty Categories

A product category is empty if there are no products in it or in any of its child categories. This rule controls whether empty categories are displayed to end-users as they navigate the product catalog. If you select "suppress empty categories", then make sure that you update the product category tree. See "To Suppress Display of Empty Product Categories" on page 433.

Quotes

Do you want to validate a configuration when the Order is placed?

This rule determines whether a product configuration is validated at the time that the order is placed.

- If the business rule is set to true, then when the order is placed, the product configuration is validated. This is the default setting.
- If the business rule is set to false, then the product configuration is not validated when the order is placed.

Use Configuration Prices for Service Products?

This rule determines whether configurable service product line items retain prices specified in the configuration session once the configured product has been put in the cart.

- If the business rule is set to true, then prices from a configuration session of a service product are preserved as the user works with this cart and places it as an order.

- If the business rule is set to false, then prices from a configuration session of a service product are recalculated using the Sterling Pricing engine as the user works with this cart and places it as an order.

Merge Line Items in Cart?

This rule controls whether line items in carts are merged if they have the same product ID. For example, if a user has the product ID MXWS-7500 in their cart with quantity 10, and they add another MXWS-7500 item to their cart:

- If the Merge Line Items in Cart? rule is set to true, the existing line is updated with quantity 11.
- If the Merge Line Items in Cart? rule is set to false, a new line item is created for the newly-added MXWS-7500 item.

Saved List

Enable Alternative items link in

Use this rule to set where the user can view alternative items for a line item. The user can then replace the line item with an alternative item. You can select any or all of the following types of lists:

- Templates
- Wish Lists
- Registries
- Cart

Alternative items count value

Use this rule to control the maximum number of alternative items shown to the user for a line item in a template, wish list, or registry.

Enable Complementary items in

Use this rule to set where the user can view complimentary items for a line item. You can select any or all of the following types of lists:

- Templates
- Wish Lists
- Registries

Disable/enable List type

This rule determines the types of lists that will be disabled or enabled. To enable the list types, you can select any or all of the following types of lists:

- Baby Registry
- Wedding Registry
- Templates
- Wish Lists

Deactivate time for Baby Registry

Use this rule to control the time (in years) after which a baby registry will be deactivated.

Deactivate time for Wedding Registry

Use this rule to control the time (in years) after which a wedding registry will be deactivated.

Complementary items count value

Use this rule to control the maximum number of complementary items shown to the user for a line item in a template, wish list, or registry.

Show Wish Lists widget on HomePage and MyAccount page

This rule determines whether the Wish Lists widget is shown to the user on the Home Page and My Account page. Set this rule to true to show the Wish Lists widget on the Home Page and My Account page. Set this rule to false to hide the Wish Lists widget.

Show Templates widget on HomePage and MyAccount page

This rule determines whether the Templates widget is shown to the user on the Home Page and My Account page. Set this rule to true to show the Templates widget on the Home Page and My Account page. Set this rule to false to hide the Templates widget.

Show Registries widget on HomePage and MyAccount page

This rule determines whether the Registries widget is shown to the user on the Home Page and My Account page. Set this rule to true to show the Registries widget on the Home Page and My Account page. Set this rule to false to hide the Registries widget.

Segmentation

Maximum number of segment members shown

This rule determines the maximum number of members to show when a user clicks the View Users button of the **Membership** tab from the Customer Segmentation Administration page to view the results of segment membership calculation. The default is 5000.

This chapter covers the tasks associated with Job Scheduler. For an overview of job scheduling, see "Job Scheduling" on page 63. The latter section also includes important information about setting properties related to job scheduling.

Note:	Two settings define how jobs are run on your Sterling Multi-Channel Selling Solution. See "Job Scheduler Settings" on page 1078.
--------------	--

Enterprise and Storefront Cron Jobs

Some cron jobs affect the entire e-commerce site and are managed only by enterprise administrators. For example, the cron job that maintains the catalog index, the cron job that controls when segment memberships are reprocessed, and the cron job that controls when the nightly segment build process starts, are all enterprise-level cron jobs. There can be only one instance of these cron jobs on a given e-commerce site, and only the enterprise administrator can see and manage them.

It is possible for storefront admins to create these "one instance" cron jobs as well: they also have access to the cron facility. Enterprise administrators must enforce the one-instance rule and ensure that storefront administrators first check with them before creating cron jobs. The following is the list of out-of-the-box cron jobs for which only one instance can exist on an e-commerce site.

- Product Sync
- User Sync
- Nightly Segments Build
- Reprocess Segments
- Maintain Indexsets

Storefront administrators can create and manage their own storefront-specific cron jobs. As a storefront administrator, you can see only your own storefront cron jobs.

Note that in a cluster environment, application cron jobs must be initiated by only one member of the cluster. In a cluster environment, you control which server starts the cron job, although you do not control which member of the cluster runs the job. System cron jobs should generally be run on all members of the cluster.


Job Scheduling Tasks

You can perform the following tasks:

- "To Display a Scheduled Job" on page 1096
- "To Create a Job" on page 1098
- "To Modify a Job" on page 1099
- "To Run a Cron Job Immediately" on page 1101
- "To Delete a Job" on page 1101
- "To View the History of a Cron Job" on page 1101

To Display a Scheduled Job

1. Click **Job Scheduler** in the System Administration panel on the Sterling Multi-Channel Selling Solution home page.



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Administration

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List of Cron Jobs

Create New Cron Job

Cron Job List	Name	Actions	CronStatus	CronType	Frequency	Start Date	End Date	Last Exec Time	Last Exec Status
202	OrdersToERP		Inactive	Application	3 hour(s)	5/1/2001	12/31/2199		
203	CommerceOne PO		Inactive	Application	6 hour(s)	5/1/2001	12/31/2199		
204	Export Catalog		Inactive	Application	1 week(s)	5/1/2001	12/31/2199		
205	Import Catalog		Inactive	Application	1 week(s)	5/1/2001	12/31/2199		
206	Update Catalog		Inactive	Application	1 day(s)	5/1/2001	12/31/2199		
207	Maintain Indexsets		Inactive	Application	60 week(s)	1/23/2003	12/31/2199		
208	Campaigns Execution		Inactive	Application	60 minute(s)	1/1/2004	12/31/2199		
209	Offline Data Set Builder		Inactive	Application	1 day(s)	1/31/2004	1/31/2199	01/31/2005 4:37 PM	
>10	Maintain		Inactive	Application	1 day(s)	5/1/2001	12/31/2199		

FIGURE 766. Cron Job List Page

- Click the name of a cron job to display the details of the selected job.

COMERGENT eBusiness System		Administration															
My Home My Account About Help Logout																	
Edit Cron Job Configuration																	
Save All Changes Cancel																	
Cron Job Information																	
Job Name Export Catalog		<input type="checkbox"/> Active		Program com.comergent.apps.productMgr.dataSynd.CatalogExportC													
				Command Line Arguments ExportSetName=CatalogExportSet													
Cron Job Type																	
<input type="radio"/> System		<input checked="" type="radio"/> Application															
		Username ajones		Password *****													
Cron Job Schedule																	
Start date and time May 1 2001		Hours 0		Minutes 0													
End date and time Dec 31 2199		Hours 0		Minutes 0													
Frequency every 1 weeks																	

FIGURE 767. Cron Job Configuration Page

To Create a Job

Attention: If you are running multiple instances of the Sterling Multi-Channel Selling Solution, then creating or modifying a cron job will affect any of these instances running off the same Knowledgebase instance.

