



Distributed Order Management Configuration Guide

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Distributed Order Management Configuration Guide, Release 7.5 SP1

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Preface

This manual describes how to use the Distributed Order Management business application module in the Yantra 7x Configurator.

Intended Audience

This manual is intended for use by system administrators and managers who need to configure Yantra 7x rules and business processes as they pertain to their distributed order management business practices.

Structure

This manual contains the following sections:

Chapter 1, "Introduction"

This chapter briefly describes the contents of this guide.

Chapter 2, "Navigating in the Configurator"

This chapter explains the layout of the Yantra 7x Configurator, actions you can perform throughout the application, and important concepts you should be aware of before using the application.

Chapter 3, "Configuring Cross Application Order Promising Components"

This chapter explains how you can define the rules and components necessary to determine the appropriate node and suppliers used to source items.

Chapter 4, "Configuring Cross Application Service Execution Components"

This chapter explains how you can define the components utilized during service execution.

Chapter 5, "Configuring Cross Application Logistics Components"

This chapter explains the configuration of components used by different logistics related functionality throughout the business application module.

Chapter 6, "Configuring Cross Application Pricing Components"

This chapter explains how you can configure the components used for pricing by the Yantra 7x financial engine throughout the [Distributed Order Management] business application module.

Chapter 7, "Configuring Cross Application Payment Components"

This chapter explains the configuration of components used in Yantra 7x to define the types of payment the system accepts and the rules surrounding payment collection.

Chapter 8, "Configuring Cross Application Customer Components"

This chapter explains how you can configure customer classifications and customer definitions.

Chapter 9, "Configuring a Document's Attributes"

This chapter explains how you can configure common codes as they pertain to order documents viewed in the Application Consoles.

Chapter 10, "Configuring a Document's Order Validation"

This chapter explains how you can define configuration for defaulting Seller and Buyer validation during order creation for a particular Enterprise and document type.

Chapter 8, "Configuring a Document's Instruction Types"

This chapter explains how you can define the common codes used when adding special instructions to an order document.

Chapter 12, "Configuring a Document's Modification Reasons"

This chapter explains how you can define common codes for modification reasons.

Chapter 13, "Configuring a Document's Backorder Reasons"

This chapter explains how you can define common codes for backorder reasons.

Chapter 14, "Configuring a Document's Note Reasons"

This chapter explains how you can configure common codes for note reasons used when modifying an order.

Chapter 15, "Configuring a Document's Modification Components"

This chapter explains how you can configure the modification rules and types of a document when it is in a specific status.

Chapter 16, "Configuring an Order Document's Fulfillment Specific Components"

This chapter explains how you can configure the fulfillment specific process types used by each order document.

Chapter 17, "Configuring an Order Document's Shipment Specific Components"

This chapter explains how you can configure the shipment specific process types used by each order document.

Chapter 18, "Configuring a Document's Financial Components"

This chapter explains how you can define rules and common codes as they pertain to payments and charges given for a given order document.

Chapter 19, "Configuring a Document's Purge Criteria"

This chapter explains the purge criteria business rules that are used to define qualifications around each type of purge. Purges are the process by which old data is removed from the system database.

Chapter 20, "Configuring Value-Added Services"

This chapter explains how you can configure value-added services in Yantra 7x.

Appendix A, "Time-Triggered Transaction Reference"

This chapter explains time-triggered transactions that are utilities that perform a variety of individual functions, automatically and at specific time intervals.

Appendix B, "Order Modification Types"

This chapter explains the default order modification types and their associated modification levels.

Appendix C, "Condition Builder Attributes"

This chapter explains the attributes used in the condition builder to build statements for each process type.

Yantra 7x Documentation

For more information about the Yantra[®] 7x components, see the following manuals in the Yantra[®] 7x documentation set:

- *Yantra[®] 7x Release Notes*
- *Yantra[®] 7x Installation Guide*
- *Yantra[®] 7x Upgrade Guide*
- *Yantra[®] 7x Performance Management Guide*
- *Yantra[®] 7x High Availability Guide*
- *Yantra[®] 7x System Management Guide*
- *Yantra[®] 7x Localization Guide*
- *Yantra[®] 7x Customization Guide*
- *Yantra[®] 7x Integration Guide*
- *Yantra[®] 7x Product Concepts*
- *Yantra[®] 7x Warehouse Management System Concepts Guide*
- *Yantra[®] 7x Platform Configuration Guide*
- *Yantra[®] 7x Distributed Order Management Configuration Guide*
- *Yantra[®] 7x Supply Collaboration Configuration Guide*
- *Yantra[®] 7x Inventory Synchronization Configuration Guide*

- *Yantra® 7x Product Management Configuration Guide*
- *Yantra® 7x Logistics Management Configuration Guide*
- *Yantra® 7x Reverse Logistics Configuration Guide*
- *Yantra® 7x Warehouse Management System Configuration Guide*
- *Yantra® 7x Platform User Guide*
- *Yantra® 7x Distributed Order Management User Guide*
- *Yantra® 7x Supply Collaboration User Guide*
- *Yantra® 7x Inventory Synchronization User Guide*
- *Yantra® 7x Logistics Management User Guide*
- *Yantra® 7x Reverse Logistics User Guide*
- *Yantra® 7x Warehouse Management System User Guide*
- *Yantra® 7x Mobile Application User Guide*
- *Yantra® 7x Analytics Guide*
- *Yantra® 7x Javadocs*
- *Yantra® 7x Glossary*
- *Yantra® 7x Carrier Server Guide*
- *Yantra® 7x Application Server Installation Guide* (for optional component)

Conventions

The following conventions may be used in this manual:

Convention	Meaning
. . .	An ellipsis represents information that has been omitted.
< >	Angle brackets indicate user-supplied input.
mono-spaced text	Mono-spaced text indicates a file name, an API name, or a code example.

Convention	Meaning
/ or \	Slashes and backslashes are file separators for Windows, UNIX and LINUX operating systems. The file separator for the Windows operating system is "\" and the file separator for Unix and Linux systems is "/". The Unix convention is used unless otherwise mentioned.

Introduction

This book concentrates on the rules and setup configurations that make up the Distributed Order Management business application in the Yantra 7x Configurator. This book is intended for both Hub and Enterprise administrators using the Yantra 7x Configurator to set up the Yantra 7x environment. Business analysts should also use this book to plan appropriate business practices as they pertain to Yantra 7x. Programmers and System Integrators should refer to the *Yantra 7x Application Development Guide* for information about extending or integrating external applications with Yantra 7x.

Important: This book assumes that you have read and are familiar with the concepts and business functionality detailed in the *Yantra 7x Product Concepts*.

The Yantra 7x Configurator is a collection of all the rules and setup configurations necessary to implement Yantra 7x organized so that configuration can be done for each business application separately. The following business applications can be configured within the Yantra 7x Configurator:

- Distributed Order Management
- Inventory Synchronization
- Product Management
- Logistics Management
- Supply Collaboration
- Reverse Logistics

- Platform

1.1 Business Models

There is no single business model that encompasses the environment in which all the Yantra 7x applications can be used. Therefore, there is no single way to configure your Yantra 7x environment.

For example, your company might be considered a multi-divisional corporation, a third-party logistics company, or a marketplace business. Each of these business models require a different conceptual approach to Yantra 7x configuration.

1.1.1 Multi-Divisional Corporation

The **multi-divisional corporation model** is a business corporation whose primary focus is managing purchase and sales activities. A typical multi-divisional corporation can be a buyer, a seller, or both. It could also be a retailer, a manufacturer, or both. Whatever form the multi-divisional corporation takes, it normally has multiple channels with different types of customers, such as, consumers, retailers, dealers, and original equipment manufacturers.

In the multi-divisional corporation model, each division might be set up as an Enterprise in Yantra 7x. This setup allows both segregation of transactions by division and global visibility at the corporate level. Each Enterprise configures their own business rules, workflow, and transaction processing.

1.1.2 Third-Party Logistics

Traditional **third-party logistics** companies provide a range of outsourced services such as warehousing, transportation, and contract manufacturing.

Large companies can gain the competitive advantage through the real-time management of their supply chains. These advantages include lower costs and improved customer service. Additionally, new sales channels such as web stores, hand-held devices, and in-store kiosks provide companies new methods of reaching their customers. All of these issues have increased the complexity of the fulfillment process.

Yantra 7x provides the engine needed to run the operations of a contract fulfillment provider as well as a centralized system for real-time order execution and event driven problem solving for an entire fulfillment network. It enables fulfillment providers to configure the fulfillment process to meet the needs of their clients.

In the third-party logistics model, each client might be set up as an Enterprise. This setup allows the third-party logistics Hub to have visibility of all transactions in the Hub environment, while the clients that are set up as Enterprises only have visibility to their own transactions. This allows the third-party logistics business to provide unique transaction processing to its clients.

1.1.3 Marketplace

A **marketplace** is an online intermediary that connects Buyers and Sellers. Marketplaces eliminate inefficiencies by aggregating offerings from many Sellers or by matching Buyers and Sellers in an exchange or auction. For Buyers, they lower purchasing costs and help them reach new Sellers. For Sellers, they lower sales costs and give them access to new customers. It is a central location, or Hub, where a trusted intermediary integrates both procedures and technology to lower the costs and enhance the effectiveness of Buyer and Seller transactions.

In the marketplace model, each market might be set up as an Enterprise. This setup allows each market to be unique with their own product or service handling.

1.2 Yantra 7x Distributed Order Management Configuration

Yantra 7x Distributed Order Management provides configurable business rules and workflow used to automate the manual processes associated with managing fulfillment in an extended supply chain. Yantra 7x Distributed Order Management addresses the entire order process from order creation to settlement. Each order line can easily follow a unique process based upon any order-related attribute or business rule. It automatically creates and tracks any processes that result from, or depend upon, the original customer order.

In the Yantra 7x Configurator you can use the Yantra 7x Distributed Order Management configuration grouping to establish both

cross-application and order document specific rules and attributes. Cross-application rules and attributes can impact other applications, such as Supply Collaboration or Reverse Logistics. Order document specific rules and attributes pertain only to the order document type you are configuring, such as Sales Order or Transfer Order. You can define different configurations for individual order document types without impacting other applications or order document types.

You can use the Distributed Order Management configuration grouping to configure the following aspects of Yantra 7x for your business application modules:

- [Sourcing Setup](#)
- [Logistics](#)
- [Financials](#)
- [Customer](#)
- [Order Attributes](#)
- [Order Validation](#)
- [Instruction Types](#)
- [Modification Reasons](#)
- [Backorder Reasons](#)
- [Process Type Configuration](#)
- [Purge Criteria](#)

1.2.1 Sourcing Setup

Sourcing is the process of determining what node should be used to ship or provide product, delivery service, and provided service items.

You can define the rules and components necessary to determine the appropriate node and suppliers used to source items. These rules and components are used when there are multiple nodes and suppliers from which you can source items and services.

For more information about Sourcing Setup, see [Chapter 3, "Configuring Cross Application Order Promising Components"](#).

1.2.2 Logistics

You can configure the components used by different logistics related functionality throughout the Distributed Order Management business application module.

For more information about Logistics, see [Chapter 5, "Configuring Cross Application Logistics Components"](#).

1.2.3 Financials

You can configure the components used by the Yantra 7x financial engine throughout the Distributed Order Management business application module.

For more information about Financials, see [Chapter 6, "Configuring Cross Application Pricing Components"](#) and [Chapter 18, "Configuring a Document's Financial Components"](#).

1.2.4 Customer

You can define the customers that buy from an organization in the Distributed Order Management module.

For more information about Customer, see [Chapter 8, "Configuring Cross Application Customer Components"](#).

1.2.5 Order Attributes

You can define common codes as they pertain to order documents viewed in the Application Consoles.

For more information about Order Attributes, see [Chapter 9, "Configuring a Document's Attributes"](#).

1.2.6 Order Validation

You can define configuration for validating certain aspects of an order during order document creation.

For more information about Order Validation, see [Chapter 10, "Configuring a Document's Order Validation"](#).

1.2.7 Instruction Types

You can define the common codes used when adding special instructions to an order document.

For more information about instruction types, see [Chapter 8, "Configuring a Document's Instruction Types"](#).

1.2.8 Modification Reasons

You can define common codes for **modification reasons**. These codes define why a modification was made by a user.

For more information about Modification Reasons, see [Chapter 12, "Configuring a Document's Modification Reasons"](#).

1.2.9 Backorder Reasons

You can define common codes for **backorder reasons**. These codes describe why an order document was backordered.

For more information about Backorder Reasons, see [Chapter 13, "Configuring a Document's Backorder Reasons"](#).

1.2.10 Process Type Configuration

To complete an order document's lifecycle, each document has a set of different processes that it can go through. These processes are called process types. Every order document has a defined set of process types in Yantra 7x.

The following process types are defined in Yantra 7x for the order document types:

- Fulfillment
- Negotiation
- Shipment
- Receipt

You can configure the rules and components that define an order document's process types.

For more about Process Type Configuration, see [Chapter 16, "Configuring an Order Document's Fulfillment Specific Components"](#) and [Chapter 17, "Configuring an Order Document's Shipment Specific Components"](#).

1.2.11 Purge Criteria

You can define the parameters used when purging order document related records from the system.

For more information about Purge Criteria, see [Chapter 19, "Configuring a Document's Purge Criteria"](#).

Navigating in the Configurator

This chapter discusses the layout of the Yantra 7x Configurator, actions you can perform throughout the application, and important concepts you should be aware of before using the application.

2.1 Starting the Yantra 7x Configurator

To access the Yantra 7x Configurator:

1. Point your browser to `http://<Yantra 7x installation server>/yantra/console/start.jsp`.

The browser displays the Sign In window.

2. Enter your login ID and password and choose the Sign In button. The Yantra 7x Application Consoles Home Page is displayed.
3. From the menu bar, choose Configuration > Launch Configurator. The Yantra 7x Configurator opens in a new window.

Note: Additionally, enterprise users who maintain an enterprise can access the Yantra 7x Configurator by means of `http://<Yantra 7x installation server>/yantra/console/login.jsp`.

Note: If both the Yantra 7x Configurator and the Yantra 7x System Management are opened at the same time, and if a dialogue window is opened in either application, the other will stop responding to user input until that dialogue window is closed. This is due to a bug in the Java platform.

2.2 The Yantra 7x Configurator Layout

The Yantra 7x Configurator is a graphical user interface that can be used to configure different aspects of Yantra 7x. The different configurations are defined by logical groupings called applications that can be accessed from the Configurator's menu bar.

Figure 2–1 Applications Menu



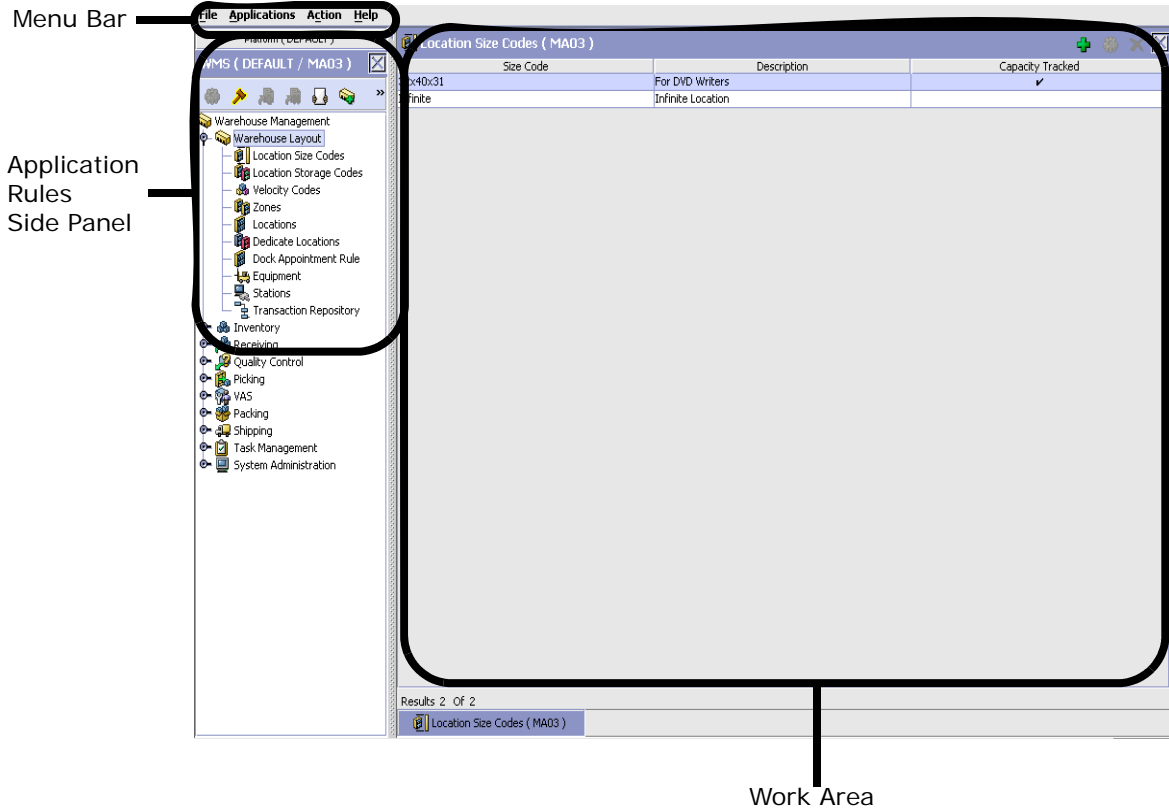
Each application focuses on a particular aspect of Yantra 7x and contains all of the rules, common codes, and settings necessary for Yantra 7x to work in a real-world business setting.

The following applications can be configured in this version of Yantra 7x:

- Distributed Order Management
- Inventory Synchronization
- Product Management
- Logistics Management
- Supply Collaboration
- Reverse Logistics
- Warehouse Management
- Platform

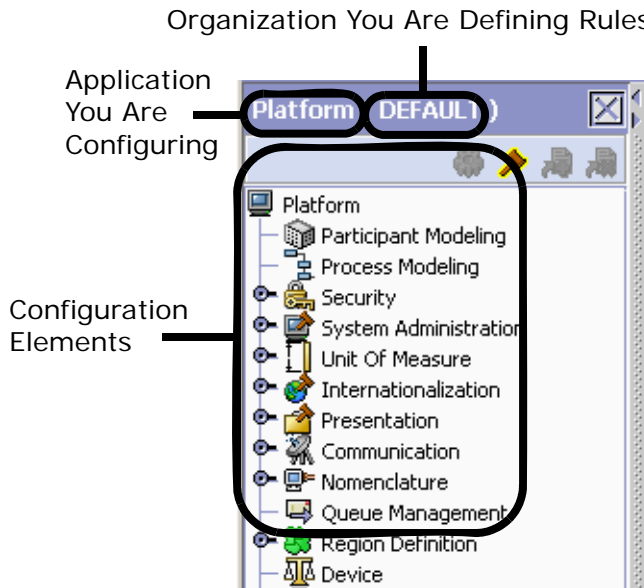
When you select the application that you want to configure, the Configurator displays a side panel containing all of the available configuration rules for the selected application and a work area in which these rules can be configured.

Figure 2–2 The Standard Configurator Application Interface



2.2.1 Application Rules Side Panel

The application rules side panel displays a hierarchical tree of elements specific to processes used within the application.

Figure 2–3 Example of Application Rules Side Panel

The application rules side panel also identifies the organization you are configuring rules for and what, if any, rules are inherited from another organization.

You can use the application rules side panel for:

- [Accessing Configuration Screens](#)
- [Determining Inheritance](#)
- [Loading Another Organization's Rules](#)

2.2.1.1 Accessing Configuration Screens

The main purpose of the application rules side panel is to provide an interface to access the application's individual configuration screens. To access a configuration screen, browse through the application tree and double-click on the applicable configuration element, the element's configuration screen is then displayed in the work area.

2.2.1.2 Determining Inheritance

In Yantra 7x, when an Enterprise is created it can inherit all or part of an existing Enterprise's configuration rules. This inheritance is done at the

configuration group level. A configuration group is a classification of similar configuration elements. For example, all of the rules and configurations dealing with items are grouped together into one configuration group and all of the rules and configurations dealing with organizations are grouped into another.

An administrator organization is set for every organization defined within the system. Only the administrator organization can modify the rules defined for a particular organization. If a particular organization administers multiple organizations, then they can load the rules of organization that it administers within the application tree. For more information about loading another organization's rules, see [Section 2.2.1.3, "Loading Another Organization's Rules"](#) on page 19.

Configuration groups are associated with organization levels. Organization levels determine how configuration groups are inherited and which organizations can maintain them. The organization levels defined in Yantra 7x are:

- Hub Level - Configuration groups that are associated with the Hub organization
- Enterprise Level - Configuration groups that are associated with the individual Enterprise organizations within the Hub environment
- Catalog Organization - Configuration groups that are associated with the organization(s) that maintains the catalog(s) within the Hub environment
- Inventory Organization - Configuration groups that are associated with the organization(s) that maintains the inventory within the Hub environment
- Organization - Configuration groups that are associated with any organization within the Hub environment.

The following table details the rules used to determine which organizations can maintain a configuration group as defined by the organization level. The table also describes the rules that determine how configuration groups are inherited when an organization is created.

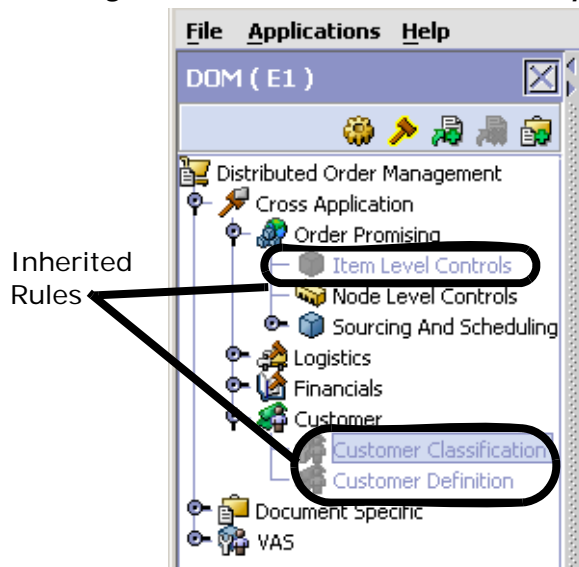
Table 2–1 Organization Level Rules

Organization Level	Organizations That Can Modify at this Level...	Inheritance Details
Hub Level	Only the Hub organization can modify configuration groups at the Hub level. All other organizations have read-only access.	All organizations share this information.
Enterprise Level	Only Enterprise organizations can modify configuration groups at the Enterprise level. Any business transaction requiring Enterprise configuration is picked up from the Enterprise established by the transactional context. For example, order documents have a specific Enterprise.	An Enterprise can inherit this configuration from another Enterprise. Additionally, this configuration can be overridden at a configuration group level. When an Enterprise is created, it inherits Enterprise level rules from its primary Enterprise.
Catalog Organization	Organizations that are designated as catalog organizations can modify configuration groups at the catalog organization level.	None.
Inventory Organization	Organizations that are designated as inventory organizations can modify configuration groups at the inventory organization level.	None.
Organization	Any organization assigned a role (Seller, Buyer, etc.) can modify configuration groups at the organization level.	None.

Important: You cannot inherit from an Enterprise that does not have the same inventory, capacity, and catalog organizations as the organization you are configuring.

The application rules side panel displays rules that have been inherited as grayed out.

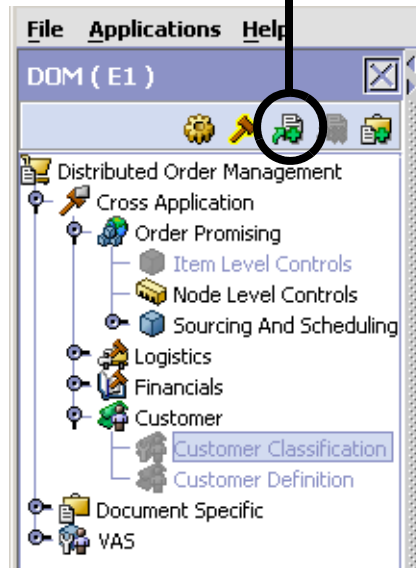
Figure 2–4 *Inherited Rules in the Application Rules Side Panel*



As stated in the table above, depending on the organization you are logged in as, you may be able to override some inherited rules. If a rule can be overridden, the Override Configuration icon becomes available in the application rule side panel when you highlight the rule.

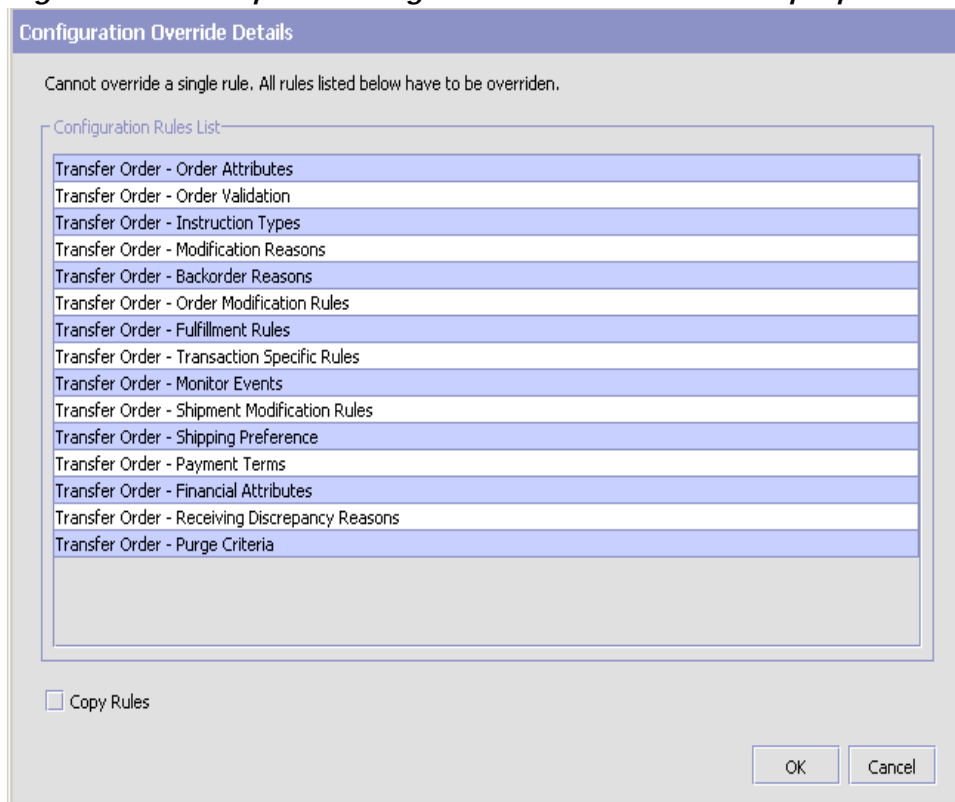
Figure 2–5 Override Configuration Icon

Override Configuration Icon is Available



When you choose to override a rule you also override any other rules in the configuration group the rule you are overriding is associated with. When you choose the Override Configuration icon the Configuration Override Details pop-up window is displayed. This window provides the list of rules that will be overridden.

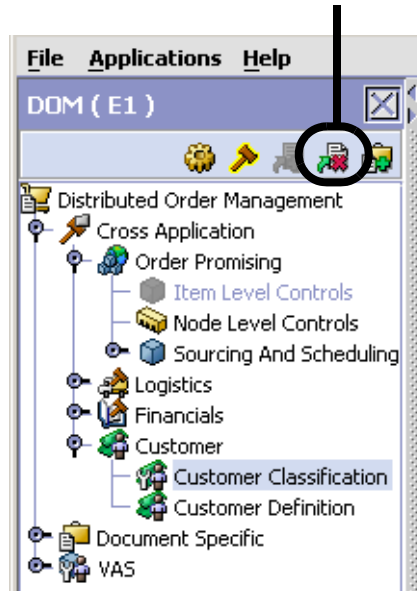
Figure 2–6 Example of Configuration Override Details Pop-Up Window



If you override a configuration group and then decide to "re-inherit" the original rules, you can choose the Give Back Configuration Ownership icon. This icon becomes available in the application rules side panel for rules that have been overridden.

Figure 2–7 Give Back Configuration Ownership Icon

Give Back Configuration Ownership Icon is Available



When you select the Give Back Configuration Ownership Icon, the Configuration Override Details pop-up window is displayed. This window provides the list of rules that will be re-inherited.

Important: If you select the Delete Rules field on the Configuration Override Details pop-up window, you give back rule ownership to the organization you originally inherited from, however you do not retain any of the rules that you inherited from them.

If you do not select this field, you give back rule ownership to the organization you originally inherited from, but you retain the rules that you inherited from them.


2.2.1.3 Loading Another Organization's Rules

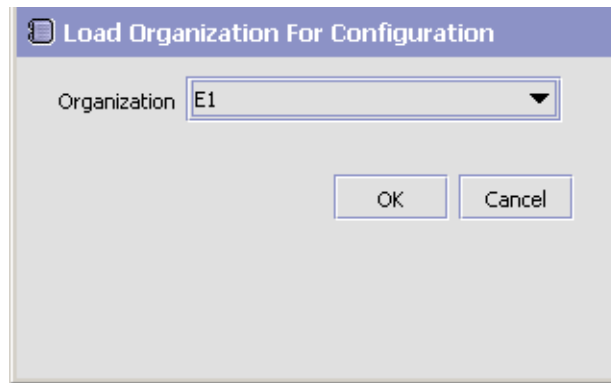
An administrator organization is set for every organization defined within the system. Only the administrator organization can modify the rules defined for a particular organization. If a particular organization administers multiple organizations, then they can load the rules of

organization that it administers within the application tree. See [Table 2–1](#) for the rules that determine which organizations you can administer.

Note: The rules that are available from the tree in the application rules side panel may vary depending on the type of organization you select and the roles it has been assigned.

To load another organization's rules:

1. From the applicable application rules side panel, choose . The Load Organizations for Configuration pop-up window appears.



2. From Organization, select the organization that you want to work with.
3. Choose OK. The organization's rules are displayed in the application rules side panel.

Note: The application rules side panel displays the organization you are working with in parentheses.

2.2.2 Work Area

The work area is the main area in which different configuration screens appear. The following are the main types of screens that you will come across:

- [Search Window](#)
- [List Window](#)
- [Details Window](#)
- [Drag and Drop Window](#)

2.2.2.1 Search Window

A search window provides you with a means to perform a filtered search. The upper panel of a search window offers criteria applicable to the entity you are searching through which you can narrow your search. The lower panel lists the results of a search once it has been performed.

Figure 2–8 Search Window Example

Search Criteria

Organization Code: [Dropdown] Roles: [Dropdown]
 Organization Name: [Dropdown]
 Enterprise: [Dropdown] Max Records: 1,000

Search Results

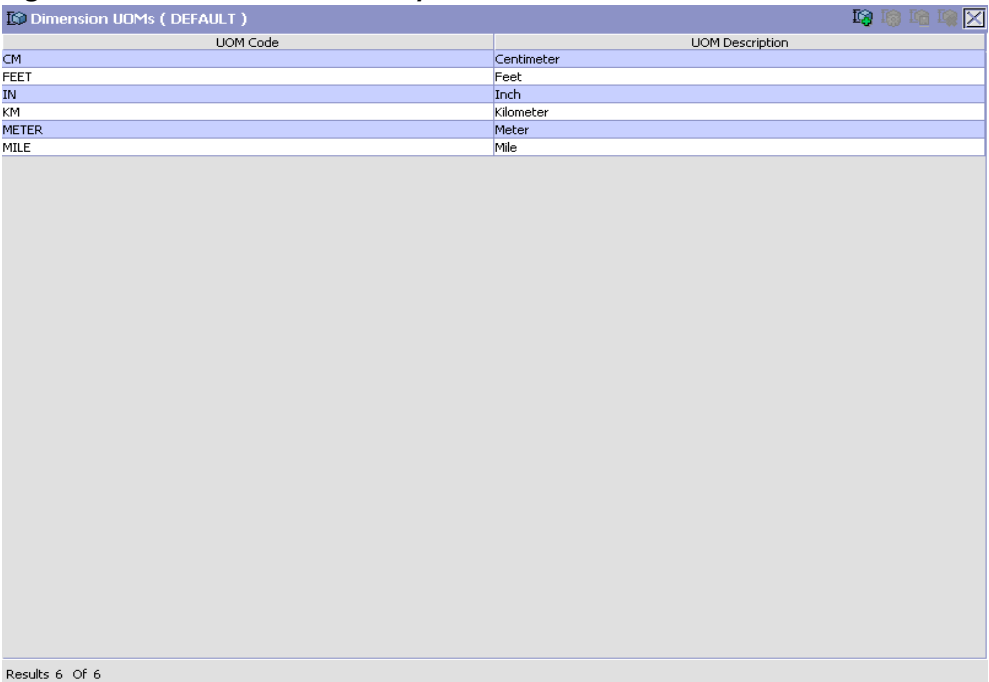
Organization Code	Name	City
DEFAULT	Hub Organization	
UPSN	United Parcel Service	
USPS	United States Postal Service	
FEDX	FEDX	
AIRB	AIRB	
UPSC	UPS Canada	
UPSA	UPS Asia Pacific	
UPSE	UPS Europe	
USPL	UPS Latin America	
E1	E1	Dallas

Results 10

2.2.2.2 List Window

When you choose to configure a specific rule or code that does not require a search, the Configurator may display a basic list window of the rules and codes that have previously been configured.

Figure 2–9 List Window Example



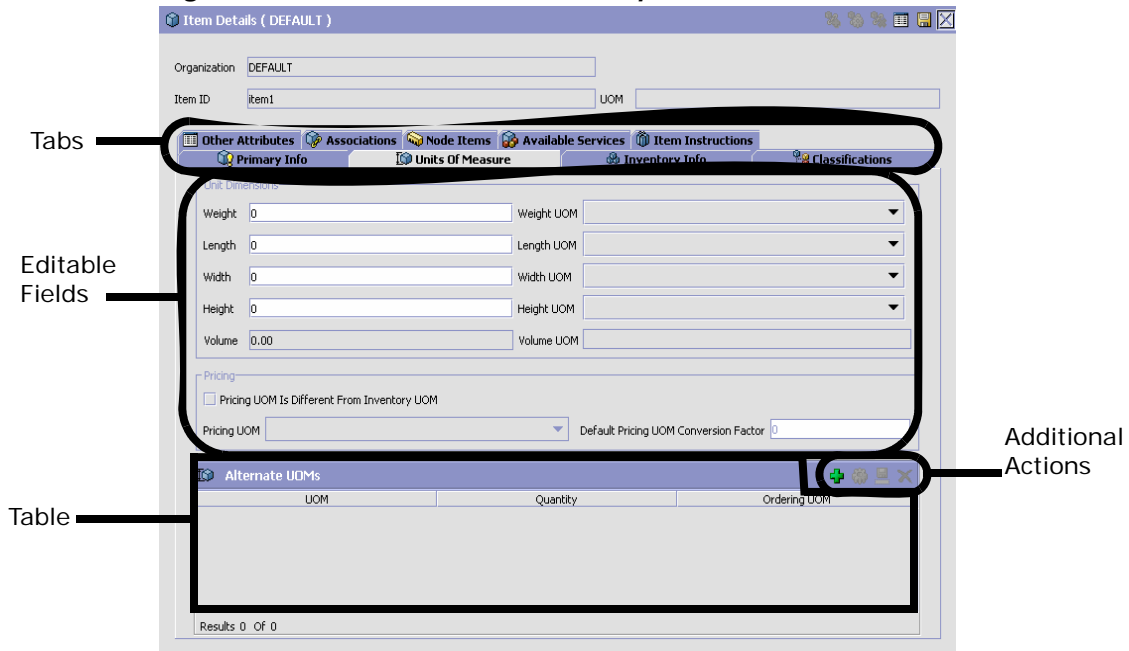
Dimension UOMs (DEFAULT)	
UOM Code	UOM Description
CM	Centimeter
FEET	Feet
IN	Inch
KM	Kilometer
METER	Meter
MILE	Mile

Results 6 Of 6

2.2.2.3 Details Window

A details window is the main interface through which a bulk of the configuration is done. A details window can contain editable fields and tables, tabs to configure different aspects of an entity, and additional actions that can be performed on an entity.

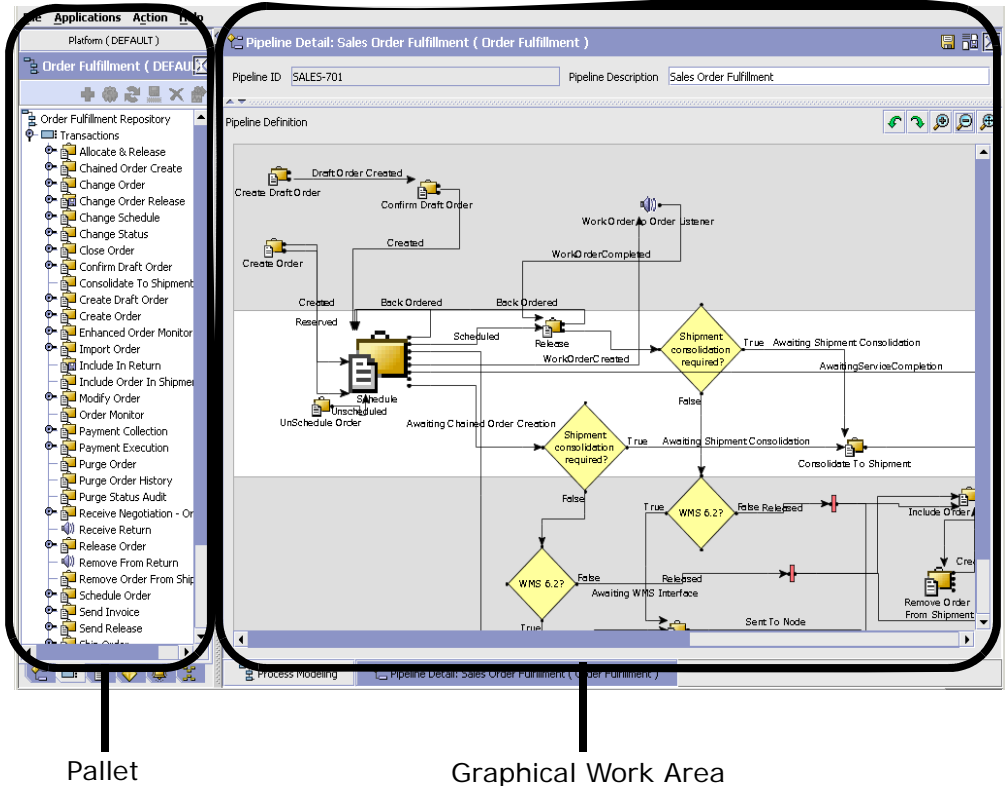
Figure 2–10 Details Window Example



2.2.2.4 Drag and Drop Window

You can use a graphical drag and drop window to ease the construction of pipelines, pipeline determination, event handlers, status monitoring rules, and services. A drag and drop window consists of a pallet and a graphical work area.

Figure 2–11 Drag and Drop Window Example



To begin building any of these entities, choose a component, such as a transaction, from the pallet. Drag the component into the graphical work area. The transaction is now displayed as a graphical representation of itself.

Many components have one or more branches. To connect the next component to the originating component, you must drag the graphical component until it forms a connecting line with one of the other component's sides, links can be set up horizontally or vertically. To delete any components or links, right-click the component and choose Delete. Once components and links have been established you can move them around by dragging them, the links redraw themselves according to the new position. If you hold CTRL while dragging a component, the component is copied within the graphical work area.

2.3 Actions Available Throughout the Yantra 7x Configurator

The following actions can be performed throughout the Yantra 7x Configurator:

- [Using Configurator's Lookup Functionality](#)
- [Viewing the User Logged into the Configurator](#)
- [Using Lists and List Filtering](#)
- [Using On-Line Help](#)
- [Troubleshooting Errors](#)
- [Using Special Characters](#)

2.3.1 Using Configurator's Lookup Functionality

Throughout the Yantra 7x Configurator there are many fields that have a lookup functionality to find or create additional records as they pertain to that field. For example, on the Primary Info tab of the Organization Details screen, the Locale field has a lookup functionality to create a new locale from that screen. When you choose the Create New lookup button the Locale Details information appears in a pop-up screen for you to modify.

Figure 2–12 Lookup Icon Example



The information that is displayed in a lookup field varies depending on how many records you have pertaining to that particular field. When there are 20 or less records, the lookup displays as a drop-down list with a Create New button. When there are between 21 and 75 records, the lookup displays as a drop-down list with a Search button.

When there are more than 75 records, the lookup displays as a text box with a Search button. You can type the value in the text box or search for the value using the Search button. If you enter a value, it is validated when it is saved. You should always type the value as it would appear if it was displayed as a drop-down list. For example, for a currency lookup, you should type the currency description in the text box even though the

currency code is saved in the table. An error is displayed on save if the user has entered an invalid value.

When you use a lookup for a particular field in the Configurator, you should refer to the corresponding section in this guide to set up the particular information.

2.3.2 Viewing the Document Types Associated with an Application

In the Distributed Order Management, Supply Collaboration, Reverse Logistics, and Logistic Management configuration applications, you can view all of the document types associated with the application. Sales Order, Transfer Order, and Purchase Order are all examples of document types.


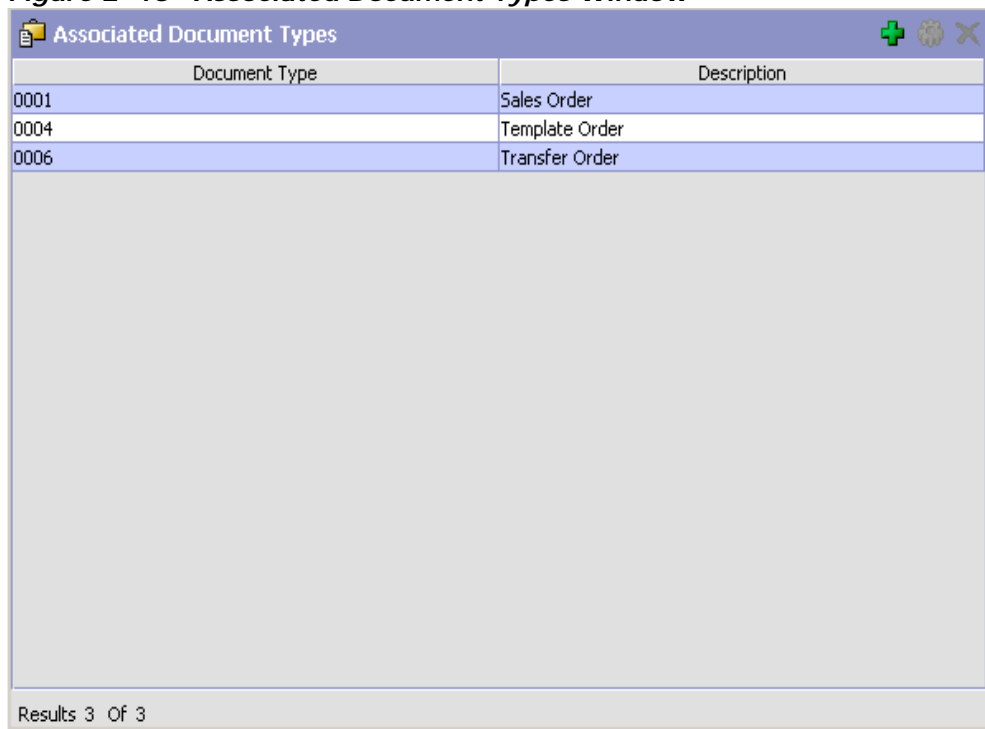
To view an application's associated document types, open the applicable application from the menu and choose  from the application rules side panel. The Associated Document Types window appears displaying a list of all of the document types associated with the application you are working in.

Figure 2–13 Associated Document Types Window


Document Type	Description
0001	Sales Order
0004	Template Order
0006	Transfer Order


Results 3 Of 3

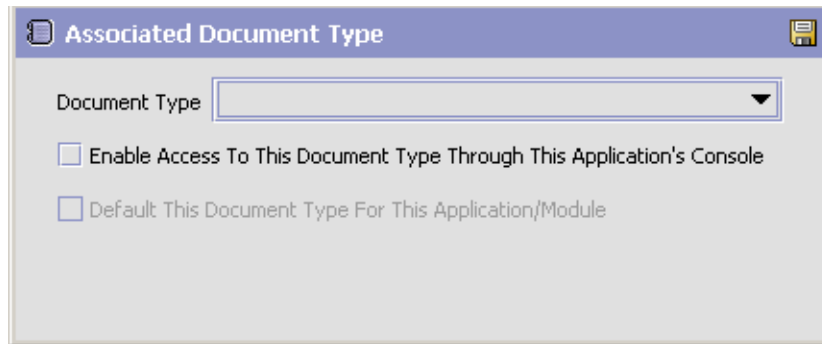
2.3.2.1 Adding a Document Type to an Application


You can add a document type that is associated with another application to the application you are currently working in.

Important: An added document type's associated screens may be irrelevant to the application you are associating it with.

To add a document type to an application:

1. From the Associated Document Types window, choose . The Associated Document Type pop-up window appears.



2. From Document Type, select the document type that you want to associate with the application.
3. Select Enable Access To This Document Through This Applications Console.
4. Choose .

2.3.3 Viewing the User Logged into the Configurator

You can view the user logged into the Configurator and their locale at any time. To view this information, move your mouse over the User icon and Locale icons in the bottom right-hand corner of the application to display the tool tips.

2.3.4 Using Lists and List Filtering

When you perform a search in the Configurator, a list of entities is returned in a search results list based on the criteria you searched on. You can filter and arrange any information that appears in a list by right-clicking anywhere on the list's column headings and using the Table Filter Editor associated with the list.

Figure 2–14 Table List Editor Window Example

Important: When you perform a search, only 100 records are listed by default. Use the list's Table Filter Editor to increase the maximum amount of records returned by a search.

2.3.5 Date and Time Entry

Date fields through the Configurator have a calendar icon that can be used to find dates as it pertains to that field. When you click on this icon, a small calendar displays. You can navigate through this calendar to determine the appropriate date. For example, on the Create Calendar window, the Default Effective To field has a calendar icon that you can use to verify the appropriate ship by date to populate the field.

Figure 2–15 Calendar Icon example

You can also enter time of day information throughout the Configurator. To do this, double click on the time field, and enter the time of day.

Figure 2–16 Time Field example

Shift Name	Start Time	End Time
	<input type="text"/>	

Time should be entered in a 24 hour time format everywhere throughout the Configurator.



2.3.6 Using On-Line Help

You can access the Yantra 7x On-Line Help through Help > Online Help.

2.3.7 Troubleshooting Errors

You can view the description and cause of any error raised in Yantra 7x, as well as actions to take to troubleshoot it.

To view Yantra 7x system error descriptions:

1. From the menu bar, choose Help > Troubleshooting. The Error Search window appears.
2. Enter the applicable search criteria and choose . A list of error codes and their descriptions are displayed.
3. Choose  to view the cause of the error and action to take to troubleshoot it.

2.3.8 Using Special Characters

Throughout the Yantra 7x Configurator there may be instances where you need to use special characters in data entry. For information regarding the use of special characters in Yantra 7x, see the *Yantra 7x Customization Guide*.

Configuring Cross Application Order Promising Components

Order promising is the process of determining what node should be used to ship or provide product, delivery service, and provided service items.

You can define the rules and components necessary to determine the appropriate node and suppliers used to source items. These rules and components are used when there are multiple nodes and suppliers from which you can source items and services.

The configurations detailed in this chapter can be used to determine sourcing based on:

- Where the items are being shipped from
- Ship to location
- Availability at different locations
- Total number of shipments required to complete the request
- Node priority
- Delivery region

You can use the Sourcing Setup branch for:

- [Configuring the Fulfillment Network Model](#)
- [Defining Item Level Controls](#)
- [Defining Node Level Controls](#)
- [Defining Sourcing and Scheduling Rules](#)

3.1 Configuring the Fulfillment Network Model

The Fulfillment Network Model is a geographical representation of your configured nodes and their relationships. It also provides a variety of navigation tools and filtering options that enable you to view only pertinent information.

Nodes are plotted on the network fulfillment map based on the latitude and longitude details specified in the YFS_SHIP_NODE table. For newly created nodes, these fields are populated when a user enters the values for the corporate address of the node.

If latitude and longitude details are not specified for previously configured nodes, the system derives the details from the YFS_PERSON_INFO table, which corresponds to the corporate address information of the node.

If latitude and longitude details are not found in the YFS_PERSON_INFO table, the system searches in the YFS_ZIP_CODE_LOCATION table.

A user can also update the latitude and longitude details for a previously configured node in the YFS_SHIP_NODE table by running the updateShipNodeCoordinates API.

Note: If the latitude or longitude details for a node are not found in any of the above mentioned tables, the node is plotted at coordinates 0,0 on the world map.

For more information on navigating in the Fulfillment Network Model, see [Section 3.1.1, "Navigating in the Fulfillment Network Model"](#) on page 35.

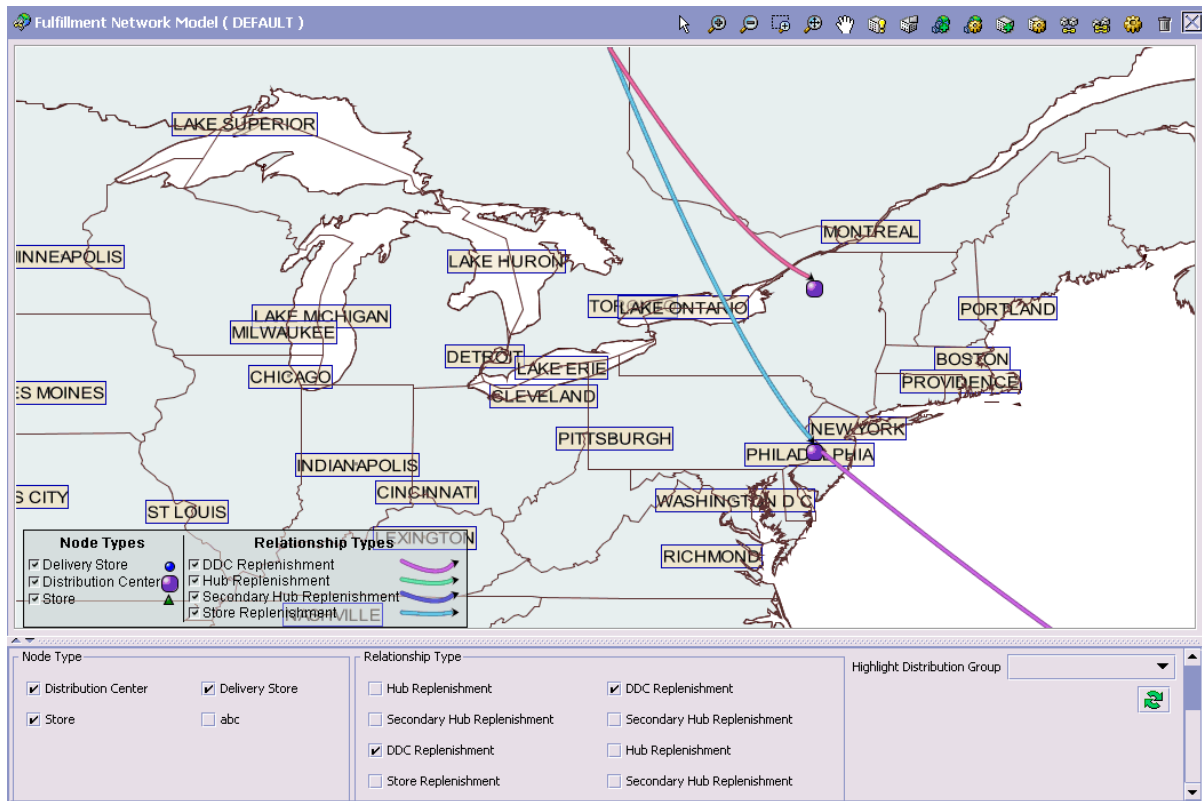
You can use the Fulfillment Network Model branch for:

- [Defining Distribution Groups](#)
- [Defining Node Types](#)
- [Defining Nodes](#)
- [Defining Relationship Types](#)
- [Defining Relationships](#)

Note: Depending on the amount of data that needs to be processed, the fulfillment network model may take up to a few minutes to load.

3.1.1 Navigating in the Fulfillment Network Model

This section describes the Fulfillment Network Model work area. There are three main components, as indicated in the screenshot below:



Map View

The Map View displays a geographical map. Depending on the filter criteria and map legend options, the nodes and relationships in your fulfillment network appear on this map. Nodes are represented as

symbols of different shape, color, and size. Relationships are represented as arrows of different color. The direction of the arrow indicates the To Location and From Location for the relationship.

The Map Legend indicates what each symbol or arrow displayed on the Map represents. Furthermore, unchecking the box next to a symbol or arrow on the Map Legend hides corresponding entities in the Map View. The Map Legend can be dragged to any location within the Map View.

Action Icons

The action icons allow you to navigate within the Map View, and perform various tasks such as view node details or create relationships. Refer to [Table 3–1](#) for descriptions of each action icon available.

Table 3–1 Action Icons







Action Icon	Description
	<p>Select Tool - With the Select tool, you can click on nodes or relationships to select them. A selected node or relationship becomes highlighted to distinguish it from other elements on the map.</p> <p>Double-clicking a node displays the node's details.</p> <p>Double-clicking a relationship displays the relationship's details.</p> <p>You can click and drag to select multiple nodes and relationships.</p>
	<p>Zoom In - Click this action to zoom in on the currently displayed area.</p>
	<p>Zoom Out - Click on this action to zoom out from the currently displayed area.</p>
	<p>Zoom Selection Tool- With the Zoom Selection tool selected, you can click and drag over the area of the map you want to enlarge.</p>
	<p>Zoom To Fit - Click this action to return the map to its default magnification.</p>
	<p>Pan Tool - With the Pan Tool selected, you can click and drag within the display area to move the map.</p>

Table 3–1 Action Icons











Action Icon	Description
	View Node Types - Click this action to display the Node Type List screen, where you can create, modify or delete node types. For more information on configuring node types, see Section 3.1.3, "Defining Node Types" on page 42.
	View Relationship Types - Click this action to display the Relationship Type List screen, where you can create, modify or delete relationship types. For more information on configuring relationship types, see Section 3.1.5, "Defining Relationship Types" on page 46.
	Create Distribution Group - With one or more nodes selected on the map, clicking this action will display the Create Distribution Group screen. For more information on creating a distribution group, see Section 3.1.2.1, "Creating a Distribution Group" on page 40.
	View Distribution Groups - Click this action to display the Product Sourcing Distribution Group screen, where you can create, modify, or delete distribution groups. For more information on defining distribution groups, see Section 3.1.2, "Defining Distribution Groups" on page 39
	Create Node - Click this action to display the Create Node screen, where you can create a node organization. For more information on defining nodes, see Section 3.1.4, "Defining Nodes" on page 43.
	View Node Details - With a node selected on the map, clicking this action displays the Node Details screen. For more information on viewing and modifying node details, see Section 3.1.4.2, "Modifying a Node" on page 46.
	Create Single Relationship - With two nodes selected on the map, clicking this action displays the Relationship Details screen, where you can create a relationship between the nodes. For more information on defining relationships, see Section 3.1.6, "Defining Relationships" on page 48.

Table 3–1 Action Icons


Action Icon	Description
	Create Relationships - With two or more nodes selected on the map, clicking this action displays the Create Relationships screen when you can create multiple relationships at once. For more information on defining relationships, see Section 3.1.6, "Defining Relationships" on page 48.
	View Relationship Details - With a relationship selected, clicking this action displays the Relationship Details screen, where you can view or modify relationships. For more information on viewing or modifying relationships, see Section 3.1.6.2, "Modifying a Relationship" on page 50.
	Remove Relationships - With one or more relationships selected, clicking this action deletes the selected relationship(s). For more information on deleting relationships, see Section 3.1.6.3, "Deleting a Relationship" on page 51.


Filter Criteria

The Filter Criteria enables a user to specify what entities display on the map. Users can select or deselect what displays from a list of node types, relationship types and distribution groups.

3.1.1.1 Using Filter Criteria

To use filter criteria:

1. If the Filter Criteria panel is hidden, it can be made visible by clicking on the UP arrow in the bottom-left corner of the work area.
2. Enter information into the applicable fields. Refer to [Table 3–2](#) for field level descriptions.
3. Once you have specified your filter criteria, select . The Map View is updated with your filter criteria.

Upon clicking , your filter criteria is saved as a search. When revisiting the Fulfillment Network Model, the most recently saved filter criteria and view is used.


Node Type <input checked="" type="checkbox"/> Distribution Center <input checked="" type="checkbox"/> Delivery Store <input checked="" type="checkbox"/> Store <input type="checkbox"/> abc		Relationship Type <input type="checkbox"/> Hub Replenishment <input checked="" type="checkbox"/> DDC Replenishment <input type="checkbox"/> Secondary Hub Replenishment <input type="checkbox"/> Secondary Hub Replenishment <input checked="" type="checkbox"/> DDC Replenishment <input type="checkbox"/> Hub Replenishment <input type="checkbox"/> Store Replenishment <input type="checkbox"/> Secondary Hub Replenishment	Highlight Distribution Group ▼ 
--	--	--	---

Table 3–2 Filter Criteria Panel

Field	Description
Node Type	<p>The node type panel is dynamically populated with the node types you have defined. Check the node types you want to view, and uncheck the node types you want to hide.</p> <p>For more information on defining node types, see Section 3.1.3, "Defining Node Types" on page 42.</p>
Relationship Type	<p>The relationship type panel is dynamically populated with the relationship types you have defined. Check the relationship types you want to view, and uncheck the relationship types you want to hide.</p> <p>Note: Relationships only appear on the map if its To and From nodes belong to a node type that has been selected in the node type panel.</p> <p>For more information on defining relationship types, see Section 3.1.5, "Defining Relationship Types" on page 46.</p>
Highlight Distribution Group	<p>Select a distribution group from the drop-down list to be highlighted on the map.</p> <p>Note: Highlighted nodes only appear on the map if the nodes belong to a node type that has been selected in the node type panel.</p> <p>For more information on defining distribution groups, see Section 3.1.2, "Defining Distribution Groups" on page 39.</p>

3.1.2 Defining Distribution Groups


You can create a set of nodes that can be used when determining sourcing. You can define distribution groups that establish the ship node determination process based on priority.

Select one of the following tasks:

- [Creating a Distribution Group](#)
- [Modifying a Distribution Group](#)
- [Deleting a Distribution Group](#)

3.1.2.1 Creating a Distribution Group

To create a distribution group from the Fulfillment Network Model screen:

1. Using the Select tool, select the nodes on the map that you want to include in the distribution group.
2. Select the Create Distribution Group action icon. The Create Distribution Group screen displays.
3. Enter information into the applicable fields. Refer to [Table 3–3](#) for field level descriptions.
4. Click .

Create Distribution Group

Distribution Group

Description

Node List

Node	Description
Append	Append
newnode	newnode

Table 3–3 Create Distribution Group Screen

Field	Description
Distribution Group	Enter the name of the distribution group.
Description	Enter a description for the distribution group.
Node List The node list displays the nodes you had selected in the Fulfillment Network Model that will be added to this distribution group.	



Table 3–3 Create Distribution Group Screen




Field	Description
Node	The name of the node.
Description	The description for the node.

Note: You can also create distribution groups without using the Fulfillment Network Model. For more information on creating distribution groups by selecting nodes from a list of nodes, see [Section 3.4.8.1, "Creating a Distribution Group"](#) on page 84.

3.1.2.2 Modifying a Distribution Group


To modify a distribution group from the Fulfillment Network Model screen:

1. Select the View Distribution Groups action icon. The Product Sourcing Distribution Group screen displays.
2. Select the applicable distribution group from the list and choose . The Distribution Group Details screen displays.
3. Enter information into the applicable fields. Refer to [Table 3–17](#) for field level descriptions.
4. Click .

Product Sourcing Distribution Groups   	
Group ID	Description
DG1-E	DG1-E
DGroup	DGroup
Distr1	Distr1
d1	d1
di	di2
grp	grp

3.1.2.3 Deleting a Distribution Group

To delete a distribution group from the Fulfillment Network model screen:

1. Select the Distribution Group List action icon. The Product Sourcing Distribution Group screen displays.
2. Select the applicable distribution group from the list and choose .

3.1.3 Defining Node Types



You can define node types to classify nodes. You can use node types to define node relationships, and set inventory rules. For more information on defining inventory node type rules, refer to the *Yantra 7x Inventory Synchronization Configuration Guide*.

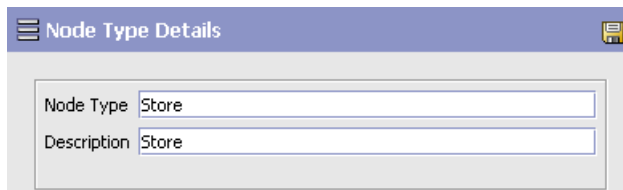
Select one of the following tasks:

- [Creating a Node Type](#)
- [Modifying a Node Type](#)
- [Deleting a Node Type](#)

3.1.3.1 Creating a Node Type

To create a node type from the Fulfillment Network Model screen:

1. Select the View Node Types action icon. The Node Type List screen displays.
2. Choose . The Node Type Detail screen displays.
3. Enter information into the applicable fields. Refer to [Table 3–4](#) for field level descriptions.
4. Click .





The screenshot shows a web application window titled "Node Type Details" with a menu icon on the left and a save icon on the right. The form contains two input fields: "Node Type" and "Description", both of which have the text "Store" entered. The "Node Type" field is highlighted with a blue border.

Table 3–4 Node Type Details

Field	Description
Node Type	Enter a name for the node type.
Description	Enter a description for the node type.


3.1.3.2 Modifying a Node Type

To modify a node type from the Fulfillment Network Model screen:

1. Select the View Node Types action icon. The Node Type List screen displays.
2. Select the applicable node type from the list and choose . The Node Type Detail screen displays.
3. Enter information into the applicable fields. Refer to [Table 3–4](#) for field level descriptions.
4. Click .

3.1.3.3 Deleting a Node Type

To delete a node type from the Fulfillment Network Model screen:

1. Select the View Node Types action icon. The Node Type List screen displays.
2. Select the applicable node type from the list and choose .

3.1.4 Defining Nodes

You can use the Fulfillment Network Model to define node organizations. For more information on participant modeling, refer to the *Yantra 7x Platform Configuration Guide*.


Note: Nodes created through the Fulfillment Network Model screen are automatically defined as child organizations of the Enterprise that the fulfillment network model belongs to.

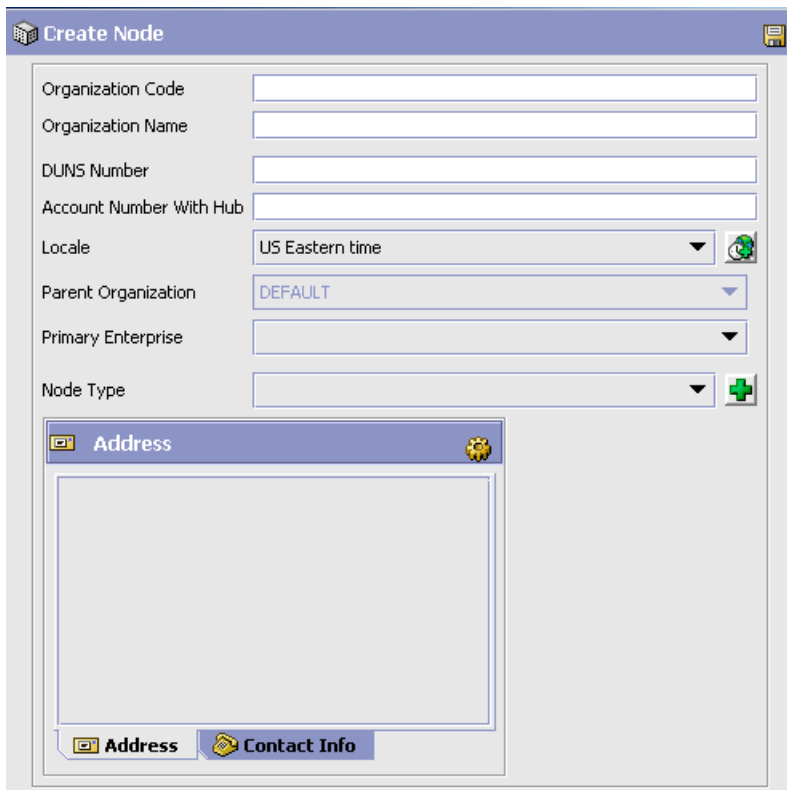
Select one of the following tasks:

- [Creating a Node](#)
- [Modifying a Node](#)

3.1.4.1 Creating a Node

To create a node from the Fulfillment Network Model screen:

1. Select the Create Node action icon. The Create Node screen displays.
2. Enter information into the applicable fields. Refer to [Table 3–5](#) for field level descriptions.
3. Click .




Create Node

Organization Code

Organization Name


DUNS Number


Account Number With Hub

Locale 

Parent Organization

Primary Enterprise

Node Type 

Address 




 **Address**  **Contact Info**

Table 3–5 Create Node Screen

Field	Description
Organization Code	Enter a unique code that identifies the node.
Organization Name	Enter the name of the node.
DUNS Number	Enter a unique nine-digit identification sequence, which provides unique identifiers of single business entities. Yantra 7x does not associate any logic with the DUNS number.
Account Number With Hub	If the node is not the Hub, enter the account number that the node has with the Hub.
Locale	Select the node's geographic location.
Parent Organization	Select the node's parent organization.
Primary Enterprise	<p>If the node is not an Enterprise, select the applicable primary Enterprise. The primary enterprise will be defaulted on the entry point order console screens (for example, on search screens and create screens).</p> <p>On the organization details screen, when creating or modifying a node organization, the actions that appear on the primary info tab of the node attributes tab are the actions created for that enterprise. Whenever any enterprise level configuration is retrieved in the back-end business logic for a specific organization, the rules will always be retrieved for the primary enterprise of that organization. For more information, refer to the <i>Yantra 7x Platform Configuration Guide</i>.</p>

Table 3–5 Create Node Screen


Field	Description
Node Type	Select the node type for this node.
Address and Contact Info	<p>The address and contact information for this node organization.</p> <p>Choose  to enter an address.</p> <p>Choose the Contact tab to view additional contact information.</p> <p>You can also specify latitude and longitude coordinates for this address. If specified for a node, these coordinates are used to plot the node on the Fulfillment Network Model.</p> <p>Note: when latitude and longitude coordinates have not been specified, Yantra will plot the node using the zip code specified in the address details.</p> <p>Specifying latitude and longitude coordinates overrides the plotting of a node by zip code location.</p>

3.1.4.2 Modifying a Node

To modify a node's details from the Fulfillment Network Model screen:

1. Double-click on the applicable node in the map view, or select the applicable node in the map view and select the Node Details action icon. The Organization Details screen displays.

For more information on defining node attributes, refer to the *Yantra 7x Platform Configuration Guide*.

2. Enter information into the applicable fields.
3. Click .

3.1.5 Defining Relationship Types

You can define relationship types to classify relationships.



Select one of the following tasks:

- [Creating a Relationship Type](#)
- [Modifying a Relationship Type](#)

- [Deleting a Relationship Type](#)

3.1.5.1 Creating a Relationship Type

To create a relationship type:

1. Select the View Relationship Types action icon. The Relationship Type List screen displays.
2. Choose . The Relationship Type Detail screen displays.
3. Enter information into the applicable fields. Refer to [Table 3–6](#) for field level descriptions.
4. Click .

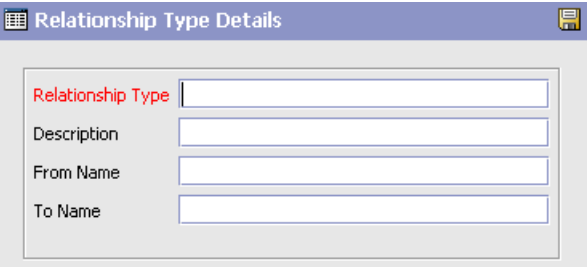




Table 3–6 Relationship Type Detail Screen

Field	Description
Relationship Type	Enter the name of the relationship type.
Description	Enter a description for the relationship type.
From Name	Enter a From Name. The From Name is used to identify the From Location for this relationship type. For example, in a "Store Replenishment" relationship type, the From Name could be "Distribution Center".
To Name	Enter a To Name. The To Name is used to identify the To Location for this relationship type. For example, in a "Store Replenishment" relationship type, the To Name could be "Store".


3.1.5.2 Modifying a Relationship Type

To modify a relationship type:

1. Select the View Relationship Types action icon. The Relationship Type List screen displays.
2. Select the applicable relationship type from the list and choose . The Relationship Type Detail screen displays.
3. Enter information into the applicable fields. Refer to [Table 3–6](#) for field level descriptions.
4. Choose .

3.1.5.3 Deleting a Relationship Type

To delete a relationship type from the Fulfillment Network model screen:

1. Select the View Relationship Types action icon. The Relationship Type List screen displays.
2. Select the applicable relationship type from the list and choose .

3.1.6 Defining Relationships

You can define relationships between two nodes.

Select one of the following tasks:

- [Creating a Relationship](#)
- [Modifying a Relationship](#)
- [Deleting a Relationship](#)

3.1.6.1 Creating a Relationship

You can create a single relationship between two nodes.

To create a single relationship between two nodes:

1. Select the Add Single Relationship action icon.
2. On the map, click on the From Node. A line will be extended from that node.
3. Click on the To Node to connect the From Node to the To Node. The Relationship Type List displays.

- 4. From the Relationship Type List, select the relationship type for this relationship and choose Select.

You can also create multiple relationships of the same type from one node to several other nodes, or from several nodes to one node.

To create multiple relationships of the same relationship type.

- 1. Using the Select tool, select the From Node(s) and To Node(s) between which you want to create the same relationship.
- 2. Select the Add Relationships action icon. The Relationships Creation Criteria Details window displays.
- 3. Enter information into the applicable fields. Refer to [Table 3–7](#) for field level descriptions.
- 4. Choose OK.

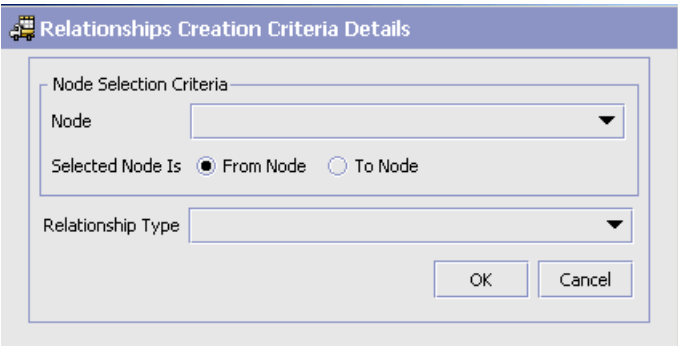


Table 3–7 Relationships Creation Criteria Details Screen


Field	Description
Node	If you are creating relationships from one node to many nodes, select the single From Node from the dropdown list. If you are creating relationships from many nodes to one node, select the single To Node from the dropdown list.

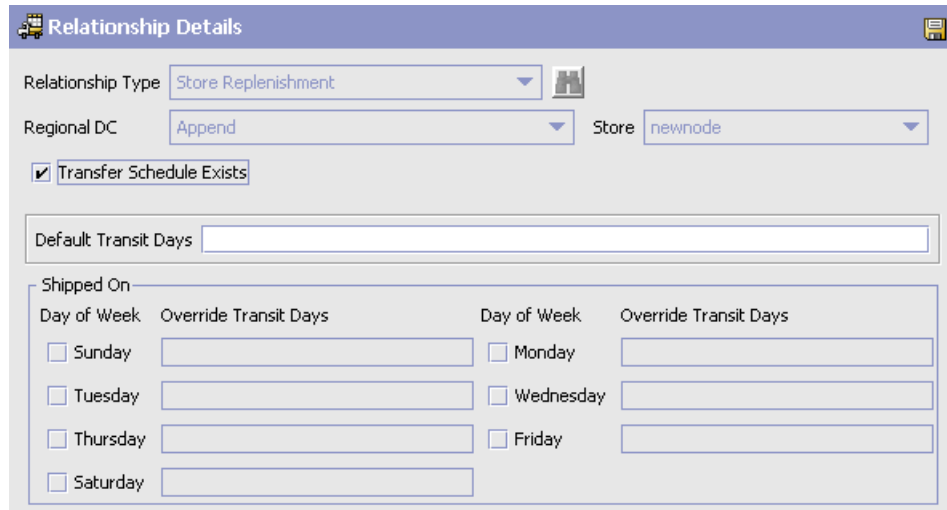
Table 3–7 Relationships Creation Criteria Details Screen

Field	Description
Selected Node Is	From Node - choose this option if the node selected in the "Node" field is the From Node for the relationships. To Node - choose this option if the node selected in the "Node" field is the To Node for the relationships.
Relationship Type	Select the relationship type for the relationships.

3.1.6.2 Modifying a Relationship

To modify a relationship:

1. On the map, double-click the relationship you want to modify. The relationship details screen displays.
2. Enter information into the applicable fields. Refer to [Table 3–8](#) for field-level descriptions.
3. Choose .



Relationship Details

Relationship Type: Store Replenishment

Regional DC: Append Store: newnode

☒ Transfer Schedule Exists

Default Transit Days:

Shipped On:

Day of Week	Override Transit Days	Day of Week	Override Transit Days
<input type="checkbox"/> Sunday	<input type="text"/>	<input type="checkbox"/> Monday	<input type="text"/>
<input type="checkbox"/> Tuesday	<input type="text"/>	<input type="checkbox"/> Wednesday	<input type="text"/>
<input type="checkbox"/> Thursday	<input type="text"/>	<input type="checkbox"/> Friday	<input type="text"/>
<input type="checkbox"/> Saturday	<input type="text"/>		

Table 3–8

Field	Description
Relationship Type	The relationship type of this relationship.
<From Name>	The From Node for this relationship. This field will be displayed as the From Name defined for the relationship type.
<To Name>	The To Node for this relationship. This field will be displayed as the To Name defined for the relationship type.
Transfer Schedule exists	Check this box if a transfer schedule exists between the From Node and To Node for this relationship. If this box is not checked, additional transfer schedule configuration is disabled.
Default Transit Days	Enter how many days it takes to deliver a transfer order to the To Node after it has been shipped from the From Node. This field is used as the default if an Override Transit Days is not entered (or has a value of 0) for a Shipped On day.
Shipped On	
Day of the Week	Select the days that the From Node is available to ship procurement items to the To Node.
Override Transit Days	Enter the transit time that overrides the value entered in Default Transit Days for the selected day of the week, if applicable.

3.1.6.3 Deleting a Relationship

To delete a relationship:




1. On the map, select the relationship you want to delete. The relationship appears highlighted.
2. Select the Remove Relationship action icon.
3. Click OK to confirm the deletion.

3.2 Defining Item Level Controls

You can define the notification and promising rules for a particular item. These rules are used to determine node scheduling. For more information

about scheduling and scheduling rules, see [Section 3.4.5, "Defining Scheduling Rules"](#) on page 69.

To define item level controls:

1. From the tree in the application rules side panel, choose Cross Application > Order Promising > Item Level Controls. The Product Item Search window appears in the work area.
2. Enter the applicable search criteria and choose . A list of product items is displayed.
3. Select the applicable item and choose . The Item Level Control pop-up window appears.
4. Enter information into the applicable fields. Refer to [Table 3–9](#) for field value descriptions.
5. Choose .

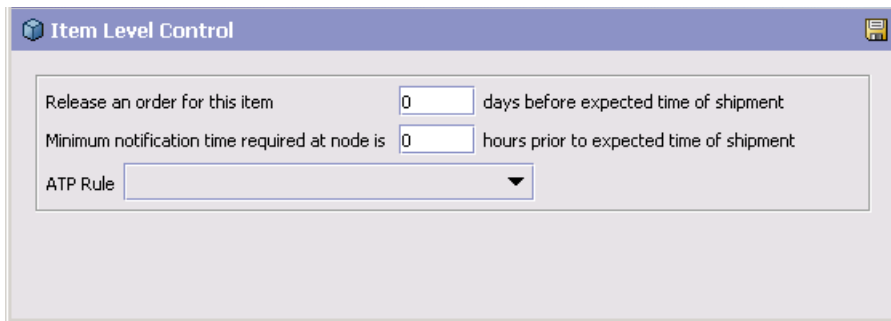


Table 3–9 Item Level Control Pop-Up Window

Field	Description
Release an order for this item n days before expected time of shipment	Enter how many days before an order's expected ship date a node needs to receive communication to ship the item.

Table 3–9 Item Level Control Pop-Up Window

Field	Description
Minimum notification time required at this node is <i>n</i> hours prior to expected time of shipment	Enter the minimum business hours it takes to ship the item once an order has been released to the node.
ATP Rule	Select the default available-to-promise rule to use to determine availability for the item. For more information about configuring ATP rules, see the <i>Yantra 7x Inventory Synchronization Configuration Guide</i> .

3.3 Defining Node Level Controls



You can define the notification and promising rules for individual nodes that belong to the organization. These rules are used to determine node scheduling. You can also define the procurement transfer orders for the node, as well as view the transfer schedules of the other nodes it participates with. For more information about scheduling and scheduling rules, see [Section 3.4.5, "Defining Scheduling Rules"](#) on page 69.

You can use the Node Level Controls branch for:

- [Defining a Node's Primary Order Promising Information](#)
- [Defining a Node's Relationships](#)

3.3.1 Defining a Node's Primary Order Promising Information

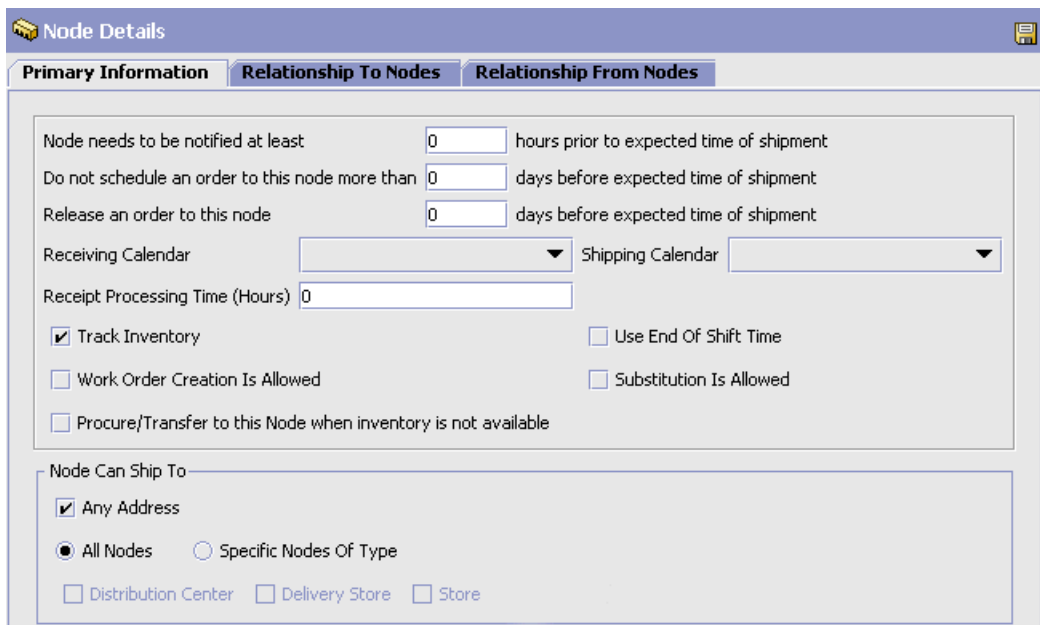
To define a node's primary order promising information:

1. From the tree in the application rules side panel, choose Cross Application > Order Promising > Node Level Controls. The Ship Node Search window appears in the work area.
2. Enter the applicable search criteria and choose . A list of node displays.
3. Select the applicable node and choose . The Node Details pop-up window appears.

4. Enter information into the applicable fields. Refer to [Table 3–10](#) for field value descriptions.

Important: Any information entered in this window overrides any information previously defined for the node in Platform's Participant Modeling configuration. For more information about configuring a node organization, see the *Yantra 7x Platform Configuration Guide*.

5. Choose .



The image shows a software window titled "Node Details" with a yellow header bar. Below the header are three tabs: "Primary Information", "Relationship To Nodes", and "Relationship From Nodes". The "Primary Information" tab is selected. The main content area contains several input fields and checkboxes. The first section has three rows, each with a text label, a numeric input field, and a unit label: "Node needs to be notified at least" with a value of 0 and "hours prior to expected time of shipment"; "Do not schedule an order to this node more than" with a value of 0 and "days before expected time of shipment"; and "Release an order to this node" with a value of 0 and "days before expected time of shipment". Below these are two dropdown menus labeled "Receiving Calendar" and "Shipping Calendar". The next row is "Receipt Processing Time (Hours)" with a value of 0. Following this are three rows of checkboxes: "Track Inventory" (checked), "Work Order Creation Is Allowed" (unchecked), and "Procure/Transfer to this Node when inventory is not available" (unchecked). To the right of these are two more checkboxes: "Use End Of Shift Time" (unchecked) and "Substitution Is Allowed" (unchecked). The final section is titled "Node Can Ship To" and contains a checked checkbox for "Any Address", a radio button for "All Nodes" (selected) and a radio button for "Specific Nodes Of Type", and three checkboxes for "Distribution Center", "Delivery Store", and "Store".

Node Details

Primary Information | Relationship To Nodes | Relationship From Nodes

Node needs to be notified at least hours prior to expected time of shipment

Do not schedule an order to this node more than days before expected time of shipment

Release an order to this node days before expected time of shipment

Receiving Calendar Shipping Calendar

Receipt Processing Time (Hours)

☒ Track Inventory ☐ Use End Of Shift Time

☐ Work Order Creation Is Allowed ☐ Substitution Is Allowed

☐ Procure/Transfer to this Node when inventory is not available

Node Can Ship To

☒ Any Address

☒ All Nodes ☐ Specific Nodes Of Type

☐ Distribution Center ☐ Delivery Store ☐ Store

Table 3–10 Node Details Pop-Up Window

Field	Description
Node needs to be notified at least <i>n</i> hours prior to expected time of shipment	Enter the minimum number of business hours it takes to ship an order once it has been released to the node.
Do not schedule an order to this node more than <i>n</i> days before expected time of shipment	Enter the maximum number of business days that a schedule can be sent to a node for it to be fulfilled. This number is used when performing earliest schedule date calculations. Note: This parameter is only considered if the node is pre-specified on the order line.
Release an order to this node <i>n</i> days before expected time of shipment	Enter the number of business days by which communication to ship an order from a node must be made before the expected shipment date.
Receiving Calendar	Select the calendar to use to determine the available shifts for receiving deliveries at the node. The calendars of the node as well as the calendars of the primary enterprise of the node display in this drop-down list.
Shipping Calendar	Select the calendar to use to determine the available shifts during which the node can ship orders. The calendars of the node as well as the calendars of the primary enterprise of the node display in this drop-down list.
Receipt Processing Time (Hours)	Enter the receipt processing time for this node in hours.
Track Inventory	Select Track Inventory if you want the ship node to track minimum and maximum inventory levels for an item.

Table 3–10 Node Details Pop-Up Window

Field	Description
Use End Of Shift Time	<p>Select this field if you want the node to base shipment time by the end of the next feasible shift.</p> <p>Unselect this field if you want the node to base shipment time by any given node parameters, such as Minimum Notification Time, and the time a shipment can actually be shipped.</p> <p>For example, a node works five days a week, with two shifts, 8AM - 4PM and 4PM - 8PM.</p> <p>The node's Minimum Notification Time is set to 2 hours.</p> <p>If an order is sent to a node at Friday 1PM, the order is scheduled to ship on same day at 4PM if Use End Of Shift Time is set to Y. The order is scheduled to ship on same day at 3PM if Use End Of Shift Time is set to N.</p> <p>If an order is sent to a node at Friday 3PM, the order is scheduled to ship on same day at 8PM if Use End Of Shift Time is set to Y. The order is scheduled to ship on same day at 5PM if Use End Of Shift Time is set to N.</p> <p>Note: Use End Of Shift Time is only applicable for product lines.</p>
Work Order Creation Is Allowed	Choose this if you want to use Work Orders to support compliance services at this node. Work Orders describe the service activities to customize items based on a buyer's requests.
Substitution Is Allowed	Choose this if substitution of product items within an order is allowed.
Procure/Transfer to this Node when Inventory is not available	Check this checkbox if the node can accept procurement/transfer orders. For more information about procurement orders, see Section 3.4.13, "Defining Procurement Rules" on page 105.
Node Can Ship To	
Any Address	Check this box if this node can ship to any address.

Table 3–10 Node Details Pop-Up Window

Field	Description
All Nodes	Select this option if this node can ship to all nodes.
Specific Nodes of Type	If this node can only ship to nodes with a specific node type, select this option, and check the applicable node types available. For more information on creating node types, refer to the <i>Yantra 7x Platform Configuration Guide</i> .

3.3.2 Defining a Node's Relationships

A transfer order is a type of chained order that is created when a node that belongs to the organization you are configuring needs to replenish their stock from another node within the organization to fulfill an order. A chained order is an order that is linked to a parent order in which the lifecycle of one effects the other.



You can define a relationship between the node you are defining and another node. Within this relationship you can define a transfer schedule, including the transit time to procure items from a node, on a day-of-week basis. The schedule is used for calculating expected dates.



You can define a transfer schedule that determines when items can be shipped from one node to another, including the transit time to procure items from a node, on a day-of-week basis. The schedule is used for calculating expected dates.



You can create, modify, and delete relationships.

3.3.2.1 Creating a Node Relationship

To create a node relationship:


1. From the tree in the application rules side panel, choose Cross Application > Order Promising > Node Level Controls. The Ship Node Search window appears in the work area.
2. Enter the applicable search criteria and choose . A list of nodes is displayed.
3. Select the applicable node and choose . The Node Details pop-up window appears.

- 4. To create a node relationship from the node to another node, choose the Relationship To Node tab. To create a node relationship to the node from another node, choose the Relationship To Node tab.
- 5. Choose . The Relationship Details pop-up window appears.
- 6. Enter information into the applicable fields. Refer to [Table 3–11](#) for field value descriptions.
- 7. Choose .

 Relationship Details 

Relationship Type

Hub Replenishment



From Node

To Node

STORE2

☒ Transfer Schedule Exists

Default Transit Days

Shipped On

Day of Week

Override Transit Days

Day of Week

Override Transit Days

☐ Sunday

☐ Monday

☐ Tuesday

☐ Wednesday

☐ Thursday

☐ Friday

☐ Saturday

Table 3–11 Relationship Details Pop-Up Window





Field	Description
Relationship Type	Select a relationship type for this relationship from the dropdown list.
From Node	Select the node from which items can be procured. For the Relationship To Node tab, this option is defaulted to the node you are configuring and disabled.
To Node	Select the node to which transfer order items are sent. For the Relationship From Node tab, this option is defaulted to the node you are configuring and disabled.

Table 3–11 Relationship Details Pop-Up Window

Field	Description
Default Transit Days	Enter how many days it takes to deliver a transfer order to the node in To Node after it has been shipped from the node in From Node. This field is used as the default if an Override Transit Days is not entered (or has a value of 0) for a Shipped On day.
Shipped On	
Day of Week	Select the days that the node in From Node is available to ship procurement items to the node in To Node.
Override Transit Days	Enter the transit time that overrides the value entered in Default Transit Days for the selected day of the week, if applicable.




3.3.2.2 Modifying a Node Relationship

To modify a node relationship:

1. From the tree in the application rules side panel, choose Cross Application > Order Promising > Node Level Controls. The Ship Node Search window appears in the work area.
2. Enter the applicable search criteria and choose . A list of nodes is displayed.
3. Select the applicable node and choose . The Node Details pop-up window appears.
4. To modify a node relationship from the node to another node, choose the Relationship To Node tab. To modify a node relationship to the node from another node, choose the Relationship To Node tab.
5. From the table, locate the applicable relationship and choose . The Relationship Details pop-up window appears.
6. Enter information into the applicable fields. Refer to [Table 3–11](#) for field value descriptions.
7. Choose .

3.3.2.3 Deleting a Node Relationship

To delete a node relationship:

1. From the tree in the application rules side panel, choose Cross Application > Order Promising > Node Level Controls. The Ship Node Search window appears in the work area.
2. Enter the applicable search criteria and choose . A list of nodes is displayed.
3. Select the applicable node and choose . The Node Details pop-up window appears.
4. To delete a node relationship from the node to another node, choose the Relationship To Node tab. To modify a node relationship to the node from another node, choose the Relationship To Node tab.
5. From the table, locate the applicable relationship choose .

3.4 Defining Sourcing and Scheduling Rules

You can define the sourcing and scheduling rules for product items, delivery services, and provided services.

You can use the Sourcing and Scheduling branch for:

- [Defining Fulfillment Types](#)
- [Defining Basic Sourcing Configuration](#)
- [Creating an Order Sourcing Classification](#)
- [Defining Sourcing Region Selection](#)
- [Defining Scheduling Rules](#)
- [Configuring Landed Cost Optimization](#)
- [Defining Forwarding/Transfer Rules](#)
- [Defining Distribution Groups for Product Items](#)
- [Defining Sourcing Rules for Product Items](#)
- [Defining Sourcing Rules for Delivery Service Items](#)
- [Defining Distribution Groups for Provided Service Items](#)
- [Defining Sourcing Rules for Provided Service Items](#)
- [Defining Procurement Rules](#)

3.4.1 Defining Fulfillment Types

You must associate fulfillment types with sourcing and procurement rules. Fulfillment types are used to define custom requirements that allow you to determine sourcing and procurement locations based on parameters that Yantra 7x does not provide logic for, such as, customers and order type. For example, you want to source or procure orders for a special promotion from a particular node. You can create a fulfillment type called Promotion that you can associate with a sourcing or procurement rule that will source from the node.


Important: The sourcing rules for product sourcing and procurement must have the same fulfillment type for sourcing setup to work properly.

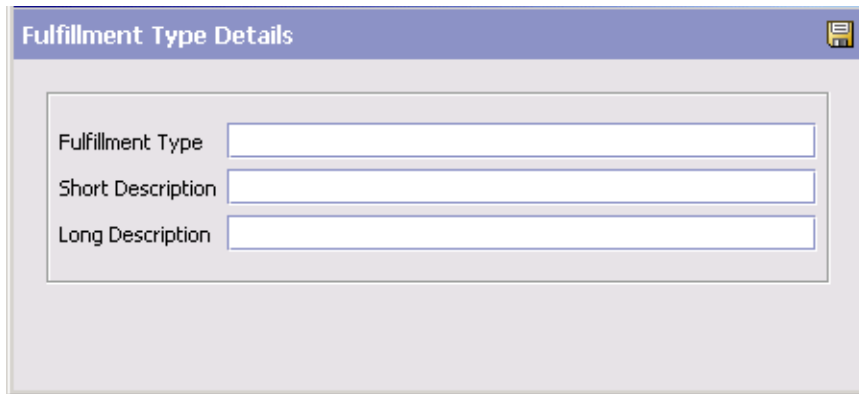
You can use the Fulfillment Types branch for:

- [Creating a Fulfillment Type](#)
- [Modifying a Fulfillment Type](#)
- [Deleting a Fulfillment Type](#)


3.4.1.1 Creating a Fulfillment Type

To create a fulfillment type:

1. From the tree in the application rules side panel, choose Cross Application > Order Promising > Sourcing And Scheduling > Fulfillment Types. The Fulfillment Types window appears in the work area.
2. Choose . The Fulfillment Types Details pop-up window appears.





The screenshot shows a dialog box titled "Fulfillment Type Details". It contains three text input fields: "Fulfillment Type", "Short Description", and "Long Description". Each field is preceded by its label. The dialog has a standard Windows-style title bar with a save icon in the top right corner.

3. In Fulfillment Type, enter the name of the fulfillment type.
4. In Short Description, enter a brief description of the fulfillment type.
5. In Long Description, enter a more detailed description of the fulfillment type.
6. Choose .


3.4.1.2 Modifying a Fulfillment Type

To modify a fulfillment type:

1. From the tree in the application rules side panel, choose Cross Application > Order Promising > Sourcing And Scheduling > Fulfillment Types. The Fulfillment Types window appears in the work area.
2. Select the applicable fulfillment type and choose . The Fulfillment Types Details pop-up window appears.
3. In Short Description, enter a brief description of the fulfillment type.
4. In Long Description, enter a more detailed description of the fulfillment type.
5. Choose .

3.4.1.3 Deleting a Fulfillment Type

To delete a fulfillment type:


1. From the tree in the application rules side panel, choose Cross Application > Order Promising > Sourcing And Scheduling > Fulfillment Types. The Fulfillment Types window appears in the work area.
2. Select the applicable fulfillment type and choose .

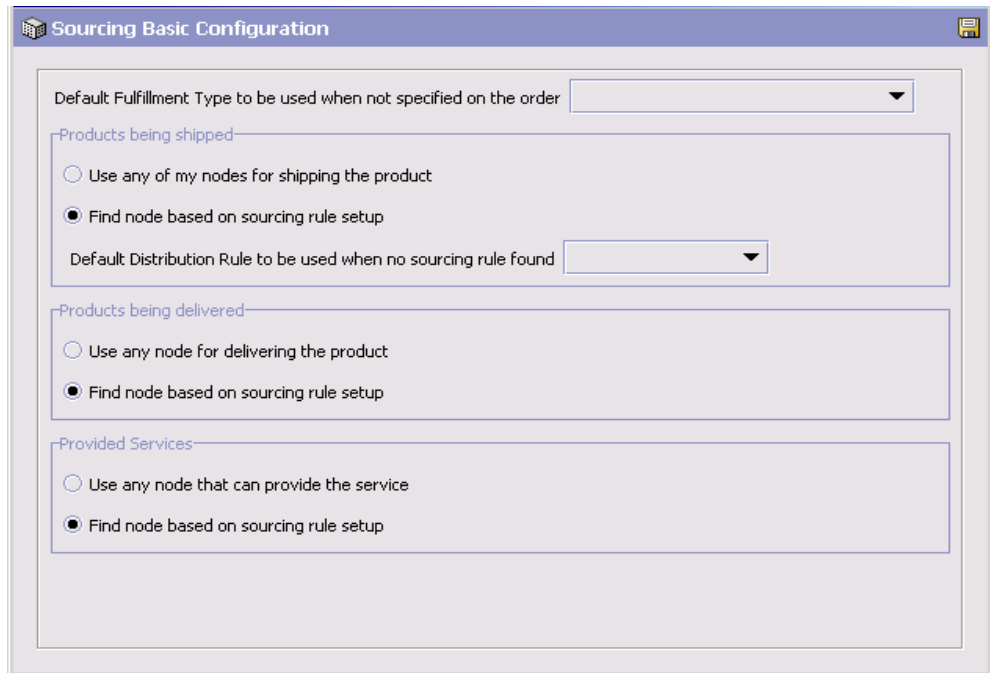
3.4.2 Defining Basic Sourcing Configuration

You can determine whether or not the organization you are configuring uses sourcing rules. When an organization only has one or two nodes from which they source all of their products and services, you may not need to define complex sourcing configurations. However, when an organization has many nodes and suppliers with whom they interact, you would want to define sourcing rules to ensure that the optimal nodes are used to handle shipping and service fulfillment.