1. Click **Job Scheduler** in the System Administration panel on the Sterling Multi-Channel Selling Solution home page.
2. Click **Create New Job**.

The Cron Job Configuration page displays.

FIGURE 768. Cron Job Configuration Page

3. Enter the information about the job.

TABLE 70. Cron Job Configuration Page

Field	Description
Job Name	The name of the cron job
Program	The java implementation class that executes the job

TABLE 70. Cron Job Configuration Page (Continued)


Field	Description
Command Line Arguments	<p>The command line parameters that provide information about the job.</p> <p>For example, you can specify that a cron job should time out after 300 seconds (5 minutes) by setting the RequestTimeout parameter as follows:</p> <p>RequestTimeout=300</p>
Cron Job Type	<p>The type of the cron job: a system level cron job (such as cache cleaning) or an application level cron job (such as importing/exporting)</p> <p>If you select Application, then you must enter the username and password required for access to the particular data. For example, if the application-level cron job involves product manager, then you must enter a username and password with privileges to access Sterling Product Manager.</p>
Frequency	How often will the job be run? Every three days? Every week? Every five minutes? and so on.
Start date and time/ End date and time	<p>The effective start and end period between which dates and times the cron job will run. This, along with Frequency, determines when the job will run. For example, if you entered a frequency of three days, then the job will run every three days from the task start date and time until the task end date and time is reached.</p> <p>You can enter the same dates and times for both start date and time, in which case the job will be run only once, at a specific time.</p>

4. Check the box next to **Active** to make the job available to be run.
5. Click **Save All Changes**.

To Modify a Job

<p>Attention: If you are running multiple instances of the Sterling Multi-Channel Selling Solution, creating or modifying a cron job will affect any of these instances running off the same Knowledgebase instance as the cron job.</p>

1. Click **Job Scheduler** in the System Administration panel on the Sterling Multi-Channel Selling Solution home page.



sterling commerce

An AT&T Company

Administration

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List of Cron Jobs

Create New Cron Job




























Cron Job List	Name	Actions	Cron Status	Cron Type	Frequency	Start Date	End Date	Last Exec Time	Last Exec Status
202	OrdersToERP	  	Inactive	Application	3 hour(s)	5/1/2001	12/31/2199		
203	CommerceOne PO	  	Inactive	Application	6 hour(s)	5/1/2001	12/31/2199		
204	Export Catalog	  	Inactive	Application	1 week(s)	5/1/2001	12/31/2199		
205	Import Catalog	  	Inactive	Application	1 week(s)	5/1/2001	12/31/2199		
206	Update Catalog	  	Inactive	Application	1 day(s)	5/1/2001	12/31/2199		
207	Maintain Indexsets	  	Inactive	Application	60 week(s)	1/23/2003	12/31/2199		
208	Campaigns Execution	  	Inactive	Application	60 minute(s)	1/1/2004	12/31/2199		
209	Offline Data Set Builder	  	Inactive	Application	1 day(s)	1/31/2004	1/31/2199	01/31/2005 4:37 PM	
210	Maintain Configuration	  	Inactive	Application	1 day(s)	5/1/2001	12/31/2199		

FIGURE 769. Cron Job List Page

- Click the name of a cron job to display the details of the selected job.
The details are displayed on the Cron Job Configuration page.

COMERGENT <small>eBusiness System</small>		Administration		My Home My Account About Help Logout					
Edit Cron Job Configuration									
Save All Changes Cancel									
Cron Job Information									
Job Name Export Catalog		<input type="checkbox"/> Active		Program com.comergent.apps.productMgr.dataSynd.CatalogExportC					
				Command Line Arguments ExportSetName=CatalogExportSet					
Cron Job Type									
<input type="radio"/> System		<input checked="" type="radio"/> Application		Username ajones					
				Password *****					
Cron Job Schedule									
Start date and time May 1 2001		Hours 0		Minutes 0					
End date and time Dec 31 2199		Hours 0		Minutes 0					
Frequency every 1 weeks									

FIGURE 770. Cron Job Configuration Page

- Enter the information about the job.
See Table 70, "Cron Job Configuration Page", on page 1098 for a description of the fields.
- Check the box next to **Active** to make the job available to be run.

5. Click **Save All Changes**.

To Run a Cron Job Immediately

You may need to sometimes run a cron job immediately.

1. Click **Job Scheduler** in the System Administration panel on the Sterling Multi-Channel Selling Solution home page.
2. In the list of cron jobs, identify the job that you want to run immediately.
3. Click **Run Now**.

The cron job will be immediately scheduled to run, but if jobs are ahead of it in the cron job queue, then it will not run until those jobs have completed.


To Delete a Job

1. Click **Job Scheduler** in the System Administration panel on the Sterling Multi-Channel Selling Solution home page.
2. Check the box next to the job(s) you want to delete.
3. Click the Delete icon (**X**) in the Actions column.

To View the History of a Cron Job

You may need to review how a cron job has run in the past. To do this:

1. Click **Job Scheduler** in the System Administration panel on the Sterling Multi-Channel Selling Solution home page.
2. In the list of cron jobs, identify the job whose history you want to view.
3. Click **Show History**.



Administration

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Cron Job History

Campaigns Execution

Cron Job List

Previous

Next

Execution Start Time	Execution EndTime	Execution Duration (sec)	Execution Status	Execution Detail
2005-11-28 13:00:00.0	2005-11-28 13:00:00.0	0.0	Success	
2005-11-28 12:00:00.0	2005-11-28 12:00:00.0	0.0	Success	
2005-11-28 11:00:00.0	2005-11-28 11:00:00.0	0.0	Success	
2005-11-28 10:00:00.0	2005-11-28 10:00:00.0	0.0	Success	
2005-11-28 09:00:00.0	2005-11-28 09:00:00.0	0.0	Success	
2005-11-28 08:00:00.0	2005-11-28 08:00:00.0	0.0	Success	
2005-11-28 07:00:00.0	2005-11-28 07:00:00.0	0.0	Success	
2005-11-28 06:00:00.0	2005-11-28 06:00:00.0	0.0	Success	
2005-11-28 05:00:00.0	2005-11-28 05:00:00.0	0.0	Success	
2005-11-28 04:00:00.0	2005-11-28 04:00:00.0	0.0	Success	
2005-11-28 03:00:00.0	2005-11-28 03:00:00.0	0.0	Success	
2005-11-28 02:00:00.0	2005-11-28 02:00:00.0	0.0	Success	
2005-11-28 01:00:00.0	2005-11-28 01:00:00.0	0.0	Success	
2005-11-28 00:00:00.0	2005-11-28 00:00:00.0	0.0	Success	
2005-11-27 23:00:00.0	2005-11-27 23:00:00.0	0.0	Success	

FIGURE 771. Cron Job History Page

Cron Jobs

If you install the Sterling Multi-Channel Selling Solution with the reference data, the installation includes the pre-defined cron jobs described in this section.