Note: In cases when you do not define sourcing rules for an organization but may have more than one node, the system still uses optimization logic, such as distance to ship to location, to determine the appropriate node to use.

To configure basic sourcing rules:

1. From the tree in the application rules side panel, choose Cross Application > Order Promising > Sourcing And Scheduling > Basic Configuration. The Sourcing Basic Configuration window appears in the work area.
2. Enter information into the applicable fields. Refer to [Table 3–12](#) for field value descriptions.
3. Choose .



Sourcing Basic Configuration

Default Fulfillment Type to be used when not specified on the order ▼

Products being shipped

☐ Use any of my nodes for shipping the product

☒ Find node based on sourcing rule setup

Default Distribution Rule to be used when no sourcing rule found ▼

Products being delivered

☐ Use any node for delivering the product

☒ Find node based on sourcing rule setup

Provided Services

☐ Use any node that can provide the service

☒ Find node based on sourcing rule setup

Table 3–12 Sourcing Basic Configuration Window

Field	Description
Default Fulfillment Type to be used when not specified on the order	Select the fulfillment type you want to be use by default for sourcing when no fulfillment type is specified on the order. For more information about configuring fulfillment types, see Section 3.4.1, "Defining Fulfillment Types" on page 61.
Products being shipped	
Use any of my nodes for shipping the product	<p>Select this option if you do not want to define product item sourcing rules for the organization you are configuring. If you select this option, the system optimizes product sourcing based on the node(s) you have defined for the organization.</p> <p>Important: If an Enterprise inherits sourcing rules from another organization, they inherit the parent Enterprise's nodes when they select this option.</p>

Table 3–12 Sourcing Basic Configuration Window

Field	Description
Find node based on sourcing rule setup	Select this option if you want to use configured product item sourcing rules with the organization you are configuring. For more information about configuring product item sourcing rules, see Section 3.4.9, "Defining Sourcing Rules for Product Items" on page 89.
Default Distribution Rule to be used when no sourcing rule found	Select the default distribution group you want to use to source product items when the system cannot determine an appropriate sourcing rule to use for an order. A distribution group is a defined set of nodes and source organizations. For more information about configuring distribution groups for product items, see Section 3.4.8, "Defining Distribution Groups for Product Items" on page 83.
Products being delivered	
Use any node for delivering the product	Select this option if you want the system to select any delivery location that services a given delivery region.
Find nodes based on sourcing rule setup	Select this option if you want to use configured delivery service item sourcing rules with the organization you are configuring. For more information about configuring delivery service item sourcing rules, see Section 3.4.9, "Defining Sourcing Rules for Product Items" on page 89.
Provided Services	
Use any node that can provide the service	Select this option if you want the system to select any provided service location that services a given shipping region.
Find node based on sourcing rule setup	Select this option if you want to use configured provided service item sourcing rules with the organization you are configuring. For more information about configuring provided service item sourcing rules, see Section 3.4.9, "Defining Sourcing Rules for Product Items" on page 89.

3.4.3 Defining Order Sourcing Classifications

An order sourcing classification represents a customizable sourcing criteria used to determine which ship node to ship a product from, at


scheduling time. For more information on order sourcing classifications, refer to the *Yantra 7x Product Concepts*.

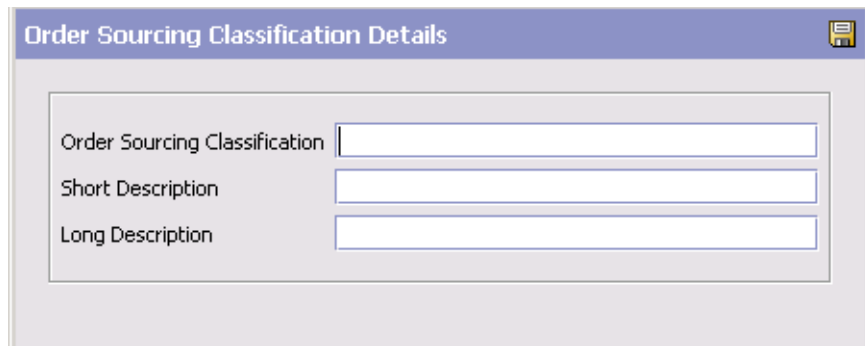
You can use the Order Sourcing Classifications branch for:

- [Creating an Order Sourcing Classification](#)
- [Modifying an Order Sourcing Classification](#)
- [Deleting an Order Sourcing Classification](#)


3.4.3.1 Creating an Order Sourcing Classification

To create or modify an order sourcing classification:

1. From the tree in the application rules side panel, choose Cross Application > Order Promising > Sourcing And Scheduling > Order Sourcing Classifications. The Sourcing Classifications window appears in the work area.
2. Click . The Order Sourcing Classification Details pop-up window appears.





The image shows a software window titled "Order Sourcing Classification Details". It has a purple header bar with a save icon in the top right corner. The main area is light gray and contains three text input fields stacked vertically. The first field is labeled "Order Sourcing Classification", the second is labeled "Short Description", and the third is labeled "Long Description". Each label is to the left of its corresponding text box.

3. In Order Sourcing Classification, enter the name of the sourcing classification.
4. In Short Description, enter the name of the short description.
5. In Long Description, enter the name of the long description.
6. Click .


3.4.3.2 Modifying an Order Sourcing Classification

To modify an order sourcing classification:

1. From the tree in the application rules side panel, choose Cross Application > Order Promising > Sourcing And Scheduling > Order Sourcing Classifications. The Sourcing Classifications window appears in the work area.
2. Select the applicable sourcing classification and click . The Order Sourcing Classification Details pop-up window appears.
3. In Short Description, enter the name of the short description.
4. In Long Description, enter the name of the long description.
5. Click .

3.4.3.3 Deleting an Order Sourcing Classification

To delete an order sourcing classification:

1. From the tree in the application rules side panel, choose Cross Application > Order Promising > Sourcing And Scheduling > Order Sourcing Classifications. The Order Sourcing Classifications window appears in the work area.
2. Select the applicable order sourcing classification and click .

3.4.4 Defining Sourcing Region Selection

A region schema represents the complete set of regions defining a given geography. You can use Sourcing Region Selection to associate pre-existing region schemas for use within sourcing configuration. For more information on configuring region schemas, see the *Yantra 7x Platform Configuration Guide*.

You can associate region schemas with the following:

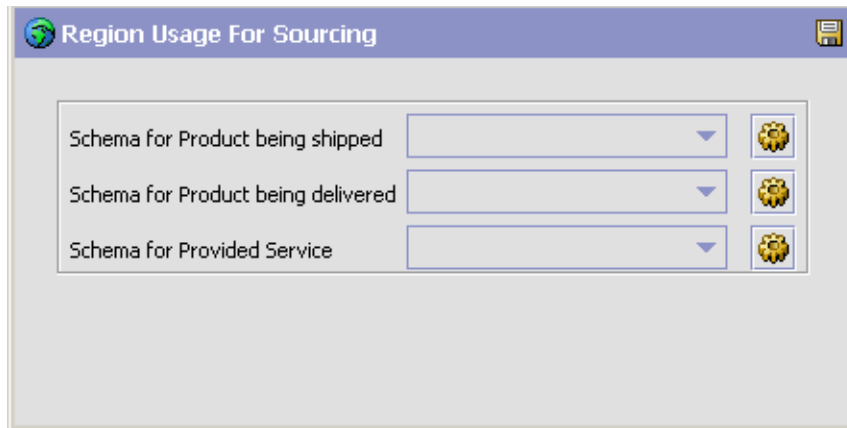
- **Shipped Product Region Schema** - You can select a region schema that to be used when configuring the product specific sourcing rules. The regions within the selected region schema can then be associated with nodes or groups of nodes from which product items can be shipped to a destination.
- **Delivery Region Schema** - You can select a region schema to be used when configuring delivery service specific sourcing rules. The regions within the selected region schema can then be associated with nodes or groups of nodes that provide a given delivery service when a delivery is requested to the specific region.

- **Provided Service Region Schema** – You can select a region schema to be used when configuring provided service specific sourcing rules. The regions within the selected region schema be associated with nodes or groups of nodes that can provide a requested service when the service location is within the specific region.

Note: You can select the same region schema for product, delivery, and provided service sourcing configuration or you can select a different region schema for each if you would like to define a more granular region definition for any of the three.

To define sourcing region selection:

1. From the tree in the application rules side panel, choose Cross Application > Order Promising > Sourcing And Scheduling > Sourcing Region Selection. The Region Usage For Sourcing pop-up window appears in the work area.



2. From Schema for Product being shipped, select the region schema you want to use for product item sourcing.
3. From Schema for Product being delivered, select the region schema you want to use for delivery service item sourcing.
4. From Schema for Provided Service, select the region schema you want to use for provided service item sourcing.

3.4.5 Defining Scheduling Rules

Scheduling rules determine shipping, inventory scheduling, and node preferences. When the Schedule time-triggered transaction schedules inventory, scheduling rules are used. You can have one scheduling rule for all orders or you can associate a specific scheduling rule with an order. This allows different scheduling rules to be used based on your business requirements.

There are three ways to assign a scheduling rule to an order:

- The scheduling rule is passed as part of the order data when creating an order.
- A customer service representative selects a scheduling rule from the Application Consoles.
- If a scheduling rule is not assigned by other means, Yantra 7x uses the default SYSTEM scheduling rule.

Important: When creating scheduling rules for Enterprises, there must always be one scheduling rule named SYSTEM to be used as a default throughout the system.

The scheduling rule can be passed as input to APIs that read inventory (AllocationRuleID), for example FindInventory. If not passed, the system searches for a scheduling rule named SYSTEM for the calling organization's primary enterprise. If a scheduling rule with the name SYSTEM is not found, the SYSTEM rule for the DEFAULT organization is used.

Therefore, while creating scheduling rules, a rule named SYSTEM should be created if scheduling rule is not always passed as API input.


Note: The scheduling algorithm is based only on ship node priority and geography.

You can use the Scheduling Rules branch for:

- [Creating a Scheduling Rule](#)
- [Modifying a Scheduling Rule](#)
- [Deleting a Scheduling Rule](#)

3.4.5.1 Creating a Scheduling Rule

To create a scheduling rule:

1. From the tree in the application rules side panel, choose Cross Application > Order Promising > Sourcing And Scheduling > Scheduling Rules. The Scheduling Rules window appears in the work area.
2. Choose . The Scheduling Rule Details pop-up window appears.

Scheduling Rule Details

Primary Information

Scheduling Rule Scheduling Rule Description

Retry Intervals

If Product is Backordered, retry scheduling after this time (Hours)

If scheduling fails for any other reason retry scheduling:

For products, after this time (Hours)

For delivery/provided services, after this time (Hours)

Constraints

☐ Ship Complete

☐ Line Ship Complete

☐ Ship from Single Node

☐ Line Ship from Single Node

Inventory Controls

☐ Determine Ship Node Externally ☒ Apply On Hand Safety Factor To On Hand Inventory Availability

☐ Assume Infinite Inventory Availability Beyond Lead Time ☒ Apply Future Safety Factor To Future Inventory Availability

☐ Cancel Order For Inventory Shortage

Lead Times

Maximum no. of days order can be shipped/delivered beyond its requested date

Maximum no. of days order can be scheduled before its ship date

Maximum no. of days to search service availability for

Priority

☐ Consider distance between ship-to and ship-from locations for prioritization

Weightage given of Distance

Weightage given to Node

Optimize On

☒ Date

☐ Priority

☐ Cost, Number of Shipments


- Enter information into the applicable fields. Refer to [Table 3–13](#) for field value descriptions.
- Choose .

Table 3–13 Scheduling Rule Details Pop-Up Window

Field	Description
Primary Information	
Scheduling Rule	Enter the name of the scheduling rule.
Scheduling Rule Description	Enter a brief description of the scheduling rule.
Retry Intervals	

Table 3–13 Scheduling Rule Details Pop-Up Window

Field	Description
If Product is Backordered, retry scheduling after this time (Hours)	<p>Enter how many hours after an order has been backordered that the system should try to reprocess the order.</p> <p>Note: The minimum wait period for retrying to schedule an order is 30 minutes, even if the value specified is less than that. For instance, if the wait period is set to 0.2, the business logic of Yantra 7x will still treat it as if it were 0.5.</p>
If scheduling fails for any other reason retry scheduling:	<p>For products, after this time (Hours) - Enter the time after which the Scheduling time-triggered transaction should try to schedule a product item order line if the order line is not ready to schedule when it is initially picked up.</p> <p>For delivery and provided services, after this time (Hours)- Enter the time after which the Scheduling time-triggered transaction should try to schedule a service item order line if the order line is not ready to schedule when it is initially picked up.</p>
Constraints	
Ship Complete	Select this field to ensure that all product lines in the promising inquiry request are either completely scheduled or not scheduled at all. Although, lines could be sourced from different shipping locations.
Line Ship Complete	<p>Select this field to ensure that every product line on an individual line basis is either completely sourced or not sourced at all. Although, lines could be sourced from different shipping locations.</p> <p>Note: The difference between this and the Ship Complete field is that this rule does not enforce that all lines of the request are completely sourced. A particular line can be sourced while another line of the same request could be backordered.</p>
Ship from Single Node	Select this field to ensure that the complete request is sourced from a single node on a single date.

Table 3–13 Scheduling Rule Details Pop-Up Window

Field	Description
Line Ship from Single Node	<p>Select this field to ensure that each individual line is sourced from a single node on the same date.</p> <p>Note: This rule does not enforce that all lines are shipped from the same node. A particular line may be completely shipped from node 1 while another line could be completely shipped from node 2.</p>
Inventory Controls	
Determine Ship Node Externally	When checked, the determineShipNode user exit is called for Ship Node determination.
Assume Infinite Inventory Availability Beyond Lead Time	<p>Select this option if you want the system to consider any inventory beyond the lead time + processing time time frame to be infinite.</p> <p>Important: Do not select this flag if inventory is maintained in Yantra 7x and this configuration uses procurement functionality.</p>
Cancel Order for Inventory Shortage	<p>When checked, the system cancels an item in case of inventory shortage.</p> <p>When unchecked, the item is backordered.</p>
Apply On Hand Safety Factor To On Hand Inventory Availability	<p>Check this checkbox to apply the on hand safety factor to on hand inventory availability.</p> <p>Note: For safety factors to apply, this flag must also be checked for the supply type and node type. For more information on Safety Factors, refer to the <i>Yantra 7x Inventory Synchronization Configuration Guide</i>.</p>
Apply Future Safety Factor To Future Inventory Availability	<p>Check this checkbox to apply the future safety factor to future inventory availability.</p> <p>Note: For safety factors to apply, this flag must also be checked for the supply type and node type. For more information on Safety Factors, refer to the <i>Yantra 7x Inventory Synchronization Configuration Guide</i>.</p>
Lead Times	
Maximum no. of days order can be scheduled before its ship date	Enter a lead time for orders to be picked up by the Schedule agent.

Table 3–13 Scheduling Rule Details Pop-Up Window



Field	Description
Maximum no. of days order can be shipped/delivered beyond its requested date	Enter the number of days an order can be released to ship later than the requested ship date.
Maximum no. of days to search service availability for	Enter the maximum amount of days through which you want to look up service and slot availability.
Priority	
Consider distance between ship-to and ship-from locations for prioritization	Select this field to enable the geography-based distance calculations for choosing a ship node. Important: If you select this field, ensure Optimize On is set to Priority.
Weightage given of a distance	Enter the weighting factor for distance. Once the distance between the ship to location and the ship node address is calculated using longitude and latitude, it is multiplied by this weighting factor. Enter any fractional number greater than or equal to 0. A value of 0 nullifies any distance considerations in the calculation.
Weightage given to Node	Enter the weighting factor for node priority. The ship node priority specified in the distribution group is multiplied by this weighting factor. Enter any fractional number greater than or equal to 0. A value of 0 nullifies any node priority considerations in the calculation. Important: For this weighting factor to be applied, distribution groups must be used to determine the set of possible ship nodes from which a product can be shipped.
Optimize On	
Date	Select this option for inventory scheduling to be optimized by date.

Table 3–13 Scheduling Rule Details Pop-Up Window

Field	Description
Priority	Select this option for inventory scheduling to be optimized by order priority.
Cost, Number of Shipments	<p>Select this option for inventory scheduling to be optimized by number of shipments.</p> <p>Note: When landed cost optimization is enabled, it takes precedence over optimization by the number of shipments. When landed cost optimization is disabled, optimization by the number of shipments is used. For more information, refer to Section 3.4.6, "Configuring Landed Cost Optimization" on page 76.</p>


3.4.5.2 Modifying a Scheduling Rule

To modify a scheduling rule:

1. From the tree in the application rules side panel, choose Cross Application > Order Promising > Sourcing And Scheduling > Scheduling Rules. The Scheduling Rules window appears in the work area.
2. Select the applicable scheduling rule and choose . The Scheduling Rule Details pop-up window appears.
3. Modify information into the applicable fields. Refer to [Table 3–13](#) for field value descriptions.
4. Choose .

3.4.5.3 Deleting a Scheduling Rule

To delete a scheduling rule:

1. From the tree in the application rules side panel, choose Cross Application > Order Promising > Sourcing And Scheduling > Scheduling Rules. The Scheduling Rules window appears in the work area.
2. Select the applicable scheduling rule and choose .


3.4.6 Configuring Landed Cost Optimization

Yantra enables you to specify landed cost parameters to be considered for evaluation during order promising, if the "Cost, Number of Shipments" optimization type has been selected in your scheduling rule. For more information on optimization types, refer to [Section 3.4.5, "Defining Scheduling Rules"](#) on page 69, or *Yantra 7x Product Concepts*.

Promising selects the sourcing option with the least landed cost. Landed cost is comprised of item cost, handling cost, and transportation cost, which can be configured separately.

Note: When landed cost optimization is enabled, it takes precedence over optimization by the number of shipments. When landed cost optimization is disabled, optimization by the number of shipments is used.

To configure landed cost optimization:

1. From the tree in the application rules side panel, choose Cross Application > Order Promising > Sourcing And Scheduling > Landed Cost. The Landed Cost window appears in the work area.
2. Enter information into the applicable fields. Refer to [Table 3–14](#) for field-level descriptions.
3. Choose .

Landed Cost (DEFAULT)

☒ Use Landed Cost

☒ Use Item Cost

☒ Use Transportation Cost

Transfers

Transfer Cost Factor Currency: US Dollar

Transfer Cost Factor 1 Per Inch Per Pounds for Internal Transfers

Transfer Cost Factor 2 Per Inch Per Pounds for External Transfers

Last Leg Transportation

Outbound Constraints

For Transportation Cost Based On Number Of Cartons, Assume Volume Per Carton To Be 1 Cubic Inches

☒ Use Handling Cost


Enterprise Node Type Rules

Node Type	Currency	Inbound Handling Cost Per Shipment	Outbound Handling Cost Per Shipment
Distribution Center	USD	0	0

Table 3–14 Landed Cost Window

Field	Description
Use Landed Cost	Check this box to enable the use of landed cost optimization. Uncheck this box to disable all options in this window.
Item Cost	
Use Item Cost	Check this box to indicate that item cost should be used when computing landed cost.
Transportation Cost	
Transfers	
Transfer Cost Factor Currency	Select the currency used for the transfer cost factor from the drop-down list.

Table 3–14 Landed Cost Window

Field	Description
Transfer Cost Factor ____ Per ____ Per ____ for Internal Transfers	Enter the transfer cost factor and select the correct UOMs for internal transfers. The internal transfer cost factor is used to calculate transfer cost when there is a transfer schedule between two nodes.
Transfer Cost Factor ____ Per ____ Per ____ for External Transfers	Enter the transfer cost factor and select the correct UOMs for external transfers. The external transfer cost factor is used when a transfer schedule does not exist between two nodes.
Last Leg Transportation	
Configure Outbound Constraints	Choosing  opens the Outbound Constraints window, where you can configure outbound constraints and define routing guides. For more information on outbound constraints, refer to Section 5.4, "Defining Outbound Constraints" on page 142.
For Transportation Cost Based On Number Of Cartons, Assume Volume Per Carton To Be ____	Enter a volume and volume UOM to be used when transportation cost is based on the number of cartons.
Handling Cost	
Use Handling Cost	Check this box to indicate that handling cost should be used when computing landed cost. Unchecking this box disables the Enterprise Node Type Rules table. For more information on defining enterprise node type rules, refer to Section 3.4.6.1, "Defining Enterprise Node Type Rules" on page 78.

3.4.6.1 Defining Enterprise Node Type Rules


You can define Enterprise Node Type Rules to specify the handling costs of various node types at the Enterprise level.

- [Creating an Enterprise Node Type Rule](#)
- [Modifying an Enterprise Node Type Rule](#)


- [Deleting an Enterprise Node Type Rule](#)

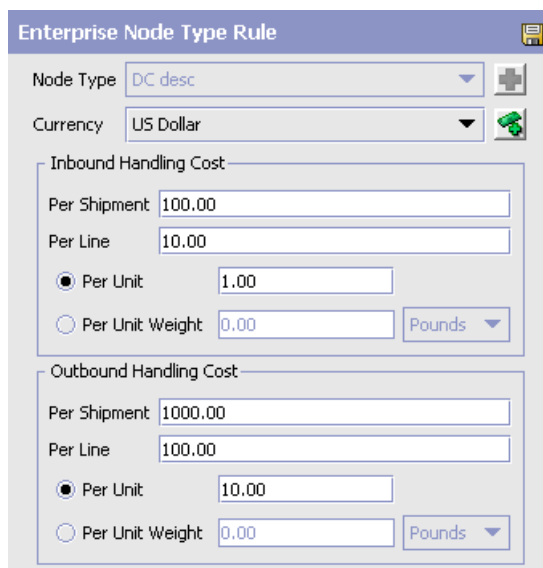
Creating an Enterprise Node Type Rule

To create an Enterprise node type rule:

1. From the tree in the application rules side panel, choose Cross Application > Order Promising > Sourcing And Scheduling > Landed Cost. The Landed Cost window displays in the work area.
2. In the Enterprise Node Type Rules panel, choose . The Enterprise Node Type Rule window displays.

Note: The "Use Handling Cost" checkbox must be selected to enable Enterprise Node Type Rules.

3. Enter information into the applicable fields. Refer to [Table 3–15](#) for field level descriptions.
4. Choose .



Enterprise Node Type Rule

Node Type: DC desc

Currency: US Dollar

Inbound Handling Cost

Per Shipment: 100.00

Per Line: 10.00

☒ Per Unit: 1.00

☐ Per Unit Weight: 0.00 Pounds

Outbound Handling Cost

Per Shipment: 1000.00

Per Line: 100.00

☒ Per Unit: 10.00

☐ Per Unit Weight: 0.00 Pounds



Table 3–15 Enterprise Node Type Rule Pop-up Window

Field	Description
Node Type	Select the node type from the drop-down list.
Currency	Select the currency to use for this rule from the drop-down list.
Inbound Handling Cost	
Per Shipment	Enter the handling cost for each shipment, in the currency selected above.
Per Line	Enter the handling cost for each line, in the currency selected above.
Per Unit	Choose this option to enter the handling cost for each unit. Choosing this option disables the "Per Unit Weight" option.
Per Unit Weight	Choose this option to enter the handling cost for each unit weight. Choosing this option disables the "Per Unit" option.
Outbound Handling Cost	
Per Shipment	Enter the handling cost for each shipment, in the currency selected above.
Per Line	Enter the handling cost for each line, in the currency selected above.
Per Unit	Choose this option to enter the handling cost for each unit. Choosing this option disables the "Per Unit Weight" option.
Per Unit Weight	Choose this option to enter the handling cost for each unit weight. Choosing this option disables the "Per Unit" option.

Modifying an Enterprise Node Type Rule


To modify an Enterprise node type rule:

1. From the tree in the application rules side panel, choose Cross Application > Order Promising > Sourcing And Scheduling > Landed Cost. The Landed Cost window displays in the work area.

2. In the Enterprise Node Type Rules panel, select the applicable rule and choose . The Enterprise Node Type Rule window displays.
Note: The "Use Handling Cost" checkbox must be selected to enable Enterprise Node Type Rules.
3. Enter information into the applicable fields. Refer to [Table 3–15](#) for field level descriptions.
4. Choose .

Deleting an Enterprise Node Type Rule

To delete an Enterprise node type rule:

1. From the tree in the application rules side panel, choose Cross Application > Order Promising > Sourcing And Scheduling > Landed Cost. The Landed Cost window displays in the work area.
2. In the Enterprise Node Type Rules panel, select the applicable rule and choose .

3.4.7 Defining Forwarding/Transfer Rules

Forwarding rules enable you to minimize transportation costs by allowing you to specify a default carrier service to move shipments from one node to another before shipping to a customer, otherwise known as zone skipping.

When evaluating options, Yantra identifies ship nodes that can fulfill the request, then utilizes routing guides to determine the best possible drop location and carrier that meets any item constraints.


Forwarding is not applied in the following scenarios:

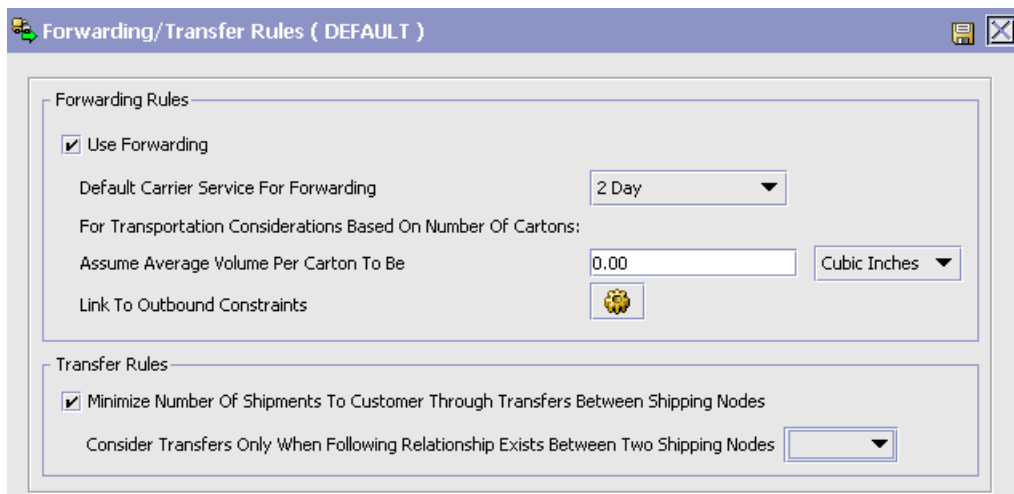
- If forwarding is not enabled at the Enterprise level.
- If forwarding is not enabled at the line level.
- If forwarding is not enabled at the item level.
- If a shipment is being delivered.
- If a shipment has shipping and receiving nodes with a transfer schedule between them.
- If the shipment is not a final shipment to the customer (procurements cannot be forwarded).

- If a carrier service code is not specified at the line or header level.
- If the document type classification is not "Sales Order" or "Other".

Transfer rules enable you to minimize the number of shipments to a customer by determining a merge node, where shipments can be consolidated before shipping to a customer.

To define forwarding/transfer rules:

1. From the tree in the application rules side panel, choose Cross Application > Order Promising > Sourcing And Scheduling > Forwarding/Transfer Rules. The Forwarding/Transfer Rules window appears in the work area.
2. Enter information into the applicable fields. Refer to [Table 3–16](#) for field level descriptions.
3. Choose .



Forwarding/Transfer Rules (DEFAULT)


Forwarding Rules

☒ Use Forwarding

Default Carrier Service For Forwarding: 2 Day

For Transportation Considerations Based On Number Of Cartons:

Assume Average Volume Per Carton To Be: 0.00 Cubic Inches

Link To Outbound Constraints: 

Transfer Rules

☒ Minimize Number Of Shipments To Customer Through Transfers Between Shipping Nodes



Consider Transfers Only When Following Relationship Exists Between Two Shipping Nodes: 

Table 3–16 Forwarding/Transfer Rules Window

Field	Description
Forwarding Rules	
Use Forwarding	Select this checkbox if you want use forwarding. Deselecting this checkbox disables all other forwarding options.
Default Carrier Service For Forwarding	Select a default carrier service to use during forwarding from the drop-down list.
For Transportation Considerations Based On Number Of Cartons:	
Assume Average Volume Per Carton To Be ____	Enter a volume and volume UOM to be used as the assumed average volume per carton.
Link To Outbound Constraints	<p>Choosing  opens the Outbound Constraints window, where you can configure outbound constraints and define routing guides.</p> <p>For more information on outbound constraints, refer to Section 5.4, "Defining Outbound Constraints" on page 142.</p>
Transfer Rules	
Minimize Number Of Shipments To Consider Through Transfers Between Shipping Nodes	Select this checkbox to minimize the number of shipments Yantra 7x considers through transfers between shipping nodes.
Consider Transfers Only When Following Relationship Exists Between Two Shipping Nodes	<p>Select a relationship type from the drop-down list. Transfers are considered only when this relationship exists between two shipping nodes.</p> <p>This field is disabled if the "Minimize Number of Shipments To Consider Through Transfers Between Shipping Nodes" checkbox is not selected.</p>

3.4.8 Defining Distribution Groups for Product Items

You can create a set of nodes/external organizations that can be used when determining sourcing. You can define distribution groups that establish the ship node determination process based on priority.


Note: For backward compatibility purposes, you can also create rules for individual items at a source node or for the entire source node.

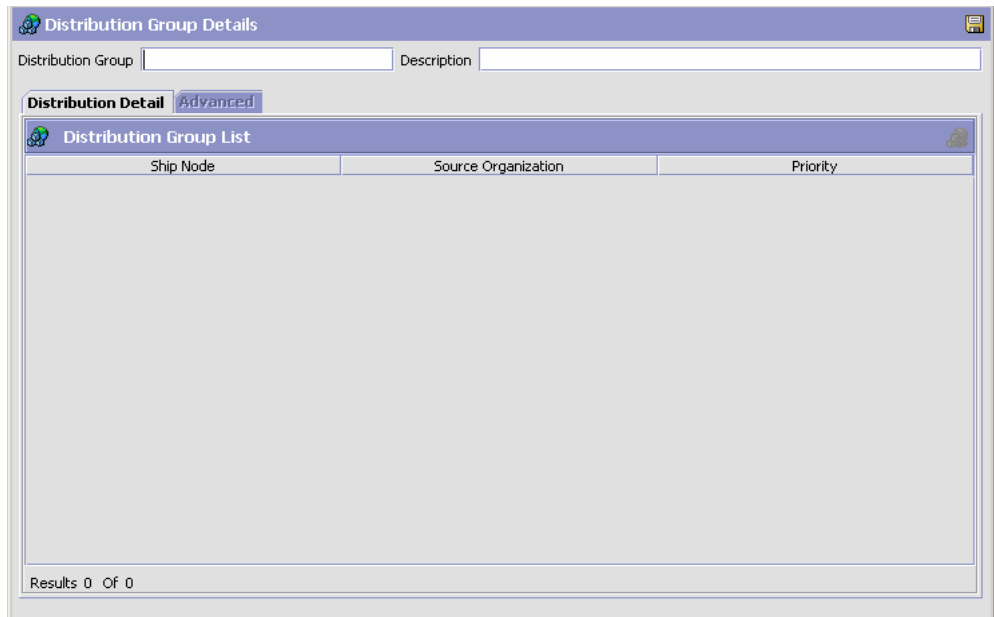
You can use the Distribution Rules branch for:

- [Creating a Distribution Group](#)
- [Deleting a Distribution Group](#)


3.4.8.1 Creating a Distribution Group

To create a distribution group:

1. From the tree in the application rules side panel, choose Cross Application > Order Promising > Sourcing And Scheduling > Product Being Shipped > Distribution Rules. The Distribution Rules window appears in the work area.
2. Choose . The Distribution Group Detail window is displayed.



Ship Node	Source Organization	Priority
-----------	---------------------	----------



3. In Distribution Group, enter the name of the distribution rule.
4. In Description, enter a brief description of the distribution rule.
5. Choose .

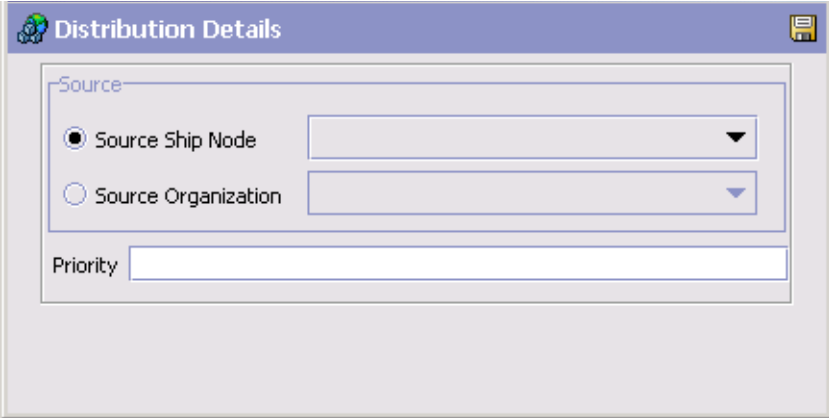
You can use the Distribution Group Details window for:

- [Adding Nodes/External Organizations to a Distribution Group](#)
- [Modifying a Distribution Group's Node/External Organization](#)
- [Deleting a Distribution Group's Node/External Organization](#)

3.4.8.1.1 Adding Nodes/External Organizations to a Distribution Group

To add a node/external organization to a distribution group:

1. In the Distribution Group Details window, choose the Distribution Detail tab.
2. Choose . The Distribution Details pop-up window is displayed.
3. Enter information into the applicable fields. Refer to [Table 3–17](#) for field value descriptions.
4. Choose .



Distribution Details

Source

☒ Source Ship Node

☐ Source Organization

Priority



Table 3–17 Distribution Details Window

Field	Description
Source	
Source Ship Node	Select Source Ship Node and select the applicable node if you want to add a node within your organization to the distribution group.
Source Organization	Select Source Organization and select the applicable organization if you want to add an external organization to the distribution group.
Priority	Enter the node/external organization's priority within the distribution group. Note: Priority is not unique to a distribution group, therefore more than one distribution group can have the same priority.

Note: If you adding nodes or external organizations to a distribution group, do not use the advanced tab. Use sourcing rules instead. For more information on configuring sourcing rules, refer to [Section 3.4, "Defining Sourcing and Scheduling Rules"](#) on page 60.


3.4.8.1.2 Modifying a Distribution Group's Node/External Organization

To modify a distribution group's node/external organization:

1. In the Distribution Group Details window, choose the Distribution Detail tab.
2. Select the applicable distribution detail and choose . The Distribution Details pop-up window is displayed.
3. Enter information into the applicable fields. Refer to [Table 3–17](#) for field value descriptions.
4. Choose .

3.4.8.1.3 Deleting a Distribution Group's Node/External Organization

To delete a distribution group's node/external organization:

1. In the Distribution Group Details window, choose the Distribution Detail tab.
2. Select the applicable distribution detail and choose .



3.4.8.2 Adding Advanced Distribution Details to a Distribution Group (For Backward Compatibility Only)

You can add specific details, such as sourcing information, and assign them a date range through which they are effective.

Important: Yantra strongly recommends the use of sourcing rules instead of advanced distribution groups. This feature is provided for backward compatibility purposes only.

Note: If setting up advanced distribution rules, do not use the base distribution rules under the distribution detail tab.

To add advanced distribution details to a distribution rule:


1. In the Distribution Group Details window, choose the Advanced tab.
2. From the Distribution table, choose . The Distribution Details pop-up window is displayed.
3. Enter information in the applicable fields. Refer to [Table 3–7](#) for field value descriptions.
4. Choose .

Distribution Details

Setup Selection

☐ All Items ☒ Apply To A Specific Item At This Source


Primary Info

Item ID  ☒ Active

Item Name at Ship Node Priority

Effective Start Date Effective End Date

Source

☒ Source Ship Node 

☐ Source Organization

Table 3–18 Advanced Distribution Details window


Field	Description
All Items	Select this option to apply the distribution rule to all of the items in the node you are setting the rule up for.
Apply To Specific Item At This Source	Select this option to apply the distribution rule to a specific item in the node or organization you are setting the rule up for.
Primary Info	
Item ID	If you selected Apply To Specific Item At This Source, enter the item ID for which you are creating the Distribution Rule.
Active	Check Active if the distribution rules are active.
Item Name at Node	If you selected Apply To Specific Item At This Source, enter the node's name for the item. The distribution record created for the inventory consolidator is displayed in the Inventory Console.
Priority	Enter a priority number for the node for this item and inventory scheduling, with 1 being the highest priority.
Effective Start Date	The date the distribution details take effect.
Effective End Date	The date after which the distribution details are no longer applied.
Source	

Table 3–18 Advanced Distribution Details window

Field	Description
Source Ship Node	Choose Source Ship Node and select the applicable node if you are setting up the distribution details to be sourced from a particular ship node.
Source Organization	Choose Source Organization and select the applicable organization if you are setting up the distribution details to be sourced from a particular organization.


3.4.8.3 Deleting Advanced Distribution Details

To delete a advanced distribution details:

1. In the Distribution Group Details window, choose the Advanced tab.
2. From the Distribution table, select the applicable distribution details and choose .

3.4.8.4 Deleting a Distribution Group

To delete a distribution group:

1. From the menu bar, choose Applications > Distributed Order Management. The Distributed Order Management tree is displayed in the side panel.
2. From the Distributed Order Management tree, choose Cross Application > Order Promising > Sourcing And Scheduling > Product Being Shipped > Distribution Rules. The Distribution Group window appears in the work area.
3. Select the applicable distribution group and choose .

3.4.9 Defining Sourcing Rules for Product Items

You can define sourcing rules to control what node, external organization, or group of nodes should be considered for sourcing a product based on the following parameters (in order of priority):

- Fulfillment Type
- Order Sourcing Classification
- Seller organization
- Item ID

- Primary Item Classification
- Secondary Item Classification
- Tertiary Item Classification
- Geographical region of the ship to location



Note: When a node is passed on an order line, the system uses that node regardless of the sourcing rules you may have configured.

You can use the Sourcing Rules branch for:


- [Creating a Product Item Sourcing Rule](#)
- [Modifying a Product Item Sourcing Rule](#)
- [Deleting a Product Item Sourcing Rule](#)


3.4.9.1 Creating a Product Item Sourcing Rule

To create a sourcing rule:

1. From the tree in the application rules side panel, choose Cross Application > Order Promising > Sourcing And Scheduling > Product Being Shipped > Sourcing Rules. The Product Sourcing Rules Search window appears in the work area.
2. Choose . The Sourcing Rule for Product Being Shipped window appears.
3. Enter information into the applicable fields. Refer to [Table 3–19](#) for field value descriptions.
4. Choose .

Sourcing Rule for Product Being Shipped (DEFAULT)

Fulfillment Type: 


Order Sourcing Classification: 

When Seller organization is—

☐ This Organization


☒ All Sellers

And Product characteristics are—

☐ Item ID 

☒ All Items

And Product is being shipped to—

☐ This Region 

☐ This Node

☒ Any Address

Use following sourcing templates in the sequence specified

Sourced From List	
Sequence No	Sourcing Template

Results 0 Of 0

Table 3–19 Sourcing Rule for Product Being Shipped Window

Field	Description
Fulfillment Type	Select the applicable fulfillment type to associate with the sourcing rule. For more information about configuring fulfillment types, see Section 3.4.1, "Defining Fulfillment Types" on page 61.
Order Sourcing Classification	Select the applicable order sourcing classification if you want to associate this sourcing rule with a particular order sourcing classification. For more information about configuring order sourcing classifications, see Section 3.4.3, "Defining Order Sourcing Classifications" on page 65.

Table 3–19 Sourcing Rule for Product Being Shipped Window



Field	Description
When Seller organization is	
This Organization	Select this option and select the applicable Seller organization if you want to associate this sourcing rule with a particular Seller.
All Sellers	Select All Sellers if this sourcing rule can be associated with any Seller organization.
And Product characteristics are	
Item ID	Select Item ID and enter the applicable item if you want to associate the sourcing rule with a particular item.
All Items	Select Apply To All Items At This Source if you want to associate the sourcing rule with all of the items maintained at the source node.
And Product is being shipped to	
This Region	<p>Select Region and enter the applicable region if you want this sourcing rule to be used when products are shipped to a specific region.</p> <p>Important: The region you identify must belong to the region schema associated with product item sourcing for the organization you are working with. For more information about setting an organization's region schema for product items, see Section 3.4.4, "Defining Sourcing Region Selection" on page 67.</p>
This Node	Select Node and select the applicable node if you want this sourcing rule to be used when products are shipped to this node.
Any Address	Select Any Address and if this sourcing rule can be used when products are shipped to any node.

Table 3–19 Sourcing Rule for Product Being Shipped Window

Field	Description
Sourced From List	<p>The system tries to source the product from the node/distribution group with the highest sequence (lowest number). If the sourcing template contains a distribution group or a set of nodes, the final node selection is optimized based on the parameters configured in your scheduling rule associated with a given order. For more information about scheduling rules, see Section 3.4.5, "Defining Scheduling Rules" on page 69.</p> <p>If there is no product availability for a node/distribution group specified in a given sequence, the system tries to source from the next node/distribution group in the sequence.</p>
Sequence No	The sequence priority of the sourcing template.
Sourcing Template	A list of the node/distribution group sequences used for sourcing. The sequence is determined by priority. For more information on sourcing templates, see Section 3.4.14, "Defining Sourcing Template Details" on page 110.

3.4.9.2 Modifying a Product Item Sourcing Rule

To modify a sourcing rule:

1. From the tree in the application rules side panel, choose Cross Application > Order Promising > Sourcing And Scheduling > Product Being Shipped > Sourcing Rules. The Sourcing Rule for Product Being Shipped Search window appears in the work area.
2. Select the applicable sourcing rule and choose . The Product Sourcing Rules Search window appears.
3. Enter information into the applicable fields. Refer to [Table 3–19](#) for field value descriptions.
4. Choose .

3.4.9.3 Deleting a Product Item Sourcing Rule

To delete a sourcing rule:

1. From the tree in the application rules side panel, choose Cross Application > Order Promising > Sourcing And Scheduling > Product Being Shipped > Sourcing Rules. The Product Sourcing Rules Search window appears in the work area.

2. Select the applicable sourcing rule and choose .

3.4.10 Defining Sourcing Rules for Delivery Service Items

You can define sourcing rules to control what node should be considered for sourcing a delivery service based on the fulfillment type, order sourcing classification, delivery region, or deliver to node.



Note: When a node is passed on an order line, the system uses that node regardless of the sourcing rules you may have configured.

You can use the Sourcing Rules branch for:


- [Creating a Delivery Service Item Sourcing Rule](#)
- [Modifying a Delivery Service Sourcing Rule](#)
- [Deleting a Delivery Service Sourcing Rule](#)


3.4.10.1 Creating a Delivery Service Item Sourcing Rule

To create a sourcing rule:

1. From the tree in the application rules side panel, choose Cross Application > Order Promising > Sourcing And Scheduling > Product Being Delivered > Sourcing Rules. The Delivery Service Sourcing Rules Search window appears in the work area.
2. Choose . The Sourcing Rule for Product Being Delivered window appears.
3. Enter information into the applicable fields. Refer to [Table 3–20](#) for field value descriptions.
4. Choose .

Sourcing Rule for Product Being Delivered (DEFAULT)

Fulfillment Type: 


Order Sourcing Classification: 

When Seller organization is—

☐ This Organization

☒ All Sellers

And product is being delivered to / returned from—

☐ This Region 

☐ This Node

☒ Any Address

Use the following Node—

Node:

☐ Procure/Transfer to this Node when inventory is not available

Use following sourcing templates in the sequence specified

Sourced From List	
Sequence No	Sourcing Template
Results 0 Of 0	

Table 3–20 Sourcing Rule for Product Being Delivered Window

Field	Description
Fulfillment Type	Select the applicable fulfillment type to associate with the sourcing rule. For more information about configuring fulfillment types, see Section 3.4.1, "Defining Fulfillment Types" on page 61.
Order Sourcing Classification	Select the applicable order sourcing classification if you want to associate this sourcing rule with a particular order sourcing classification. For more information about configuring order sourcing classifications, see Section 3.4.3, "Defining Order Sourcing Classifications" on page 65.

Table 3–20 Sourcing Rule for Product Being Delivered Window



Field	Description
When Seller organization is	
This Organization	Select this option and select the applicable Seller organization if you want to associate this sourcing rule with a particular Seller.
All Sellers	Select All Sellers if this sourcing rule can be associated with any Seller organization.
And Product is being delivered to	
This Region	<p>Select This Region and enter the applicable region if you want the sourcing rule to be used when deliveries are made to a specific region.</p> <p>Important: The region you identify must belong to the region schema associated with delivery service item sourcing for the organization you are working with. For more information about setting an organization's region schema for delivery service items, see Section 3.4.4, "Defining Sourcing Region Selection" on page 67.</p>
This Node	Select This Node and select the applicable node if you want the sourcing rule to be used when deliveries are made to a specific node.
Any Address	Select Any Address if this sourcing rule can be used when deliveries are made to any node
Use the following Node	
Node	<p>Select the node the delivery service is sourced from.</p> <p>Note: Delivery service items can only be sourced from one node per sourcing rule.</p>
Procure/Transfer to this Node when inventory is not available.	<p>Check this checkbox if the node handles transfer orders and/or procurement purchase orders. For more information about transfer orders and procurement purchase orders, see Section 3.3.2, "Defining a Node's Relationships" on page 57 and Section 3.4.13, "Defining Procurement Rules" on page 105.</p>

Table 3–20 Sourcing Rule for Product Being Delivered Window

Field	Description
Sourced From List	<p>The system tries to source the product from the node/distribution group with the highest sequence (lowest number). If the sourcing template contains a distribution group or a set of nodes, the final node selection is optimized based on the parameters configured in your scheduling rule associated with a given order. For more information about scheduling rules, see Section 3.4.5, "Defining Scheduling Rules" on page 69.</p> <p>If there is no product availability for a node/distribution group specified in a given sequence, the system tries to source from the next node/distribution group in the sequence.</p>
Sequence No	The sequence priority of the sourcing template.
Sourcing Template	A list of the node/distribution group sequences used for sourcing. The sequence is determined by priority. For more information on sourcing templates, see Section 3.4.14, "Defining Sourcing Template Details" on page 110.

3.4.10.2 Modifying a Delivery Service Sourcing Rule

To modify a sourcing rule:

1. From the tree in the application rules side panel, choose Cross Application > Order Promising > Sourcing And Scheduling > Product Being Delivered > Sourcing Rules. The Delivery Service Sourcing Rules Search window appears in the work area.
2. Select the applicable sourcing rule and choose . The Sourcing Rule for Product Being Delivered window appears.
3. Enter information into the applicable fields. Refer to [Table 3–20](#) for field value descriptions.
4. Choose .

3.4.10.3 Deleting a Delivery Service Sourcing Rule

To delete a sourcing rule:

1. From the tree in the application rules side panel, choose Cross Application > Order Promising > Sourcing And Scheduling > Product Being Delivered > Sourcing Rules. The Delivery Service Sourcing Rules Search window appears in the work area.

2. Select the applicable sourcing rule and choose .

3.4.11 Defining Distribution Groups for Provided Service Items


You can create a set of nodes/external organizations that can be used when determining sourcing. You can define distribution groups that establish the ship node determination process based on priority.

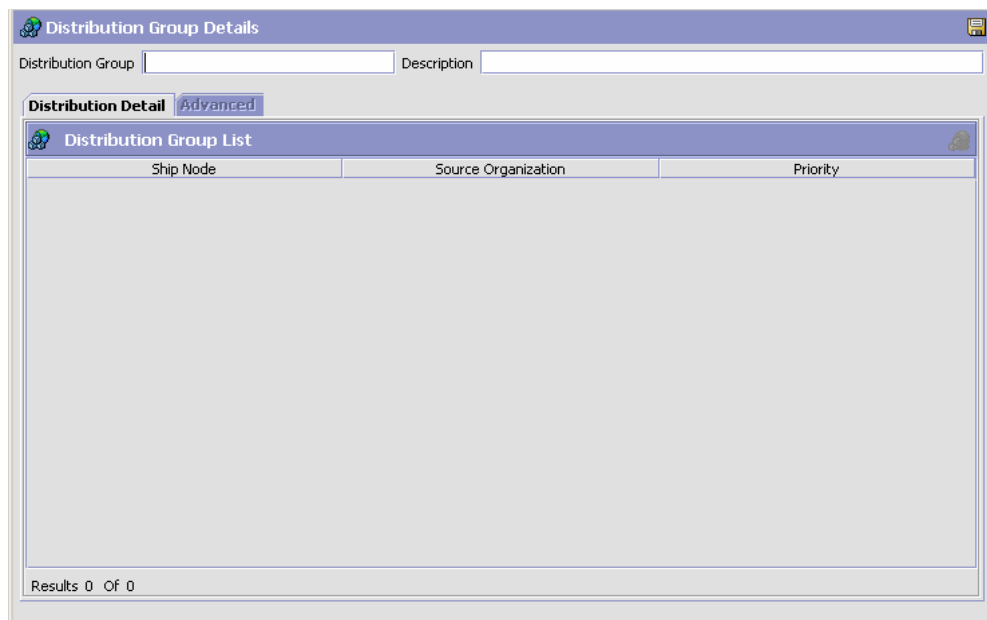
You can use the Distribution Rules branch for:


- [Creating a Distribution Group](#)
- [Deleting a Distribution Group](#)

3.4.11.1 Creating a Distribution Group

To create a distribution group:

1. From the tree in the application rules side panel, choose Cross Application > Order Promising > Sourcing And Scheduling > Provided Services > Distribution Rules. The Distribution Rules window appears in the work area.
2. Choose . The Distribution Group Detail window is displayed.




3. In Distribution Group, enter the name of the distribution rule.
4. In Description, enter a brief description of the distribution rule.
5. Choose .


You can use the Distribution Group Details window for:

- [Adding Nodes/External Organizations to a Distribution Group](#)
- [Modifying a Distribution Group's Node/External Organization](#)
- [Deleting a Distribution Group's Node/External Organization](#)

3.4.11.1.1 Adding Nodes/External Organizations to a Distribution Group

To add a node/external organization to a distribution group:

1. In the Distribution Group Details window, choose the Distribution Detail tab.
2. Choose . The Distribution Details pop-up window is displayed.

3. Enter information into the applicable fields. Refer to [Table 3–21](#) for field value descriptions.
4. Choose .

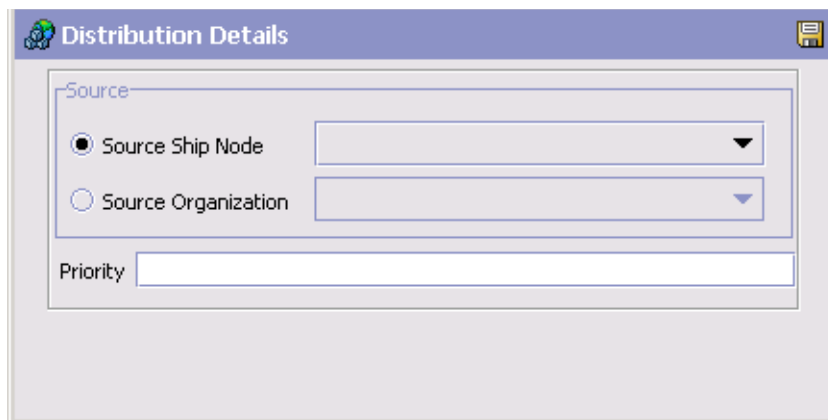




Table 3–21 *Distribution Details Window*

Field	Description
Source	
Source Ship Node	Select Source Ship Node and select the applicable node if you want to add a node within your organization to the distribution group.
Source Organization	Select Source Organization and select the applicable organization if you want to add an external organization to the distribution group.
Priority	Enter the node/external organization's priority within the distribution group.

3.4.11.1.2 Modifying a Distribution Group's Node/External Organization


To modify a distribution group's node/external organization:

1. In the Distribution Group Details window, choose the Distribution Detail tab.
2. Select the applicable distribution detail and choose . The Distribution Details pop-up window is displayed.

3. Enter information into the applicable fields. Refer to [Table 3–21](#) for field value descriptions.
4. Choose .


3.4.11.1.3 Deleting a Distribution Group's Node/External Organization

To delete a distribution group's node/external organization:

1. In the Distribution Group Details window, choose the Distribution Detail tab.
2. Select the applicable distribution detail and choose .

3.4.11.2 Deleting a Distribution Group

To delete a distribution group:

1. From the tree in the application rules side panel, choose Cross Application > Order Promising > Sourcing And Scheduling > Provided Services > Distribution Rules. The Distribution Group window appears in the work area.
2. Select the applicable distribution group and choose .

3.4.12 Defining Sourcing Rules for Provided Service Items

You can define sourcing rules to control what node, external organization, or group of nodes should be considered for sourcing provided service items based on the following parameters:

- Fulfillment type
- Order sourcing classification
- Seller organization
- Item ID
- Geographical region of the location where the service is to be provided
- Node where the service is to be provided



Note: When a node is passed on an order line, the system uses that node regardless of the sourcing rules you may have configured.

You can use the Sourcing Rules branch for:


- [Creating a Provided Service Item Sourcing Rule](#)
- [Modifying a Provided Service Sourcing Rule](#)
- [Deleting a Provided Service Sourcing Rule](#)


3.4.12.1 Creating a Provided Service Item Sourcing Rule

To create a sourcing rule:

1. From the tree in the application rules side panel, choose Cross Application > Order Promising > Sourcing And Scheduling > Provided Services > Sourcing Rules. The Provided Service Sourcing Rules Search window appears in the work area.
2. Choose . The Sourcing Rule for Provided Service window appears.
3. Enter information into the applicable fields. Refer to [Table 3–22](#) for field value descriptions.
4. Choose .

Sourcing Rule for Provided Service (DEFAULT)

Fulfillment Type: 


Order Sourcing Classification: 

When Seller organization is—


☐ This Organization

☒ All Sellers

And Provided Service characteristics are—

Item ID 

And Service Location Is—

☐ This Region 

☐ This Node

☒ Any Address

Use following sourcing templates in the sequence specified

Sequence No	Sourcing Template
Results 0 Of 0	

Table 3–22 Sourcing Rule for Provided Service

Field	Description
Fulfillment Type	Select the applicable fulfillment type to associate with the sourcing rule. For more information about configuring fulfillment types, see Section 3.4.1, "Defining Fulfillment Types" on page 61.
Order Sourcing Classification	Select the applicable order sourcing classification if you want to associate this sourcing rule with a particular order sourcing classification. For more information about configuring order sourcing classifications, see Section 3.4.3, "Defining Order Sourcing Classifications" on page 65.
When Seller organization is	

Table 3–22 Sourcing Rule for Provided Service



Field	Description
This Organization	Choose This Organization and select the applicable Seller organization if you want to associate this sourcing rule with a particular Seller.
All Sellers	Select All Sellers if this sourcing rule can be associated with any Seller organization.
And Product characteristics are	
Item ID	Enter the provided service item you want to associate the sourcing rule with.
And Service Location Is	
This Region	<p>Select This Region and enter the applicable region if you want the sourcing rule to be used when a service request is to be provided within a specific region.</p> <p>Important: The region you identify must belong to the region schema associated with provided service item sourcing for the organization you are working with. For more information about setting an organization's region schema for provided service items, see Section 3.4.4, "Defining Sourcing Region Selection" on page 67.</p>
This Node	Select This Node and select the applicable node if you want the sourcing rule to be used when a service request is to be provided to a specific node.
Any Address	Select Any Address if the sourcing rule can be used when a service request is to be provided for any node.
Sourced From List <p>The system tries to source the product from the node/distribution group with the highest sequence (lowest number). If the sourcing template contains a distribution group or a set of nodes, the final node selection is optimized based on the parameters configured in your scheduling rule associated with a given order. For more information about scheduling rules, see Section 3.4.5, "Defining Scheduling Rules" on page 69.</p> <p>If there is no product availability for a node/distribution group specified in a given sequence, the system tries to source from the next node/distribution group in the sequence.</p>	

Table 3–22 Sourcing Rule for Provided Service

Field	Description
Sequence No	The sequence priority of the sourcing template.
Sourcing Template	A list of the node/distribution group sequences used for sourcing. The sequence is determined by priority. For more information on sourcing templates, see Section 3.4.14, "Defining Sourcing Template Details" on page 110.


3.4.12.2 Modifying a Provided Service Sourcing Rule

To modify a sourcing rule:

1. From the tree in the application rules side panel, choose Cross Application > Order Promising > Sourcing And Scheduling > Provided Services > Sourcing Rules. The Provided Service Sourcing Rules Search window appears in the work area.
2. Select the applicable sourcing rule and choose . The Sourcing Rule for Provided Service window appears.
3. Enter information into the applicable fields. Refer to [Table 3–22](#) for field value descriptions.
4. Choose .

3.4.12.3 Deleting a Provided Service Sourcing Rule

To delete a sourcing rule:

1. From the tree in the application rules side panel, choose Cross Application > Order Promising > Sourcing And Scheduling > Provided Services > Sourcing Rules. The Provided Service Sourcing Rules Search window appears in the work area.
2. Select the applicable sourcing rule and choose .

3.4.13 Defining Procurement Rules

You can define the nodes that handle procurement transfer and purchase orders for a specified item or item classification. A chained order is an order that is linked to a parent order in which the lifecycle of one effects the other.

A transfer order is a type of chained order that is created when a node that belongs to the organization you are configuring needs to replenish their stock from another node within the organization to fulfill an order. For information about configuring transfer schedules, see [Section 3.3.2, "Defining a Node's Relationships"](#) on page 57.


A procurement purchase order is a type of chained order that is created when a node that belongs to the organization you are configuring needs to replenish their stock from another node that belongs to a different legal entity organization to fulfill an order.

You can use the Procurement branch for:

- [Creating a Sourcing Rule for Procurement](#)
- [Modifying a Sourcing Rule for Procurement](#)
- [Deleting a Product Procurement Rule](#)
- [Creating a Procurement Distribution Group](#)
- [Modifying a Procurement Distribution Group](#)
- [Deleting a Procurement Distribution Group](#)

3.4.13.1 Creating a Sourcing Rule for Procurement

To create product procurement sourcing rules:

1. From the tree in the application rules side panel, choose Cross Application > Order Promising > Sourcing And Scheduling > Procurement > Sourcing Rules. The Procurement - Sourcing Rule Search window appears in the work area.
2. Choose . The Sourcing Rules for Procurement window appears.
3. Enter information into the applicable fields. Refer to [Table 3–23](#) for field value descriptions.

Sourcing Rules for Procurement (DEFAULT)

Fulfillment Type:

Order Sourcing Classification:

And Product characteristics are

☐ Item ID

☒ All Items

And Procuring Node Is:

Use following sourcing templates in the sequence specified

Sourced From List	
Sequence No	Sourcing Template

Results 0 Of 0

Table 3–23 Sourcing Rules for Procurement Window

Field	Description
Fulfillment Type	Select the applicable fulfillment type to associate with the product procurement rule. For more information about configuring fulfillment types, see Section 3.4.1, "Defining Fulfillment Types" on page 61.
Order Sourcing Classification	Select the applicable order sourcing classification if you want to associate this sourcing rule with a particular order sourcing classification. For more information about configuring order sourcing classifications, see Section 3.4.3, "Defining Order Sourcing Classifications" on page 65.
And Product characteristics are	
Item ID	Select Item ID and enter the item you want the node to be able to procure.
All Items	Select All Items if you want the node to be able to procure any item.



Table 3–23 Sourcing Rules for Procurement Window

Field	Description
Sourced From List	<p>The system tries to source the product from the node/distribution group with the highest sequence (lowest number). If the sourcing template contains a distribution group or a set of nodes, the final node selection is optimized based on the parameters configured in your scheduling rule associated with a given order. For more information about scheduling rules, see Section 3.4.5, "Defining Scheduling Rules" on page 69.</p> <p>If there is no product availability for a node/distribution group specified in a given sequence, the system tries to source from the next node/distribution group in the sequence.</p>
Sequence No	The sequence priority of the sourcing template.
Sourcing Template	A list of the node/distribution group sequences used for sourcing. The sequence is determined by priority. For more information on sourcing templates, see Section 3.4.14, "Defining Sourcing Template Details" on page 110.

4. Choose .


3.4.13.2 Modifying a Sourcing Rule for Procurement

To modify a sourcing rule for procurement:

1. From the tree in the application rules side panel, choose Cross Application > Order Promising > Sourcing And Scheduling > Procurement > Sourcing Rules. The Procurement - Sourcing Rule Search window appears in the work area.
2. Select the applicable sourcing rule and choose . The Sourcing Rules for Procurement window appears.
3. Enter information into the applicable fields. Refer to [Table 3–23](#) for field value descriptions.
4. Choose .


3.4.13.3 Deleting a Product Procurement Rule

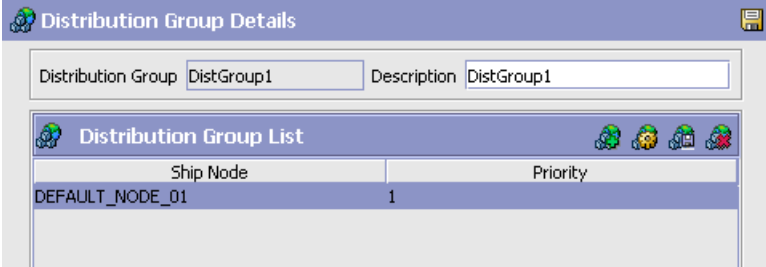
To delete a sourcing rule for procurement:

1. From the tree in the application rules side panel, choose Cross Application > Order Promising > Sourcing And Scheduling > Procurement > Sourcing Rules. The Procurement - Sourcing Rule Search window appears in the work area.
2. Select the applicable sourcing rule and choose .

3.4.13.4 Creating a Procurement Distribution Group

To create a distribution group:

1. From the tree in the application rules side panel, choose Cross Application > Order Promising > Sourcing And Scheduling > Procurement > Distribution Group. The Procurement Distribution Groups window appears in the work area.
2. Choose . The Distribution Group Detail window is displayed.
3. Enter information into the applicable fields. Refer to [Table 3–24](#) for field value descriptions.



Ship Node	Priority
DEFAULT_NODE_01	1



Table 3–24 Procurement Distribution Group Details Window

Field	Description
Distribution Group	Enter a name for the distribution group.
Description	Enter a description for the distribution group.
Distribution Group List	
Note: The Distribution Group needs to be saved before adding ship nodes.	
Ship Node	The identifier for the ship node
Priority	The priority number in the distribution group for this ship node.

4. Choose .


3.4.13.5 Modifying a Procurement Distribution Group

To modify a distribution group:

1. From the tree in the application rules side panel, choose Cross Application > Order Promising > Sourcing And Scheduling > Procurement > Distribution Group. The Procurement Distribution Groups window appears in the work area.
2. Select the applicable distribution group and choose . The Distribution Group Details window appears.
3. Enter information into the applicable fields. Refer to [Table 3–24](#) for field value descriptions.
4. Choose .

3.4.13.6 Deleting a Procurement Distribution Group

To delete a distribution group:

1. From the tree in the application rules side panel, choose Cross Application > Order Promising > Sourcing And Scheduling > Procurement > Distribution Group. The Procurement Distribution Groups window appears in the work area.
2. Select the applicable distribution group and choose .

3.4.14 Defining Sourcing Template Details



Sourcing templates allow you to specify a node, a set of nodes or distribution group to be used in sourcing rules. For more information on the available sourcing templates, refer to the *Yantra 7x Javadocs*.

From the Sourcing Rule window, you can:

- [Applying a Sourcing Template to a Sourcing Rule](#)
- [Modifying a Sourcing Template for a Sourcing Rule](#)
- [Removing a Sourcing Template from a Sourcing Rule](#)

3.4.14.1 Applying a Sourcing Template to a Sourcing Rule

To apply a sourcing template to a sourcing rule:

1. From the Sourcing Rule Window, choose  from the Sourced From List panel. The Sourced From Details pop-up window displays.
2. Enter information into the applicable fields. Refer to [Table 3–25](#) for field value descriptions.
3. Choose .

Click To Select A Node'." data-bbox="241 248 805 487"/>

Table 3–25 Sourced From Details Pop-Up Window



Field	Description
Sequence No	Enter the sequence priority.
Template Type	Select a sourcing template from the drop-down list. After choosing a template, it will appear dynamically in the lower panel. If applicable, populate the template by clicking as indicated. The search window will appear, where you can select the correct entities.
Procure/Transfer to this Node when inventory is not available	Check this checkbox if the node(s) handles transfer orders and/or procurement purchase orders. For more information about transfer orders and procurement purchase orders, see Section 3.3.2, "Defining a Node's Relationships" on page 57 and Section 3.4.13, "Defining Procurement Rules" on page 105.

Table 3–25 Sourced From Details Pop-Up Window


Field	Description
Substitution Is Allowed	Choose this if substitution of product items within an order is allowed.
Work Order Creation Is Allowed	Choose this if you want to use Work Orders to support compliance services at the node(s). Work Orders describe the service activities to customize items based on a buyer's requests.

3.4.14.2 Modifying a Sourcing Template for a Sourcing Rule

To modify a sourcing template for a sourcing rule:

1. From the Sourcing Rule Window, select the sourcing template you want to modify from the Sourced From List and choose . The Sourced From Details pop-up window displays.
2. Enter information into the applicable fields. Refer to [Table 3–25](#) for field value descriptions.
3. Choose .

3.4.14.3 Removing a Sourcing Template from a Sourcing Rule

1. From the Sourcing Rule Window, select the Sourced From Detail you want to remove from the Sourced From List and choose .

Configuring Cross Application Service Execution Components

You can use the Service Execution branch for:

- [Configuring Service Supervisors](#)
- [Configuring Questions](#)

4.1 Configuring Service Supervisors

You can define which supervisor is associated with a node for a given seller organization. A default supervisor can also be assigned for a node for all seller organizations.

There can only be one supervisor for a given node and seller organization combination. The default supervisor will only be a node's supervisor if no other supervisor is defined for that node and seller organization combination. If both are defined, the supervisor specified for the node and seller organization combination will take precedence over the default supervisor.

Note: the supervisor must be a user defined in the context of the node that is being configured. For more information on configuring users, refer to the *Yantra 7x Platform Configuration Guide*.



You can use the Service Supervisors branch for:

- [Defining a Service Supervisor for a Node](#)
- [Modifying a Service Supervisor for a Node](#)

- Deleting a Service Supervisor for a Node

4.1.1 Defining a Service Supervisor for a Node

To define a service supervisor for a given node:

1. From the tree in the application rules side panel, choose Cross Application > Node Supervisors. The Node Supervisor Search window appears in the work area.
2. Enter the applicable search criteria and click . The list of Nodes is displayed. Select the node for which you want to assign a supervisor and click . The Supervisor Setup pop-up window appears.

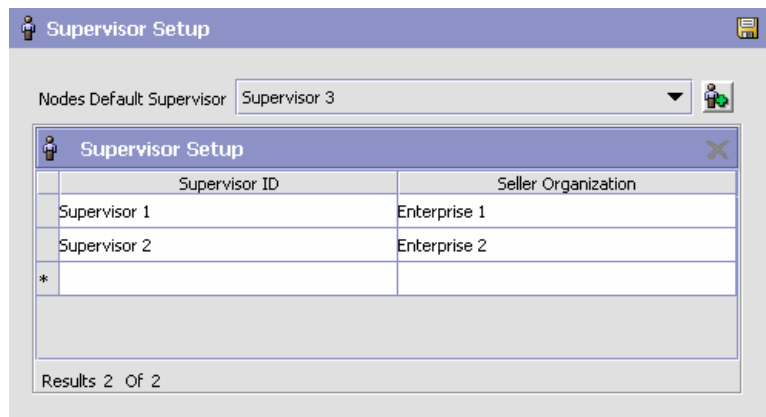


Table 4–1 Supervisor Setup pop-up window



Field	Description
Nodes Default Supervisor	Select the default supervisor from the drop-down list. If a supervisor is not defined for a given seller organization for this node, the user specified here will be that node’s supervisor for all non-specified seller organizations. Click  to add a new user that can be selected as a supervisor. The user will be added in the context of the node that is being configured. For more information on configuring users, refer to the <i>Yantra 7x Platform Configuration Guide</i> .
Supervisor Setup	




Table 4–1 Supervisor Setup pop-up window

Field	Description
Supervisor ID	Select the supervisor ID from the drop-down list. If a supervisor is defined here, a seller organization must be selected in the Seller Organization field.
Seller Organization	Select the seller organization from the drop-down list. If a seller organization is defined here, a supervisor ID must be selected in the Supervisor ID field.

3. Enter the information in the applicable fields. Refer to [Table 4–1](#) for field level description.
4. Click .



4.1.2 Modifying a Service Supervisor for a Node


To modify a service supervisor for a given node:

1. From the tree in the application rules side panel, choose Cross Application > Node Supervisors. The Node Supervisor Search window appears in the work area.
2. Enter the applicable search criteria and click . The list of Nodes is displayed. Select the node for which you want to assign a supervisor and click . The Supervisor Setup pop-up window appears.
3. Enter the information in the applicable fields. Refer to [Table 4–1](#) for field level description.
4. Click .

4.1.3 Deleting a Service Supervisor for a Node

To delete a service supervisor for a given node:

1. From the tree in the application rules side panel, choose Cross Application > Node Supervisors. The Node Supervisor Search window appears in the work area.
2. Enter the applicable search criteria and click . The list of Nodes is displayed. Select the node for which you want to assign a supervisor and click . The Supervisor Setup pop-up window appears.

3. Right-click on the row that contains the seller organization and supervisor association that you want to delete, and click Delete.
4. Click .

4.2 Configuring Questions

You can define a set of questions that the customer can be asked when it is determined that additional address or permit information is required.

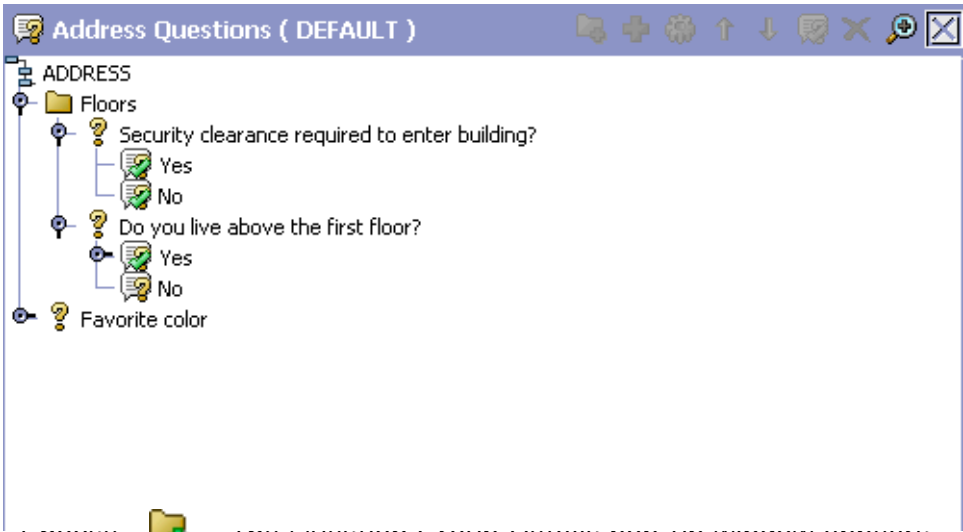
You can use the Questions branch for:

- [Defining Address Question Groups](#)
- [Modifying Address Question Groups](#)
- [Deleting Address Question Groups](#)
- [Defining Address Questions](#)
- [Modifying Address Questions](#)
- [Deleting Address Questions](#)
- [Defining Capacity Impact](#)
- [Modifying Capacity Impact](#)
- [Deleting Capacity Impact](#)
- [Rearranging Address Question Entities](#)
- [Defining Permit Question Groups](#)
- [Modifying Permit Question Groups](#)
- [Deleting Permit Question Groups](#)
- [Defining Permit Questions](#)
- [Modifying Permit Questions](#)
- [Deleting Permit Questions](#)
- [Rearranging Permit Questionnaire Entities](#)

4.2.1 Defining Address Question Groups

1. From the tree in the application rules side panel, choose Cross Application > Service Execution > Questions. The Questions window

appears in the work area. The Address Questions tab displays by default.




2. Choose  . The Question Group Details pop-up window appears.

A screenshot of a "Question Group Details" pop-up window. The window has a title bar with a folder icon and a save icon. The main area contains two input fields. The first field is labeled "Question Group ID" in red text. The second field is labeled "Question Group Text" in black text.



Table 4–2 Question Group Details

Fields	
Question Group ID	Enter the unique question group ID.
Question Group Text	Enter the question group text as you want it to appear in the UI.


3. Enter information in the applicable fields. Refer to [Table 4–5](#) for field value descriptions.
4. Click .

Note: Identifiers are unique across Question IDs and Question Group IDs.

4.2.2 Modifying Address Question Groups

1. From the tree in the application rules side panel, choose Cross Application > Service Execution > Questions. The Questions window appears in the work area. The Address Questions tab displays by default.
2. Select the question group you want to modify and click . The Question Group Details pop-up window appears.
3. Enter information in the applicable fields. Refer to [Table 4–5](#) for field value descriptions.
4. Click .


4.2.3 Deleting Address Question Groups



1. From the tree in the application rules side panel, choose Cross Application > Service Execution > Questions. The Questions window appears in the work area. The Address Questions tab displays by default.
2. Select the Question Group you want to delete, and click .

4.2.4 Defining Address Questions

1. From the tree in the application rules side panel, choose Cross Application > Service Execution > Questions. The Questions window appears in the work area. The Address Questions tab displays by default.
2. Questions can be defined from the root level, a question group, or an answer option. If a question derives from an answer option, in the console it will appear on the questionnaire only when the corresponding answer option has been selected. Follow-up questions

cannot be added to answer options for other follow-up questions, however several follow-up questions can be added to the same answer option for a question. Furthermore, follow-up questions can only be defined off of the 'Yes' Answer Option from a checkbox, or Answer Options whose display control type is Dropdown or Radio Button.

Select the desired location for the question and choose  . The Question Details pop-up window displays.

 Question Details 

Question ID

Question Text

Data Type

▼

Display Control Type


▼

Table 4–3 Question Details



Fields	
Question ID	Enter the unique question ID.
Question Text	Enter the question text as you want the question to appear in the UI.
Data Type	Select the data type for the answers. The data type you select governs the possible display control type options: Text - Textbox, Text Area, Dropdown, Radio Button Integer - Textbox Decimal - Textbox Boolean - Checkbox
Display Control Type	Select how you want the answer options to appear in the UI. The Display Control Types available depend on the Data Type you have selected.
Answer Options - the following fields appear when you have chosen Dropdown or Radio Button as the desired display control type. display control type.	

Table 4–3 Question Details


Fields	
Value	Enter the value for the answer option.
Display Text	Enter the answer option text as you want the answer to appear in the UI.

3. Enter information in the applicable fields. Refer to [Table 4–6](#) for field value descriptions.
4. Click .

4.2.5 Modifying Address Questions

1. From the tree in the application rules side panel, choose Cross Application > Service Execution > Questions. The Questions window appears in the work area. The Address Questions tab displays by default.
2. Select the question you want to modify, and choose . The Question Details pop-up window displays.
3. Enter information in the applicable fields. Refer to [Table 4–6](#) for field value descriptions.
4. Click .

4.2.6 Deleting Address Questions


1. From the tree in the application rules side panel, choose Cross Application > Service Execution > Questions. The Questions window appears in the work area. The Address Questions tab displays by default.
2. Select the question you want to delete, and choose .

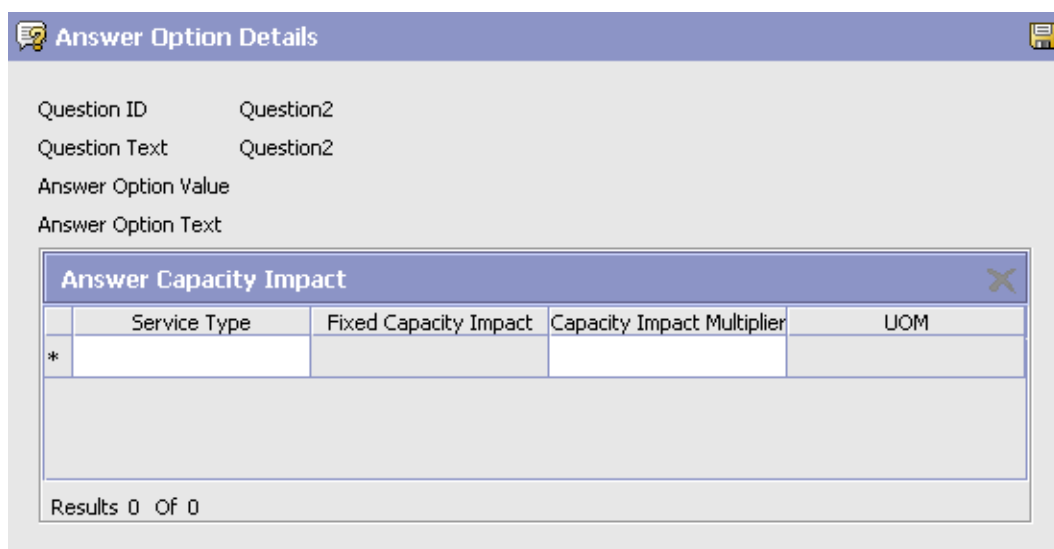
4.2.7 Defining Capacity Impact

You can define capacity impact for an answer option which will be added to the capacity demand on the order, based on service type. You can add different capacity impact values for different service types. There are two types of capacity impact:

Fixed Capacity Impact - a fixed capacity value can be added to a 'Yes' Answer Option from a checkbox, or Answer Options whose display control type is Dropdown or Radio Button.

Capacity Impact Multiplier - a capacity multiplier value can be added to a Answer Option whose display control type is Integer or Decimal. The value is multiplied by the numeric answer given to determine the amount of capacity to add.

1. From the tree in the application rules side panel, choose Cross Application > Service Execution > Questions. The Questions window appears in the work area. The Address Questions tab displays by default.
2. Select the Answer Option to which you want to add Capacity Impact and click . The Answer Option Details pop-up window displays.



Question ID Question2

Question Text Question2

Answer Option Value

Answer Option Text

Answer Capacity Impact				
	Service Type	Fixed Capacity Impact	Capacity Impact Multiplier	UOM
*				


Results 0 Of 0

Table 4–4 Answer Option Details



Fields	
Question ID	The identifier for the question this answer option is for.
Question Text	The text for the question this answer option is for.
Answer Option Value	The value of the answer option.

Table 4–4 Answer Option Details

Answer Option Text	The text for the answer option.
Answer Capacity Impact	
Service Type	Select the Service Type for which capacity will be added.
Fixed Capacity Impact	If available, enter the amount of capacity you want to add if this answer option is selected.
Capacity Impact Multiplier	If available, enter the value you want to multiply the answer by, which will determine the amount of capacity to add for this answer option.
UOM	The unit of measure for the selected Service Type. This field is not modifiable.



3. Enter information in the applicable fields. Refer to [Table 4–4](#) for field value descriptions.
4. Click .

4.2.8 Modifying Capacity Impact

1. From the tree in the application rules side panel, choose Cross Application > Service Execution > Questions. The Questions window appears in the work area. The Address Questions tab displays by default.
2. Select the Answer Option for which you want to modify Capacity Impact and click . The Answer Option Details pop-up window displays.
3. Enter information in the applicable fields. Refer to [Table 4–4](#) for field value descriptions.
4. Click .

4.2.9 Deleting Capacity Impact



1. From the tree in the application rules side panel, choose Cross Application > Service Execution > Questions. The Questions window appears in the work area. The Address Questions tab displays by default.

2. Select the Answer Option for which you want to remove Capacity Impact and click . The Answer Option Details pop-up window displays.
3. Select the Capacity Impact you want to delete and choose .

4.2.10 Rearranging Address Question Entities

The questionnaire tree represents how the questionnaire will appear in the console. By arranging question groups, questions, and answer options, and you modify how you want the questionnaire to appear in the console.

There are two methods you can use to move question groups, questions, and answer options, depending on how you want to move.

Using the  and  icons, you can move question groups, questions and answer options up and down the questionnaire tree, within the entity it is currently contained in:

- **Questions Groups** - these can be arranged on the questionnaire tree at the root level.
- **Questions** - these can be arranged within a question group, in and out of question groups, and up and down levels.
- **Answer Options** - these can be arranged within a question.

Using the drag and drop functionality, you can:

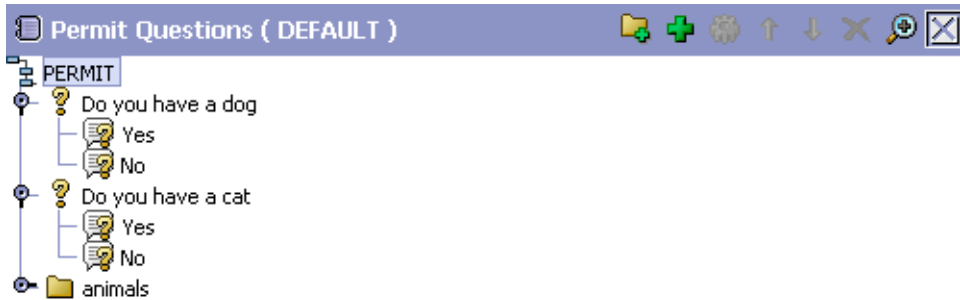
- Move questions in and out of question groups
- Change a follow-up question into a stand-alone question by dropping onto a question group or the root of the tree
- Change a question into a follow-up question by dropping onto an answer option that allows follow-up questions.

The questionnaire tree represents how the questions will appear in the Questionnaire in the console. By arranging question groups, questions, and answer options, and you modify how you want the questionnaire to appear in the console.

4.2.11 Defining Permit Question Groups

1. From the tree in the application rules side panel, choose Cross Application > Service Execution > Questions. The Questions window

appears in the work area. Select the Permit Questions tab to view the Permit Questions window.




2. Choose  . The Question Group Details pop-up window appears.

A screenshot of a "Question Group Details" pop-up window. The window has a title bar with a folder icon and a save icon. The main area is light gray and contains two text input fields. The first field is labeled "Question Group ID" in red text. The second field is labeled "Question Group Text" in black text.



Table 4–5 Question Group Details

Fields	
Question Group ID	Enter the unique question group ID.
Question Group Text	Enter the question group text as you want it to appear in the UI.


3. Enter information in the applicable fields. Refer to [Table 4–5](#) for field value descriptions.
4. Click .

Note: Identifiers are unique across Question IDs and Question Group IDs.

4.2.12 Modifying Permit Question Groups

1. From the tree in the application rules side panel, choose Cross Application > Service Execution > Questions. The Questions window appears in the work area. Select the Permit Questions tab to view the Permit Questions window.
2. Select the question group you want to modify and click . The Question Group Details pop-up window appears.
3. Enter information in the applicable fields. Refer to [Table 4–5](#) for field value descriptions.
4. Click .


4.2.13 Deleting Permit Question Groups

1. From the tree in the application rules side panel, choose Cross Application > Service Execution > Questions. The Questions window appears in the work area. Select the Permit Questions tab to view the Permit Questions window.
2. Select the Question Group you want to delete, and click .

4.2.14 Defining Permit Questions


1. From the tree in the application rules side panel, choose Cross Application > Service Execution > Questions. The Questions window appears in the work area. Select the Permit Questions tab to view the Permit Questions window.
2. Questions can be defined from the root level, a question group, or an answer option. If a question derives from an answer option, in the console it will appear on the questionnaire only when the corresponding answer option has been selected. Follow-up questions

cannot be added to answer options for other follow-up questions, however several follow-up questions can be added to the same answer option for a question. Furthermore, follow-up questions can only be defined off of the 'Yes' Answer Option from a checkbox, or Answer Options whose display control type display control type is Dropdown or Radio Button.

Select the desired location for the question and choose  . The Question Details pop-up window displays.

?

Question Details



Question ID

Question Text

Data Type


Display Control Type

Table 4–6 Question Details



Fields	
Question ID	Enter the unique question ID.
Question Text	Enter the question text as you want the question to appear in the UI.
Data Type	Select the data type for the answers. The data type you select governs the possible display control type options: Text - Textbox, Text Area, Dropdown, Radio Button Integer - Textbox Decimal - Textbox Boolean - Checkbox
Display Control Type	Select how you want the answer options to appear in the UI. The display control types available depend on the Data Type you have selected.
Answer Options - the following fields appear when you have chosen Dropdown or Radio Button as the desired Adisplay control typenswer Type.	

Table 4–6 Question Details


Value	Enter the value for the answer option.
Display Text	Enter the answer option text as you want the answer to appear in the UI.

3. Enter information in the applicable fields. Refer to [Table 4–6](#) for field value descriptions.
4. Click .

4.2.15 Modifying Permit Questions

1. From the tree in the application rules side panel, choose Cross Application > Service Execution > Questions. The Questions window appears in the work area. Select the Permit Questions tab to view the Permit Questions window.
2. Select the question you want to modify, and choose . The Question Details pop-up window displays.
3. Enter information in the applicable fields. Refer to [Table 4–6](#) for field value descriptions.
4. Click .



4.2.16 Deleting Permit Questions

1. From the tree in the application rules side panel, choose Cross Application > Service Execution > Questions. The Questions window appears in the work area. Select the Permit Questions tab to view the Permit Questions window.
2. Select the question you want to delete, and choose .

4.2.17 Rearranging Permit Questionnaire Entities

The questionnaire tree represents how the questionnaire will appear in the console. By arranging question groups, questions, and answer options, and you modify how you want the questionnaire to appear in the console.

There are two methods you can use to move question groups, questions, and answer options, depending on how you want to move.

Using the  and  icons, you can move question groups, questions and answer options up and down the questionnaire tree, within the entity it is currently contained in:

- **Questions Groups** - these can be arranged on the questionnaire tree at the root level.
- **Questions** - these can be arranged within a question group, in and out of question groups, and up and down levels.
- **Answer Options** - these can be arranged within a question.

Using the drag and drop functionality, you can:

- Move questions in and out of question groups
- Change a follow-up question into a stand-alone question by dropping onto a question group or the root of the tree
- Change a question into a follow-up question by dropping onto an answer option that allows follow-up questions.

The questionnaire tree represents how the questions will appear in the Questionnaire in the console. By arranging question groups, questions, and answer options, and you modify how you want the questionnaire to appear in the console.

Configuring Cross Application Logistics Components

You can configure the components used by different logistics related functionality throughout the business application module.

You can use the Logistics branch for:

- [Defining Logistics Attributes](#)
- [Defining Delivery Codes](#)
- [Defining Shipment Modes](#)
- [Defining Outbound Constraints](#)

5.1 Defining Logistics Attributes

You can define rules and common codes associated logistics of shipping an order.

You can use the Logistics Attributes branch for:

- [Defining Freight Terms](#)
- [Defining Shipment Modes](#)
- [Defining Carrier Modification Reasons](#)
- [Defining Additional Logistic Rules](#)

5.1.1 Defining Freight Terms

You can define common codes used when associating a freight term to a Carrier. A **freight term** identifies how transportation costs are calculated.

The following are Yantra 7x's default freight terms:



- Cost Insurance and Freight (CIF) - The freight cost is completely paid by either the Seller, the Enterprise, or the Hub.
- Cost and Freight (CFR) - The freight cost is paid by the Buyer and either the Seller, the Enterprise, or the Hub.
- Free On Board (FOB) - The freight cost is paid by the Buyer.

You can use the Freight Terms tab for:

- [Creating a Freight Term](#)
- [Modifying a Freight Term](#)
- [Deleting a Freight Term](#)

5.1.1.1 Creating a Freight Term

To create a freight term:

1. From the tree in the application rules side panel, choose Cross Application > Logistics > Logistics Attributes. The Logistics window appears in the work area.
2. Choose the Freight Terms tab.
3. Choose . The Freight Terms Details pop-up window is displayed.
4. Enter information in the applicable fields. Refer to [Table 5–1](#) for field value descriptions.
5. Enter Choose .

Freight Terms Details

Freight Terms

Short Description

Long Description

☒ Consider Buyer's Routing Guide

Charges paid by

☒ Buyer
 ☐ Shipper

Table 5–1 Freight Terms Details



Field	Description
Freight Terms	Enter the name of the freight term.
Short Description	Enter a brief description of the freight term.
Long Description	Enter a more detailed description of the freight term.
Consider Buyer's Routing Guide	<p>Both the Buyer and the Enterprise can establish routing guides (rules for shipping), and Economic Shipping parameters (ESP), which control how items are shipped. In some cases only the Buyer organization has established values for these rules. In other cases, only the enterprise has established values for these rules. If neither is set, then Hub rules are used.</p> <p>In cases where both the Buyer and the Enterprise have set values for these rules, this setting determines whether to apply the Buyer's routing rules before applying the routing rules of the Enterprise. See <i>Yantra 7x Product Concepts</i> for more information about these shipping concepts.</p>
First Buyer then Enterprise	Select to use any shipping rules established by the buyer first. Enterprise rules are applied if no applicable Buyer rule exists.

Table 5–1 Freight Terms Details

Field	Description
First Enterprise then Buyer	Select to use any shipping rules established by the enterprise first. Buyer rules are applied if no applicable Enterprise rule exists.
Charges paid by	
Buyer	Select this option if the Buyer pays shipping charges.
Shipper	Select this option if the Shipper pays shipping charges.


5.1.1.2 Modifying a Freight Term

To modify a freight term:

1. From the tree in the application rules side panel, choose Cross Application > Logistics > Logistics Attributes. The Logistics window appears in the work area.
2. Choose the Freight Terms tab.
3. Select the applicable freight term and choose . The Freight Terms Details pop-up window displays.
4. Enter the new information in the applicable fields. Refer to [Table 5–1](#) for field value descriptions.
5. Choose .

5.1.1.3 Deleting a Freight Term

To delete a freight term:

1. From the tree in the application rules side panel, choose Cross Application > Logistics > Logistics Attributes. The Logistics window appears in the work area.
2. Choose the Freight Terms tab.
3. Select the applicable freight term and choose .

5.1.2 Defining Carrier Modification Reasons

You can define common codes that appear in the Reason Code drop-down list when you modify a Carrier. This code should provide a

standard reason for modifying a Carrier, such as 'Requested Change' which would be used when the customer requests a change of Carrier.

The following is Yantra 7x's default carrier modification reason:


- Requested Change

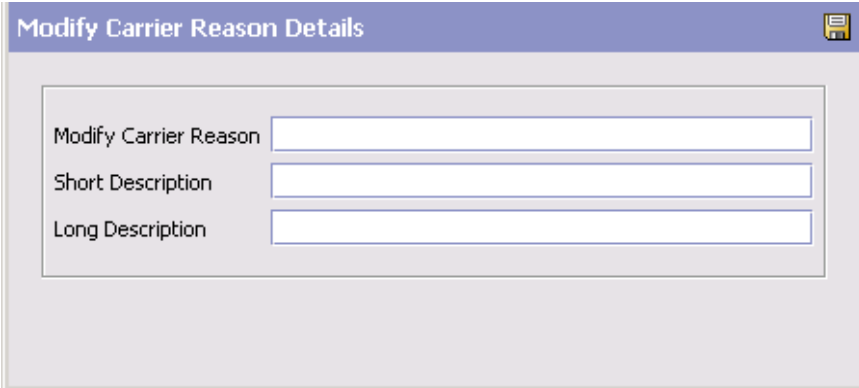
You can use the Modify Carrier Reason tab for:

- [Creating a Carrier Modification Reason](#)
- [Modifying a Carrier Modification Reason](#)
- [Deleting a Carrier Modification Reason](#)

5.1.2.1 Creating a Carrier Modification Reason


To create a carrier modification reason:

1. From the tree in the application rules side panel, choose Cross Application > Logistics > Logistics Attributes. The Logistics window appears in the work area.
2. Choose the Modify Carrier Reason tab.
3. Choose . The Modify Carrier Reason Details pop-up window is displayed.





The screenshot shows a pop-up window titled "Modify Carrier Reason Details". It contains three text input fields stacked vertically, each with a label to its left: "Modify Carrier Reason", "Short Description", and "Long Description". The window has a standard title bar with a save icon in the top right corner.

4. In Modify Carrier Reason, enter the name of the carrier modification reason.
5. In Short Description, enter a brief description of the carrier modification reason.

6. In Long Description, enter a more detailed description of the carrier modification reason.
7. Choose .


5.1.2.2 Modifying a Carrier Modification Reason

To modify a carrier modification reason:

1. From the tree in the application rules side panel, choose Cross Application > Logistics > Logistics Attributes. The Logistics window appears in the work area.
2. Choose the Modify Carrier Reason tab.
3. Select the applicable carrier modification reason and choose . The Modify Carrier Reason Details pop-up window is displayed.
4. In Short Description, enter a brief description of the carrier modification reason.
5. In Long Description, enter a more detailed description of the carrier modification reason.
6. Choose .

5.1.2.3 Deleting a Carrier Modification Reason

To delete a carrier modification reason:

1. From the tree in the application rules side panel, choose Cross Application > Logistics > Logistics Attributes. The Logistics window appears in the work area.
2. Choose the Modify Carrier Reason tab.
3. Select the applicable carrier modification reason and choose .

5.1.3 Defining Additional Logistic Rules

You can define additional rules that pertain to an order document type.

To define additional logistic rules:

1. From the tree in the application rules side panel, choose Cross Application > Logistics > Logistics Attributes. The Logistics window appears in the work area.

2. Choose the Other Rules tab.


3. Enter information in the applicable fields. Refer to [Table 5–2](#) for field value descriptions.
4. Choose .

Table 5–2 Other Rules Tab

Field	Description
Advance Transit Time Calculation	
Use Advanced Transit Time Calculation	Select this field if advance transit time calculation is required when considering ship dates and delivery dates. Transit time is calculated as Lead Time + Distance Per Day (either from the Distance Per Day for a selected Carrier service).
Based on SCAC and Carrier Service	Select Based on Carrier if you want transit time calculations to be based on the carrier and carrier service being used for an order.
Based on Carrier Service	Select Based on Carrier Service if you want transit time calculations to be based on the specific carrier service being used for an order.

Table 5–2 Other Rules Tab

Field	Description
Delivery Lead Time (Days)	<p>Enter the default delivery lead time.</p> <p>Delivery lead time is used to determine when an order line must be shipped based on the requested delivery date. The delivery lead time indicates the amount of time it takes to transport a load from a ship node to a customer. When calculating the delivery date:</p> <ul style="list-style-type: none"> • If neither the ship date or delivery date are provided, the ship date is defaulted to the current days date and the delivery date is defaulted to that date + delivery lead time. • If the ship date is provided but the delivery date is not, the delivery date is defaulted to ship date + delivery lead time. • If the delivery date is provided but the ship date is not, the ship date is defaulted to delivery date - delivery lead time. • If both the ship date and delivery date are provided, this rule is not applied.
Round Up Transit Time To Nearest Day	<p>If selected, transit time calculations are not specific down to the actual hour. Instead, the system performs the calculations and rounds up to the next available day.</p>
Distance Per Day	<p>Enter the default distance for calculating transit time if a Carrier service is not selected or the service selected does not have a distance per day associated with it.</p>
UOM	<p>Select the distance unit of measure.</p>
Default Carrier Service for Transfer	<p>Select the carrier service you want to use to compute the transfer time between two nodes if they do not have a transfer schedule configured for them.</p> <p>For more information about configuring transfer schedules between nodes, see the appropriate section in this guide.</p>

5.2 Defining Delivery Codes

You can define common codes used for indicating the delivery code when creating or modifying a Carrier. The **delivery code** identifies the entity that pays for the transportation costs.