If you installed the Sterling Multi-Channel Selling Solution with minimal data, only the Cache Cleanup job is included. If you want to implement the other jobs, you must create them by following the steps in "To Create a Job" on page 1098. The following sections contain the information needed to create these jobs.

Note that all cron job timeout values are specified in seconds.

Specifying -1 as a timeout value means that the cron job never times out.

Cache Cleanup

This group of properties determine the frequency and class of the cron job used to clean the cache.

Campaigns Execution

This cron job sends the promotional campaign emails previously set up using Sterling Campaigns. It searches for all the campaigns whose execution date and time is past and sends the emails.

TABLE 71. Campaigns Execution Cron Job

Cron Job Field	Entry
Program	com.comergent.apps.mktMgr.campaigns.bizAPI.CampaignsCron
Command Line Arguments	RequestTimeout=-1
Cron Job Type	Application

CommerceOne PO

CommerceOne posts purchase orders to *debs_home/WEB-INF/commerceone/*. This cron job takes the purchase orders in this directory and posts them to the local installation of the Sterling Multi-Channel Selling Solution.

TABLE 72. CommerceOne PO Cron Job

Cron Job Field	Entry
Program	com.comergent.apps.integrator.COnePO
Cron Job Type	Application

Contract Expiration

Service contracts can include multiple service products with varying expiration dates. The Contract Expiration cron job searches for service contracts containing service contractible items whose end dates have passed. It updates the next end date and final end date in the service contract header information. This information is critical for running other service contract-related cron jobs such as Create Task for Contracts Nearing Expiration and Send Email for Contracts Nearing Expiration. Run this cron job daily if your implementation includes service contracts.

TABLE 73. Contract Expiration Cron Job

Cron Job Field	Entry
Program	com.comergent.apps.serviceContracts.bizAPI.ContractsExpirationCron
Cron Job Type	Application

ContractsToERP

This cron job defines how service contracts are sent to an ERP system.

TABLE 74. ContractsToERP Cron Job

Cron Job Field	Entry
Program	com.comergent.apps.serviceContracts.bizAPI.ContractsERPCr on
Cron Job Type	Application

Create Task for Contracts Nearing Expiration

This cron job creates a task to remind a Customer Service Representative that a service contract is nearing its expiration date. You can configure the number of days before the service contract expires to generate the task. The default is 30 days before expiration. Run this cron job daily if your implementation includes service contracts.

TABLE 75. Create Task for Contracts Nearing Expiration Cron Job

Cron Job Field	Entry
Program	com.comergent.apps.serviceContracts.bizAPI.ContractsExpirat ionTaskCron
Command Line Arguments	NumberDaysBefore=30
Cron Job Type	Application

Export Catalog

Export Catalog provides a template for when you want to schedule an export. You only need to change the command line argument field to point to the correct export set. See "To Export the Catalog Using a Cron Job" on page 431.

TABLE 76. Export Catalog Cron Job

Cron Job Field	Entry
Program	com.comergent.apps.productMgr.dataSynd.CatalogExportCron
Command Line Arguments	ExportSetName= <i>CatalogExportSet</i>
Cron Job Type	Application

Export Deleted Catalog Items

Export Deleted Catalog Items tracks deleted catalog items. When a catalog item is deleted, a record is inserted to indicate that the item is no longer available. Export Deleted Catalog Items creates a dXML file for all the deleted items.

TABLE 77. Export Deleted Catalog Items Cron Job

Cron Job Field	Entry
Program	com.comergent.apps.productMgr.dataSynd.DeletedCatalogItemExportCron
Command Line Arguments	ExportSetName= <i>catalogExportSet</i> &NumberDaysBefore= <i>integer</i>
Cron Job Type	Application

Import Catalog

Import Catalog provides a template for when you import products into the product catalog. See "To Import a Catalog Using a Cron Job" on page 421.

TABLE 78. Import Catalog Cron Job

Cron Job Field	Entry
Program	com.comergent.apps.productMgr.dataSynd.CatalogImportCron
Command Line Arguments	ImportSetName= <i>CatalogImportSet</i>
Cron Job Type	Application

Maintain Configuration

This cron job deletes saved configurations of the specified configuration type that are older than the specified age. The default age for deletion is 10 days.

TABLE 79. Maintain Configuration Cron Job

Cron Job Field	Entry
Program	com.comergent.apps.configurator.main.ConfigMaintenanceCron

TABLE 79. Maintain Configuration Cron Job

Cron Job Field	Entry
Command Line Arguments	ConfigType=Config&AgeInDays=10
Cron Job Type	Application

Maintain Indexsets

There can be only one instance of the Maintain Indexsets cron job on a given e-commerce site, and only the enterprise administrator can see and manage it.

TABLE 80. Maintain Indexsets Cron Job

Cron Job Field	Entry
Program	com.comergent.appservices.search.indexBuilder.IndexMaintenanceCron
Command Line Arguments	UpdatedListName=IncrementalUpdateList.xml&EmailAddresses=changeme@changeme.changeme&IndexSetName=MasterIndex&IndexSetPath=MasterIndex&IsFullBuild=true&RequestTimeout=-1
Cron Job Type	Application

Nightly Segments Build

This cron job starts the batch process that builds all segments that have a status of Active, Inactive, or Obsolete, and publishes the results of segments that have a status of Active or Obsolete. The command line argument for this cron job is RequestTimeout. Specify the number of seconds until the job times out. A reasonable timeout period is 5 to 10 minutes, or 300 to 600 seconds. The default value, -1, means the request never times out.

TABLE 81. Nightly Segments Build Cron Job

Cron Job Field	Entry
Program	com.comergent.apps.segmentengine.bizAPI.BuildAllSegmentsCron
Command Line Arguments	RequestTimeout=-1
Cron Job Type	Application

Offline Data Set Builder

This cron job enables building a dataset for more efficient off-line synchronization.

TABLE 82. Offline Data Set Builder Cron Job

Cron Job Field	Entry
Program	com.comergent.reference.appservices.synchserver.SynchDataMaintenanceCron
Command Line Arguments	BuildType=inc
Cron Job Type	Application

OrdersToERP

This cron job defines how orders are sent to an ERP system. The application cron job user must be assigned the Commerce function.

TABLE 83. OrdersToERP Cron Job

Cron Job Field	Entry
Program	com.comergent.apps.orderMgmt.orders.bizAPI.OrdersERPCron
Cron Job Type	Application

Product Sync

This cron job synchronizes the products in the Sterling Multi-Channel Selling Solution with the products on the fulfillment site. There can be only one instance of the Product Sync cron job on a given e-commerce site, and only the enterprise administrator can see and manage it. This cron job requires certain configuration settings. See the Sterling Selling and Fulfillment Solution Integration Guide for more information.

TABLE 84. Product Sync Cron Job

Cron Job Field	Entry
Program	com.comergent.apps.productMgr.sync.ProductSyncCron
Command Line Arguments	NumProductsToBeSynched=5000&RequestTimeout=-1
Cron Job Type	Application

Reminder Frequency

This cron job emails a reminder to a template owner when it is time to re-order from a template. Change the frequency from the default of once a month to once a day. The system sends the reminder emails at the time that the cron job is run. Set the Reminder Frequency cron job start time so that it runs late at night to prevent emails from being received one business day earlier than intended.

TABLE 85.

Cron Job Field	Entry
Program	com.comergent.apps.templatecart.bizAPI.TemplateReminderCron
Cron Job Type	Application

Reprocess Segments

This cron job starts the batch process that re-calculates the segment membership for all segments that have a status of Active, Inactive, or Obsolete.

Cron Job Field	Entry
Program	com.comergent.appservices.customerSegmentation.SegmentationProcessSegmentsCron
Cron Job Type	Application

Send Email for Contracts Nearing Expiration

This cron job sends an email reminder that a service contract is nearing its expiration date. You can configure the email recipient and the number of days before the end of the service contract to send the email. The default recipient is the owner of the service contract. The default number of days is 30 days before expiration. Run this cron job daily if your implementation includes service contracts.

TABLE 86. Send Email for Contracts Nearing Expiration

Cron Job Field	Entry
Program	com.comergent.apps.serviceContracts.bizAPI.ContractExpirationEmailCron
Command Line Arguments	NumberDaysBefore=30&Recipient=owner
Cron Job Type	Application

Update Catalog

UpdateCatalog calculates product categories are empty, that is, whether the products within a category are displayable. See "Suppressing Display of Empty Product Categories" on page 81 for more explanation.

Note:	You must set the Suppress Empty Categories business rule to “suppress empty categories” to run this cron job.
--------------	---

The command line argument for this predefined job is `DaysOffset=` and it has a default setting of 0. This setting means that the calculation will be made ahead of the current date according to the setting of `DaysOffset`. For example, if the current date is 4/10/2002, and if the `DaysOffset` is set to 5, then the calculations will be made based on the status of the categories on 4/15/2002.

The frequency should be set to once a day in minimal data.

TABLE 87. Update Catalog Cron Job

Cron Job Field	Entry
Program	com.comergent.apps.productMgr.suppressPC.UpdateCategoryCron
Command Line Arguments	DayOffset=0
Cron Job Type	Application

User Sync

This cron job synchronizes users between the Sterling Multi-Channel Selling Solution and the fulfillment system. There can be only one instance of the User Sync cron job on a given e-commerce site, and only the enterprise administrator can see and manage it. This cron job requires certain configuration settings. See the Sterling Selling and Fulfillment Solution Integration Guide for more information.

TABLE 88. User Sync Cron Job

Cron Job Field	Entry
Program	com.comergent.apps.profileMgr.userMgr.sync.UserSyncCron
Command Line Arguments	NumUsersToBeSynched=25&RequestTimeout=-1
Cron Job Type	Application

This chapter describes the tasks associated with managing the Sterling Multi-Channel Selling Solution site. Site system administrators are responsible for:

- managing system users: see "System User Administration" on page 1113
- managing the system profile: see "System Profile Administration" on page 1114
- managing system properties: see "System Property Administration" on page 1114
- managing system cron jobs: see "System Cron Jobs" on page 1116
- reviewing the system status: see "System Status" on page 1117

Overview

There is a distinction between *system administration* and *enterprise administration*:

- System administration is the responsibility of *system administrators*: they manage the basic system properties of the Sterling Multi-Channel Selling Solution and the system cron jobs.
- Enterprise administration is the responsibility of enterprise users: these users manage the building blocks of the enterprise e-commerce system: partners, users, products, price lists, storefronts, and so on.

A system administrator can manage:

- System users: see "System User Administration" on page 1113
- System profile: see "System Profile Administration" on page 1114
- System properties: see "System Property Administration" on page 1114
- System cron jobs: see "System Cron Jobs" on page 1116
- System status: see "System Status" on page 1117

All these tasks are performed from the system administration home page.

To Access the System Administration Home Page

1. Point your browser to the System Administration URL. By default, this is:

`http://server:port/Sterling/en/US/enterpriseMgr/admin`

Check your site documentation to identify this URL.

2. Log in as a system administrator. When the Sterling Multi-Channel Selling Solution is first installed, the default username/password combination is admin/admin. If other system administrator users have been created, then you can log in using one of these userids.

Attention: You must change at least the password of the admin user to protect the system from unauthorized access. We suggest that you create a different system administrator user, and then delete the admin user.

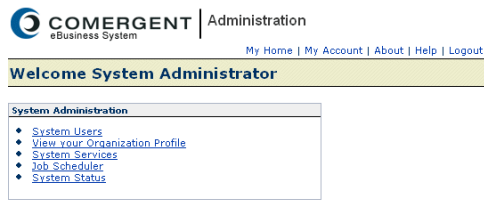


FIGURE 772. System Administration Home Page

3. From this page, you can perform the task described in the following sections.

System User Administration

To Create a System Administrator User

1. Log in as a system administrator.
2. Click **System Users**.

COMERGENCY eBusiness System Administration

My Home | My Account | Help | Logout

User List: Site

Find users that match:

Username Search Show All Advanced Search

Site: All users shown

Create User

Username	Full Name	Functions	Manager	Profile	Business Phone	Email Address
aspadmin	Administrator, ASP	No	Site			gaguser@comerqent.com

Back to Top ↑

[*] denotes a Partner.com/Storefront Customer

FIGURE 773. System User List Page

3. Click **Create User**.

COMERGENCY eBusiness System Administration

My Home | My Account | Help | Logout

Create New User

Info

Belongs To: Site

NOTE: (*) Items are required.

User Information

Username *

Password *

Confirm Password *

Title

Mr.

First name *

User Locale

Preferred Locale

United States

Note: changes to Preferred Locale will take effect on the next login.

User Functions

☐ Manager

☐ Site Administrator

Cancel Save

FIGURE 774. Create New User Page

4. Enter information for the new user as appropriate.

5. Click **Save**.

The new user information is saved.

6. You can verify that the new user has been successfully created, by logging out and logging back in as the newly-created user.

System Profile Administration

To Manage the System Administrator Profile

1. Log in as a system administrator.
2. Click **View Your Organization Profile**.

The screenshot shows the 'Profile Manager' interface for 'COMERGENT eBusiness System'. The main heading is 'Organization Profile: Site'. Below this are tabs for 'Info', 'Addresses', 'Detail', 'Business', 'Hierarchy', and 'Notes'. The 'Info' tab is selected. A 'NOTE: (*) items are required.' is displayed. The 'General Information' section contains several fields: 'Profile name' (Site), 'Main telephone' (123-1234), 'Main facsimile' (123-1235), 'Profile type' (Enterprise), 'Profile level' (Enterprise), 'XML Message Version' (dXML 4.1.1), 'Login/Password required' (checkbox), 'Organization website address' (www.site.com), 'Organization Email' (admin@site.com), 'Distributors' (Select to add), 'Message URL' (http://localhost:8080/C), and 'Content Type'. There are also five 'Custom Field' boxes. Buttons for 'View Users' and 'Save' are visible.