The following are Yantra 7x's default delivery codes:


- ENTERPRISE
- MARKETPLACE
- SUPPLIER

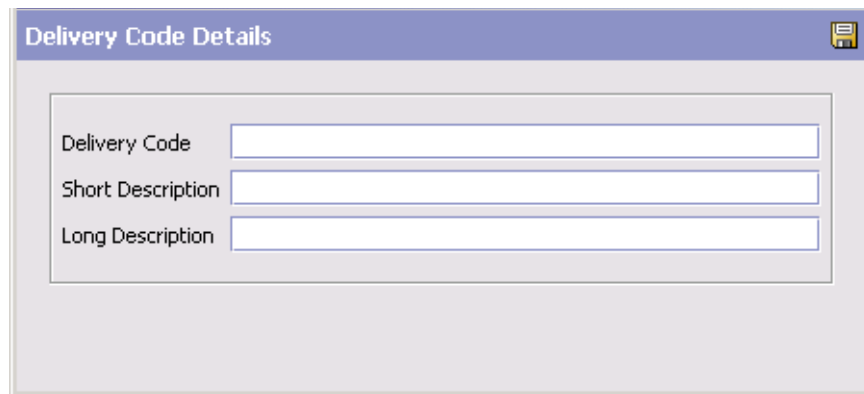
You can use the Delivery Codes branch for:

- [Creating a Delivery Code](#)
- [Modifying a Delivery Code](#)
- [Deleting a Delivery Code](#)

5.2.1 Creating a Delivery Code


To create a delivery code:

1. From the tree in the application rules side panel, choose Cross Application > Logistics > Delivery Codes. The Delivery Codes window appears in the work area.
2. Choose . The Delivery Code Details pop-up window is displayed.





The screenshot shows a 'Delivery Code Details' dialog box. It contains three text input fields:

- Delivery Code
- Short Description
- Long Description

3. In Delivery Code, enter the name of the delivery code.
4. In Short Description, enter a brief description of the delivery code.
5. In Long Description, enter a more detailed description of the delivery code.
6. Choose .


5.2.2 Modifying a Delivery Code

To modify a delivery code:

1. From the tree in the application rules side panel, choose Cross Application > Logistics > Delivery Codes. The Delivery Codes window appears in the work area.
2. Select the applicable delivery code and choose . The Delivery Code Details pop-up window is displayed.
3. In Short Description, enter a brief description of the delivery code.
4. In Long Description, enter a more detailed description of the delivery code.
5. Choose .

5.2.3 Deleting a Delivery Code

To delete a delivery code:

1. From the tree in the application rules side panel, choose Cross Application > Logistics > Delivery Codes. The Delivery Codes window appears in the work area.
2. Select the applicable delivery code and choose .

5.3 Defining Shipment Modes

You can define common codes used when indicating the ship mode. The **shipment mode** describes how an order is being shipped.

The following are Yantra 7x's default shipment modes:


- TL - Truckload
- LTL - Less-Than Truckload
- PARCEL

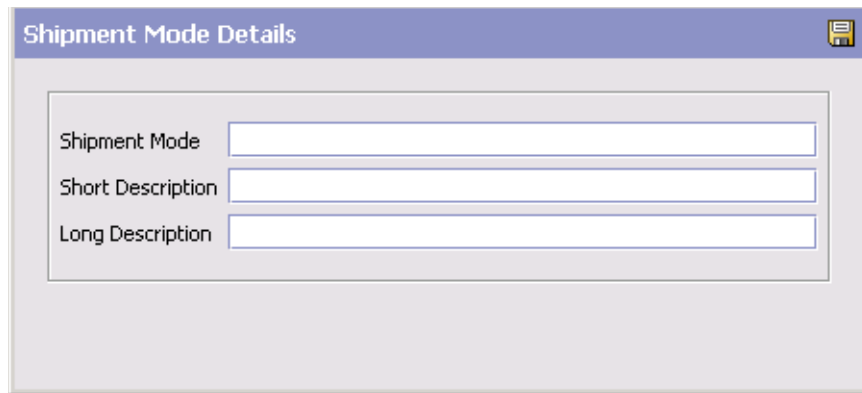
You can use the Shipment Modes tab for:

- [Creating a Shipment Mode](#)
- [Modifying a Shipment Mode](#)
- [Deleting a Shipment Mode](#)


5.3.1 Creating a Shipment Mode

To create a shipment mode:

1. From the tree in the application rules side panel, choose Cross Application > Logistics > Shipment Modes. The Shipment Modes window appears in the work area.
2. Choose . The Shipment Mode Details pop-up window is displayed.





The screenshot shows a 'Shipment Mode Details' dialog box. It contains three text input fields: 'Shipment Mode', 'Short Description', and 'Long Description'. The dialog box has a title bar with the text 'Shipment Mode Details' and a save icon on the right.

3. In Shipment Mode, enter the name of the shipment mode.
4. In Short Description, enter a brief description of the shipment mode.
5. In Long Description, enter a more detailed description of the shipment mode.
6. Choose .

5.3.2 Modifying a Shipment Mode


To modify a shipment mode:

1. From the tree in the application rules side panel, choose Cross Application > Logistics > Shipment Modes. The Shipment Modes window appears in the work area.
2. Select the applicable shipment mode and choose . The Shipment Mode Details pop-up window is displayed.
3. In Short Description, enter a brief description of the shipment mode.

4. In Long Description, enter a more detailed description of the shipment mode.
5. Choose .

5.3.3 Deleting a Shipment Mode

To delete a shipment mode:

1. From the tree in the application rules side panel, choose Cross Application > Logistics > Shipment Modes. The Shipment Modes window appears in the work area.
2. Select the applicable shipment mode and choose .


5.4 Defining Outbound Constraints

Outbound constraints are used to describe conditions that control how shipping is done. These include whether certain items can be shipped together, whether to use Economic Shipping Parameters, and how routing is performed. You can also use Outbound Constraints for:

- [Creating a Routing Guide](#)
- [Modifying a Routing Guide](#)
- [Deleting a Routing Guide](#)

Note: the Outbound Constraints node does not apply to Reverse Logistics or Supply Collaboration.

To define outbound constraints:

1. From the tree in the application rules side panel, choose Cross Application > Logistics > Outbound Constraints. The Outbound Constraints window appears in the work area.
2. Enter information in the applicable fields. Refer to [Table 5–3](#) for field value descriptions.
3. Choose .

Outbound Constraints (DEFAULT)

Do not mix in a shipment:

☐ Customer PO # ☐ Department Code

☐ Mark For ☐ Order #

☐ Order Type

Transportation optimization:

Economic shipping parameters maintained ☒

Delay shipment by not more than Days

Consolidate upto weight threshold of LBS

Consolidate upto volume threshold of CIN

Routing Guide:

☐ Not Maintained ☒ Maintained in Yantra ☐ Maintained Externally

Routing Guides

Name	Routing Guide #	Effective Date	Freight Terms
RT_1	RT_1	11/17/2003	
RT2	22	11/24/2003	PREPAID

Results 2 Of 2

Table 5–3 Outbound Constraint Window

Field	Description
Do not mix in Shipment	If any of the following are selected, separate shipments must be create for items that have different values for these attributes. For example, if Department Code is selected, items that are for different departments can not be included in the same shipment.
Customer PO #	Customer's Purchase Order number.
Mark For	Person for whom this shipment is marked for
Department Code	The department for which the item is intended.
Order #	The order number.
Order Type	The order type.
Transportation optimization	

Table 5–3 Outbound Constraint Window

Field	Description
Economic shipping parameters maintained	<p>Economic Shipping Parameters (ESP) are used in shipping consolidation. Select this field to enable the following Economic Shipping Parameters fields.</p> <p>ESP support consolidation of shipments until a weight or volume threshold is met, or until an certain time elapses. By consolidating shipments, shipping costs can be reduced</p> <p>For example, you can set that shipments should be consolidated until the shipment weight is 300 pounds, or 50 cubic feet in volume. To ensure that eventually the shipment is set, you can establish a maximum number of days to wait until the conditions are met.</p> <p>When either the weight, volume or delay shipment threshold is met, the shipment is moved to the next stage in shipping.</p>
Delay shipment by not more than __ Days	<p>Enter the number of days this shipment can be delayed before it should be shipped.</p> <p>For example, if a value is set for weight threshold of 300 pounds, and this field has been set to 3 days, the shipment is shipped after 3 days, regardless of whether the weight threshold has been met.</p>
Consolidate up to weight threshold of	Enter a weight.
Consolidate up to volume threshold of	Enter a volume
Routing Guide	
Not Maintained	Select this to use manual routing. Shipments are managed in the shipment console, and any routing guides are not consulted.

Table 5–3 Outbound Constraint Window


Field	Description
Maintained in Yantra	<p>Select this to use the Routing Guides maintained in Yantra 7x to determine how shipments should be routed. See Section 5.4.1, "Creating a Routing Guide" on page 145.</p> <p>In addition to the routing guide maintained here by the enterprise, there may be a routing guide for the buyer organization.</p> <p>See Section 5.1.1.1, "Creating a Freight Term" on page 132 for details about using both buyer and enterprise routing guides.</p>
Maintained Externally	<p>Select this to indicate that an external routing system is used. The routing guides maintained in Yantra 7x are not consulted.</p> <p>Examples of external routing systems include using an integrated Transportation Management System (TMS), or implementing a User Exit which consults with the buyer organization.</p>

5.4.1 Creating a Routing Guide

Routing Guides are a list of conditions which determine how a shipment should be routed. A routing guide has a time period for which is effective, and conditions for when it should be applied. These conditions are based on Freight Terms and Department.

Each routing guide contains a list of *routing guide lines*, each of which describe detailed conditions for selecting a carrier. The routing guide information is based on data used by VICS (Voluntary InterIndustry Commerce Standards) routing.

To create a routing guide:

1. From the tree in the application rules side panel, choose Cross Application > Logistics > Outbound Constraints. The Outbound Constraints window appears in the work area.
2. Select  on the Routing Guides list window. The Routing Guide Details window appears in the work area.
3. Enter information in the applicable fields. Refer to [Table 5–4](#) for field value descriptions.


4. Choose .

Figure 5–1 Routing Guide Details Window

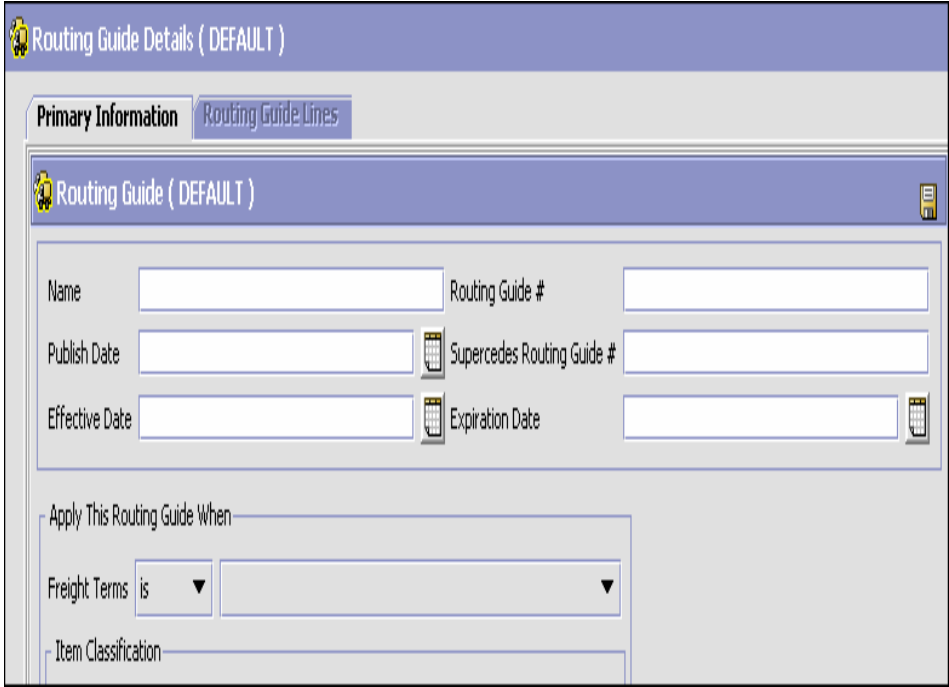


Table 5–4 Routing Guide Details Window



Field	Descriptions
Name	Enter a name for the routing guide.
Routing Guide #	A number for the routing guide.
Publish Date	When this routing guide is available within the system.
Supersedes Routing Guide #	Tracking information. For example, if a minor revision is made to routing guide "1234", you might create a routing guide "1234-A", and enter that it supersedes routing guide "1234. This field is for informational purposes and is not used to determine the effective routing guide.

Table 5–4 Routing Guide Details Window

Field	Descriptions
Effective Date	The start date for applying the routing information in this routing guide. You can use the effective date and expiration date to apply routing guidelines for particular periods of time.
Expiration Date	The end date for applying the routing information in this routing guide.
Apply this Routing Guide when	
Freight Terms	<p>Apply this routing guide when this condition is met. Select <i>is</i>, <i>is in</i>, or <i>is not</i>. Use:</p> <ul style="list-style-type: none"> • <i>is</i> to specify a single Freight Term. • <i>is in</i> to specify a group of Freight Terms, one of which must be matched. • <i>is not in</i> to specify a group of Freight Terms. The routing guide is used if the Freight Term does not match one of these values.
Item Classification	<p>Items can be classified.</p> <p>Note: This field appears when valid item classifications have been set up for Routing Guide.</p>

5.4.2 Modifying a Routing Guide

To modify a routing guide:

1. From the tree in the application rules side panel, choose Cross Application > Logistics > Outbound Constraints. The Outbound Constraints window appears in the work area.
2. Select a routing guide in the Routing Guide list window, and select .
3. The Routing Guide Details window appears in the work area.
4. Enter information in the applicable fields. Refer to [Table 5–4](#) for field value descriptions.
5. Choose .

5.4.2.1 Creating a Routing Guide Line

Routing guide lines contain the specific conditions to use when routing a shipment. A routing guide can contain multiple routing guide lines.

When routing occurs, the shipment is matched against the routing guide lines. Based on the criteria specified, a carrier and carrier service is selected.

When routing results in a change to the shipment destination, system will route once again, with the revised destination as the factor for routing. This type of configuration is used for consolidator nodes. While routing the second time, system looks for the routing guide entry that contains destination node, but without any other destination parameters filled out (such as address, country, and so forth).

To create a routing guide line:

1. From the Routing Guide Details window, select the Routing Guidelines Tab. To have access to the Routing Guidelines Tab, save the information you have entered on the Primary Info Tab.
2. A Routing Guide Line search window appears.

Figure 5–3 Routing Guide Line Details Window

Routing Guide Line Details

When shipping from:

☒ Node

is

☐ When ship from is not node, select the following attribute(s)

Country

is

State

is

City

is

Zip Code

is

And shipping to:

☒ Node

is

☐ When ship to is not node and region, select the following attribute(s)

Country

is

State

is

City

is

Zip Code

is

Consolidator

is

Store #

is

And weight is in the range:

From

0

LBS

To

999,999,999

LBS

And volume is in the range:

From

0

CIN

To

999,999,999

CIN

And handling units are in the range:

From

0

To

999,999,999

And if requested carrier service code is

Carrier Service Code

2 Day Air AM

Then ship via:

Carrier Services

Priority

Carrier/Service

Break Bulk Node

Contact Specified

Results: 0 Of 0

With overrides:

☒ Override Freight Terms

COLLECT

☐ Override Ship To

Routing Guide Line Details

Table 5–5 Routing Guide Line Details

<p>Setting conditions:</p> <p>In many of the following fields, you can select <i>is</i>, <i>is in</i>, or <i>is not in</i> and then specify a value. Use:</p> <ul style="list-style-type: none"> • <i>is</i> to specify that a single value must be matched • <i>is in</i> to specify a group of values, one of which must be matched. • <i>is not in</i> to specify a group of values. The routing guide line is used if none of these values match. <p>For example to match any one of a group of states, specify State <i>is in</i> California, Washington, Oregon, Nevada. When assessing the condition, California would match, Florida would not.</p>	
Field	Description
Ship From	
Node	Select the node.
When ship from is not node, select the following attribute(s)	Enter this option if not shipping from the node and then enter one or more of the following conditions.
Country	Select the country name(s).
State	Enter the state name(s).
City	Enter the city name(s).
Zip Code	Enter the zip code or zip code range.
Ship To	
Node	Select the node.
Region	Enter the region.
When ship to is not node and region, select the following attribute(s)	Select this option if not shipping to a node within a specific region and then select one or more of the following conditions.
Country	Select the country name(s).
State	Enter the state name(s).
City	Enter the city name(s).
Zip Code	Enter the zip code or zip code range.
Consolidator	Select the consolidator name(s).

Table 5–5 Routing Guide Line Details

Store#	Select the store number(s).
And weight is in the range:	You can match weight. For example, if you want packages that weigh between 100 and 500 pounds to be shipped using a specific carrier, you would specify From as '100' and To as '500'.
From	Enter the minimum value.
To	Enter the maximum value.
And volume is in the range:	You can match volume. For example, if you want packages that are between 3 and 10 cubic feet to be shipped using a specific carrier, you would specify From as '3' and To as '10'.
From	Enter the minimum value.
To	Enter the maximum value.
And handling units are in the range:	Number of containers.
From	Enter the minimum value.
To	Enter the maximum value.
And if requested carrier service code is	
Carrier Service Code	Select a carrier service code.
For details about defining carrier services, see Section 5.4.2.1.1, "Defining Carrier Services" on page 153.	
Then ship via:	
Priority	Indicates the number to give this rule a relative importance. When a shipment is compared to the routing guide lines, there may be two carrier services that could be used. This priority serves as a tie breaker. The carrier service with the lowest number is used.
Carrier / Service	Indicates the carrier and service code that is desired.
Break Bulk Node	The break bulk node that is close to the buyer.
Contact Specified	Indicates whether the contact details for the shipment is specified.

Table 5–5 Routing Guide Line Details

With overrides:	
Override Freight Terms	Select to override the shipment's Freight Term.
Override Ship To	To override the Ship To value, select this field, and then select one of the following. This is only used when performing routing again due to a revised ship to address.
Node	Select the node name.
Consolidator	Select the consolidator name.
Store#	Select the store number.

When the conditions set are assessed, the routing guide line which matches the most conditions is used. For example, imagine there are three routing guide lines:

Routing guide line A - What to do when shipping from Massachusetts

Routing guide line B - What to do when shipping from Massachusetts, and when shipping from the zip code 01810.

Routing guide line C - What to do when shipping from Massachusetts or NY.

If the shipment originates from the zip code 01810, it matches all of these routing guide lines. The actions specified in *Routing guide line B* is used, as more conditions are met (both the state and the zip code).

If the shipment originates from Massachusetts, but not from zip code 01810, then both *Routing guideline A* and *Routing guide line C* match. The priority on the guidelines are used to determine which is used, with the lowest numbered priority being selected. If *Routing guideline A* had a priority number of 3, and *Routing guideline C* had a priority number of 5, *Routing guideline A* is used.

5.4.2.1.1 Defining Carrier Services

When routing occurs, the shipment is matched against the routing guidelines. Based on the criteria specified, you select a carrier service to use.

You can use the Carrier Services panel for:

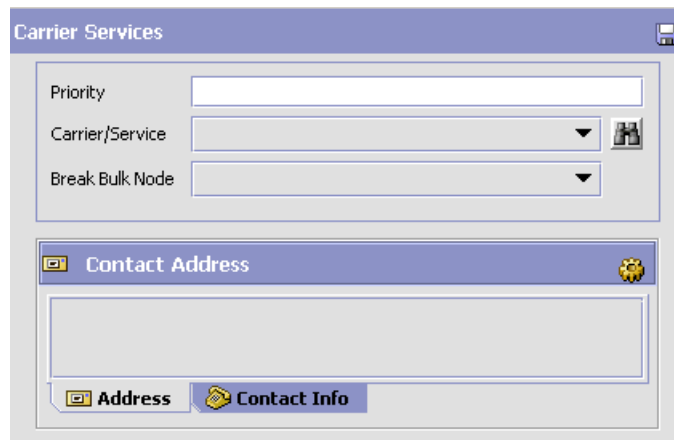
- [Creating a Carrier Service](#)

- [Modifying a Carrier Service](#)
- [Deleting a Carrier Service](#)

Creating a Carrier Service

To create a carrier service:

1. From the Routing Guidelines Details window, in the Carrier Services panel, select . The Carrier Services window appears.



The screenshot shows the 'Carrier Services' window. It has a title bar with the text 'Carrier Services' and a save icon. Below the title bar, there are three input fields: 'Priority' (a text box), 'Carrier/Service' (a dropdown menu with a small icon to its right), and 'Break Bulk Node' (a dropdown menu). Below these fields is a section titled 'Contact Address' with a small icon to its left and a save icon to its right. This section contains a large text area for input. At the bottom of the window, there are two tabs: 'Address' (selected) and 'Contact Info'.



2. Enter information in the applicable fields. Refer to [Table 5–6](#) for field value descriptions.
3. Choose .

Table 5–6 *Carrier Services*



Fields	Description
Priority	Enter a number to give this rule a relative importance. When a shipment is compared to the routing guide lines, there may be two carrier services that could be used. This priority serves as a tie breaker. The carrier service with the lowest number is used.
Carrier/Service	Select the carrier or service code that is desired.

Table 5–6 Carrier Services

Fields	Description
Break Bulk Node	Select the break bulk node that is close to the buyer.
Contact Address	This is used to specify the address information for the carrier service's contact person. Click  to change the contact Address.



Modifying a Carrier Service

To modify a carrier service:

1. From the Routing Guidelines Details window, in the Carrier Services panel, select a carrier service from the list in the Carrier Services list window, and select . The Carrier Services window appears.
2. Enter the new information in the applicable fields. Refer to [Table 5–6](#) for field value descriptions.
3. Choose .



Deleting a Carrier Service

To modify a carrier service:

1. From the Routing Guidelines Details window, in the Carrier Services panel, select a carrier service in the Carrier Services list window and select .
2. Choose .


5.4.2.2 Modifying a Routing Guide Line

To modify a routing guide line:

1. From the Routing Guidelines Details window, select the Routing Details Tab. A Routing Guide Line search window appears.
2. Select a routing guide line in the Routing Guide Line list window, and select . The Routing Guide Line Details window appears.
3. Enter the new information in the applicable fields. Refer to [Table 5–5](#) for field value descriptions.
4. Choose .


5.4.2.3 Deleting a Routing Guide Line

To delete a Routing Guide Line:

1. From the Routing Guide Lines Details window, select the Routing Details Tab. A Routing Guide Line search window appears.
2. Select a routing guide line in the Routing Guide Line list window, and choose .

5.4.3 Deleting a Routing Guide

To delete a routing guide:

1. From the tree in the application rules side panel, choose Cross Application > Logistics > Outbound Constraints. The Outbound Constraints window appears in the work area.
2. Select the applicable Routing Guide and choose .

Configuring Cross Application Pricing Components

You can configure the components used for pricing by the Yantra 7x financial engine throughout the Distributed Order Management business application module.

You can use the Financials branch for:

- [Defining Pricing by Region](#)
- [Defining Price Programs and Price Lists](#)

6.1 Defining Pricing by Region


You can define the region schema the organization you are configuring uses for product, delivery service, and provided service pricing.

For example, if you are configuring an organization that offers a delivery service that is associated with a region schema in which they deliver to a given metro area region and a suburb region, the organization may want to charge more for delivery in the metro area than the suburbs. In this case you would want to associate a region schema to configure different service pricing for the different regions.

For more information about region schemas, see the *Yantra 7x Platform Configuration Guide*.

To define pricing by region:

1. From the tree in the application rules side panel, choose Cross Application > Financials > Region Usage For Pricing. The Region Usage For Pricing pop-up window appears in the work area.

- 2. Enter information in the applicable fields. Refer to [Table 6–1](#) for field value descriptions.
- 3. Choose .

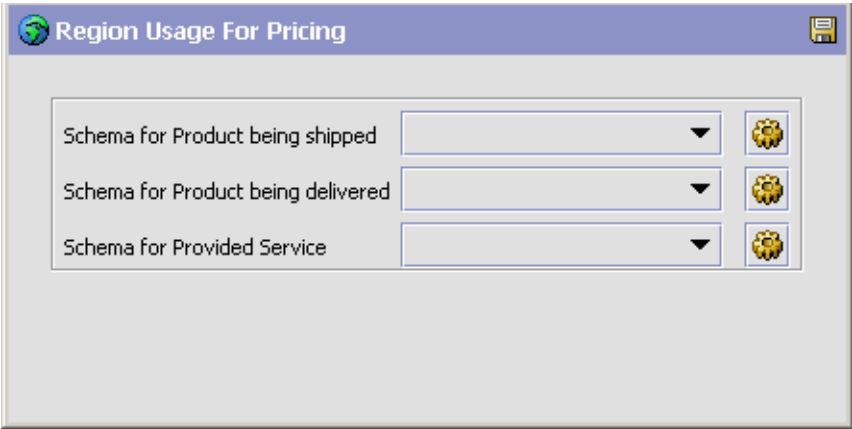


Table 6–1 Region Usage For Pricing Pop-Up Window

Field	Description
Schema for Product being shipped	Select the region schema you want to use for the organization's product item pricing.
Schema for Product being delivered	Select the region schema you want to use for the organization's delivery service pricing.
Schema for Provided Service	Select the region schema you want to use for the organization's provided service pricing.

6.2 Defining Price Programs and Price Lists

Note: This configuration is not required if you are using an external pricing engine.

A price program is a way to offer different pricing to different customers at different times. A price program may have one or more price lists.

Each price list defines pricing for a specific currency. A price program definition defines which price list to use for specific time period.

For example, you may want to set up a special price program for your best customers offering items at a discounted price if they order before Christmas. You can create two price lists; "Before" and "After". "Before" lists each item's discounted price before Christmas. "After" lists the item's regular price after Christmas. You can then create a price program to specify that between now and December 25, orders in that price program are calculated using "Before" and after December 25, using "After".

If a customer orders an item that is part of the price program, but falls outside of the specified date range, quantity range, or currency, the price is calculated as zero. In this case, the CSR must manually enter the price.

Important: You must select Allow Price Calculation For Draft Orders to apply pricing during draft order creation for the order document. You must select Allow Price Calculation For Confirmed Orders, if you want to apply pricing during both draft order confirmation and order creation. For more information about this parameter, see the *Yantra 7x Platform Configuration Guide*.



Use the Price Programs and Price Lists branches for:

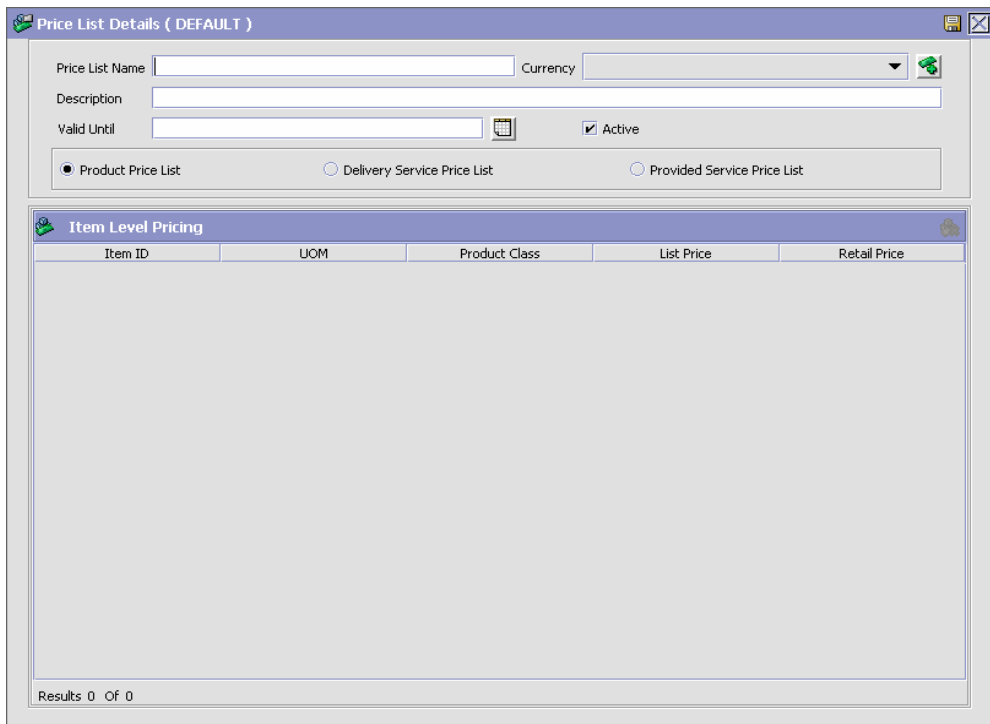
- [Creating a Price List](#)
- [Adding Items to a Price List](#)
- [Modifying an Item Price List](#)
- [Deleting an Item Price List](#)
- [Modifying a Price List](#)
- [Deleting a Price List](#)
- [Creating a Price Program](#)
- [Modifying a Price Program](#)
- [Deleting a Price Program](#)
- [Adding a New Price List to a Price Program](#)

- [Modifying a Price List](#)
- [Deleting a Price List in a Price Program](#)

6.2.1 Creating a Price List

To create a price list:

1. From the tree in the application rules side panel, choose Cross Application > Financials > Price Lists. The Price Lists window appears in the work area.
2. Choose . The Price List Details window is displayed.
3. Enter information in the applicable fields. Refer to [Table 6–2](#) for field values.
4. Choose .



The screenshot shows the 'Price List Details (DEFAULT)' window. It contains the following fields and controls:

- Price List Name:** A text input field.
- Currency:** A dropdown menu with a green plus icon to its right.
- Description:** A text input field.
- Valid Until:** A text input field with a calendar icon to its right.
- Active:** A checkbox that is currently checked.
- Radio Buttons:** Three radio buttons are present: 'Product Price List' (selected), 'Delivery Service Price List', and 'Provided Service Price List'.

Below these fields is a section titled 'Item Level Pricing' which contains a table with the following columns: Item ID, UOM, Product Class, List Price, and Retail Price. The table is currently empty. At the bottom left of the window, it says 'Results 0 Of 0'.

Table 6–2 Price List Details Window



Field	Description
Price List Name	Enter the name of the price list.
Currency	Select the currency that applies to the items in the price list.
Description	Enter a brief description of the price list.
Valid Until	Enter the date the price list is valid until.
Active	Select Active if you want the price list to be active in the system.
Product Price List	Select Product Price List if you want to create a price list for product items.
Delivery Service Price List	Select Delivery Service Price List if you want to create a price list for delivery services.
Provided Service Price List	Select Provided Service Price List if you want to create a price list for provided services.

You can use the Price List Details window for:

- [Adding Items to a Price List](#)
- [Modifying an Item Price List](#)
- [Deleting an Item Price List](#)

6.2.1.1 Adding Items to a Price List

To add items to a price list:

1. In the Price List Details window, choose  from the Item Level Pricing list. The Price List: Item Details window is displayed.
2. Enter information in the applicable fields. Refer to [Table 6–3](#) for field value descriptions.
3. Choose .

Price List: Item Details (DEFAULT)

Item ID: UOM:

Product Class:

List Price: Retail Price:

Unit Price By Quantity Range

Region Name	From Quantity	To Quantity	Unit Price
-------------	---------------	-------------	------------

Yantra 7x Configurator

Unit Price For A Quantity Range

Region:

From Quantity:




To Quantity:

Unit Price:



Results 0 Of 0

6.2.1.2 Modifying an Item Price List

Table 6–3 Price List: Item Details Window

Field	Description
Item ID	Enter the item ID for the item you are adding to the price list.
UOM	Select a unit of measure for the item.
Product Class	Select the product class the item falls under.
List Price	Enter the price the item is listed for.
Retail Price	Enter the price the item is sold for.
Unit Price By Quantity Range	<p>Once the item is created choose  to add item price set details.</p> <p>Choose  to modify a detail.</p> <p>Choose  to delete a detail.</p>
Region	<p>Enter the region that the item pricing is applicable to.</p> <p>For example, if you adding a delivery service item that delivers to both a metro region and a suburb region, but charges for delivery to the metro regions, you would create two records: one specifying the metro region and its pricing and one for the suburb region.</p> <p>Note: This field is optional. If left blank, the quantity pricing range works for any region.</p> <p>Note: The region specified here must be part of the region schema associated with the item you are creating. For more information about associating a region schema for pricing, see Section 6.1, "Defining Pricing by Region" on page 161.</p>
From Quantity	Enter the beginning amount for quantity pricing.
To Quantity	Enter the end amount for a price range based on purchase of a particular number of items.
Unit Price	Enter the cost per item for that start and end quantity.

To modify an item price list:



1. In the Price List Details window select the applicable item and choose  from the Item Level Pricing list. The Item Price Set Details window is displayed.
2. Enter information in the applicable fields. Refer to [Table 6–3](#) for field value descriptions.
3. Choose .

6.2.1.3 Deleting an Item Price List

To delete an item price list, in the Price List Details window, select the applicable item and choose .


6.2.2 Modifying a Price List

To modify a price list:

1. From the menu bar, choose Applications > Distributed Order Management. The Distributed Order Management tree is displayed in the side panel.
2. From the Distributed Order Management tree, choose Cross Application > Financials > Price Lists. The Price Lists window appears in the work area.
3. Select the applicable price list and choose . The Price Set Details window is displayed.
4. In Description, enter a brief description of the price list.
5. Choose .


6.2.3 Deleting a Price List

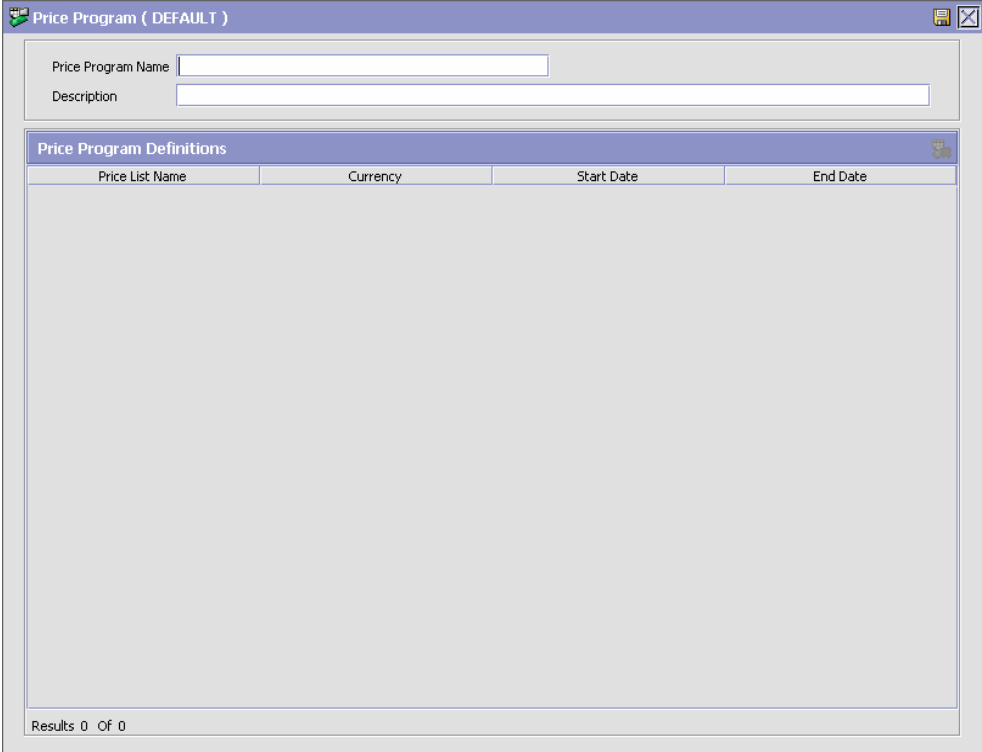
To delete a price list:

1. From the menu bar, choose Applications > Distributed Order Management. The Distributed Order Management tree is displayed in the side panel.
2. From the Distributed Order Management tree, choose Cross Application > Financials > Price Lists. The Price Lists window appears in the work area.
3. Select the applicable price list and choose .

6.2.4 Creating a Price Program


To create a price program:

1. From the menu bar, choose Applications > Distributed Order Management. The Distributed Order Management tree is displayed in the side panel.
2. From the Distributed Order Management tree, choose Cross Application > Financials > Price Programs. The Price Programs window appears in the work area.
3. Choose . The Price Program Details window is displayed.



The screenshot shows the 'Price Program (DEFAULT)' window. It has a title bar with a save icon and a close icon. Below the title bar, there are two text input fields: 'Price Program Name' and 'Description'. Below these fields is a section titled 'Price Program Definitions' which contains a table with four columns: 'Price List Name', 'Currency', 'Start Date', and 'End Date'. The table is currently empty. At the bottom left of the window, it says 'Results: 0 Of 0'.

Price List Name	Currency	Start Date	End Date
-----------------	----------	------------	----------


4. In Price Program Name, enter the name of the price program.
5. In Description, enter a brief description of the price program.
6. Choose .

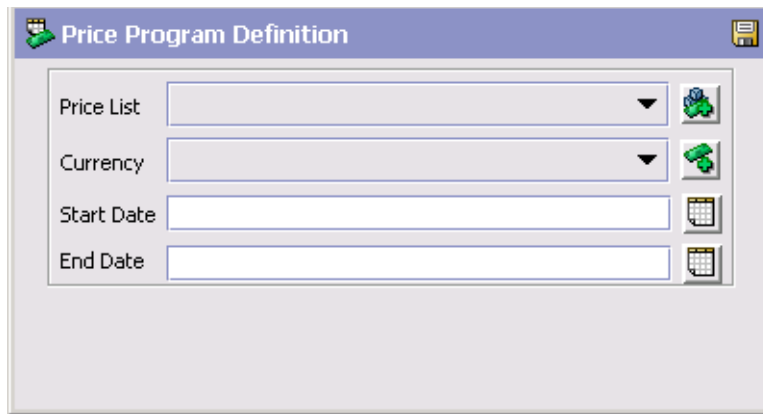
You can use the Price Program Details window for:

- [Adding a New Price List to a Price Program](#)
- [Deleting a Price List in a Price Program](#)


6.2.4.1 Adding a New Price List to a Price Program

To add a new price list to a price program:


1. In the Price Program Details window, choose  from the Price Program Definitions list. The Price Program Definition pop-up window is displayed.



The image shows a software window titled "Price Program Definition". It contains four input fields: "Price List", "Currency", "Start Date", and "End Date". Each field has a dropdown arrow on its right side. To the right of each dropdown is a small icon: a green plus sign for "Price List" and "Currency", and a calendar icon for "Start Date" and "End Date". At the bottom right of the window is a save icon (a floppy disk).



2. From Price List, select the price list you want to add to the price program.
3. From Currency, select the currency the price list is in.
4. In Start Date, enter the date that the pricing for the items in the price program begins.
5. In End Date, enter the date that the pricing for the items in the price program ends.
6. Choose .

6.2.4.2 Deleting a Price List in a Price Program

To delete a price list in a price program, from the Price Program Details window, select the applicable price list and choose .


6.2.5 Modifying a Price Program

To modify a price program:

1. From the tree in the application rules side panel, choose Cross Application > Financials > Price Programs. The Price Programs window appears in the work area.
2. Select the applicable Price Program and choose . The Price Program Details window is displayed.
3. In Description, enter a brief description of the price program.
4. Choose .

6.2.6 Deleting a Price Program

To delete a price program:

1. From the tree in the application rules side panel, choose Cross Application > Financials > Price Programs. The Price Programs window appears in the work area.
2. Select the applicable Price Program and choose .

Configuring Cross Application Payment Components

You can configure the components used in Yantra 7x to define the types of payment the system accepts and the rules surrounding payment collection.

You can use the Financials branch for:

- [Defining Payment Types](#)
- [Defining Payment Rules](#)

7.1 Defining Payment Types

You can define common codes for payment types. **Payment types** are the different methods of payment that can be used in financial transactions between organizations, for example, credit card or check.

The following are Yantra 7x's default payment types:



- CHECK
- CREDIT_CARD
- CUSTOMER_ACCOUNT
- OTHER

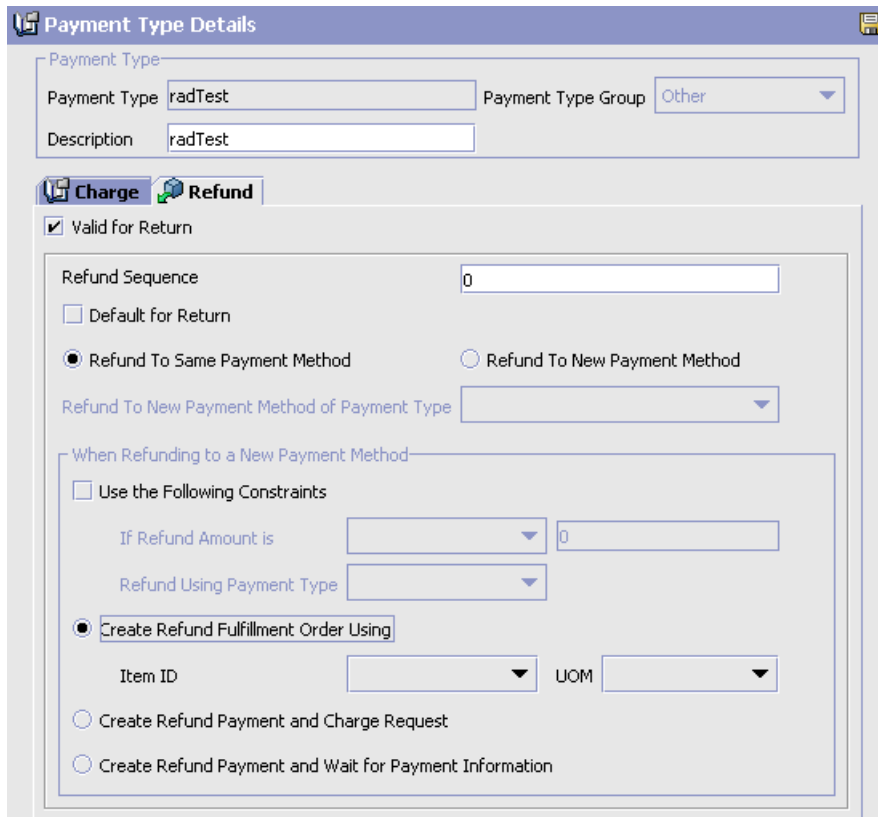
You can use the Payment Types branch for:

- [Creating a Payment Type](#)
- [Modifying a Payment Type](#)
- [Deleting a Payment Type](#)

7.1.1 Creating a Payment Type

To create a payment type:

1. From the tree in the application rules side panel, choose Cross Application > Financials > Payment Types. The Payment Types window appears in the work area.
2. Choose . The Payment Type Details pop-up window appears.
3. Enter information in the applicable fields. Refer to [Table 7–1](#) for field value descriptions.
4. Choose .



Payment Type Details

Payment Type: Payment Type Group:

Description:

Charge **Refund**

☒ Valid for Return

Refund Sequence:

☐ Default for Return

☒ Refund To Same Payment Method ☐ Refund To New Payment Method

Refund To New Payment Method of Payment Type:

When Refunding to a New Payment Method

☐ Use the Following Constraints

If Refund Amount is:

Refund Using Payment Type:

☒ Create Refund Fulfillment Order Using

Item ID: UOM:

☐ Create Refund Payment and Charge Request

☐ Create Refund Payment and Wait for Payment Information

Table 7–1 Payment Type Details Pop-Up Window

Field	Description
Payment Type	
Payment Type	Enter a name for the payment type.
Payment Type Group	Select a payment type group
Description	Enter a brief description of the payment type.
Charge	
Charge Sequence	<p>Enter the preferred charge sequence for the payment type, 0 being highest.</p> <p>When defining payment types you can set the default order in which payment types are charged. For example, if the Seller organization uses gift certificates and prefers to collect against the gift certificate and then collect any remaining amount against a credit card, you may configure a payment type of Gift Certificate to have a charge sequence of 1 and a payment type of Credit Card to have a charge sequence of 2. For more information about charge sequencing, see the <i>Yantra 7x Product Concepts</i>.</p>
Charge Instead of Authorize	<p>Select this field if you want to create a charge request for this payment type instead of an authorization request.</p> <p>This flag is used to trigger the GetFundsAvailable agent that determines the amount of funds available in the account.</p>
Charge Up To Available	Select this field to allowing charging up to the available amount. This field is only available for payment types in the Stored Value Card payment type group.

Table 7–1 Payment Type Details Pop-Up Window

Field	Description
Charge Consolidation Allowed	<p>Select Charge Consolidation Allowed if you want to consolidate charge requests.</p> <p>If this option is selected, when a charge transaction record is created the collection date for the record is set to the execution date of the authorization + the time you enter in the Consolidation Window (hrs) field. The collection date is the date (and time) after which the executeCollection time-triggered transaction picks up the record(s) for processing.</p> <p>If further charging is required for a given order for the same payment type, the existing charge transaction record is updated instead of a new record being inserted.</p> <p>Note: This flag is only applicable to Sales Order document types.</p> <p>Note: If the charge is not created from an authorization, it is not taken into consideration for consolidation.</p>
Consolidation Window (hrs)	If you selected Charge Consolidation Allowed, enter the timeframe (in hours) for charges to be consolidated within.
Refund	
Valid for Return	Select Valid for Return if this payment type can be credited according to the Seller's business practices.
Refund Sequence	<p>Enter the preferred refund sequence for the payment type, 0 being highest.</p> <p>When defining payment types you can set the default order in which the Seller credits a Buyer's payment types. For example, if the Seller organization prefers to credit a customer's account and then a customer's credit card, you may configure a payment type of Customer Account to have a refund sequence of 1 and a payment type of Credit Card to have a charge sequence of 2. For more information about refund sequencing, see the <i>Yantra 7x Product Concepts</i>.</p>

Table 7–1 Payment Type Details Pop-Up Window



Field	Description
Default for Return	Select Default for Return to designate this payment type as the default type to be credited in the Return Console. If an order does not have any payments valid for return, the payment type for which this is selected will be used to create a new payment record.
Refund To Same Payment Method	Select this field to allow refunds to the same payment method.
Refund To New Payment Method	Select this field to allow refunds to a new payment method.
Refund To New Payment Method of Payment Type	<p>If you selected 'Refund To New Payment Method' above, use this field to select a new payment type to use.</p> <p>Only payment types in the STORED VALUE CARD or OTHER payment type group are available.</p>
When Refunding to a New Payment Method	
Use the Following Constraints	<p>Select this option to denote that this payment type has a refund constraint.</p> <p>This allows you to issue a refund using a different payment type if the refund amount is greater than or less than a certain value.</p>
If The Refund Amount is	Choose 'Greater Than' or 'Less Than' from the drop-down menu, and enter a refund amount to use as a constraint.
Refund Using Payment Type	Choose a refund payment type to use if the constraint is valid.
Create Refund Fulfillment Order Using	Select this option to create a refund fulfillment order instead of creating a new payment method.
ItemID	From the dropdown menu select the Item ID of the item to fulfill the refund.
UOM	From the dropdown select the UOM of the item to fulfill the refund.

Table 7–1 Payment Type Details Pop-Up Window

Field	Description
Create Refund Payment and Charge Request	Select this option to create a refund payment and charge request when refunding to a new payment method.
Create Refund Payment and Wait for Payment Information	Select this option to not create a refund charge request. This will also raise the Incomplete Payment Information event, if it is enabled.


7.1.2 Modifying a Payment Type

To modify a payment type:

1. From the tree in the application rules side panel, choose Cross Application > Financials > Payment Types. The Payment Types window appears in the work area.
2. Select the applicable payment type and choose . The Payment Type Details pop-up window appears.
3. Enter information in the applicable fields. Refer to [Table 7–1](#) for field value descriptions.
4. Choose .

7.1.3 Deleting a Payment Type

To delete a payment type:

1. From the tree in the application rules side panel, choose Cross Application > Financials > Payment Types. The Payment Types window appears in the work area.
2. Select the applicable payment type and choose .

7.2 Defining Payment Rules

You can set up the rules that the organization uses at the time of payment collection.



You can use the Payment Rules branch for:

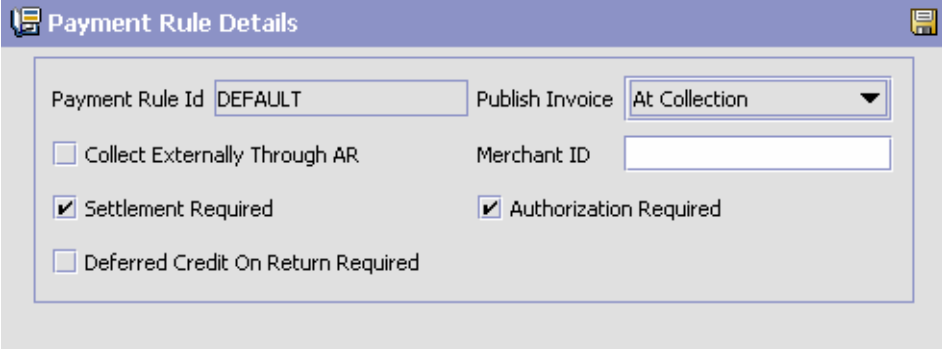
- [Creating a Payment Rule](#)

- [Modifying a Payment Rule](#)
- [Deleting a Payment Rule](#)

7.2.1 Creating a Payment Rule

To create a payment rule:

1. From the tree in the application rules side panel, choose Cross Application > Financials > Payment Rules. The Payment Rules window appears in the work area.
2. Choose . The Payment Rule Details pop-up window is displayed.
3. Enter information in the applicable fields. Refer to [Table 7–2](#) for field value descriptions.
4. Choose .



The image shows a 'Payment Rule Details' dialog box. It has a title bar with a document icon and a save icon. The dialog contains several fields and checkboxes. The 'Payment Rule Id' field is set to 'DEFAULT'. The 'Publish Invoice' dropdown menu is set to 'At Collection'. There are three checkboxes: 'Collect Externally Through AR' (unchecked), 'Settlement Required' (checked), and 'Deferred Credit On Return Required' (unchecked). There are also two more checkboxes: 'Authorization Required' (checked) and an empty 'Merchant ID' text field.

Payment Rule Id	DEFAULT	Publish Invoice	At Collection
<input type="checkbox"/> Collect Externally Through AR		Merchant ID	
<input checked="" type="checkbox"/> Settlement Required		<input checked="" type="checkbox"/> Authorization Required	
<input type="checkbox"/> Deferred Credit On Return Required			



Table 7–2 Payment Rule Pop-Up Window

Field	Description
Payment Rule ID	Enter the payment rule ID as you would like it to appear throughout the system.
Publish Invoice	<p>Choose At Creation to publish an order's invoice when it is created or after payment is collected on the invoice.</p> <p>Choose At Collection to publish an order's invoice after payment is collected on the invoice.</p> <p>Note: The PUBLISH_INVOICE_DETAIL event must be configured and the Send Invoice time-triggered transaction must be run for an invoice to be published.</p>
Collect Externally Through Accounts Receivable	<p>If checked, all the invoice details are published to an external accounts receivable system. Any collections performed outside of Yantra 7x need not be reported.</p> <p>If unchecked, Yantra 7x handles all financial collections, provided you have programmed the user exits to do so.</p> <p>Note: If using an external system to handle your accounts, Collect Externally Through Accounts Receivable must be checked and Settlement Required and Authorization Required must be unchecked.</p>
Merchant ID	If the Seller organization uses a third-party agency to handle payments, enter their merchant identifier.
Settlement Required	Select Settlement Required if payments require settlement before they can be processed.
Authorization Required	Select Authorization Required if payments require any type of authorization before they can be processed.
Deferred Credit On Return Required	Select Deferred Credit On Return Required if an event should be raised with the cancelled amount that was not refunded when part of a pre-collected order is cancelled.

7.2.2 Modifying a Payment Rule


To modify a payment rule:

1. From the tree in the application rules side panel, choose Cross Application > Financials > Payment Rules. The Payment Rules window appears in the work area.

2. Select the applicable payment rule and choose . The Payment Rule Details pop-up window is displayed.
3. Modify information in the applicable fields. Refer to [Table 7–2](#) for field value descriptions.
4. Choose .

7.2.3 Deleting a Payment Rule

To delete a payment rule:

1. From the tree in the application rules side panel, choose Cross Application > Financials > Payment Rules. The Payment Rules window appears in the work area.
2. Select the applicable payment rule and choose .

Configuring Cross Application Customer Components

You can define the customers that buy from an organization, and attributes about them such as their classification, primary information, and service preferences. You can use the Customer branch for:

- [Defining Customer Rules](#)
- [Defining Customer Definitions](#)
- [Defining Contact Types](#)

8.1 Defining Customer Rules

You can use the Customer Rules branch for:

- [Defining Customer Classifications](#)
- [Defining Additional Customer Rules](#)

8.1.1 Defining Customer Classifications


You can configure the customer classification codes to associate with a customer identification master. For more information about creating a customer identification master, see [Section 8.2, "Defining Customer Definitions"](#) on page 186.

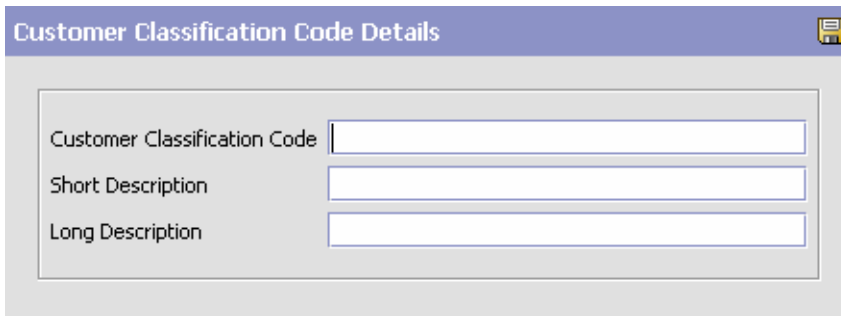
You can use the Customer Classification branch for:

- [Creating a Customer Classification](#)
- [Modifying a Customer Classification](#)
- [Deleting a Customer Classification](#)


8.1.1.1 Creating a Customer Classification

To create a customer classification:

1. From the tree in the application rules side panel, choose Cross Application > Customer > Customer Rules. The Customer Rules window appears in the work area.
2. Click the Customer Classification tab.
3. Click . The Customer Classification Code Details pop-up window appears.





The image shows a pop-up window titled "Customer Classification Code Details". It has a blue header bar with the title and a save icon. The main area is white and contains three text input fields. The first field is labeled "Customer Classification Code", the second is labeled "Short Description", and the third is labeled "Long Description".

4. In Customer Classification Code, enter the classification ID code.
5. In Short Description, enter a brief description of the classification ID code.
6. In Long Description, enter a more detailed description of the classification ID code.
7. Click .

8.1.1.2 Modifying a Customer Classification


To modify a customer classification:

1. From the tree in the application rules side panel, choose Cross Application > Customer > Customer Rules. The Customer Rules window appears in the work area.
2. Click the Customer Classification tab.
3. Select the applicable customer classification code and click . The Customer Classification Code Details pop-up window appears.

4. In Short Description, enter a brief description of the classification ID code.
5. In Long Description, enter a more detailed description of the classification ID code.
6. Click .

8.1.1.3 Deleting a Customer Classification

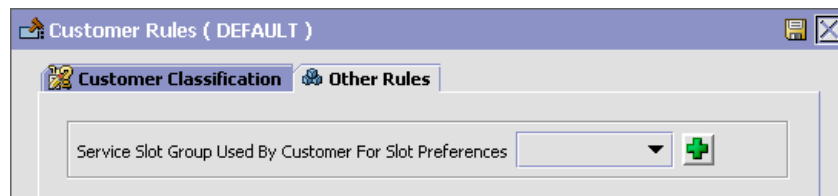
To delete a customer classification:


1. From the tree in the application rules side panel, choose Cross Application > Customer > Customer Rules. The Customer Rules window appears in the work area.
2. Click the Customer Classification tab.
3. Select the applicable customer classification code and click .

8.1.2 Defining Additional Customer Rules

To define additional customer rules:

1. From the tree in the application rules side panel, choose Cross Application > Customer > Customer Rules. The Customer Rules window appears in the work area.
2. Click the Other Rules tab.



3. In the Service Slot Group Used By Customer For Slot Preference field, select from the drop-down list the identifier of the service slot group that is used to define customer preferences.
4. Click .

8.2 Defining Customer Definitions


You can the configure customer definitions that establish a relationship between an organization and its Buyers. When creating a customer definition, you associate an existing Buyer organization with a specific customer ID and classification. The customer identification uniquely identifies the Buyer organization in instances where multiple ERP systems download Buyer information into Yantra 7x.

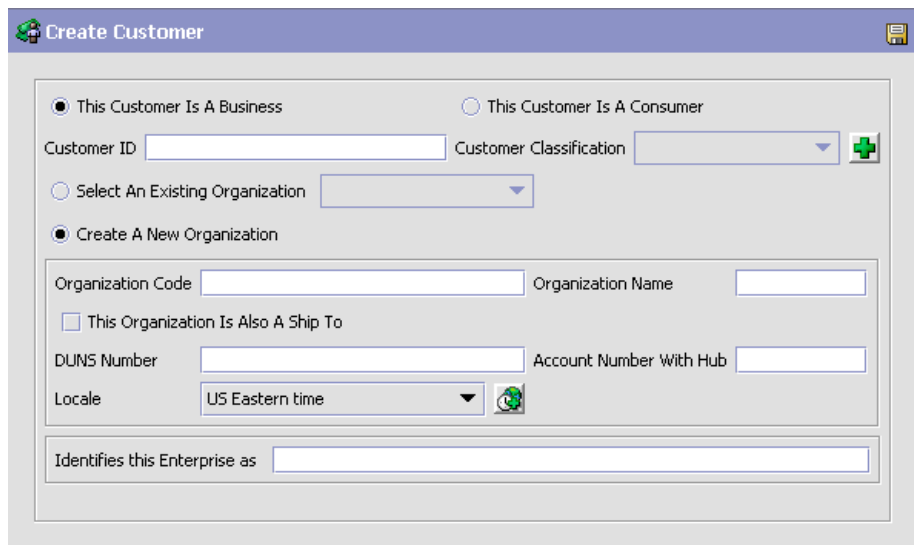
You can use the Customer Definition branch for:

- [Creating a Customer Definition](#)
- [Modifying a Customer Definition](#)
- [Deleting a Customer Definition](#)

8.2.1 Creating a Customer Definition


To create a customer definition:

1. From the tree in the application rules side panel, choose Cross Application > Customer > Customer Definitions. The Customer Search window appears in the work area.
2. Choose . The Customer pop-up window appears.



Create Customer

☒ This Customer Is A Business
 ☐ This Customer Is A Consumer

Customer ID
 Customer Classification 


☐ Select An Existing Organization

☒ Create A New Organization

Organization Code
 Organization Name

☐ This Organization Is Also A Ship To

DUNS Number
 Account Number With Hub

Locale 

Identifies this Enterprise as


3. Enter information into the applicable fields. Refer to [Table 8–1](#) for field value descriptions.
4. Choose .

Table 8–1 Customer Pop-Up Window



Field	Description
This Customer Is a Business	Select this if the customer with whom you trade participates as a company (as in a B2B scenario). If you choose this option, see Business Customer Details in this table for further information specific to this scenario.
This Customer Is a Consumer	Select this if the customer with whom you trade participates as an individual (as in a B2C scenario). If you choose this option, see Business Customer Details in this table for further information specific to this scenario.
Customer ID	Enter the unique Identifier.
Customer Classification	Select the classification, if applicable.
Business Customer Details	
Select Existing Organization	Choose this and select the applicable Buyer if you want to associate the customer ID with an existing Buyer organization.
Create A New Organization	Choose this if you want to create a new organization to associate with the customer.
Organization Code	If you chose Create Buyer Organization, enter the Buyer's organization code.
Organization Name	When creating a new organization, enter the Buyer's organization name.
This Organization Is Also a Ship To	When creating a new organization, choose this if the organization also functions as a receiving node.
DUNS Number	If you chose Create Buyer Organization, enter the Buyer's DUNS number.
Account Number With Hub	If you chose Create Buyer Organization, enter the Buyer's account number with the Hub organization.
Locale	If you chose Create Buyer Organization, select the Buyer's locale.

Table 8–1 Customer Pop-Up Window

Field	Description
Identifies this Enterprise as	Enter the customer assigned Vendor Identifier with which the customer identifies this enterprise.
Consumer Address Details	
Address	Enter the consumer's name and shipping address here.
Contact Info	Enter the consumer's telephone, cell phone, fax number, and e-mail address.

8.2.2 Modifying a Customer Definition

To modify a customer definition:

1. From the tree in the application rules side panel, choose Cross Application > Customer > Customer Definitions. The Customer Search window appears in the work area.
2. Enter applicable search criteria and choose . A list of customers is displayed.
3. Locate the applicable customer and choose . The Customer window appears.


You can use the customer window for:

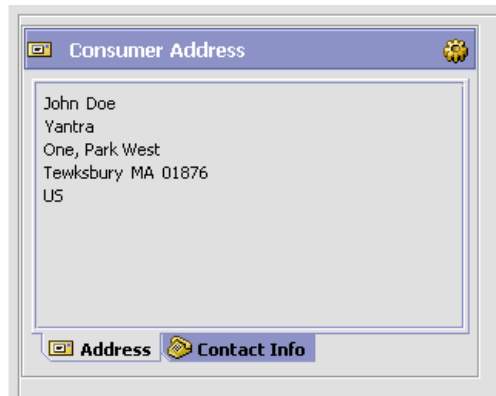
- [Defining the Customer's Primary Information](#)
- [Defining the Customer's Service Preferences](#)
- [Defining a Customer's Scheduling Preferences](#)

8.2.2.1 Defining the Customer's Primary Information


The information displayed on the Primary Information tab depends on what type of customer that has been defined:




8.2.2.1.1 If the Customer Is a Consumer

If the customer is a consumer, a consumer address panel is displayed. Click  to edit the address or contact information.



8.2.2.1.2 If the Customer Is a Business

If the customer is a business, an organization field appears, as well as a Ship To inner panel. You can click  to edit the organization details. For more information on configuring organizations, refer to the *Yantra 7x Platform Configuration Guide*.

A business customer may have as many ship to addresses as it may wish to define. A ship to address in Yantra 7x is defined as a node organization, therefore you can use the Ship To panel to add, modify or delete organizations to which products can alternatively be shipped. Use  to define a new one,  to modify an existing one, or  to delete an existing one.

While creating additional ship to addresses, you may want to specify an organization that is an independent buyer. When a customer is not a buyer organization, it cannot have multiple ship to addresses. Therefore, in the create window that pops up through the Ship To inner panel, the This Organization Is Also a Ship To radio button is replaced with a This Organization Is Also A Buyer radio button.

Organization

DEFAULT_NODE_01

Ship To

Customer ID

Organization

Also A Buyer

Customer Classification

Results 0 Of 0

8.2.2.2 Defining the Customer’s Service Preferences

Customers defined in Yantra 7x can specify slot preferences for deliveries. Depending on whether those

☐ Consider Supplemental Capacity While Planning Appointment By Default

When Appointments Are Planned For This Customer

☐ Any Slot Can Be Used

☐ Specific Slots Must Be Used

☒ Customer Prefers Specific Slots (Other Slots Can Be Used)

Slot Preferences

Slot	Start Time	End Time	Sun	Mon	Tue	Wed	Thu	Fri	Sat
Day	09:00:00	17:00:00	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Evening	18:00:00	20:00:00	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Table 8–2 Service Preferences Tab

Field	Description
Consider Supplemental Capacity While Planning Appointment By Default	Check this if you want to consider supplemental capacity by default when planning an appointment for this customer.
When Appointments Are Planned For This Customer	

Table 8–2 Service Preferences Tab

Field	Description
Any Slot Can Be Used	Check this if any slot can be used when planning an appointment for this customer. The Slot Preferences table is hidden then.
Specific Slots Must Be Used	Check this if only the slots specified in the Slot Preferences table can be used when planning an appointment for this customer.
Customer Prefers Specific Slots (Other Slots Can Be Used)	Check this if the slots specified in the Slot Preferences table preferred slot table
Slot Preferences	
Slot	The name of the slot.
Start Time	The start time of the slot, in 24 hour format.
End Time	The end time of the slot, in 24 hour format.
Sun	Check this if you want this slot to be part of the customer's preferred slots.
Mon	Check this if you want this slot to be part of the customer's preferred slots.
Tue	Check this if you want this slot to be part of the customer's preferred slots.
Wed	Check this if you want this slot to be part of the customer's preferred slots.
Thu	Check this if you want this slot to be part of the customer's preferred slots.
Fri	Check this if you want this slot to be part of the customer's preferred slots.
Sat	Check this if you want this slot to be part of the customer's preferred slots.

8.2.2.3 Answering a Customer's Address Questions

Answering address questions for a customer will populate answers for address questions the next time this customer places an order. From the Service Preferences tab, select the Address Questions tab. If configured, the address questions configured for the Enterprise will appear.

8.2.2.4 Defining a Customer’s Scheduling Preferences

You can define scheduling constraints for a specific customer by specifying these scheduling preferences. Refer to [Table 8–3](#) for more information.

Constraints

☒ Ship from Single Node

☒ Line Ship from Single Node

☐ Ship Complete

☒ Line Ship Complete

Inventory Controls

☐ Cancel Order For Inventory Shortage

☐ Allow Item Substitution If Inventory Is Not Available

Sourcing Controls

☒ Allow Scheduling Against The Node That Requires Drop Ship Chained Order Creation

Table 8–3 Scheduling Preferences Tab

Field	Description
Constraints	
Ship from Single Node	Check this box to ensure that orders are shipped from a single node. This automatically checks the Line Ship from Single Node checkbox.
Line Ship from Single Node	Check this box to ensure that order lines are shipped from a single node. This is disabled if the Ship from Single Node checkbox is checked.
Ship Complete	Check this box to ensure that orders are shipped complete. This automatically checks the Line Ship Complete checkbox.
Line Ship Complete	Check this box to ensure that order lines are shipped complete. This is disabled if the Ship Complete checkbox is checked.
Inventory Controls	
Cancel Order For Inventory Shortage	Check this box to cancel the backordered quantity in the event of inventory shortage.



Table 8–3 Scheduling Preferences Tab

Field	Description
Allow Item Substitution If Inventory Is Not Available	Check this box to allow item substitution if inventory for the selected item is not available.
Sourcing Controls	
Allow Scheduling Against The Node That Requires Drop Ship Chained Order Creation	Check this box to allow scheduling against the node that requires drop-ship chained order creation.

Note: Constraints passed at the order level override customer scheduling preferences.

8.2.3 Deleting a Customer Definition

To delete a customer definition:

1. From the tree in the application rules side panel, choose Cross Application > Customer > Customer Definitions. The Customer Search window appears in the work area.
2. Enter applicable search criteria and choose . A list of customers is displayed.
3. Locate the applicable customer and choose .

8.3 Defining Contact Types

You can configure the contact types when specifying the contact information of a customer on work order notes. For more information about creating a customer, see [Section 8.2, "Defining Customer Definitions"](#) on page 186.


You can use the Contact Types branch for:

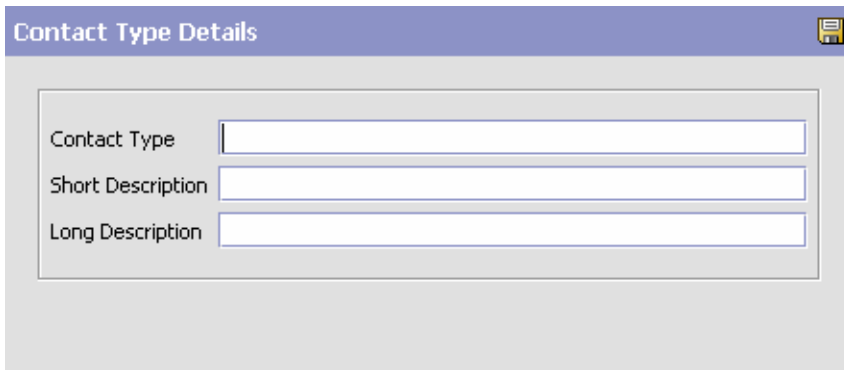
- [Creating a Contact Type](#)
- [Modifying a Contact Type](#)

- [Deleting a Contact Type](#)


8.3.1 Creating a Contact Type

To create a contact type:

1. From the tree in the application rules side panel, choose Cross Application > Customer > Contact Types. The Customer Contact Types window appears in the work area.
2. Click . The Contact Type Details pop-up window appears.





The image shows a pop-up window titled "Contact Type Details" with a save icon in the top right corner. Inside the window, there are three text input fields labeled "Contact Type", "Short Description", and "Long Description".

3. In Contact Type, enter the contact type.
4. In Short Description, enter a brief description of the contact type.
5. In Long Description, enter a more detailed description of the contact type.
6. Click .

8.3.2 Modifying a Contact Type


To modify a contact type:

1. From the tree in the application rules side panel, choose Cross Application > Customer > Contact Types. The Customer Contact Types window appears in the work area.
2. Select the applicable contact type and click . The Contact Type Details pop-up window appears.

3. In Short Description, enter a brief description of the contact type.
4. In Long Description, enter a more detailed description of the contact type.
5. Click .

8.3.3 Deleting a Contact Type

To delete a contact type:

1. From the tree in the application rules side panel, choose Cross Application > Customer > Contact Types. The Contact Types window appears in the work area.
2. Select the contact type and click .

Configuring a Document's Attributes

You can define common codes as they pertain to order documents viewed in the Application Consoles.

You can use the Order Attributes branch for

- [Defining Order Types](#)
- [Defining Order Sources](#)
- [Defining External References for the Order Level](#)
- [Defining External References for the Order Line Level](#)
- [Defining Order Address Types](#)
- [Defining Line Types](#)
- [Defining Other Attributes](#)

9.1 Defining Order Types


You can define codes for order types that appear on a document type. This code has no application logic associated with it and can be set up as per your business practices. Examples of order types are Consumer Orders, Service Rep Orders, and Retail Orders.

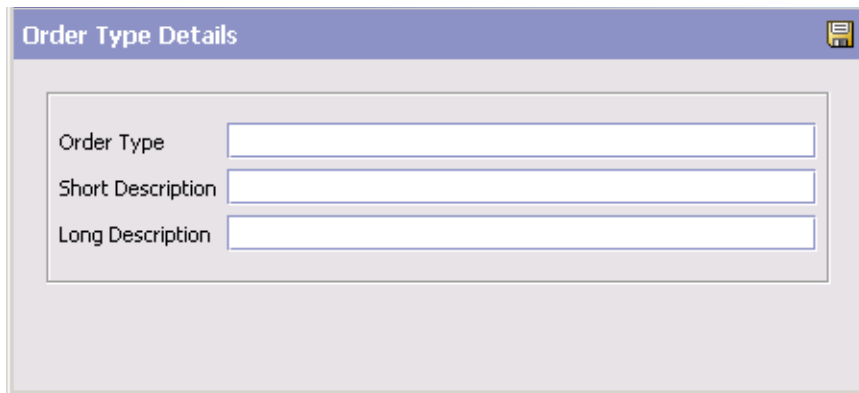
You can use the Order Types tab for:

- [Creating an Order Type](#)
- [Modifying an Order Type](#)
- [Deleting an Order Type](#)


9.1.1 Creating an Order Type

To create an order type:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Order Attributes. The Order Attributes window appears in the work area.
2. Choose the Order Types tab.
3. Choose . The Order Type Details pop-up window appears.





The image shows a pop-up window titled "Order Type Details". It has a light blue header bar with the title and a save icon. The main area is white and contains three text input fields. The first field is labeled "Order Type", the second is labeled "Short Description", and the third is labeled "Long Description". Each label is to the left of its corresponding input field.

4. In Order Type, enter the name of the order type.
5. In Short Description, enter a brief description of the order type.
6. In Long Description, enter a more detailed description of the order type.
7. Choose .

9.1.2 Modifying an Order Type


To modify a order type:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Order Attributes. The Order Attributes window appears in the work area.
2. Choose the Order Types tab.
3. Select the applicable order type and choose . The Order Type Details pop-up window appears.

4. In Short Description, enter a brief description of the order type.
5. In Long Description, enter a more detailed description of the order type.
6. Choose .

9.1.3 Deleting an Order Type

To delete a order type:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Order Attributes. The Order Attributes window appears in the work area.
2. Choose the Order Types tab.
3. Select the applicable order type and choose .

9.2 Defining Order Sources


You can define codes for order sources that appear on a document type. This code has no application logic associated with it and can be set up as per your business practices.

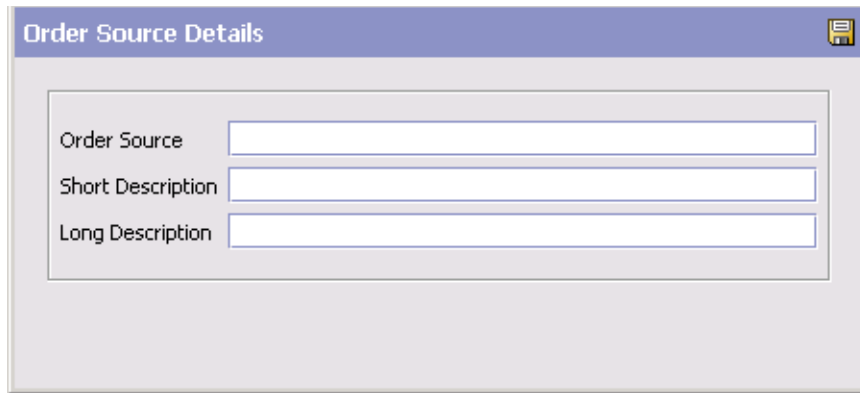
You can use the Order Sources tab for:


- [Creating an Order Source](#)
- [Modifying an Order Source](#)
- [Deleting an Order Source](#)

9.2.1 Creating an Order Source

To create an order source:



1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Order Attributes. The Order Attributes window appears in the work area.
2. Choose the Order Sources tab.
3. Choose . The Order Source Details pop-up window appears.

A screenshot of a software dialog box titled "Order Source Details". The dialog has a light gray background and a blue header bar with the title and a small icon. Inside the dialog, there is a white rectangular area containing three text input fields. The first field is labeled "Order Source", the second is labeled "Short Description", and the third is labeled "Long Description". Each label is to the left of its corresponding text box.

4. In Order Source, enter the name of the order source.
5. In Short Description, enter a brief description of the order source.
6. In Long Description, enter a more detailed description of the order source.
7. Choose .


9.2.2 Modifying an Order Source

To modify a order source:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Order Attributes. The Order Attributes window appears in the work area.
2. Choose the Order Sources tab.
3. Select the applicable order source and choose . The Order Source Details pop-up window appears.
4. In Short Description, enter a brief description of the order source.
5. In Long Description, enter a more detailed description of the order source.
6. Choose .

9.2.3 Deleting an Order Source

To delete a order source:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Order Attributes. The Order Attributes window appears in the work area.
2. Choose the Order Sources tab.
3. Select the applicable order source and choose .

9.3 Defining External References for the Order Level


You can define codes for external references that appear on a document type at the order level. This code has no application logic associated with it and can be set up as per your business practices. You can create, modify, and delete external references.

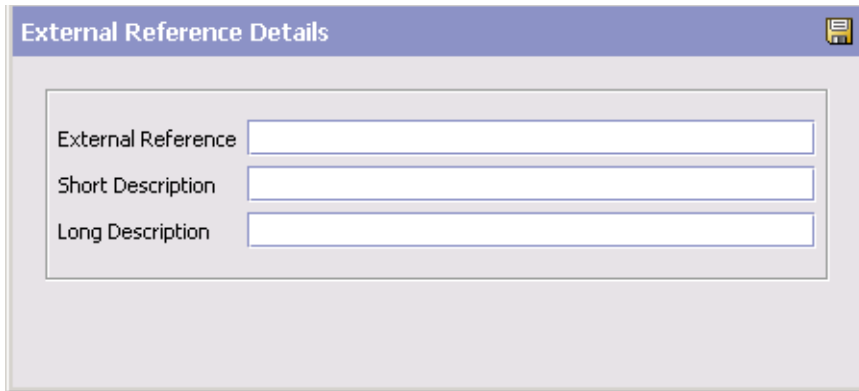
You can use the Order References tab for:


- [Creating an External Reference for the Order Header Level](#)
- [Modifying an External Reference for the Order Header Level](#)
- [Deleting an External Reference for the Order Header Level](#)

9.3.1 Creating an External Reference for the Order Header Level

To create an order reference for the order level:


1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Order Attributes. The Order Attributes window appears in the work area.
2. Choose the Order References tab.
3. From the Order Header External References list choose . The External Reference Details pop-up window appears.

A screenshot of a software dialog box titled "External Reference Details". The dialog has a light blue header bar with the title and a small icon on the right. Below the header is a light gray area containing three text input fields. The first field is labeled "External Reference", the second is labeled "Short Description", and the third is labeled "Long Description". Each label is to the left of its corresponding text box.

4. In External Reference, enter the name of the external reference.
5. In Short Description, enter a brief description of the external reference.
6. In Long Description, enter a more detailed description of the external reference.
7. Choose .

9.3.2 Modifying an External Reference for the Order Header Level


To modify an external reference for the order level:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Order Attributes. The Order Attributes window appears in the work area.
2. Choose the Order References tab.
3. In Order Header External References select the applicable external reference and choose . The External Reference Details pop-up window appears.
4. In Short Description, enter a brief description of the external reference.
5. In Long Description, enter a more detailed description of the external reference.

6. Choose .

9.3.3 Deleting an External Reference for the Order Header Level

To delete an external reference for the order level:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Order Attributes. The Order Attributes window appears in the work area.
2. Choose the Order References tab.
3. In Order Header External References select the applicable external reference and choose .

9.4 Defining External References for the Order Line Level


You can define codes for external references that appear on a document type at the order line level. This code has no application logic associated with it and can be set up as per your business practices. You can create, modify, and delete external references.

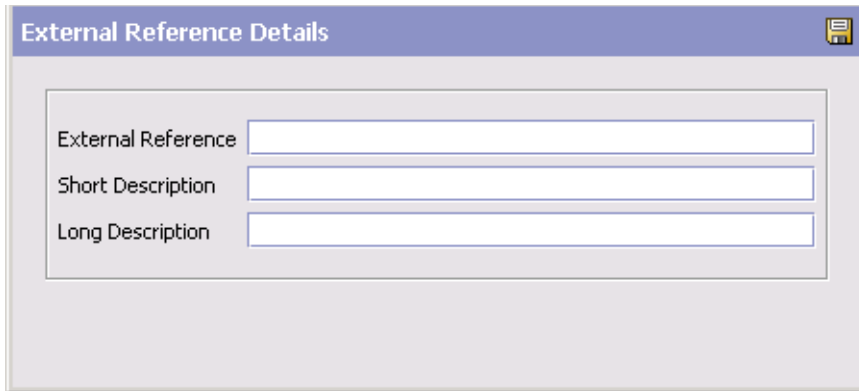
You can use the Order References tab for:


- [Creating an External Reference for the Order Line Level](#)
- [Modifying an External Reference for the Order Line Level](#)
- [Deleting an External Reference for the Order Line Level](#)

9.4.1 Creating an External Reference for the Order Line Level

To create an order reference for the order line level:


1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Order Attributes. The Order Attributes window appears in the work area.
2. Choose the Order References tab.
3. From the Order Line External References list choose . The External Reference Details pop-up window appears.


A screenshot of a software dialog box titled "External Reference Details". The dialog has a light blue header bar with the title and a small icon on the right. The main area is white and contains three text input fields. The first field is labeled "External Reference", the second is labeled "Short Description", and the third is labeled "Long Description". Each label is to the left of its corresponding input field. The dialog box has a standard Windows-style border.

4. In External Reference, enter the name of the external reference.
5. In Short Description, enter a brief description of the external reference.
6. In Long Description, enter a more detailed description of the external reference.
7. Choose .

9.4.2 Modifying an External Reference for the Order Line Level


To modify an external reference for the order line level:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Order Attributes. The Order Attributes window appears in the work area.
2. Choose the Order References tab.
3. In Order Line External References select the applicable external reference and choose . The External Reference Details pop-up window appears.
4. In Short Description, enter a brief description of the external reference.
5. In Long Description, enter a more detailed description of the external reference.

6. Choose .

9.4.3 Deleting an External Reference for the Order Line Level

To delete an external reference for the order level:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Order Attributes. The Order Attributes window appears in the work area.
2. Choose the Order References tab.
3. In the Order Line External References list select the applicable external reference and choose .

9.5 Defining Order Address Types


You can define codes for order address types that appear in the Additional Addresses view in the User Interface for a document type.

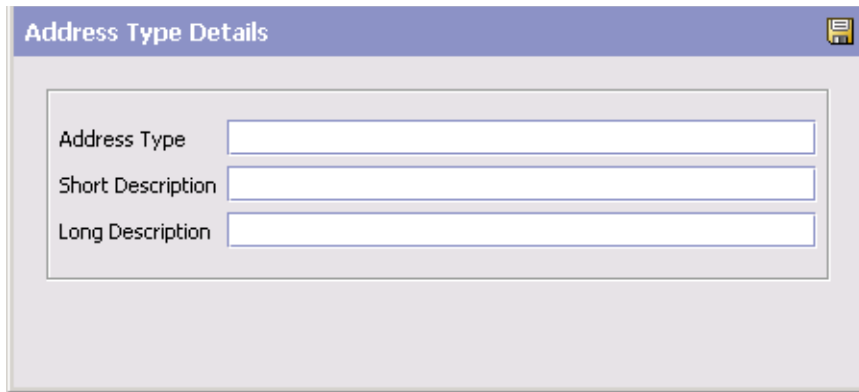
You can use the Order Address Types tab for:

- [Creating an Order Address Type](#)
- [Modifying an Order Address Type](#)
- [Deleting an Order Address Type](#)


9.5.1 Creating an Order Address Type

To create an order address type:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Order Attributes. The Order Attributes window appears in the work area.
2. Choose the Order Address Types tab.
3. Choose . The Order Address Type Details pop-up window appears.





The image shows a dialog box titled "Address Type Details". It has a light blue header bar with the title and a small icon on the right. The main area is white and contains three text input fields. The first field is labeled "Address Type", the second is labeled "Short Description", and the third is labeled "Long Description". Each label is to the left of its corresponding input field. The dialog box has a standard Windows-style border.

4. In Order Address Type, enter the name of the order address type.
5. In Short Description, enter a brief description of the order address type.
6. In Long Description, enter a more detailed description of the order address type.
7. Choose .


9.5.2 Modifying an Order Address Type

To modify a order address type:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Order Attributes. The Order Attributes window appears in the work area.
2. Choose the Order Address Types tab.
3. Select the applicable order address type and choose . The Order Address Type Details pop-up window appears.
4. In Short Description, enter a brief description of the order type.
5. In Long Description, enter a more detailed description of the order type.
6. Choose .

9.5.3 Deleting an Order Address Type

To delete a order address type:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Order Attributes. The Order Attributes window appears in the work area.
2. Choose the Order Address Types tab.
3. Select the applicable order address type and choose .

9.6 Defining Line Types



You can define codes and for line types that appear on a document type.

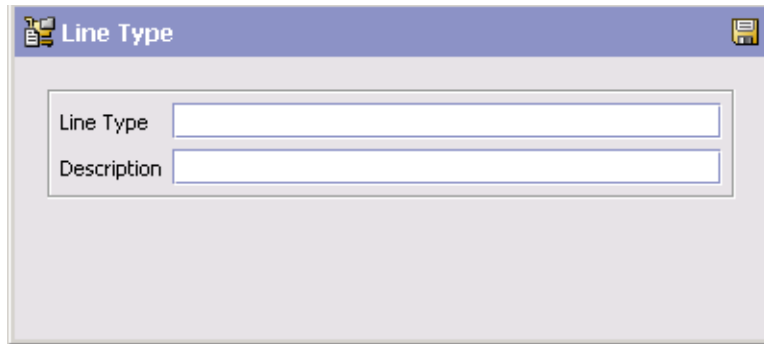
You can use the Line Types tab for:

- [Creating a Line Type](#)
- [Modifying a Line Type](#)
- [Deleting a Line Type](#)

9.6.1 Creating a Line Type



To create a line type:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Order Attributes. The Order Attributes window appears in the work area.
2. Choose the Line Types tab.
3. Choose . The Line Type Details pop-up window appears.
4. In Line Type, enter the name of the line type.
5. In Description, enter a brief description of the line type.
6. Choose .




9.6.2 Modifying a Line Type

To modify a line type:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Order Attributes. The Order Attributes window appears in the work area.
2. Choose the Line Types tab.
3. Select the applicable line type and choose . The Line Type Details pop-up window appears.
4. In Description, enter a brief description of the line type.
5. Choose .

9.6.3 Deleting a Line Type

To delete a line type:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Order Attributes. The Order Attributes window appears in the work area.
2. Choose the Line Types tab.
3. Select the applicable line type and choose .

9.7 Defining Other Attributes

You can define other attributes that appear on the document type.


You can use the Others tab for:

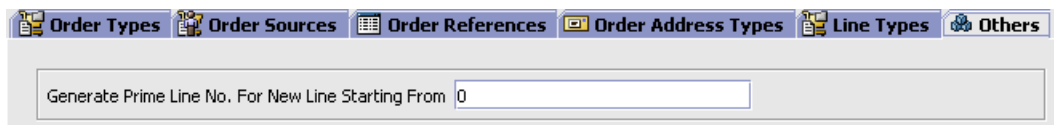
- [Generating a Prime Line Number for a New Line from a Pre-Configured Number](#)

9.7.1 Generating a Prime Line Number for a New Line from a Pre-Configured Number

Generating a prime line number for a new line from a pre-configured number prevents conflicts between prime line numbers in Yantra and in an external system when order synchronization occurs.

To specify a pre-configured starting number:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Order Attributes. The Order Attributes window appears in the work area.
2. Choose the Others tab.
3. In Generate Prime Line No. For New Line Starting From, enter the starting number.
4. Choose .




The screenshot shows the 'Order Attributes' window with the 'Others' tab selected. The 'Generate Prime Line No. For New Line Starting From' field is a text input box containing the number '0'.

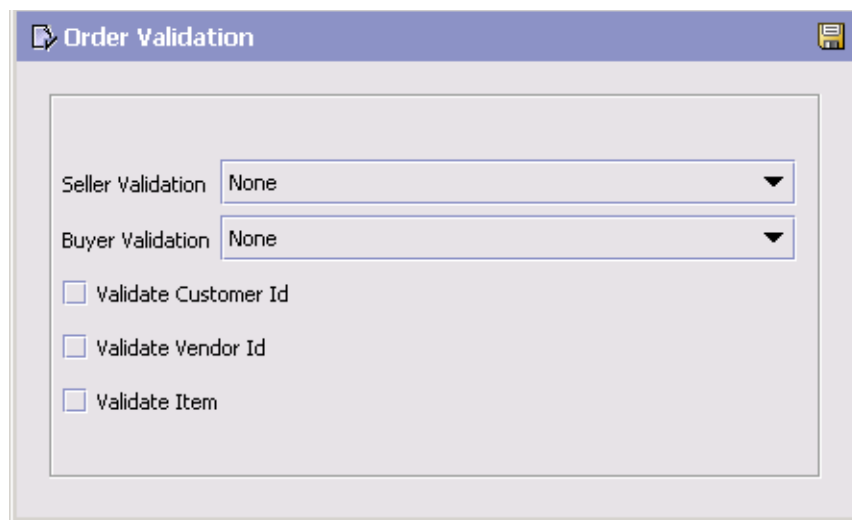
Configuring a Document's Order Validation

You can define configuration for defaulting Seller and Buyer validation during order creation for a particular Enterprise and document type. This validation is used to determine the Sellers and Buyers that are available to create an order for and narrows the search results in the Application Consoles based on the validation type you configured.

For example, you are configuring a Hub environment with 10 Enterprises, 50 Sellers, and 100 Buyers. A particular Enterprise only interacts with 10 of the 50 Sellers and 25 of the 100 Buyers as defined in the organization hierarchy. If you set both the Seller and Buyer validations to 'Defined In The Enterprise Hierarchy', when a user creates an order the system will verify that the Seller on the order is one of the 10 Sellers defined in the Enterprise's hierarchy and the Buyer on the order is one of the 25 Buyers defined in the Enterprise's hierarchy. Also, if the user chooses the lookup for either the Seller or Buyer fields, only the Sellers and Buyers defined for the Enterprise will appear in the results.

To define an order document's order validation:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Order Validation. The Order Validation pop-up window appears in the work area.
2. Enter information into the applicable fields. Refer to [Table 10–1](#) for field value descriptions.
3. Choose .



The image shows a software dialog box titled "Order Validation". It has a standard Windows-style title bar with a blue gradient and a yellow floppy disk icon in the top right corner. The main content area is light gray and contains two dropdown menus and three checkboxes. The first dropdown menu is labeled "Seller Validation" and has "None" selected. The second dropdown menu is labeled "Buyer Validation" and also has "None" selected. Below these are three checkboxes, each followed by a label: "Validate Customer Id", "Validate Vendor Id", and "Validate Item". All three checkboxes are currently unchecked.

Order Validation

Seller Validation None ▼

Buyer Validation None ▼

☐ Validate Customer Id

☐ Validate Vendor Id

☐ Validate Item

Table 10–1 Order Validation Pop-Up Window

Field	Description
Seller Validation	<p>Select the type of validation you want to use to verify the Seller on the order document.</p> <p>You can choose from the following options:</p> <ul style="list-style-type: none">• None - No validation is performed for Sellers on an order. All Sellers in the system can be used during order creation. Also, all Sellers in the system are displayed when the Seller lookup is chosen in the Application Consoles.• Same As Enterprise - The system validates the Seller on the order is the Enterprise. Defined In The Enterprise Hierarchy - The system validates that the Seller on the order is defined within the Enterprise's organizational hierarchy. Also, only the Sellers defined within the Enterprise's organizational hierarchy are displayed when the Seller lookup is chosen in the Application Consoles. For more information about configuring the organizational hierarchy, see the <i>Yantra 7x Platform Configuration Guide</i>.• Customer Of The Enterprise - The system validates that the Seller on the order has been configured as a customer. Also, only the organization's defined as customers of the Enterprise are displayed when the Seller lookup is chosen in the Application Consoles.

Table 10–1 Order Validation Pop-Up Window

Field	Description
Buyer Validation	<p>Select the type of validation you want to use to verify the Buyer on the order document.</p> <p>You can choose from the following options:</p> <ul style="list-style-type: none"> • None - No validation is performed for Buyers on an order. All Buyers in the system can be used during order creation. Also, all Buyers in the system are displayed when the Buyer lookup is chosen in the Application Consoles. • Same As Enterprise - The system validates the Buyer on the order is the Enterprise. • Defined In The Enterprise Hierarchy - The system validates that the Buyer on the order is defined within the Enterprise's organizational hierarchy. Also, only the Buyers defined within the Enterprise's organizational hierarchy are displayed when the Buyer lookup is chosen in the Application Consoles. For more information about configuring the organizational hierarchy, see the <i>Yantra 7x Platform Configuration Guide</i>. • Customer Of The Enterprise - The system validates that the Buyer on the order has been configured as a customer. Also, only the organization's defined as customers of the Enterprise are displayed when the Buyer lookup is chosen in the Application Consoles.
Validate Customer ID	Select Validate Customer ID if you want to validate that the customer ID on an order is defined for the Enterprise.
Validate Vendor ID	Select Validate Vendor ID if you want to validate that the vendor ID on an order is defined for the Enterprise.
Validate Item	Select Validate Item if you want to validate that the product items on the order belong to the Enterprises catalog. Service items, on the other hand, always need to exist within Yantra 7x.

11

Configuring a Document's Instruction Types

You can define the common codes used when adding special instructions to an order document.

The following are Yantra 7x's default instruction types:


- PICK
- PACK
- SHIP
- GIFT
- OTHER

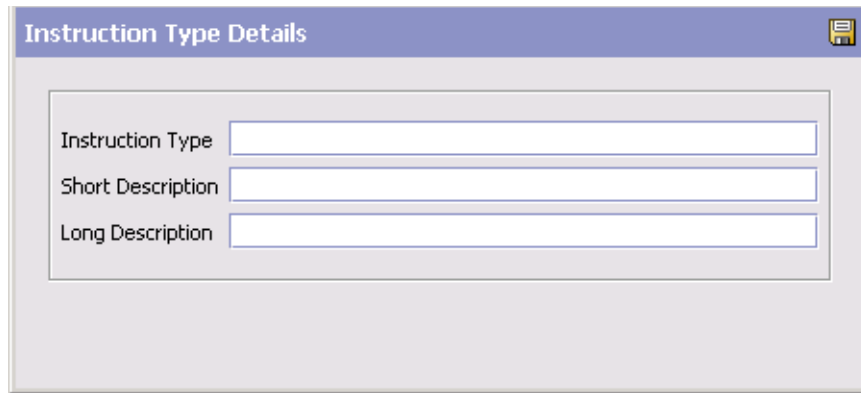
You can use the Instruction Types branch for:

- [Creating an Instruction Type](#)
- [Modifying an Instruction Type](#)
- [Deleting an Instruction Type](#)


11.1 Creating an Instruction Type

To create an instruction type:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Instruction Types. The Instruction Types window appears in the work area.
2. Choose . The Instruction Type Details pop-up window appears.





The screenshot shows a dialog box titled "Instruction Type Details". It contains three text input fields: "Instruction Type", "Short Description", and "Long Description". Each field is preceded by its label. The dialog box has a standard Windows-style title bar with a save icon in the top right corner.

3. In Instruction Type, enter the instruction type.
4. In Short Description, enter a brief description of the instruction type.
5. In Long Description, enter a more detailed description of the instruction type.
6. Choose .


11.2 Modifying an Instruction Type

To modify an instruction type:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Instruction Types. The Instruction Types window appears in the work area.
2. Select the applicable instruction type and choose . The Instruction Type Details pop-up window appears.
3. In Short Description, enter a brief description of the instruction type.
4. In Long Description, enter a more detailed description of the instruction type.
5. Choose .

11.3 Deleting an Instruction Type

To delete an instruction type:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Instruction Types. The Instruction Types window appears in the work area.
2. Select the applicable instruction type and choose .

12

Configuring a Document's Modification Reasons

You can define common codes for **modification reasons**. These codes define why a modification was made by a user in the Application Consoles.


Note: In addition to modification reasons, the codes that you define are used as hold reasons when you put an order on hold in the Application Consoles.