FIGURE 775. System Administration Profile Detail Page

3. Modify the profile details as appropriate.
4. Click **Save**.

System Property Administration

System administrators can manage the system-level properties for the Sterling Multi-Channel Selling Solution, including configuring logging settings, job scheduler categories, Configurator settings (number of models to cache, default

template directory and page template), whether or not to use session-based caching, and so forth.

To Update a System Property

1. Log in as a system administrator.
2. Click **System Services**.

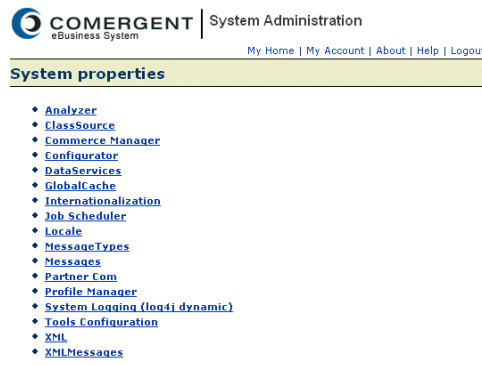


FIGURE 776. System Administration Properties List Page

3. Click the link to the set of properties that you wish to update.

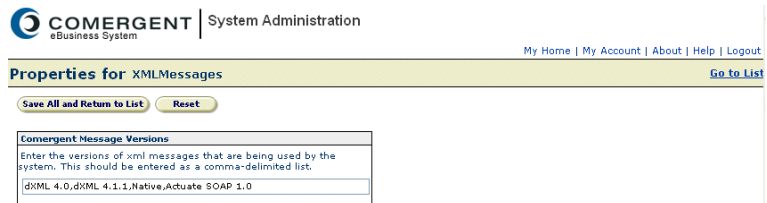


FIGURE 777. System Administration Properties Set Page

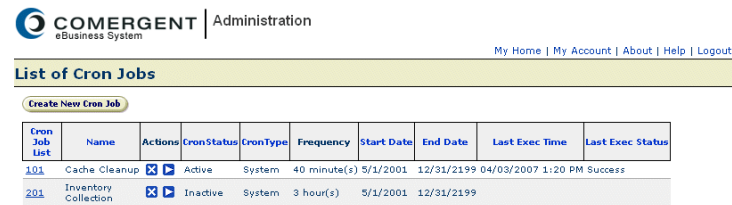
4. Modify the values of properties as required.
5. Click **Save All and Return to List**.

System Cron Jobs

System administrators can manage system cron jobs. Enterprise administrators manage application cron jobs.

To Create a System Cron Job

1. Log in as a system administrator.
2. Click **Job Scheduler**.

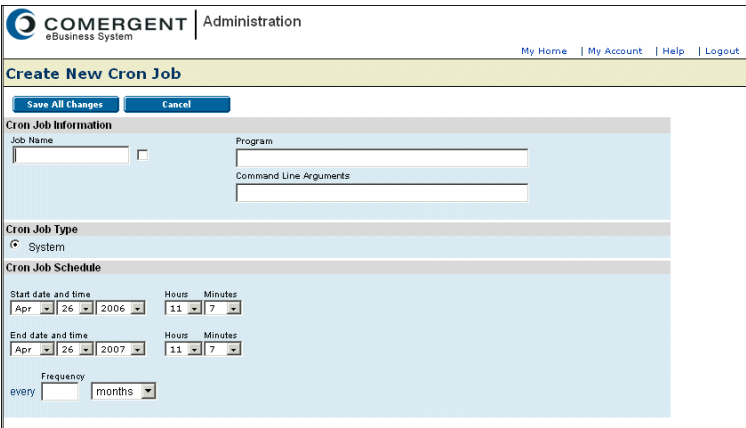


The screenshot shows the 'List of Cron Jobs' page in the COMERGENT Administration interface. It includes a header with the COMERGENT logo and navigation links. Below the header is a table listing cron jobs. The table has columns for Cron Job List, Name, Actions, CronStatus, CronType, Frequency, Start Date, End Date, Last Exec Time, and Last Exec Status. Two jobs are listed: 'Cache Cleanup' (Active) and 'Inventory Collection' (Inactive).

Cron Job List	Name	Actions	CronStatus	CronType	Frequency	Start Date	End Date	Last Exec Time	Last Exec Status
101	Cache Cleanup		Active	System	40 minute(s)	5/1/2001	12/31/2199	04/03/2007 1:20 PM	Success
201	Inventory Collection		Inactive	System	3 hour(s)	5/1/2001	12/31/2199		

FIGURE 778. System Administration Cron Job List Page

3. Click **Create New Cron Job**.



The screenshot shows the 'Create New Cron Job' page in the COMERGENT Administration interface. It includes a header with the COMERGENT logo and navigation links. Below the header is a form with sections for Cron Job Information, Cron Job Type, and Cron Job Schedule. The Cron Job Information section has fields for Job Name, Program, and Command Line Arguments. The Cron Job Type section has a radio button for System. The Cron Job Schedule section has fields for Start date and time, End date and time, and Frequency.

Cron Job Information

Job Name: ☐

Program:

Command Line Arguments:

Cron Job Type

☒ System

Cron Job Schedule

Start date and time:

End date and time:

Frequency:


FIGURE 779. System Administration Create New Cron Job Page

4. Enter details for the new system cron job as appropriate.
5. Click **Save All Changes**.

System Status

To View the System Status

1. Log in as a system administrator.
2. Click **System Status**.


COMERGENT
eBusiness System

Administration

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System Status

System Status: OPERATIONAL
System Start Time: Wed Apr 26 06:33:00 PDT 2006
Servers: Apache Tomcat/5.5.9
Preferences: D:\tomcat-5.5.9-a-SFEa\conf\Comergent_pref.xml
Java Version: 1.4.2_08 (Sun Microsystems Inc.)
Requests Completed: 633
Requests Pending: 0
Active Threads: 38
Active Sessions: 10
Memory Usage (Current/Total): 85869 / 260224 KB

Message Type	Count	Min Time	Max Time	Avg Time
ProdMgrDataSynd	2	8062	8172	8117
ProdMgrSearchAdmin	27	62	5719	1146
LogoutDisplay	7	0	16	5
EPUnassignedFTTHierarchyView	2	0	500	250
ProdMgrAssignNew	2	1609	1906	1757
ProdMgrProdCatFtrAssignment	3	391	3547	2219
SendOrdersToERPRequest	2	1594	12328	6961
FeatureTypeGroupList	1	563	563	563
SystemAdminDisplay	8	31	593	120
ProposalTemplateGroupListData	1	422	422	422
adminFrameSet	1	110	110	110
PricingAdminPriceListBulkAssign	1	110	110	110

FIGURE 780. System Administration System Status Page

3. Review the system status details as appropriate.

This appendix provides description of files used by the Sterling Multi-Channel Selling Solution. It covers:

- "CatalogRequest DTD" on page 1119
- "Category Display Style" on page 1120
- "Proposal Templates" on page 1121
- "Search Configuration Parameters" on page 1123
- "Product Mapping File Format" on page 1127
- "Product Availability File Format" on page 1128
- "Co-op Account Update File Format" on page 1129

CatalogRequest DTD

The CatalogRequest DTD is:

```
<?xml encoding="UTF-8"?>
<!-- DXML Catalog
      Document Type Declaration (DTD)
      Version 3.0
      01-April-01
      Authors:
```

```

Comergent
Contact: (650) 232-6000
support@comergent.com
Comergent Proprietary and Confidential
-->
<!ENTITY % MessageHeader SYSTEM "MessageHeader.dtd">
%MessageHeader;
<!ENTITY % RemoteUser SYSTEM "RemoteUser.dtd">
%RemoteUser;
<!ENTITY % Catalog SYSTEM "Catalog.dtd">
%Catalog;
<!ELEMENT dXML (MessageHeader, RemoteUser?, Catalog)>

```

It is a standard Sterling Multi-Channel Selling Solution dXML message envelope. The authentication information is provided by the RemoteUser element and the product catalog information is provided in the Catalog element. The user specified in the RemoteUser element must be granted the appropriate role to execute the CatalogRequest message type. By default, this message type is granted to the ProductManager role.

Category Display Style

The **CategoryDisplayStyle.xml** configuration file controls what display styles are available to display product categories. Each display style is declared using a Style element. The Name element identifies each style in the Sterling Product Manager UI.

```

<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE CatalogDisplayStyles [
  <!ENTITY % xmlLangCode "CDATA">
  <!ELEMENT Description (#PCDATA)>
  <!ELEMENT CatalogDisplayStyles (Style+)>
  <!ELEMENT MessageType (#PCDATA)>
  <!ELEMENT Name (#PCDATA)>
  <!ATTLIST Name
    xml:lang NMTOKEN "en_US">
  <!ATTLIST Description
    xml:lang NMTOKEN "en_US">
  <!ELEMENT Style (Name*, Description*, MessageType)>
]>
<CatalogDisplayStyles>
  <Style>
    <Name xml:lang="fr_FR">FRSingleLevelCategory</Name>
    <Name>SingleLevelCategory</Name>
    <Description>SingleLevel Category Display</Description>
    <Description xml:lang="fr_FR">FR SingleLevel Category
Display</Description>

```

```
<MessageType>SingleLevelCategory</MessageType>
</Style>
<Style>
  <Name>B2CStyleCategory</Name>
  <Name xml:lang="fr_FR">B2CStyleCategory</Name>
  <Description>Business to customer Category
Display</Description>
  <Description xml:lang="fr_FR">FR Business to customer
Category Display</Description>
  <MessageType>B2CStyleCategory</MessageType>
</Style>
</CatalogDisplayStyles>
```

Proposal Templates

When a proposal is presented to a contact, it can be rendered as a PDF file that is dynamically generated from an XML representation of the proposal. XSL stylesheets are used to specify how the PDF file is rendered.

Here is a sample proposal template stylesheet:

```
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="1.0" xmlns:fo="http://www.w3.org/1999/XSL/
Format" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
  <xsl:decimal-format/>
  <xsl:output encoding="utf-8" indent="yes" media-type="text/html"
method="xml" omit-xml-declaration="no" version="1.0"/>
  <xsl:template match="/">
    <xsl:variable name="currency"
      select="//ProposalPrint/CurrencyCode"/>
    <xsl:variable name="discount"
      select="sum(//ProposalPrint/LineItemList/LineItem/Discount)"/>
    <xsl:variable name="currencySymbol" >
    <xsl:choose>
      <xsl:when test="$currency='EURO'">
        <xsl:value-of select="'&#x20AC;'"/>
      </xsl:when>
      <xsl:when test="$currency='USD'">
        <xsl:value-of select="'$'"/>
      </xsl:when>
      <xsl:when test="$currency='CAD'">
        <xsl:value-of select="'$'"/>
      </xsl:when>
      <xsl:when test="$currency='GBP'">
        <xsl:value-of select="'&#x00A3;'"/>
      </xsl:when>
      <xsl:when test="$currency='YEN'">
        <xsl:value-of select="'&#x00A5;'"/>
      </xsl:when>
    </xsl:choose>
  </xsl:template>
```

```

</xsl:when>
</xsl:choose>
</xsl:variable>
<fo:root xmlns:fo="http://www.w3.org/1999/XSL/Format">
<fo:layout-master-set>
<!-- layout for the first page -->
<fo:simple-page-master margin-bottom="0.25in" margin-left="1in"
    margin-right="1in" margin-top="0.25in" master-name="first"
    page-height="11in" page-width="8.5in">
<fo:region-body margin-bottom="0.75in" margin-top="0.75in"/>
<fo:region-before extent="0.75in"/>
<fo:region-after extent="0.5in"/>
</fo:simple-page-master>
<!-- layout for the other pages -->
<fo:simple-page-master margin-bottom="0.25in" margin-left="1in"
    margin-right="1in" margin-top="0.25in" master-name="rest"
    page-height="11in" page-width="8.5in">
<fo:region-body margin-bottom="0.75in" margin-top="0.75in"/>
<fo:region-before extent="0.75in"/>
<fo:region-after extent="0.5in"/>
</fo:simple-page-master>
<fo:page-sequence-master master-name="basicPSM">
<fo:repeatable-page-master-alternatives>
<fo:conditional-page-master-reference master-reference="first"
    page-position="first"/>
<fo:conditional-page-master-reference master-reference="rest"
    page-position="rest"/>
<!-- recommended fallback procedure -->
<fo:conditional-page-master-reference master-reference="rest"/>
</fo:repeatable-page-master-alternatives>
</fo:page-sequence-master>
</fo:layout-master-set>
<!-- end: defines page layout -->
<!-- actual layout -->
<fo:page-sequence master-reference="basicPSM">
<!-- page footer -->
<fo:flow flow-name="xsl-region-body" font-family="Times Roman"
    font-size="12pt" text-align="left">
<!-- Quote header block-->
<fo:block font-weight="bold">Request Date: <xsl:call-template
name="getDate">
    <xsl:with-param name="date" select="//ProposalPrint/UpdateDate"/>
</xsl:call-template>
</fo:block>
<fo:block font-weight="bold">Proposal Title:
<xsl:if test="//ProposalPrint/ProposalFieldSelection/ProposalTi-
tleFlag ='true'">
    <xsl:value-of select="//ProposalPrint/ProposalFieldSelection/Pro-
posalTitle"/>