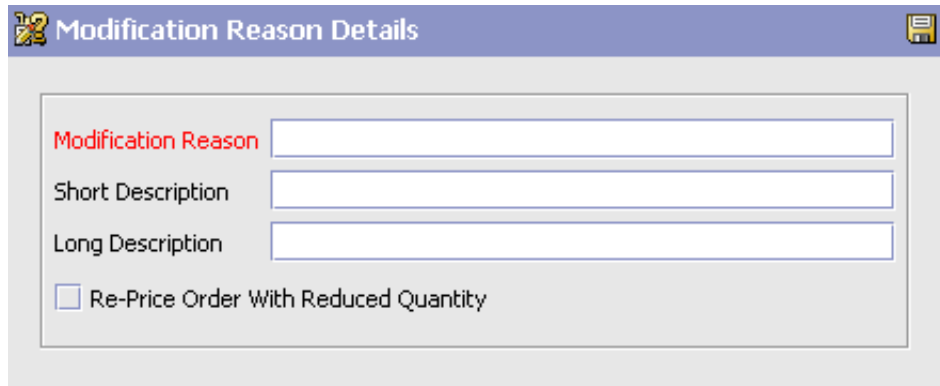
You can use the Modification Reasons branch for:

- [Creating a Modification Reason](#)
- [Modifying a Modification Reason](#)
- [Deleting a Modification Reason](#)

12.1 Creating a Modification Reason

To create a modification reason:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Modification Reasons. The Modification Reasons window appears in the work area.
2. Choose . The Modification Reason Details pop-up window appears.



Modification Reason Details

Modification Reason

Short Description

Long Description

☐ Re-Price Order With Reduced Quantity

3. In Modification Reason, enter the modification reason.
4. In Short Description, enter a brief description of the modification reason.
5. In Long Description, enter a more detailed description of the modification reason.
6. If this modification reason requires that the order be re-priced due to a reduced quantity, check the Re-Price Order With Reduced Quantity checkbox.

This flag is applicable only if this modification reason is used for cancellations, where re-pricing needs to occur against a reduced quantity: the quantity against which the order line is re-priced (re-pricing quantity) is adjusted to the reduced quantity. For more information on re-pricing quantity, refer to the *Yantra 7x Javadocs*.


Note: If this modification reason is used for a modification which does not reduce quantity, this flag is not applicable.

Note: This field does not exist for Load Modification Reasons.

7. Choose .

12.2 Modifying a Modification Reason

To modify a modification reason:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Modification Reasons. The Modification Reasons window appears in the work area.
2. Select the applicable modification reason and choose . The Modification Reason Details pop-up window appears.
3. In Short Description, enter a brief description of the modification reason.
4. In Long Description, enter a more detailed description of the modification reason.
5. If this modification reason requires that the order be re-priced due to a reduced quantity, check the Re-Price Order With Reduced Quantity checkbox.

This flag is applicable only if this modification reason is used for cancellations, where re-pricing needs to occur against a reduced quantity: the quantity against which the order line is repriced (re-pricing quantity) is adjusted to the reduced quantity. For more information on re-pricing quantity, refer to the *Yantra 7x Javadocs*.


Note: If this modification reason is used for a modification which does not reduce quantity, this flag is not applicable.

Note: This field does not exist for Load Modification Reasons.

6. Choose .

12.3 Deleting a Modification Reason

To delete a modification reason:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Modification Reasons. The Modification Reasons window appears in the work area.
2. Select the applicable modification reason and choose .

13

Configuring a Document's Backorder Reasons

You can define common codes for **backorder reasons**. These codes describe why an order was backordered.

The following is Yantra 7x's default backorder reason:


- No Stock

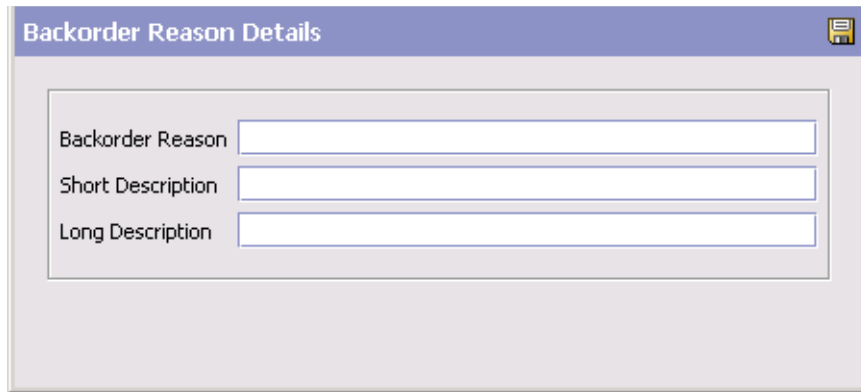
You can use the Backorder Reasons branch for:

- [Creating a Backorder Reason](#)
- [Modifying a Backorder Reason](#)
- [Deleting a Backorder Reason](#)

13.1 Creating a Backorder Reason


To create a backorder reason:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Backorder Reasons. The Backorder Reasons window appears in the work area.
2. Choose . The Backorder Reason Details pop-up window appears.





The screenshot shows a dialog box titled "Backorder Reason Details". It contains three text input fields with the following labels:

- Backorder Reason
- Short Description
- Long Description

3. In Backorder Reason, enter the backorder reason.
4. In Short Description, enter a brief description of the backorder reason.
5. In Long Description, enter a more detailed description of the backorder reason.
6. Choose .


13.2 Modifying a Backorder Reason

To modify a backorder reason:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Backorder Reasons. The Backorder Reasons window appears in the work area.
2. Select the applicable backorder reason and choose . The Backorder Reason Details pop-up window appears.
3. In Short Description, enter a brief description of the backorder reason.
4. In Long Description, enter a more detailed description of the backorder reason.
5. Choose .

13.3 Deleting a Backorder Reason

To delete a backorder reason:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Backorder Reasons. The Backorder Reasons window appears in the work area.
2. Select the applicable backorder reason and choose .

Configuring a Document's Note Reasons


You can define reason codes for entering a note. These codes define why a note was entered by a user in the Yantra 7x Application Consoles.

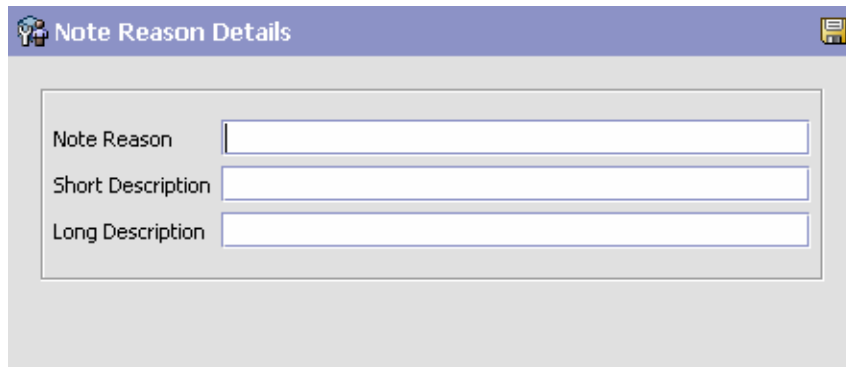
You can use the Note Reasons branch for:

- [Creating a Note Reason](#)
- [Modifying a Note Reason](#)
- [Deleting a Note Reason](#)


14.1 Creating a Note Reason

To create a note reason:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Note Reasons. The Note Reasons window appears in the work area.
2. Choose . The Note Reason Details window appears.





The screenshot shows a window titled "Note Reason Details" with a blue header bar. Inside the window, there are three text input fields stacked vertically. The first field is labeled "Note Reason", the second is labeled "Short Description", and the third is labeled "Long Description". Each label is to the left of its corresponding input field. The window has a standard icon in the top-left corner and a save icon in the top-right corner.

3. In Note Reason, enter the note reason as you want it to appear throughout the system.
4. In Short Description, enter a brief description of the note reason.
5. In Long Description, enter a more detailed description of the note reason.
6. Choose .



14.2 Modifying a Note Reason

To modify a note reason:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Note Reasons. The Note Reasons window appears in the work area.
2. Select the applicable appointment failure reason and choose . The Note Reason Details window appears.
3. In Short Description, enter a brief description of the note reason.
4. In Long Description, enter a more detailed description of the note reason.
5. Choose .


14.3 Creating a New Note Reason Based on an Existing One

To create a new note reason based on an existing one:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Note Reasons. The Note Reasons window appears in the work area.
2. Select the applicable note reason and choose . The Note Reason Details window appears.
3. Enter information in the applicable fields.
4. Choose .

14.4 Deleting a Note Reason

To delete a note reason:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Note Reasons. The Note Reasons window appears in the work area.
2. Select the applicable appointment failure reason and choose . The Confirmation window appears.
3. Choose OK.

Configuring a Document's Modification Components

You can configure the modification rules and types of a document when it is in a specific status. These rules determine which parts of a document can be modified as well as in which status the modifications can be performed.

If you are using the Distributed Order Management module, you can configure modification components at the following process type levels:

- Fulfillment
- Outbound Logistics

If you are using the Logistics Management module, you can configure modification components at the load process type level.

If you are using the Supply Collaboration module, you can configure modification components at the following process type levels:

- Fulfillment
- Inbound Logistics

If you are using the Reverse Logistics module, you can configure modification components at the following process type levels:

- Fulfillment
- Logistics
- Receipt

You can use the Order Modification branch for:

- [Defining Modification Rules](#)

- [Defining Custom Modification Types](#)
- [Defining Modifications Impacting Pricing](#)

15.1 Defining Modification Rules

Most documents flow through a pipeline without requiring any intervention by a customer service representative. However, there are times when modifications are required, such as changing credit card information or quantity. Yantra 7x supports modifications through the Yantra 7x Application Consoles and APIs. It is critical for you to decide which modifications are allowed for each modification type, modification level, and status combination.

Important: Contemplate business and system integration implications before allowing a modification that is disallowed as part of the system defaults. For example, adding instructions to a sales order document type is disallowed after the release has been sent to the node. If you change the modification to be allowed, the system has no way of communicating the new instruction to the node center because the release has already been sent.

The modification type indicates the type of modification carried out on a document. Yantra 7x provides the ability to perform modifications on specific attributes. An example of a modification type is adding an order line to an order.

Modification level indicates the level at which a particular modification type is carried out. These include the following levels:

- Header
- Line
- Release
- Release Line
- Negotiation
- Negotiation Line
- Shipment

- Receipt

For a complete list of the system modification types and their modification levels, see [Appendix B, "Order Modification Types"](#).

Modifications are applied to a particular level and a particular processing status. For example, if modifications are requested for a document at the header level or at the line level, then the order lines, as well as the order release lines, are picked up for validating whether or not modifications are allowed for those order statuses. If modifications are requested at the release or release line level, then order release lines are picked up for validating whether or not modifications are allowed for those order statuses.

You can group modifications in the Modification Rules window by modification type, modification level, or status, by selecting the corresponding grouping from Group By. The Modification Rules window then displays the grouping you have chosen in a hierarchical structure.

All modification rules operate within a certain system defined range. For instance, for Sales Orders, the Change Bill To modification on the order entity will always be defined to be in between the statuses 1000 (Draft Order Created) and 3350 (Included In Shipment). The system will never allow a Change Bill To modification at a status of 3700 (Return Created). On the other hand, you will be able to allow modifications in between the statuses 1000 and 3350. If an entity is in multiple statuses, the modification will be allowed provided that at least one of the statuses is within the system-defined range.

The following table defines the different settings you can apply to modifications:

Table 15–1 Order Document Type Rule Modifications

Field	Description
Status	Indicates each status that is applicable to a modification level and type.
Allow	Indicates whether or not modifications may be made at this modification level and type for the specified status.
Disallow	Indicates that no modifications may be made at this modification level and type for the specified status.

Table 15–1 Order Document Type Rule Modifications

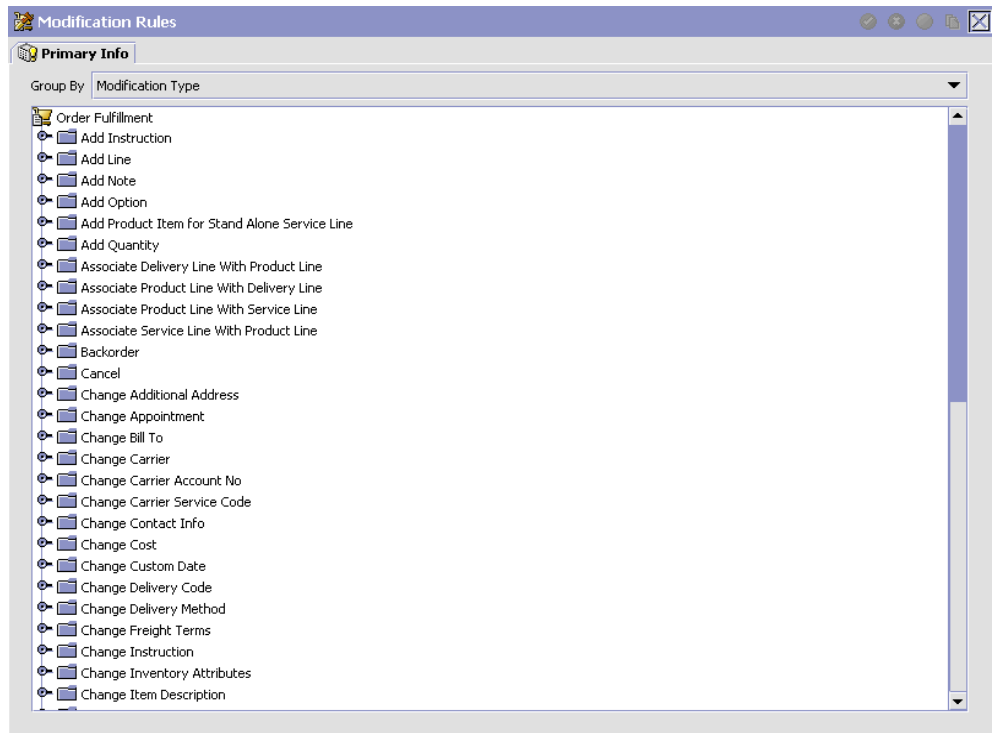
Field	Description
Ignore	Indicates that modifications are ignored at this modification level and type for the specified status.
<p>There are several scenarios to consider for the Allow, Disallow, and Ignore settings:</p> <ul style="list-style-type: none">• If one line is in status 1 and another line is in status 2 - and both statuses are set to Allow, the modification is allowed.• If one line is in status 1, another line is in status 2, and another is in status 3 - and the 1 and 2 statuses are set to Allow, but the 3 status is set to Disallow, all modifications are disallowed, because one of the currently applied statuses is disallowed.• If one line is in status 1 and one is in the extended status 2 - If the 1 status is set to Allow, but the extended status is set to Ignore (all extended statuses are defaulted to ignore, so that they pick up their base status settings unless you have explicitly overridden the setting) then all modifications are allowed only if the base status is set to allow. If the base status is set to disallow, then all modifications are disallowed. <p>If all lines are set to Ignore, then all modifications are disallowed, regardless of the base status settings.</p>	

Note: Application Console users can be granted permission to override the modification rules through user group permissions. When a user has been granted this permission, they can still perform a modification that has been disallowed within the Application Consoles. For more information about configuring user group permissions, see the *Yantra 7x Platform Configuration Guide*.

15.1.1 Changing Modification Rules

To change modification rules:

1. From the tree in the application rules side panel, choose Document Specific > (Document Type) > (Process Type) > (Process Type) Modification > (Process Type) Modification Rules. The Modification Rules window appears in the work area.



2. Expand the applicable modification types and levels for which you want to set up rules.
3. Right click on the applicable rule and choose allow, disallow, or ignore as per your business practices. Refer to [Table 15–1](#) for field value descriptions.

15.2 Defining Custom Modification Types

You can define custom modification types for a process type. Creating a modification type allows you to classify certain attributes (including extended attributes) into one group for which rules that determine when these attributes can and cannot be modified can be defined.

Once created, the custom modification type appears under the modification rules for the business document of the process type you are defining. From there you can decide whether to allow, disallow, or ignore



the custom modification type for a given status. For more information about modification types and rules see [Section 15.1, "Defining Modification Rules"](#) on page 234.

You can use the Order Modification Types branch for:

- [Creating a Custom Modification Type](#)
- [Modifying a Custom Modification Type](#)
- [Deleting a Custom Modification Type](#)

15.2.1 Creating a Custom Modification Type

To create a custom modification type:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > (*Process Type*) > (*Process Type*) Modification > (*Process Type*) Modification Types. The Custom Modification List window appears in the work area.
2. From the Custom Modification List, choose . The Custom Modification window appears. Enter information in the applicable fields. Refer to [Table 15–2](#) for field level descriptions.
3. Choose . A pop-up warning you to sign out of the application for changes to take place appears.



The screenshot shows a window titled "Custom Modification". It contains the following fields and controls:

- Modification Level:** A dropdown menu.
- Modification Type:** A text input field.
- Description:** A text input field.
- Min Allowed Status:** A dropdown menu.
- Max Allowed Status:** A dropdown menu.
- Available:** A list box with a header "XML Attribute Name".
- Subscribed:** A list box with a header "XML Attribute Name".
- Navigation:** Two buttons with right and left arrows between the Available and Subscribed lists.

Table 15–2 Custom Modification Window



Field	Description
Modification Level	Select the level of the modification type. For example, Header, Line, or Release.
Modification Type	Enter the name of the modification type.
Description	Enter a brief description of the modification type.
Min. Allowed Status	Select the minimum status the modification type can be performed at.
Max Allowed Status	Select the maximum status the modification type can be performed at.

Table 15–2 Custom Modification Window

Field	Description
Available	A list of XML attributes that can be associated with the modification type. To add an available attribute to the modification type, select the attribute you want to add and choose  .
Subscribed	A list of XML attributes that have been associated with the modification type. To remove a subscribed attribute, select the attribute you want to remove and choose  .


15.2.2 Modifying a Custom Modification Type

To modify a custom modification type:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > (*Process Type*) > (*Process Type*) Modification > (*Process Type*) Modification Types. The Custom Modification List window appears in the work area.
2. From the Custom Modification List, locate the applicable Custom Modification and choose . The Custom Modification window appears.
3. Enter information in the applicable fields. Refer to [Table 15–2](#) for field level descriptions.
4. Choose .

15.2.3 Deleting a Custom Modification Type

To delete a custom modification type:





1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > (*Process Type*) > (*Process Type*) Modification > (*Process Type*) Modification Types. The Custom Modification List window appears in the work area.
2. From the Custom Modification List, locate the applicable Custom Modification and choose .

15.3 Defining Modifications Impacting Pricing

You can specify whether a modification type impacts pricing on an order. When modifications of these modification types occur, `OrderRepricingUE` is called to update price and charge information at the level indicated for that modification type. For more information on `OrderRepricingUE` refer to the *Yantra 7x Javadocs*.

15.3.1 Adding/Removing a Modification Type for Modifications Impacting Pricing

To specify whether a modification type has pricing impact:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > (*Process Type*) > (*Process Type*) Modification > Modifications Impacting Pricing. The Modifications Impacting Pricing List window appears in the work area.
2. From the Modifications Impacting Pricing List, choose . The Modification Type List window appears.
3. To add a modification type to the Modifications Impacting Pricing list, select the desired modification type(s) from the Modification Types and choose .
4. To remove a modification type from the Modifications Impacting Pricing list, select the desired modification type(s) from the Modification Types and choose .
5. Choose .

Configuring an Order Document's Fulfillment Specific Components

To complete an order document's lifecycle, each document has a set of different processes that it can go through. These processes are called process types. Every order document has a defined set of process types in Yantra 7x.

The following process types are defined in Yantra 7x for the order document types:

- Order Fulfillment
- Order Negotiation
- Outbound Shipment

You can configure the rules and components specific to an order document's fulfillment process type.

You can use process type configuration for:

- [Defining Hold Types](#)
- [Defining Fulfillment Rules](#)
- [Defining Process Type Details](#)
- [Process Type Pipeline Configuration](#)
- [Defining Transaction Rules](#)
- [Defining Status Inventory Types](#)
- [Defining Monitoring Components](#)
- [Defining Monitoring Events](#)

16.1 Defining Hold Types

Orders can be placed on hold manually or automatically, by applying a particular hold type. Certain transactions can be configured to not process documents that are on a given hold. Likewise, modification types can be configured to not process documents that are on a given hold. By default, all transactions and modification types are allowed to process all documents for all hold types.



The transactions that can be prevented from processing orders on a given hold type have the checkbox `This Transaction Can Be Stopped From Processing Orders That Are On Hold` checked in the `Others` tab of the transaction details. For more information about viewing transaction details, refer to the *Yantra 7x Platform Configuration Guide*.


You can use the Hold Types branch for:


- [Creating a Hold Type](#)
- [Modifying a Hold Type](#)
- [Deleting a Hold Type](#)

16.1.1 Creating a Hold Type

To create a hold type:

1. From the tree in the application rules side panel, choose `Document Specific > (Document Type) > Fulfillment > Hold Types`. The Hold Types window is displayed in the work area.
2. Click . The Hold Type pop-up window appears. The type of this hold in the Hold Type field, and its description in the Description field. Enter the rest of the information in the applicable fields. Refer to [Table 16–1](#), [Table 16–2](#) and [Table 16–3](#) for field value descriptions.
3. Click .

 Hold Type



Hold Type

Hold Type Description

Hold Creation

Hold Resolution

Hold Effects

Hold Created Automatically


☐ On Draft Order Creation

☐ On Draft Order Confirmation

☐ On Order Creation

☐ On Resolution Of The Hold Type

☐ When The Following Modifications Are Performed



Modification Type

Modification Level


☒ For All Orders

☐ Only For Orders Satisfying The Following Condition

Hold Created Manually

☒ By Any User

☐ By Users Who Belong To The Following Groups



Group ID

Group Name

Table 16–1 Hold Type window, Hold Creation tab

Field	Description
Hold Created Automatically	
On Draft Order Creation	Check this to apply this hold type to all orders on draft order creation.
On Draft Order Confirmation	Check this to apply this hold type to all orders on draft order confirmation.
On Order Creation	Check this to apply this hold type to all orders on order creation.

Configuring an Order Document’s Fulfillment Specific Components 245

Table 16–1 *Hold Type window, Hold Creation tab*



Field	Description
On Resolution Of The Hold Type	<p>Check this to apply this hold type on resolution of another hold type. Select from the drop-down list the hold type that, upon resolution, will trigger this hold type.</p> <p>Note: Yantra 7x will not check whether or not you are defining a circular hold type definition. For example, if you define hold type B as being applied on resolution of hold type A, and hold type A as being applied on resolution of hold type B, you could create an infinite loop that Yantra 7x will not warn you against.</p>
When The Following Modifications Are Performed	<p>Modification types that automatically apply this hold type to an order.</p> <p>Click  to modify the list. In the subsequent pop-up window:</p> <ul style="list-style-type: none"> • Use the right arrow to move the available modification types that you wish to associate with this hold type to the subscribed list. • Use the left arrow to unsubscribe the modification types that you wish to disassociate with this hold type and move them back into the available list.
For All Orders	<p>Select this radio button if the above conditions should be checked for all orders.</p> <p>Note: This option will only be selectable once the created hold has been saved.</p>
Only For Orders Satisfying The Following Condition	<p>Select this radio button if the above conditions should only be checked for orders satisfying a certain condition. Click  to build or modify the condition that will be evaluated. For more information on using the condition builder, refer to the <i>Yantra 7x Platform Configuration Guide</i>.</p> <p>The available attributes for this condition can be extended. For more information, refer to the <i>Yantra 7x Customization Guide</i>.</p> <p>Note: This option will only be selectable once the created hold has been saved.</p>
Hold Created Manually	

Table 16–1 Hold Type window, Hold Creation tab


Field	Description
By All Users	Select this radio button if all user groups can apply this hold to an order.
By Users Who Belong To The Following Groups	<p>Select this radio button if only users belonging to certain user groups may apply this hold to an order.</p> <p>Click  to modify the list. In the subsequent pop-up window:</p> <ul style="list-style-type: none"> • Use the right arrow to move the available user groups that you wish to associate with this hold type to the subscribed list. • Use the left arrow to unsubscribe the user groups that you wish to disassociate with this hold type and move them back into the available list.

Table 16–2 Hold Type window, Hold Resolution tab

Field	Description
Hold Resolved Automatically	
The Following Time-Triggered Transaction Will Process Created Holds	From the drop-down list, select the time-triggered transaction that will process created holds.
The Following Time-Triggered Transaction Will Process Rejected Holds	from the drop-down list, select the time-triggered transaction that will process rejected holds.
Hold Resolved Manually	

Table 16–2 *Hold Type window, Hold Resolution tab*






Field	Description
By All Users	Select this radio button if all user groups may process this hold.
By Users Who Belong To The Following Groups	<p>Select this radio button if only users belonging to certain user groups may process this hold.</p> <p>Click  to modify the list. In the subsequent pop-up window:</p> <ul style="list-style-type: none"> • Use the right arrow to move the available user groups that you wish to associate with this hold type to the subscribed list. • Use the left arrow to unsubscribe the user groups that you wish to disassociate with this hold type and move them back into the available list.

Table 16–3 Hold Type window, Hold Effects tab


Fields	Description
The Following Transactions Will Be Stopped From Processing Orders On This Hold	<p>Transactions that are disallowed when this hold type is applied to an order.</p> <p>Click  to modify the list. In the subsequent pop-up window:</p> <ul style="list-style-type: none"> Use the right arrow to move the available modification types that you wish to associate with this hold type to the subscribed list. <p>Use the left arrow to unsubscribe the modification types that you wish to disassociate with this hold type and move them back into the available list.</p>
The Following Modifications Are Not Allowed For Orders On This Hold	<p>Modification types that are disallowed when this hold type is applied to an order.</p> <p>Click  to modify the list. In the subsequent pop-up window:</p> <ul style="list-style-type: none"> Use the right arrow to move the available transactions that you wish to associate with this hold type to the subscribed list. <p>Use the left arrow to unsubscribe transactions that you wish to disassociate with this hold type and move them back into the available list.</p>

16.1.2 Modifying a Hold Type

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Fulfillment > Hold Types. The Hold Types window is displayed in the work area.
2. Select the applicable hold type and click . The Hold Type pop-up window appears. Enter information in the applicable fields. Refer to [Table 16–1](#), [Table 16–2](#) and [Table 16–3](#) for field value descriptions.
3. Click .

16.1.3 Deleting a Hold Type


1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Fulfillment > Hold Types. The Hold Types window is displayed in the work area.

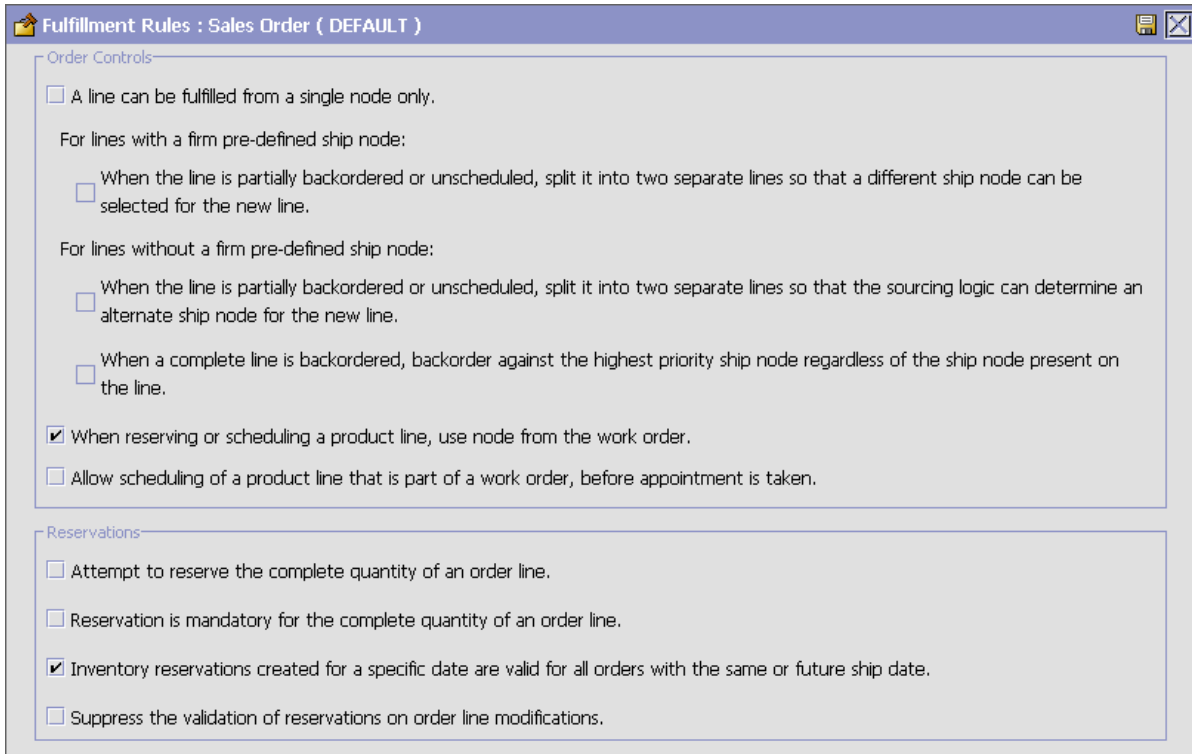
2. Select the applicable hold type and click .

16.2 Defining Fulfillment Rules

You can define generic rules that Yantra 7x uses at order fulfillment time. These can affect order controls and reservations.

To define fulfillment rules:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Fulfillment > Fulfillment Rules. The Fulfillment Rules window is displayed in the work area.
2. Enter information in the applicable fields. Refer to [Table 16–4](#) for field value descriptions.
3. Click .



Fulfillment Rules : Sales Order (DEFAULT)

Order Controls

- ☐ A line can be fulfilled from a single node only.
- For lines with a firm pre-defined ship node:
 - ☐ When the line is partially backordered or unscheduled, split it into two separate lines so that a different ship node can be selected for the new line.
- For lines without a firm pre-defined ship node:
 - ☐ When the line is partially backordered or unscheduled, split it into two separate lines so that the sourcing logic can determine an alternate ship node for the new line.
 - ☐ When a complete line is backordered, backorder against the highest priority ship node regardless of the ship node present on the line.
- ☒ When reserving or scheduling a product line, use node from the work order.
- ☐ Allow scheduling of a product line that is part of a work order, before appointment is taken.

Reservations

- ☐ Attempt to reserve the complete quantity of an order line.
- ☐ Reservation is mandatory for the complete quantity of an order line.
- ☒ Inventory reservations created for a specific date are valid for all orders with the same or future ship date.
- ☐ Suppress the validation of reservations on order line modifications.

Table 16–4 Order Fulfillment window

Field	Description
Order Controls	
A line can be fulfilled from a single node only	Check this if you want any quantity of an order line to be shipped from the same ship node. Checking this enables the three checkboxes below to be checked.
For lines with a firm pre-defined ship node:	
When the line is partially backordered or unscheduled, split it into two separate lines so that a different ship node can be selected for the new line	Check this if you want Yantra 7x to automatically split partially backordered or unscheduled lines into two separate lines. This allows the user to manually assign a new ship node for the backordered portion of the line, so that the entire original order line may be shipped.
For lines without a firm pre-defined ship node:	
When the line is partially backordered or unscheduled, split it into two separate lines so that the sourcing logic can determine an alternate ship node for the new line	Check this if you want Yantra 7x to automatically split partially backordered or unscheduled lines into two separate lines. This allows the backordered portion of the line to be scheduled and potentially find a new ship node so that the entire original order line may be shipped.
When a complete line is backordered, backorder against the highest priority ship node regardless of the ship node present on the line.	Check this if you want Yantra 7x to automatically select the ship node that is highest in the sourcing priority, even if that ship node is different from the ship node specified on the order line in the event of a backorder of the complete order line.
When reserving or scheduling a product line, use node from the work order	Check this if you want Yantra 7x to use the node specified on the work order when reserving or scheduling a product line, if no ship node has been specified on the order line, or if the node is non-firm. If a ship node is specified on the order line, Yantra 7x will use that node over the node specified on the work order.

Table 16–4 *Order Fulfillment window*

Field	Description
Allow scheduling of a product line that is part of a work order, before appointment is taken.	<p>Check this if you want Yantra 7x to allow order lines with delivery method set to Delivery to be scheduled when an appointment has not yet been taken on the associated service work order.</p> <p>Note: If scheduling and releasing the order line at the same time, the order line will not be scheduled, even with this flag enabled.</p>
Reservations	
Attempt to reserve the complete quantity of an order line.	<p>Check this if you want Yantra 7x to try to promise the complete quantity of an order line against reserved inventory.</p> <p>For example, if an order line is placed for quantity five, and reserved inventory of quantity three is available, Yantra 7x will reserve quantity three of that order line.</p>
Reservation is mandatory for the complete quantity of an order line.	Check this if you want Yantra 7x to always try to use reserved inventory for the complete quantity of an order line. If it is not possible, an error will be thrown.

Table 16–4 Order Fulfillment window

Field	Description
Inventory reservations created for a specific date are valid for all orders with the same or future ship date.	<p>Check this if you want to allow orders to be promised against inventory that is reserved for a date anterior to the requested ship date.</p> <p>For example, if an order is placed with a requested ship date that is three days in the future, and if reserved inventory is available two days in the future, Yantra 7x will allow the order to use that inventory if this is checked.</p> <p>If this not checked, only inventory reserved for the same day as the requested ship date will be allowed to be used for order promising.</p> <p>Note: This field is primarily for backward compatibility issues.</p>
Suppress the validation of reservations on order line modifications.	<p>Check this if you want Yantra 7x to not check for reservations for existing reserved quantity when a modification is made to a previously reserved order line.</p> <p>For example, if an order line that has been reserved at Node 1 is modified to be sourced from Node 2, Yantra 7x does not check Node 2's inventory to ensure it can be reserved there.</p> <p>Note: This field is primarily for backward compatibility issues.</p>

16.3 Defining Process Type Details

You can define the parameters and templates that distinguish a process type.

For more information about defining process type details, see *Yantra 7x Platform Configuration Guide*.

16.4 Process Type Pipeline Configuration

A **process type pipeline** is a series of transactions and statuses that guide document types, such as a Sales Order, through a predefined process. A pipeline consists of the different statuses a document goes through during fulfillment, negotiation, shipment, or receipt. You can also

set up transactions consisting of events, actions, and conditions, as they pertain to the pipeline you are configuring.

Repositories

A repository is a logical collection of entities that define the business process workflow.

The following entities are included in a repository:

- Pipelines
- Transactions
- Statuses
- Conditions
- Actions
- Services

Yantra 7x provides a base repository for each of the system defined process types. Some of the entities within a repository are copied when creating a new document type. For more information about creating a new document type, see the *Yantra 7x Platform Configuration Guide*.

The process of order fulfillment is modeled through a pipeline. This represents the process configuration that is unique to an organization. An organization may also specify unique processes for each participating Enterprise.

16.4.1 Defining Pipeline Determination

Pipeline determination is used to set up conditions that affect which pipeline is used during the start of the business process workflow. For example, an organization deals with sales orders that sometimes contain hazardous materials. They have two separate pipelines, one in which orders with order lines without any hazardous materials go through and one in which orders with order lines containing hazardous materials must go through for inspection before continuing through the order process. The organization uses pipeline determination to set up a condition that determines whether or not order lines contain hazardous materials and sends the order line down the correct pipeline.

When you expand the Pipeline Determination branch, the components displayed depends on what role you are logged in as. If you are logged in

as a Hub role, the Hub Rule is displayed. If you are logged in as an Enterprise role, both the Hub Rule and My Rule components are displayed. Double-click on the applicable node to display the pipeline determination rules.

Note: If you are logged in as an Enterprise role, the Hub Rule screen is grayed out and cannot be modified.

Drag conditions and pipelines into the work area to construct pipeline determination rules. A single pipeline or condition must be the root. Conditions cannot link back to an earlier component in the chain and a pipeline cannot be linked to twice.

Note: When configuring pipeline determination for an order document type pipeline, please note that pipeline determination is only considered when adding a line or creating an order. When changes are made to draft orders pipeline determination does not occur.

16.4.1.1 Condition Variables for Pipeline Determination

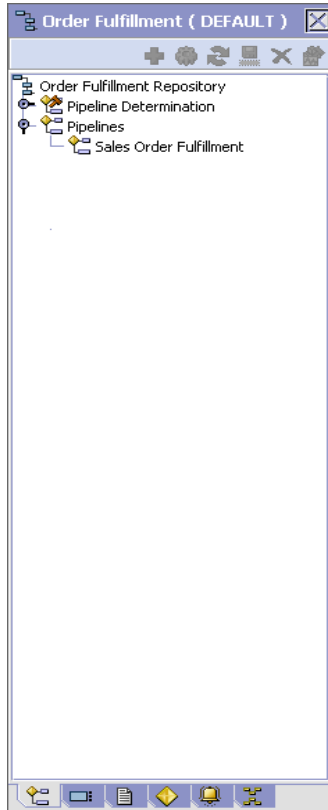
For a list of the condition variables that can be used at the order header and order line level for pipeline determination, refer to [Appendix C, "Condition Builder Attributes"](#).

16.4.2 Pipelines

For more information about configuring pipelines, see the *Yantra 7x Platform Configuration Guide*.

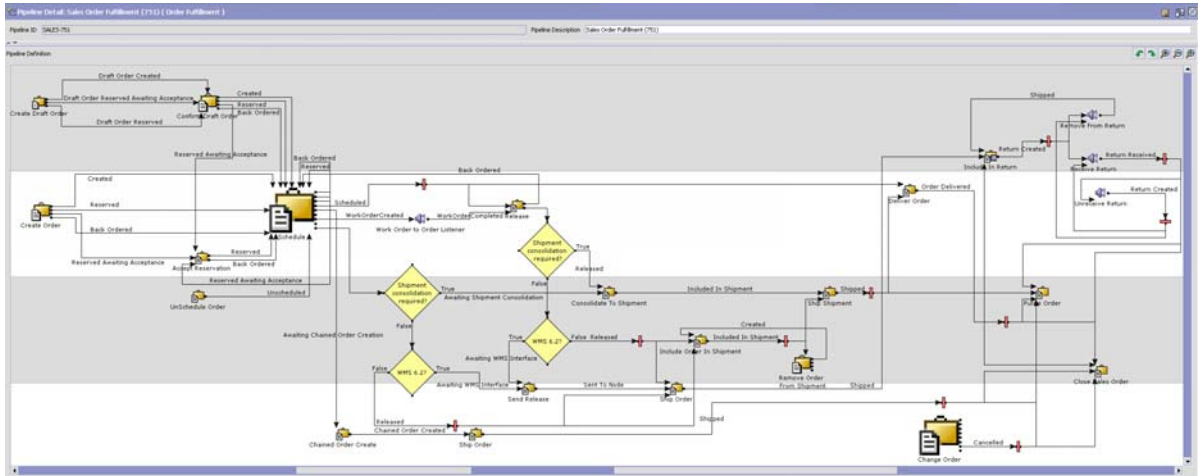
To view the order fulfillment pipeline details,

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Fulfillment > Fulfillment Process Model. The Order Fulfillment window is displayed.



2. In the Order Fulfillment window, choose Order Fulfillment Repository > Pipelines > Sales Order Fulfillment.
3. The Pipeline Detail: Sales Order Fulfillment (Order Fulfillment) window is displayed.

For more information about creating and modifying a pipeline, see the *Yantra 7x Platform Configuration Guide*.




16.4.3 Transactions

Every process type has a set of base transactions defined for it. A transaction is a logical unit of work that is necessary for performing activity within Yantra 7x. Base transactions are predefined transactions that contain information about how the transaction behaves, such as how many copies of a transaction can be kept in a process type and whether or not it can have configurable base pick and drop statuses. Base transactions can be used to create new transactions. These transactions can be changed within the limits defined in the base transaction.

For more information about Transactions, see the *Yantra 7x Platform Configuration Guide*.

To view the transaction details for an order fulfillment pipeline:

1. From the tree in the application rules side panel, choose Document Specific > (Document Type) > Fulfillment > Fulfillment Process Model. The Order Fulfillment window is displayed.
2. In the Order Fulfillment window, choose .
3. The Transactions tab window is displayed.

For more information about creating and modifying transactions, see the *Yantra 7x Platform Configuration Guide*.

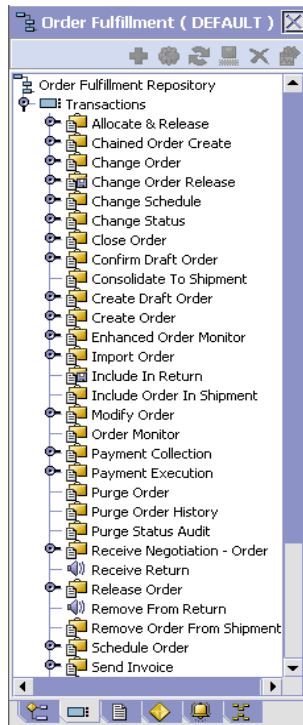


Table 16–5 Order Fulfillment Pipeline - Transactions Tab Window

Field	Description
Allocate & Release	This transaction represents the process of determining nodes sufficient inventory for an order or order line and releasing the order to the optimal node. Important: This transaction has been deprecated.
Chained Order Create	This transaction represents a point in the pipeline where a chained order is created.
Change Order	This transaction represents any modifications that may be made to an order.
Change Order Release	This transaction represents any modifications that may be made to an order release.

Table 16–5 Order Fulfillment Pipeline - Transactions Tab Window

Field	Description
Change Schedule	This transaction represents any modifications that may be made to the scheduling determinations for an order or order line.
Change Status	This transaction represents any modifications that may be made involving an order or order line's status.
Close Order	This transaction represents an order being closed and archived in the system.
Confirm Draft Order	This transaction represents a draft order is manually confirmed and considered an actual order in the system.
Consolidate To Shipment	This transaction the process of finding a shipment into which a given order release can be included.
Create Draft Order	This transaction represents the creation of a draft order in the system.
Create Order	This transaction represents the creation of an order in the system.
Enhanced Order Monitor	This transaction represents the advanced set of parameters used to monitor orders in the system.
Import Order	This transaction represents the process of importing an order that has already been processed to some extent by an external system.
Include In Return	This transaction represents the process of creating a return.
Include Order In Shipment	This transaction represents the process of creating a shipment.
Modify Order	This transaction represents the process of manually modifying an order. Important: This transaction has been deprecated.
Order Monitor	This transaction represents the basic set of parameters used to monitor orders in the system.
Payment Collection	This transaction represents the process of requesting credit validation for orders that are pending authorization or charging.
Payment Execution	This transaction represents the processing of all requests that are pending authorization and charging.

Table 16–5 Order Fulfillment Pipeline - Transactions Tab Window

Field	Description
Purge Order	This transaction represents an order that can be purged moved from the tables into history tables.
Purge Order History	This transaction represents the process of purging orders from the history tables and removing them from the system.
Purge Status Audit	This transaction represents the process of removing order status audit data from the system.
Receive Negotiation	This transaction represents receiving negotiation requests from the Buyer on the order. After a negotiation is finished, this transaction applies the results of the negotiation to the order.
Receive Return	This listener transaction monitors the reverse logistics pipeline and indicates when the return for an order has been received at the receiving node.
Release Order	This transaction represents the process of releasing orders to specific ship nodes, making sure that the scheduled ship nodes have enough inventory to process the order.
Remove From Return	This transaction represents the process of removing an order from an existing return.
Remove Order From Shipment	This transaction represents the process of removing an order from an existing shipment. This transaction is internally invoked the confirmShipment API. See the <i>Yantra 7x Javadocs</i> for more information.
Schedule Order	This transaction represents the process of scheduling orders to specific ship nodes making sure that the scheduled ship nodes have enough inventory to process the order.
Send Invoice	This transaction represents the process of publishing invoice data that can be directed to an external accounts receivable systems.
Send Release	This transaction represents the process of dispatching releases to ship nodes.
Ship Order	This transaction represents the process of an order being shipped when no shipment data has been created. This transaction is internally invoked the confirmShipment API. See the <i>Yantra 7x Javadocs</i> for more information.

Table 16–5 Order Fulfillment Pipeline - Transactions Tab Window


Field	Description
Ship Shipment	This transaction represents the process of an order being shipped after shipment data is created. This transaction is internally invoked the confirmShipment API. See the <i>Yantra 7x Javadocs</i> for more information.
Start Negotiation - Order	This transaction represents the process of initiating the negotiation process with the Buyer on an order.
Synchronize Task Queue	This transaction represents the process of synchronizing the order fulfillment task queue.
Unschedule Order	This transaction represents the process of unscheduling an order that has already been scheduled to a ship node.
Work Order to Order Listener	This listener transaction notifies the pipeline of work order completion.

16.4.4 Statuses

Statuses are the actual states that a document moves through in the pipeline. A transaction can contain two types of statuses, a drop status and a pickup status. A document is moved into a **drop status** when the events and conditions of a transaction have been completed. A **pickup status** takes the document from the previous drop status and moves it through the next transaction. Created and Scheduled are examples of statuses.

For more information about Statuses, see the *Yantra 7x Platform Configuration Guide*.

To view the status details of an order fulfillment pipeline:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Fulfillment > Fulfillment Process Model. The Order Fulfillment window is displayed.
2. In the Order Fulfillment window, choose .
3. The Statuses tab window is displayed.

For more information about creating and modifying statuses, see the *Yantra 7x Platform Configuration Guide*.

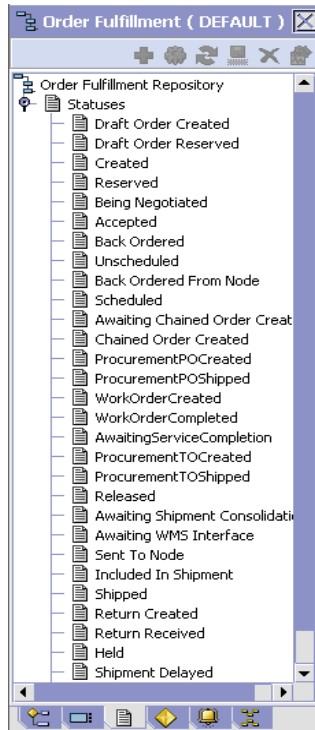


Table 16–6 Order Fulfillment Pipeline - Statuses Tab Window

Field	Description
Draft Order Created	This indicates that a draft order has been created.
Created	This indicates that an order has been created.
Reserved	This indicates the order has been created, but it is not ready to schedule yet.
Being Negotiated	This indicates that the order is undergoing the negotiation process with the Buyer on the order.
Accepted	This indicates that an order has been manually accepted.
Backordered	This indicates that an order is backordered until sufficient inventory is available.

Table 16–6 Order Fulfillment Pipeline - Statuses Tab Window

Field	Description
Unscheduled	This indicates that the order has been removed from Scheduled status and any inventory that has been reserved for the order at the scheduled node(s) is canceled.
Backordered From Node	This indicates that the order has been created and released to the node, but the node does not have enough inventory to fulfill the order.
Scheduled	This indicates that the applicable node(s) have the inventory to fulfill the order and can be scheduled for release.
Awaiting Chained Order Creation	This indicates that the wave has been printed for picking.
Chained Order Created	This indicates that a chained order must be created and sent to the applicable node.
Procurement PO Created	This indicates that a procurement purchase order has been created.
Procurement PO Shipped	This indicates that a procurement purchase order has been shipped.
Procurement TO Created	This indicates that a procurement transfer order has been created.
Procurement TO Shipped	This indicates that a procurement transfer order has been shipped.
Work Order Created	This indicates that a work order has been created.
Work Order Completed	This indicates that a work order has been completed.
Released	This indicates that there is enough inventory to schedule to the order for fulfillment. The order is released to the Application Consoles, Yantra 7x Warehouse Management System, or another third-party warehouse management system.
Awaiting Shipment Consolidation	This indicates that the order is to be grouped and consolidated with other shipments before it continues through the pipeline.