```

```
</xsl:if>
</fo:block>
<fo:block font-weight="bold">Proposal ID: <xsl:value-of select="//ProposalPrint/ShoppingCartKey"/>
</fo:block>
<fo:block font-weight="bold">Status: <xsl:value-of select="//ProposalPrint/ProposalStatusString"/>
</fo:block>
<fo:block font-weight="bold" space-after="12pt">Expiration Date:
<xsl:call-template name="getDate">
  <xsl:with-param name="date"
    select="//ProposalPrint/ExpectedCloseDate"/>
</xsl:call-template>
</fo:block>
<!-- End user information -->
<!-- Opening Comments -->
<xsl:if test="//ProposalPrint/ProposalFieldSelection/Greeting-Flag = 'true'">
<fo:block space-after="12pt"><xsl:value-of select="//ProposalPrint/ProposalFieldSelection/Greeting"/></fo:block>
</xsl:if>
<!-- standard text -->
<fo:block space-after="12pt">Per your request, <xsl:value-of select="//ProposalPrint/PartnerName"/> is pleased to assist you with your purchase. Please review the information in this proposal and respond to place the order. This information is subject to change at any time.</fo:block>
<fo:block font-weight="bold" space-after="12pt">Currency:
<xsl:value-of select="$currency"/>
</fo:block>
<!-- Call to print out the Standard Cart -->
<xsl:call-template name="printShoppingCart">
  <xsl:with-param name="currencySymbol"
    select="$currencySymbol"/>
  <xsl:with-param name="displayTotal">true</xsl:with-param>
  <xsl:with-param name="belowTheLine">>false</xsl:with-param>
  <xsl:with-param name="printTableHeader">true</xsl:with-param>
</xsl:call-template>
... Text omitted ...
</xsl:template>
</xsl:stylesheet>
```

Search Configuration Parameters

The advanced search capabilities of the Sterling Multi-Channel Selling Solution are specified in the **SearchConfigurationParameters.xml** file. A sample file is included here:

```

<SearchConfigurations>
  <SearchSystemConfigurations>
    <AutoReload activated="false" reloadFilePeriod="30"/>
    <BooleanQueryMaxClauseCount value="100000"/>
      <MaxFieldLength value="10000"/>
      <MergeFactor value="2"/>
      <MaxMergeDocs value="2147483647"/>
      <MaxBufferedDocs value="10"/>
      <TermIndexInterval value="128"/>
      <UseCompoundFile value="true"/>
    </SearchSystemConfigurations>
  <IndexSets>
    <!--By convention, the attribute "id" through out the entire docu-
    ment should be used by the application programmer to reference enti-
    ties in their programs. The attribute "id" will then be resolved into
    "key" via some algorithm by the internal processes. Attribute "name"
    is added for readability and is not used to identify entities.-->
    <IndexSet description="MasterIndex" fullBuilderClass="com.comer-
    gent.reference.appservices.productService.search.indexBuilder.Cata-
    logIndexSetBuilder" id="MasterIndex"
    incrementalBuilderClass="com.comergent.reference.appservices.products
    service.search.indexBuilder.CatalogIndexSetIncrementalBuilder"
    indexSetPath="MasterIndex_600634">
      <Locales>
        <Locale id="en_US" queryParserClass="com.comergent.api.appser-
        vices.search.queryParser.standard.CmgtQueryParser">
          <Analyzers>
            <Analyzer analyzerClass="com.comergent.api.appser-
            vices.search.analysis.CatalogSearchAnalyzer"
            description="CatalogAnalyzer" id="search"/>
            <Analyzer analyzerClass="com.comergent.api.appser-
            vices.search.analysis.CatalogSearchAnalyzer"
            description="CatalogAnalyzer" id="build"/>
          </Analyzers>
          <DictionaryFile file="CatalogDictionary.mappings"/>
        </Locale>
      </Locales>
    <SearchFields>
      <!--The value of the attribute "key" is the concatenation of keys
      from the Builder's path, plus the key from the IndexField's. For the
      search to be correct this key value has to be exact. There will be
      validation routine built into the loader in the future.-->
      <SearchField active="false" defaultWeight="1.0" id="AssignedPC"
      key="prod.pc.ID" useDictionary="false"/>
      <SearchField active="false" defaultWeight="1.0" id="AssignedFtr"
      key="prod.ftr.ID" useDictionary="false"/>
      <SearchField active="true" defaultWeight="1.0" id="prodID"
      key="prod.ID" useDictionary="true"/>
      <SearchField active="false" defaultWeight="1.0" id="prodSDate"

```

```
        key="prod.SDATE" useDictionary="false"/>
<SearchField active="true" defaultWeight="1.0" id="prodAttach"
    key="prod.attach.DATASHEET" useDictionary="true"/>
<SearchField active="false" defaultWeight="1.0" id="supplierID"
    key="prod.supplier.ID" useDictionary="false"/>
<SearchField active="false" defaultWeight="1.0"
    id="AssignedVisibleFtr" key="prod.ftr.VID"
    useDictionary="false"/>
<SearchField active="true" defaultWeight="1.0" id="prodDesc"
    key="prod.DESC" useDictionary="true"/>
<SearchField active="false" defaultWeight="1.0" id="price"
    key="prod.pr.PRICE" useDictionary="false"/>
<SearchField active="false" defaultWeight="1.0" id="prodEDate"
    key="prod.EDATE" useDictionary="false"/>
<SearchField active="true" defaultWeight="1.0" id="prodName"
    key="prod.NAME" useDictionary="true"/>
<SearchField active="true" defaultWeight="1.0" id="ftrDesc"
    key="prod.ftr.DESC" useDictionary="true"/>
<SearchField active="true" defaultWeight="1.0" id="supersession"
    key="prod.SUPER" useDictionary="false"/>
<SearchField active="false" defaultWeight="1.0" id="prodSellable"
    key="prod.SF" useDictionary="false"/>
<SearchField active="false" defaultWeight="1.0" id="prodStat"
    key="prod.STAT" useDictionary="false"/>
<SearchField active="true" defaultWeight="1.0" id="ftrName"
    key="prod.ftr.NAME" useDictionary="true"/>
</SearchFields>
<Builder builderClass="com.comergent.reference.appservices.prod-
uctService.search.indexBuilder.GenericBuilder"
    description="productBuilder" entityClass="com.comergent.api.appserv-
ices.productService.IBizProduct" key="prod">
<IndexFields>
<IndexField id="EndDate" index="true" key="EDATE" store="true"
    tokenize="false"/>
<IndexField id="ProductID" index="true" key="ID" store="true"
    tokenize="true"/>
<IndexField id="Description" index="true" key="DESC" store="false"
    tokenize="true"/>
<IndexField id="ProductStatusCode" index="true" key="STAT"
    store="true" tokenize="false"/>
<IndexField id="StartDate" index="true" key="SDATE" store="true"
    tokenize="false"/>
<IndexField id="HasAssignedSupersession" index="true" key="SUPER"
    store="true" tokenize="false"/>
<IndexField id="SellableFlag" index="true" key="SF" store="true"
    tokenize="false"/>
<IndexField id="Name" index="true" key="NAME" store="true"
    tokenize="true"/>
</IndexFields>
```

```

    <Builders>
    <Builder builderClass="com.comergent.reference.appservices.prod-
uctService.search.indexBuilder.ProductFeatureBuilder"
        description="productFeatureBuilder" entityClass="com.comer-
gent.reference.appservices.productService.search.index-
Builder.IndexedFeatureBean" key="ftr">
    <IndexFields>
    <IndexField id="VisibleFeatureKey" index="true" key="VID"
        store="true" tokenize="true"/>
    <IndexField id="Description" index="true" key="DESC" store="false"
        tokenize="true"/>
    <IndexField id="Name" index="true" key="NAME" store="true"
        tokenize="true"/>
    <IndexField id="FeatureKey" index="true" key="ID" store="true"
        tokenize="true"/>
    </IndexFields>
    </Builders/>
    </Builder>
    <Builder builderClass="com.comergent.reference.appservices.prod-
uctService.search.indexBuilder.ProductSupplierBuilder"
        description="productSupplierBuilder"
        entityClass="com.comergent.bean.simple.IDataLightWeightPartner"
        key="supplier">
    <IndexFields>
    <IndexField id="PartnerKey" index="true" key="ID" store="true"
        tokenize="true"/>
    </IndexFields>
    </Builders/>
    </Builder>
    <Builder builderClass="com.comergent.reference.appservices.prod-
uctService.search.indexBuilder.ProductCachedPCBuilder"
        description="productCategoryBuilder" entityClass="" key="pc">
    <IndexFields>
    <IndexField id="ProductCategoryKey" index="true" key="ID"
        store="true" tokenize="true"/>
    </IndexFields>
    </Builders/>
    </Builder>
    <Builder builderClass="com.comergent.reference.appservices.prod-
uctService.search.indexBuilder.PriceListBuilder"
        description="productPriceListBuilder" entityClass="" key="pr">
    <IndexFields>
    <IndexField id="UnitListPrice" index="true" key="PRICE"
        store="true" tokenize="false"/>
    </IndexFields>
    </Builders/>
    </Builder>
    <Builder builderClass="com.comergent.reference.appser-
vices.productService.search.indexBuilder.ProductAttachmentBuilder"

```



```

description="productAttachmentBuilder" entityClass=""
key="attach">
  <IndexFields>
    <IndexField id="DataSheet" index="true" key="DATASHEET"
      store="false" tokenize="true"/>
  </IndexFields>
<Builders/>
</Builder>
</Builders>
</Builder>
</IndexSet>
</IndexSets>
</SearchConfigurations>

```

Product Mapping File Format

The product mapping file is used by partner administrators to upload product information into the Sterling Multi-Channel Selling Solution. It specifies how their product IDs map to the product IDs maintained by the enterprise. It contains the following:

- Exactly one header line that comprises the parameters listed in Table 89 on page 1127, each separated by a tab.
- One body line for each product included in the list.

TABLE 89. Parameters Required for Product Mapping File

Parameter	Description
Status	Status of the body line for that product. E (existing) if the product is unchanged, I (insert) if this is a new product, and U (update) if the product has been modified.
Pricing SKU	Enterprise product ID
Pricing SKU Authority	The source for the Enterprise product ID (the Enterprise)
Mapped_SKU	Partner's product ID

For example:

```

<Status><Pricing SKU><Pricing SKU Authority><Mapped_SKU>
U  MXDS-7480MatrixAN-MXDS-7480
E  MXDS-7490MatrixAN-MXDS-7490
I  MXDS-7500MatrixAN-MXDS-7500
E  MXDS-7510MatrixAN-MXDS-7510
E  MXDS-7520MatrixAN-MXDS-7520

```

In the preceding example, the partner administrator has made a change in the mapping of product MXDS-7480, status U (for Update), and inserted a mapping for product MXDS-7500, status I (for Insert). All other products are unchanged.

Consequently, when this amended product file is uploaded to the Sterling Multi-Channel Selling Solution, the system processes the changes, and ignores the unchanged products.

Note:	You must take care to ensure that your file follows the format of the product mapping or product availability file exactly. Make sure that no lines precede the header line.
--------------	--

Note that you can import partner product data using a “legacy” form of the product mapping file. In this legacy form, the External Partner ID is used in the SKU Authority column, and the partner SKUs are used in the Pricing SKU column. The use of this format is deprecated and should not be used beyond Release 7.0.1.

Product Availability File Format

The product availability file is used by partner administrators to upload product availability information into the Sterling Multi-Channel Selling Solution. It specifies the amount of inventory held in warehouse locations. The format is a tab-delimited file that contains the following:

- Exactly one header line that comprises the parameters listed in Table 90 on page 1128, each separated by a tab.
- One body line for each product included in the list.

TABLE 90. Parameters Required for Product Availability File

Parameter	Description
Status	Status of the body line for that product. E (existing) if the product is unchanged, I (insert) if this is a new product, and U (update) if the product has been modified.
SKU Name	Distributor's (Sterling Partner.com partner's) product ID.
Warehouse Location	Name of the warehouse; for example, the name of the city in which the warehouse is located.
Availability	Number of the product items that are available to be purchased.
Restock Quantity	Number of product items that will be restocked.

TABLE 90. Parameters Required for Product Availability File (Continued)

Parameter	Description
Restock Date (M/D/YY)	Expected date of the restock.
ETA (M/D/YY)	Estimated time of availability of the product to the customer.

For example:

```
<Status> <Product Name> <Warehouse Location> <Availability> \
<Restock Quantity> <Restock Date (M/D/YY)> <ETA (M/D/YY)>
E UNS-MXDS7480 Houston 8 5 10/6/02 10/11/02
E UNS-MXDS7490 Houston 9 6 10/6/02 10/11/02
U UNS-MXDS7500 Houston 10 7 10/6/02 10/11/02
E UNS-MXDS7510 Houston 6 3 10/6/02 10/11/02
I UNS-MXDS7520 Houston 4 1 10/6/02 10/11/02
```

In this preceding example, the partner administrator has made a change to the availability information for product UNS-MXDS7500 (status U) and inserted new availability information for UNS-MXDS7520 (status I). All other products are unchanged.

Consequently, when this amended product availability file is uploaded to the Sterling Multi-Channel Selling Solution, the system processes the changes, and ignore the unchanged products.

Co-op Account Update File Format

The Co-op Account Update file is used by enterprise administrators to upload updates to Co-op accounts into the Sterling Multi-Channel Selling Solution. It specifies the base amount to be used to calculate the update calculation. The format is a tab-delimited file that contains the following:

- Exactly one header line that comprises the parameters listed in Table 91 on page 1129, each separated by a tab.
- One body line for each account update included in the list.

TABLE 91. Parameters Required for Co-op Account Update File

Parameter ^a	Description
Partner Key*	Partner key of the partner for the account. You can upload updates for several partners at once.
Partner Name	Partner name of the partner for the account.

TABLE 91. Parameters Required for Co-op Account Update File (Continued)

Parameter ^a	Description
Account Key	Account key of the account: if you do not provide this, then a new account is created.
Account Name	Account name of the account.
Base Amount*	Amount used to calculate the increase to the account.
Currency	Currency of base amount.
Available Date* (M/D/YY)	Date on which the funds will be available.
Expiration Date* (M/D/YY)	Date by which funds must be spent.

a. * denotes a required field.

For example:

```
<*Partner Key><Partner Name><Account Key><Account Name><*Base Amount>  
<Currency><*Available Date><*Expiration Date>  
12 Anderel Promotion Fund1200USD7/25/200412/25/2006  
10 OmnitechSpecial Omnitech Fund1200USD7/25/200412/25/2006
```

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