Table 16–6 Order Fulfillment Pipeline - Statuses Tab Window


Field	Description
Awaiting WMS Interface	This indicates that the order must interface with Yantra 7x Warehouse Management System before continuing in the pipeline.
Sent To Node	This indicates that the order is sent in the form of an order release.
Included In Shipment	This indicates that the order is included in a shipment.
Shipped	This indicates that the order has been shipped
Return Created	This indicates that the Buyer is returning one or more items included in the order.
Return Received	This indicates that returned items have been received at the return node.
Held	This indicates that the order is being held and no modifications can be made until it is released from the hold.
Shipment Delayed	This indicates that all or part of the order shipment has been delayed.
Cancelled	This indicates that the order has been canceled.
Shorted	This indicates that the order contains less quantity than requested.

16.4.5 Conditions

A **condition** matches document type attributes against decision points and routes the documents to different paths based on the specified attribute and value combinations. The document type attributes against which conditions can be created are predefined in Yantra 7x. You can use these attributes in any combination or you can create conditions that execute the appropriate application logic for specific circumstances.

For more information about conditions, see the *Yantra 7x Platform Configuration Guide*.

To view the condition details of an order fulfillment pipeline:

1. From the tree in the application rules side panel, choose Document Specific > (Document Type) > Fulfillment > Fulfillment Process Model. The Order Fulfillment window is displayed.
2. In the Order Fulfillment window, choose .
3. The Conditions tab window is displayed.

For more information about creating and modifying conditions, see the *Yantra 7x Platform Configuration Guide*.

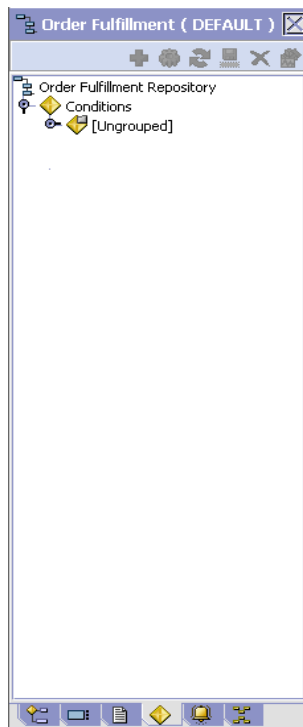


Table 16–7 Order Fulfillment Pipeline - Conditions Tab Window

Field	Description
Conditions	Displays conditions that are specific to the order fulfillment pipeline, if any.


16.4.6 Actions

An **action** is a process or program that is triggered by an event. These processes and programs send user alert notifications and automatically resolve issues.

For example, when an order is released (the event), you can set an action to send the customer an e-mail.

For more information about Actions, see the *Yantra 7x Platform Configuration Guide*.

To view the action details of an order fulfillment pipeline:


1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Fulfillment > Fulfillment Process Model. The Order Fulfillment window is displayed.
2. In the Order Fulfillment window, choose .
3. The Actions tab window is displayed.

For more information about creating and modifying actions, see the *Yantra 7x Platform Configuration Guide*.

16.5 Defining Transaction Rules

You can define additional rules for shipment advice, shipment confirmation, order entry, order monitoring, and negotiation monitoring.

To define additional transaction rules:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Fulfillment > Transaction Specific Rules. The Transaction Rules window is displayed.
2. Enter information in the applicable fields. Refer to [Table 16–8](#) for field value descriptions.
3. Choose .

Transaction Rules : Sales Order (DEFAULT)

Ship Advice

☒ Include Price Information in Instruction

Ship Confirm

☐ Cancel Order on Inventory Shortage

Action to take on parent line when chained line is cancelled

☒ Unschedule ☐ Cancel

Order Monitor

Order Monitor Relog Interval Hours

Negotiation Monitor

Negotiation Monitor Relog Interval Hours

Post Voided Sale on Order

Mark Post Voided Sale for Auto-Cancellation After Hours

Cancellation Of Order Lines With Work Orders

☐ Allow Cancellation Even If Work Order Cannot Be Cancelled

Table 16–8 Other Transactions Tab

Field	Description
Ship Advice	
Include Price Information in Instruction	<p>When selected, the system sends down price information on the order as a part of the ship advice instructions.</p> <p>This is a DCS-specific parameter. Key price-related elements from Yantra 7x are sent to DCS as instructions of type SHC (shipping and handling charges at order header level), PRM (discount amount at the order header level), and STX (tax at the order header level).</p>
Ship Confirm	

Table 16–8 Other Transactions Tab

Field	Description
Cancel Order on Inventory Shortage	When selected, items are canceled or backordered in case of inventory shortage.
Action to take on parent line when chained line is canceled	
Unschedule	When selected the unschedule action is performed on the parent order line when a chained order line is canceled. An unscheduled parent line is synonymous with a backordered line. For more information about chained orders, see the <i>Yantra 7x Platform Configuration Guide</i> .
Cancel	When selected the parent line is canceled when a chain line is canceled. For more information about chained orders, see the <i>Yantra 7x Platform Configuration Guide</i> .
Order Monitor	
Order Monitor Relog Interval	<p>Enter the number of hours after which the order monitor raises an action if a document type remains in the same status in a pipeline.</p> <p>The Inventory Monitor and Order Monitor run at pre-defined (scheduled) intervals. Once an alert is raised, the same alert should not be raised over and over again at every run. Relog intervals control how soon after the previous alert the next alert should be triggered.</p> <p>Important: This field has no impact on the Enhanced Order Monitor.</p>
Negotiation Monitor	
Negotiation Monitor Relog Interval	Enter the number of hours after which the Negotiation Monitor raises an action if a document type remains in the same status in a negotiation pipeline.
Post Voided Sale on Order	
Mark Post Voided Sale for Auto-Cancellation After	Enter the number of hours based on which the auto-cancel date is set on the order.

Table 16–8 Other Transactions Tab

Field	Description
Cancellation of Order Lines with Work Orders	
Allow Cancellation Even If Work Order Cannot Be Cancelled	<p>An order may have generated a work order to customize the item for the customer. In some scenarios, the work order cannot be cancelled. For example, the work order cannot be cancelled because the work order has already been completed, or because the work order is performed by an organization that does not accept work order cancellations.</p> <p>By default, the order associated with the work order cannot be cancelled. Select 'Allow Cancellation Even If Work Order Cannot Be Cancelled' to permit the parent orders to be cancelled if the work order cannot be cancelled.</p>

16.6 Defining Status Inventory Types

You can define how and when inventory is updated for Sellers and Buyers tracking inventory, on a status-by-status basis. The Status Inventory Types table is used to associate statuses with specific supply and demand types according to organization. When an order moves through the statuses of a given fulfillment pipeline the values corresponding to the Buyer supply type and Seller demand type associated with the original status are decreased and the values for the status the order is moving into are increased.

Example

Assume you have the following records in the Status Inventory Type table:

Table 16–9 Sample Status Inventory Type Records

Status	Buyer Supply Type	Seller Demand Type	Seller Supply Type	Increment Seller Supply
1100	Purchase Order Placed	Open Order	Onhand	N
3200	Purchase Order Released	Released	Onhand	N
3700	Intransit			Y

When an order with a line item quantity of 10 is created in Created (1100) status, the Purchase Order Placed supply record is updated with a quantity of 10. A Open Order demand type with a quantity of 10 is created for the Seller.

In this example, if a quantity of 3 is moved into Released (3200) status, the Purchase Order Placed supply record is decreased by 3 and a new supply record with a quantity of 3 is created for the Purchase Order Released supply type. The Open Order demand record is also decreased by 3 and a new demand record is with a quantity of 3 is created for the Released demand type.

When the order moves from Released (3200) status to Shipped (3700) status, the Buyer's supply is decreased for the Purchase Order Released supply type and increased for Intransit. The Seller's demand is decreased for the Released demand type. However, the demand type is not increased for a new type, because the Seller Demand Type associated with the Shipped (3700) status is blank.

In the above configuration, the Increment Seller Supply flag is set to 'Y' and the Seller's supply type for the Shipped (3700) status is Onhand. The Increment Seller Supply flag indicates that the Seller's supply must be adjusted when moving any quantity into the Shipped (3700) status.

The value in the Seller Supply Type column indicates the supply type that should be updated, in this example, Onhand. Since the record for the Released (3200) status has the Onhand Seller supply type associated with it and the Shipped (3700) status record has a blank Seller supply type associated with it, the Onhand Seller supply type decreases when moving from Released (3200) status to Shipped (3700) status. The Seller

supply type is not increased with this status move because the value in the Seller Supply Type column for the Shipped (3700) status is blank.

To view a process type's status inventory types, from the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Fulfillment > Status Inventory Types. The Status Inventory window is displayed. Refer to [Table 16–10](#) for assistance.

Status Inventory Types : Sales Order (DEFAULT)				
Orders Without Chaining Orders With Chained Children Procurement Orders				
Orders Without Chaining				
Status	Buyer Supply Type	Seller Supply Type	Update Seller Supply	Seller Demand Type
Draft Order Reserved	Purchase Order Placed	Onhand	N	Reserved Order
Created	Purchase Order Placed	Onhand	N	Open Order
Reserved	Purchase Order Placed	Onhand	N	Reserved Order
Being Negotiated	Purchase Order Placed	Onhand	N	Open Order
Accepted	Purchase Order Placed	Onhand	N	Open Order
Backordered	Purchase Order Backorder	Onhand	N	Backorder
Unscheduled	Purchase Order Backorder	Onhand	N	Backorder
Scheduled	Purchase Order Scheduled	Onhand	N	Scheduled
Awaiting Chained Order Cre...	Purchase Order Released	Onhand	N	Allocated
Work Order Created	Purchase Order Scheduled	Onhand	N	Scheduled
Released	Purchase Order Released	Onhand	N	Allocated
Sent To Node	Purchase Order Released	Onhand	N	Allocated
Included In Shipment	Purchase Order Released	Onhand	N	Allocated
Shipped	In Transit		Y	
Cancelled		Onhand	N	

Table 16–10 Status Inventory Types Window

Field	Description
Orders Without Chaining/Orders With Chained Children/Procurement Orders	<p>Select the Orders Without Chaining tab to view the status inventory types for orders that flow through the process type pipeline without having any associated chained orders.</p> <p>Select the Orders With Chained Children tab to view the status inventory types of orders having associated drop-ship chained orders.</p> <p>Select the Procurement Orders tab to view the status inventory types of procurement orders.</p>
Status	The order document's status.
Buyer Supply Type	The Buyer's supply type associated with the order document's status.
Seller Supply Type	The Seller's supply type associated with the order document's status.

Table 16–10 Status Inventory Types Window



Field	Description
Update Seller Supply	Indicates if inventory updates are made when an order document moves into the associated status.
Seller Demand Type	The Seller's demand type associated with the order document's status.

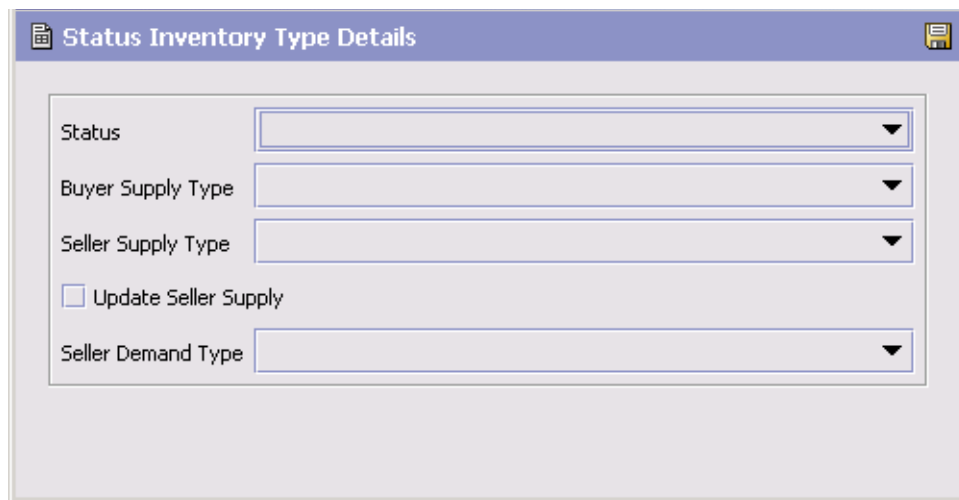
You can use the Status Inventory Types branch for:

- [Creating a Status Inventory Type](#)
- [Modifying a Status Inventory Type](#)
- [Deleting a Status Inventory Type](#)

16.6.1 Creating a Status Inventory Type

To to create a status inventory type:

1. In the Status Inventory Types window, choose . The Status Inventory Type Details window appears.
2. Enter information in the applicable fields. Refer to [Table 16–11](#) for field level descriptions.
3. Choose .



Status Inventory Type Details

Status

Buyer Supply Type

Seller Supply Type

☐ Update Seller Supply



Seller Demand Type

Table 16–11 Status Inventory Type Details Window


Field	Description
Status	Select the order document status that you want to associate inventory types with.
Buyer Supply Type	Select the Buyer supply type that you want to associate with the order document status.
Seller Supply Type	Select the Seller supply type that you want to associate with the order document status.
Update Seller Supply	Select this field if you want inventory updates to be performed on the associated inventory types when the order document enters this status. Note: If you are integrating with Yantra 7x WMS, this field must be selected and you must specify the Seller Supply Type.
Seller Demand Type	Select the Seller demand type that you want to associate with the order document status.

16.6.2 Modifying a Status Inventory Type

To modify a status inventory type:

1. In the Status Inventory Types window, locate the applicable status inventory type and choose . The Status Inventory Type Details window appears.
2. Enter information in the applicable fields. Refer to [Table 16–11](#) for field level descriptions.
3. Choose .

16.6.3 Deleting a Status Inventory Type

To delete a status inventory type, locate the applicable status inventory type in the Status Inventory Types window and choose .

Note: Default status inventory types which are originally shipped with Yantra 7x cannot be deleted.

16.7 Defining Monitoring Components

You can define the components used to measure and report unexpected conditions and delays in the order document's lifecycle. For more information about using these components to configure monitoring rules, see the *Yantra 7x Platform Configuration Guide*.

To define a process type's monitoring components, from the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Fulfillment > Order Monitoring. The Monitoring window is displayed.

You can use the Monitoring window for:

- [Defining Date Types](#)
- [Defining Milestones](#)

16.7.1 Defining Date Types

You can define custom date types. These dates automatically appear in the configuration screen and the Order/Shipment Dates window in the Yantra 7x Application Consoles.

You can use the Date Types tab for:

- [Creating a Date Type](#)
- [Modifying a Date Type](#)
- [Deleting a Date Type](#)

16.7.1.1 Creating a Date Type

To create a date type:





1. In the Monitoring window, choose the Date Types tab.
2. From the Date Types list, choose . The Date Type Details window appears.
3. Enter information in the applicable fields. Refer to [Table 16–12](#) for field level descriptions.
4. Choose .

Table 16–12 *Date Type Details Window*

Field	Description
Date Type	Enter the name of the date type.
Description	Enter a brief description of the date type.
Requested	Select this field to indicate if the date type represents a date requested by a Buyer, user, etc.
Expected	Select this field to indicate if the date type represents a date the system expects or has calculated something to occur.
Actual	Select this field to indicate if the date type represents the actual date.

16.7.1.2 Modifying a Date Type

To modify a date type:


1. In the Monitoring window, choose the Date Types tab.
2. From the Date Types list, locate the applicable date type and choose . The Date Type Details window appears.
3. Enter information in the applicable fields. Refer to [Table 16–12](#) for field level descriptions.
4. Choose .

16.7.1.3 Deleting a Date Type

To delete a date type:

Note: The following system dates cannot be deleted:

- Delivery Date
- Order Date
- Ship Date

1. In the Monitoring window, choose the Date Types tab.
2. From the Date Types list, locate the applicable date type and choose .

16.7.2 Defining Milestones

You can configure applicable statuses in a process type to be milestones. A milestone is a type of date that Yantra 7x automatically determines when an order moves from one status to another. A milestone represents a significant point in the processing lifecycle that can be used as a criterion for monitoring. Milestones can be defined at the order, order line, order release, and order release line levels.

Note: A milestone can be reached whenever there is a change in an order line. Yantra 7x marks a milestone as reached if an order line reaches a status marked as a milestone. However, there may be times that only part of an order line reaches a particular status defined as milestone.

You can use the Milestones tab for:

- [Creating a Milestone](#)
- [Modifying a Milestone](#)
- [Deleting a Milestone](#)

16.7.2.1 Creating a Milestone

To create a milestone:




1. In the Monitoring window, choose the Milestones tab.
2. From the Milestones list, choose . The Milestone Details window appears.
3. Enter information in the applicable fields. Refer to [Table 16–13](#) for field level descriptions.
4. Choose .

Table 16–13 *Milestone Details*

Field	Description
Date Type	Enter the name of the milestone being created. Note: You cannot use date types you have created on the date type tab. You must create a unique name for the milestone.
Description	Enter a brief description of the milestone.
Requested	Select this field to indicate if the milestone represents a date requested by a Buyer, user, etc.
Expected	Select this field to indicate if the milestone represents a date the system expects or has calculated something to occur.

Table 16–13 Milestone Details



Field	Description
Actual	This field is not applicable for milestones.
Milestone Statuses	<p>You can add statuses to associate with the milestone by selecting  and entering information in the applicable fields.</p> <p>Note: This tab can only be accessed once the Primary Info tab has been filled out and saved.</p>
Date Type	The date type if any associated with the milestone.
Status	Select the status you want use to indicate the milestone has been reached.
Level	<p>Select Order to indicate this status must be reached at the order header level.</p> <p>Select Order Line to indicate that this status must be reached at the order line level.</p> <p>Select Order Release to indicate that this status must be reached at the order release level.</p>
Quantity Type	<p>Select Initial to indicate that the milestone is met when any quantity at the above selected level moves into the status.</p> <p>Select Complete to indicate that the milestone is met when all quantity at the above selected level moves into the status.</p>

16.7.2.2 Modifying a Milestone

Important: If modifications are made to an existing milestone, the changes are only applied to new orders. Existing orders for which milestone records have already been created are not considered.


To modify a milestone:

1. In the Monitoring window, choose the Milestones tab.

2. From the Milestones list, locate the applicable milestone and choose . The Milestone Details window appears.
3. Enter information in the applicable fields. Refer to [Table 16–13](#) for field level descriptions.
4. Choose .

16.7.2.3 Deleting a Milestone

To delete a milestone:

1. From the Monitoring window, choose the Milestones tab.
2. From the Milestones list, locate the applicable milestone and choose .

16.8 Defining Monitoring Events


Events are used in instances where the Order Monitor may raise multiple alerts of the same type. For example, if an order with multiple lines that are shipped together has a shipment delay and you have configured the Order Monitor to raise alerts when shipments are delayed at the line level, an alert of the same type would be raised against each line in the order. You can create rules to aggregate all of these similar alerts and raise one "root cause".


You can use the Monitor Events tab for:

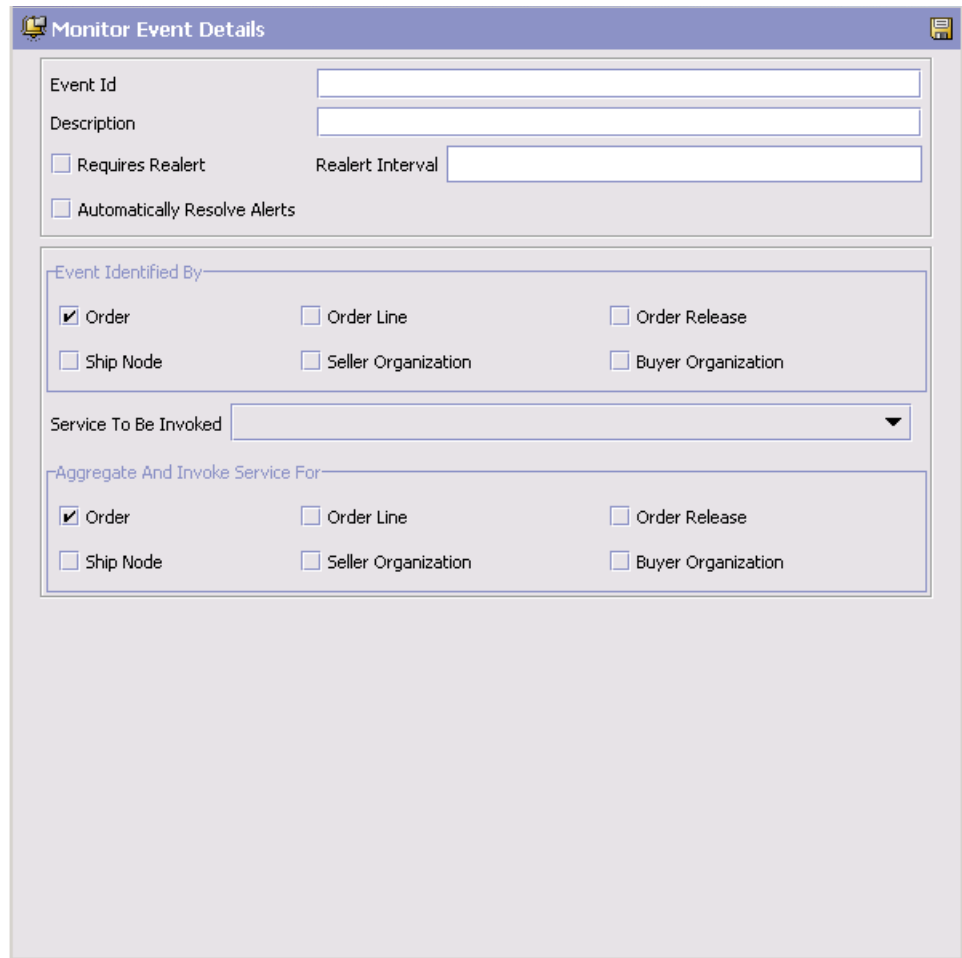
- [Creating an Event Rule](#)
- [Modifying an Event](#)
- [Deleting an Event](#)

16.8.1 Creating an Event Rule

To create an event rule:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Fulfillment > Monitor Events. The Monitor Events window is displayed.
2. From the Monitor Events list, choose . The Monitor Events Details window appears.

3. Enter information in the applicable fields. Refer to [Table 16–14](#) for field level descriptions.
4. Choose .



The "Monitor Event Details" dialog box is used for configuring monitoring events. It contains the following fields and options:

- Event Id:** A text input field.
- Description:** A text input field.
- Requires Realert:** A checkbox.
- Realert Interval:** A text input field, enabled when "Requires Realert" is checked.
- Automatically Resolve Alerts:** A checkbox.
- Event Identified By:** A group of checkboxes:
 - ☒ Order
 - ☐ Order Line
 - ☐ Order Release
 - ☐ Ship Node
 - ☐ Seller Organization
 - ☐ Buyer Organization
- Service To Be Invoked:** A dropdown menu.
- Aggregate And Invoke Service For:** A group of checkboxes:
 - ☒ Order
 - ☐ Order Line
 - ☐ Order Release
 - ☐ Ship Node
 - ☐ Seller Organization
 - ☐ Buyer Organization

Table 16–14 *Monitor Event Details Pop-Up Window*

Field	Description
Event ID	Enter the event ID.
Description	Enter a brief description of the event.
Requires Realert	Select this field if you want users to be re-alerted if the issue has not been resolved within a certain timeframe.
Realert Interval	If you selected Requires Realert, enter the interval (in hours) that re-alerts should be sent.
Automatically Resolve Alerts	Select this field to automatically remove an alert if the alert condition is no longer valid. Once the alert is resolved, a new alert is raised if the condition is detected again.
Event Identified By	
Order	Select this field if you want two or more alert conditions to be treated the same if they belong to the same order. Note: This field can be selected in conjunction with Order Line and/or Order Release fields.
Order Line	Select this field if you want two or more alert conditions to be treated the same if they belong to the same order line. Note: This field can be selected in conjunction with Order and/or Order Release fields.
Order Release	Select this field if you want two or more alert conditions to be treated the same if they belong to the same order release. Note: This field can be selected in conjunction with Order and/or Order Line fields.
Ship Node	Select this field if you want two or more alert conditions to be treated the same if they belong to the same ship node. Note: This field must be used in conjunction with the Order, Order Line, and/or Order Release fields.



Table 16–14 *Monitor Event Details Pop-Up Window*

Field	Description
Seller Organization	Select this field if you want two or more alert conditions to be treated the same if they belong to the same Seller. Note: This field must be used in conjunction with the Order, Order Line, and/or Order Release fields.
Buyer Organization	Select this field if you want two or more alert conditions to be treated the same if they belong to the same Buyer. Note: This field must be used in conjunction with the Order, Order Line, and/or Order Release fields.
Service To Be Invoked	Select the alert service to be invoked should the event consolidation rule conditions be met.
Aggregate And Invoke Service For	
Order	Select this field if you want only one alert to be raised for an order when alert conditions are detected.
Order Line	Select this field if you want only one alert to be raised per order line when alert conditions are detected.
Order Release	Select this field if you want only one alert to be raised for an order release when alert conditions are detected.
Ship Node	Select this field if you want only one alert to be raised for a particular ship node when alert conditions are detected.
Seller Organization	Select this field if you want only one alert to be raised for a particular Seller when alert conditions are detected.
Buyer Organization	Select this field if you want only one alert to be raised for a particular Buyer when alert conditions are detected.

Note: In most cases the attributes that identify an event should be a subset of the attributes that specify event aggregation.


16.8.2 Modifying an Event

To modify an event rule:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Fulfillment > Monitor Events. The Monitor Events window is displayed.
2. From the Monitor Events list, select the applicable event rule and choose . The Monitor Event Details window appears.
3. Enter information in the applicable fields. Refer to [Table 16–14](#) for field level descriptions.
4. Choose .

16.8.3 Deleting an Event

To delete an event rule:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Fulfillment > Monitor Events. The Monitor Events window is displayed.
2. From the Monitor Events list, select the applicable event rule and choose .

Configuring an Order Document's Shipment Specific Components

Important: Be aware that return fulfillment requires sourcing configuration. Sourcing configuration is accessible through the Distributed Order Management configuration grouping. For more information about configuring sourcing, see the *Yantra 7x Distributed Order Management Configuration Guide*.

To complete an order document's lifecycle, each document has a set of different processes that it can go through. These processes are called process types. Every order document has a defined set of process types in Yantra 7x.

The following process types are defined in Yantra 7x for the order document types:

- Fulfillment
- Negotiation
- Shipment
- Receipt

You can configure the rules and components specific to an order document's shipment process type.

You can use process type configuration for:

- [Defining Process Type Details](#)
- [Process Type Pipeline Configuration](#)

- [Defining Monitoring Components](#)
- [Defining Monitoring Events](#)
- [Defining Shipment Preferences](#)

17.1 Defining Process Type Details

You can define the parameters and templates that distinguish a process type.

For more information about defining process type details, see *Yantra 7x Platform Configuration Guide*.

17.2 Process Type Pipeline Configuration

A **process type pipeline** is a series of transactions and statuses that guide document types, such as a Sales Order, through a predefined process. A pipeline consists of the different statuses a document goes through during fulfillment, negotiation, shipment, or receipt. You can also set up transactions consisting of events, actions, and conditions, as they pertain to the pipeline you are configuring.

Repositories

A repository is a logical collection of entities that define the business process workflow.

The following entities are included in a repository:

- Pipelines
- Transactions
- Statuses
- Conditions
- Actions
- Services

Yantra 7x provides a base repository for each of the system defined process types. Some of the entities within a repository are copied when creating a new document type. For more information about creating a new document type, see the *Yantra 7x Platform Configuration Guide*.

The process of shipment is modeled through a pipeline. This represents the process configuration that is unique to an organization. An organization may also specify unique processes for each participating Enterprise.

17.2.1 Defining Pipeline Determination

Pipeline determination is used to set up conditions that affect which pipeline is used during the start of the business process workflow. For example, an organization deals with sales orders that sometimes contain hazardous materials. They have two separate pipelines, one in which orders with order lines without any hazardous materials go through and one in which orders with order lines containing hazardous materials must go through for inspection before continuing through the order process. The organization uses pipeline determination to set up a condition that determines whether or not order lines contain hazardous materials and sends the order line down the correct pipeline.

When you expand the Pipeline Determination branch, the components displayed depends on what role you are logged in as. If you are logged in as a Hub role, the Hub Rule is displayed. If you are logged in as an Enterprise role, both the Hub Rule and My Rule components are displayed. Double-click on the applicable node to display the pipeline determination rules.

Note: If you are logged in as an Enterprise role, the Hub Rule screen is grayed out and cannot be modified.

Drag conditions and pipelines into the work area to construct pipeline determination rules. A single pipeline or condition must be the root. Conditions cannot link back to an earlier component in the chain and a pipeline cannot be linked to twice.

Note: When configuring pipeline determination for an order document type pipeline, please note that pipeline determination is only considered when adding a line or creating an order. When changes are made to draft orders pipeline determination does not occur.

17.2.2 Pipelines

For more information about configuring pipelines, see the *Yantra 7x Platform Configuration Guide*.

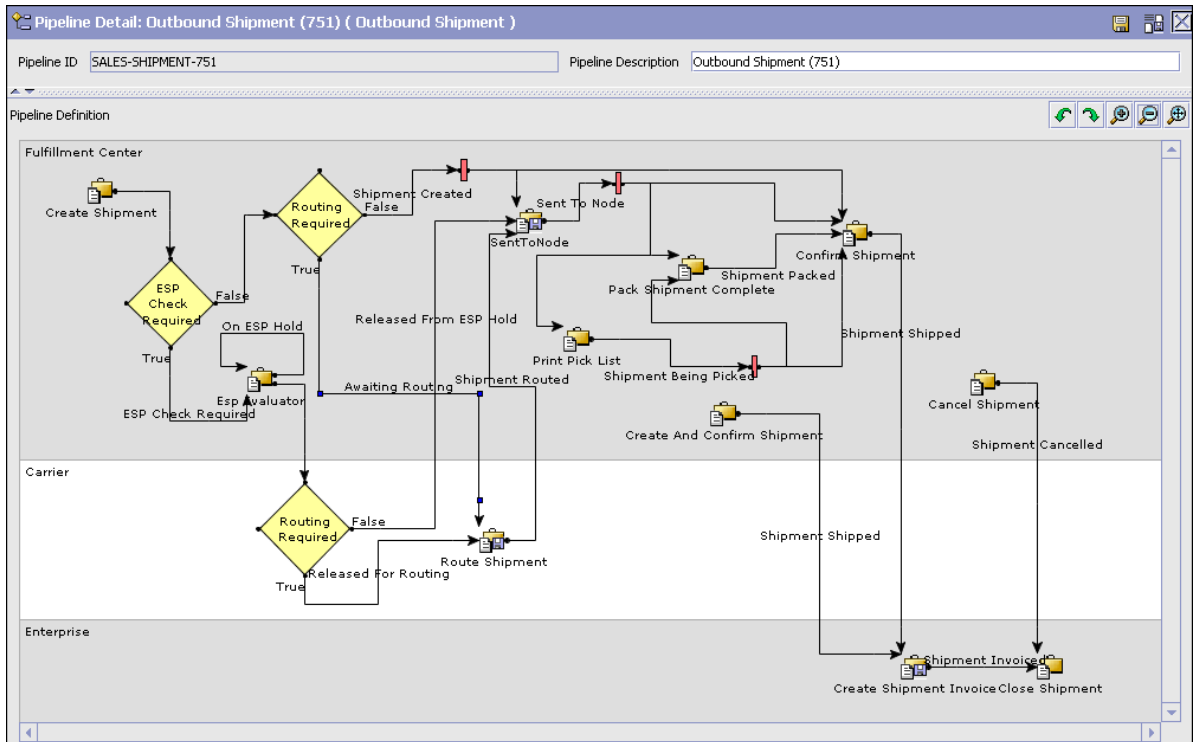
To view the outbound shipment pipeline details:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Outbound Logistics > Shipment Process Model. The Outbound Shipment window is displayed.



2. In the Outbound Shipment window, choose Outbound Shipment Repository > Pipelines > Outbound Shipment.
3. The Pipeline Detail : Outbound Shipment (Outbound Shipment) window is displayed.

For more information about creating and modifying a pipeline, see the *Yantra 7x Platform Configuration Guide*.




17.2.3 Transactions

Every process type has a set of base transactions defined for it. A transaction is a logical unit of work that is necessary for performing activity within Yantra 7x. Base transactions are predefined transactions that contain information about how the transaction behaves, such as how many copies of a transaction can be kept in a process type and whether or not it can have configurable base pick and drop statuses. Base transactions can be used to create new transactions. These transactions can be changed within the limits defined in the base transaction.

For more information about transactions, see the *Yantra 7x Platform Configuration Guide*.

To view the transaction details for an outbound shipment pipeline:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Outbound Logistics > Shipment Process Model. The Outbound Shipment window is displayed.
2. In the Outbound Shipment window, choose .
3. The Transactions tab window is displayed.

For more information about creating and modifying transactions, see the *Yantra 7x Platform Configuration Guide*.

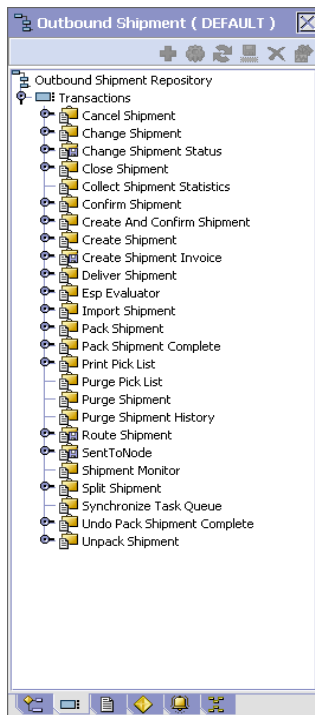


Table 17–1 Outbound Shipment Pipeline - Transactions Tab Window

Field	Description
Cancel Shipment	This transaction represents the process of cancelling a shipment.
Change Shipment	This transaction represents any modifications that may be made to a shipment.
Change Shipment Status	This transaction represents any modifications that may be made involving an order or order line's status.
Close Shipment	This transaction represents a shipment being closed and archived in the system.
Confirm Shipment	This transaction represents a shipment is manually confirmed and shipped.
Create And Confirm Shipment	This transaction represents the process of creating a shipment and shipping it.
Create Shipment	This transaction represents the creation of a shipment in the system.
Create Shipment Invoice	This transaction represents the creation of a shipment invoice.
Deliver Shipment	This transaction represents a shipment being delivered.
ESP Evaluator	This transaction represents the shipment being evaluated for ESP terms of weight and volume.
Import Shipment	This transaction represents the process of importing a shipment that has already been processed to some extent by an external system.
Pack Shipment	This transaction represents the process of packing a shipment.
Pack Shipment Complete	This transaction represents the completion of the packing process.
Print Pick List	This transaction represents the process of printing a pick list.
Purge Pick List	This transaction represents a pick list that can be purged from the system.
Purge Shipment	This transaction represents the process of moving shipments to the history tables.

Table 17–1 Outbound Shipment Pipeline - Transactions Tab Window


Field	Description
Purge Shipment History	This transaction represents the process of purging shipments from the history tables and removing them from the system.
Receipt Closure Listener	This listener transaction monitors the receipt pipeline and indicates when the receipt has been closed.
Route Shipment	This transaction represents the process of assigning carriers to a shipment based on routing guidelines. When possible, it creates consolidated shipments into loads to save on transporting costs.
Sent To Node	This transaction represents the process of sending a created shipment to a node to be pick, packed, and shipped.
Shipment Monitor	This transaction represents the process of monitoring shipments in the system based on defined parameters.
Split Shipment	This transaction represents splitting an existing shipment into multiple shipments.
Synchronize Task Queue	This transaction represents the process of synchronizing the order fulfillment task queue.
Undo Pack Shipment Complete	This transaction indicates that a shipment that has moved through the Pack Shipment Complete transaction is undone.
Unpack Shipment	This transaction represents the process of unpacking a shipment that has already been packed.

17.2.4 Statuses

Statuses are the actual states that a document moves through in the pipeline. A transaction can contain two types of statuses, a drop status and a pickup status. A document is moved into a **drop status** when the events and conditions of a transaction have been completed. A **pickup status** takes the document from the previous drop status and moves it through the next transaction. Created and Scheduled are examples of statuses.

For more information about statuses, see the *Yantra 7x Platform Configuration Guide*.

To view the status details of an outbound shipment pipeline:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Outbound Logistics > Shipment Process Model. The Outbound Shipment window is displayed.
2. In the Outbound Shipment window, choose .
3. The Statuses tab window is displayed.

For more information about creating and modifying statuses, see the *Yantra 7x Platform Configuration Guide*.

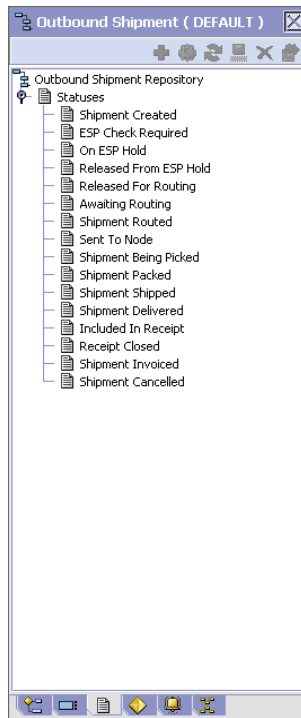


Table 17–2 Outbound Shipment Pipeline - Statuses Tab Window

Field	Description
Shipment Created	This indicates that a shipment has been created.
ESP Check Required	This indicates that the ESP evaluator must be run to determine if ESP conditions have been met.

Table 17–2 Outbound Shipment Pipeline - Statuses Tab Window

Field	Description
On ESP Hold	This indicates that the shipment is being held until ESP conditions are met.
Released From ESP Hold	Indicates that the shipment has been released from ESP hold.
Released For Routing	Indicates that the shipment has met specified parameters for routing guidelines to be applied to it. For more information about configuring routing guidelines, see the <i>Yantra 7x Platform Configuration Guide</i> .
Awaiting Routing	Indicates that routing guidelines must be applied to the shipment before it continues through the pipeline. For more information about configuring routing guidelines, see the <i>Yantra 7x Platform Configuration Guide</i> .
Shipment Routed	This indicates that routing guidelines have been applied to the shipment. For more information about configuring routing guidelines, see the <i>Yantra 7x Platform Configuration Guide</i> .
Sent To Node	This indicates that the shipment has been sent to be packed
Shipment Being Picked	This indicates that the line items are physically being picked in preparation for shipment.
Shipment Packed	This indicates that the shipment has been packed.
Shipment Shipped	This indicates that the shipment has been shipped to the ship to address.
Shipment Delivered	This indicates that the shipment has been delivered to the ship node address.
Included In Receipt	This indicates that the shipment has been included in the receipt.
Receipt Closed	This indicates that the shipment has been received and is considered complete.

Table 17–2 Outbound Shipment Pipeline - Statuses Tab Window


Field	Description
Shipment Invoiced	This indicates that an invoice has been created for the shipment.
Shipment Cancelled	This indicates that the shipment has been cancelled.

17.2.5 Conditions

A **condition** matches document type attributes against decision points and routes the documents to different paths based on the specified attribute and value combinations. The document type attributes against which conditions can be created are predefined in Yantra 7x. You can use these attributes in any combination or you can create conditions that execute the appropriate application logic for specific circumstances.

For more information about conditions, see the *Yantra 7x Platform Configuration Guide*.

To view the condition details of an outbound shipment pipeline:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Outbound Logistics > Shipment Process Model. The Outbound Shipment window is displayed.
2. In the Outbound Shipment window, choose .
3. The Conditions tab window is displayed.

For more information about creating and modifying conditions, see the *Yantra 7x Platform Configuration Guide*.

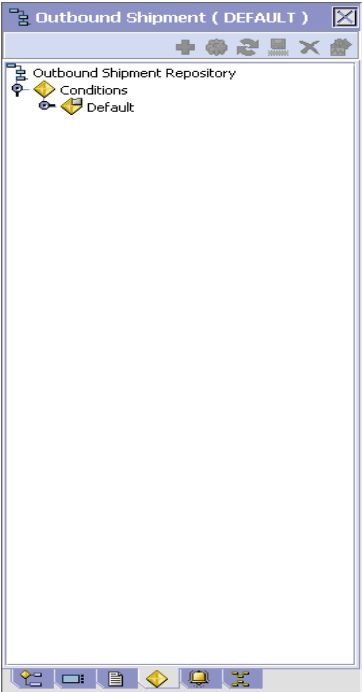


Table 17–3 Outbound Shipment Pipeline - Conditions Tab Window

Field	Description
ESP Check Required	This condition is used to determine whether a shipment requires an ESP check.
Routing Required	This condition is used to determine whether a shipment requires routing guidelines to be applied to it. For more information about configuring routing guidelines, see the <i>Yantra 7x Platform Configuration Guide</i> .


17.2.6 Actions

An **action** is a process or program that is triggered by an event. These processes and programs send user alert notifications and automatically resolve issues.

For example, when an order is released (the event), you can set an action to send the customer an e-mail.

For more information about actions, see the *Yantra 7x Platform Configuration Guide*.

To view the action details of an outbound shipment pipeline:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Outbound Logistics > Shipment Process Model. The Outbound Shipment window is displayed.
2. In the Outbound Shipment window, choose .
3. The Actions tab window is displayed.

For more information about creating and modifying actions, see the *Yantra 7x Platform Configuration Guide*.

17.3 Defining Monitoring Components

You can define the components used to measure and report unexpected conditions and delays in the order document's lifecycle. For more information about using these components to configure monitoring rules, see the *Yantra 7x Platform Configuration Guide*.

To define monitoring components, from the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Outbound Logistics > Shipment Monitoring. The Monitoring window is displayed.

You can use the Monitoring window for:

- [Defining Date Types](#)
- [Defining Milestones](#)

17.3.1 Defining Date Types

You can define custom date types. These dates automatically appear in the configuration screen and the Order/Shipment Dates window in the Yantra 7x Application Consoles.



You can use the Date Types tab for:

- [Creating a Date Type](#)
- [Modifying a Date Type](#)

- [Deleting a Date Type](#)

17.3.1.1 Creating a Date Type

To create a date type:

1. In the Monitoring window, choose the Date Types tab.
2. From the Date Types list, choose . The Date Type Details window appears.
3. Enter information in the applicable fields. Refer to [Table 17–4](#) for field level descriptions.
4. Choose .

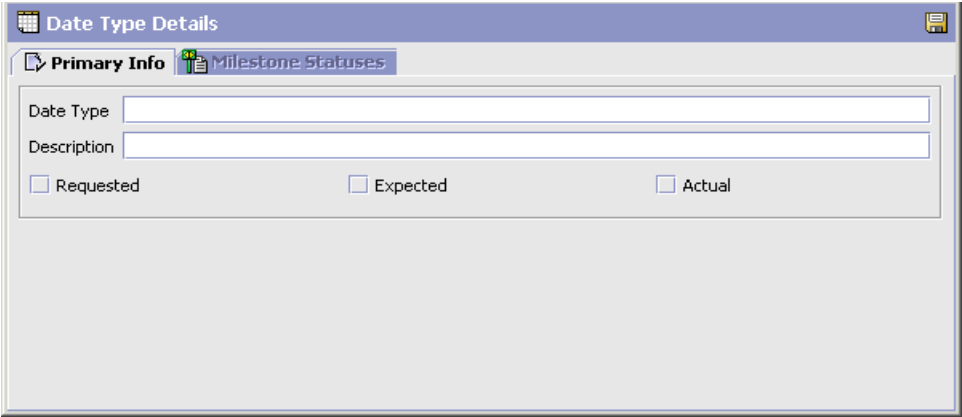




Table 17–4 Date Type Details Window

Field	Description
Date Type	Enter the name of the date type.
Description	Enter a brief description of the date type.
Requested	Select this field to indicate if the date type represents a date requested by a Buyer, user, etc.
Expected	Select this field to indicate if the date type represents a date the system expects or has calculated something to occur.
Actual	Select this field to indicate if the date type represents the actual date.

17.3.1.2 Modifying a Date Type

To modify a date type:


5. In the Monitoring window, choose the Date Types tab.
6. From the Date Types list, locate the applicable date type and choose . The Date Type Details window appears.
7. Enter information in the applicable fields. Refer to [Table 17–4](#) for field level descriptions.
8. Choose .

17.3.1.3 Deleting a Date Type

To delete a date type:

Note: The following system dates cannot be deleted:

- Delivery Date
- Ship Date

1. In the Monitoring window, choose the Date Types tab.
2. From the Date Types list, locate the applicable date type and choose .

17.3.2 Defining Milestones

You can configure applicable statuses in a process type to be milestones. A milestone is a type of date that Yantra 7x automatically determines when an order moves from one status to another. A milestone represents a significant point in the processing lifecycle that can be used as a criterion for monitoring. Milestones can be defined at the order, order line, order release, and order release line levels.

Note: A milestone can be reached whenever there is a change in an order line. Yantra 7x marks a milestone as reached if an order line reaches a status marked as a milestone. However, there may be times that only part of an order line reaches a particular status defined as milestone.

You can use the Milestones tab for:

- [Creating a Milestone](#)
- [Modifying a Milestone](#)
- [Deleting a Milestone](#)

17.3.2.1 Creating a Milestone

To create a milestone:



1. In the Monitoring window, choose the Milestones tab.
2. From the Milestones list, choose . The Milestone Details window appears.
3. Enter information in the applicable fields. Refer to [Table 17–5](#) for field level descriptions.
4. Choose .

Table 17–5 Milestone Details


Field	Description
Date Type	Enter the name of the milestone being created. Note: You cannot use date types you have created on the date type tab. You must create a unique name for the milestone.
Description	Enter a brief description of the milestone.
Requested	Select this field to indicate if the milestone represents a date requested by a Buyer, user, etc.
Expected	Select this field to indicate if the milestone represents a date the system expects or has calculated something to occur.
Actual	This field is not applicable for milestones.
Milestone Statuses	You can add statuses to associate with the milestone by selecting  and entering information in the applicable fields. Note: This tab can only be accessed once the Primary Info tab has been filled out and saved.
Date Type	The date type if any associated with the milestone.
Status	Select the status you want use to indicate the milestone has been reached.



Table 17–5 Milestone Details

Field	Description
Level	<p>Select Order to indicate this status must be reached at the order header level.</p> <p>Select Order Line to indicate that this status must be reached at the order line level.</p> <p>Select Order Release to indicate that this status must be reached at the order release level.</p>
Quantity Type	<p>Select Initial to indicate that the milestone is met when any quantity at the above selected level moves into the status.</p> <p>Select Complete to indicate that the milestone is met when all quantity at the above selected level moves into the status.</p>

17.3.2.2 Modifying a Milestone

Important: If modifications are made to an existing milestone, the changes are only applied to new orders. Existing orders for which milestone records have already been created are not considered.


To modify a milestone:

1. In the Monitoring window, choose the Milestones tab.
2. From the Milestones list, locate the applicable milestone and choose . The Milestone Details window appears.
3. Enter information in the applicable fields. Refer to [Table 17–5](#) for field level descriptions.
4. Choose .

17.3.2.3 Deleting a Milestone

To delete a milestone:

1. From the Monitoring window, choose the Milestones tab.

2. From the Milestones list, locate the applicable milestone and choose .

17.4 Defining Monitoring Events



Events are used in instances where the Order Monitor may raise multiple alerts of the same type. For example, if an order with multiple lines that are shipped together has a shipment delay and you have configured the Order Monitor to raise alerts when shipments are delayed at the line level, an alert of the same type would be raised against each line in the order. You can create rules to aggregate all of these similar alerts and raise one "root cause".

You can use the Monitor Events tab for:

- [Creating an Event Rule](#)
- [Modifying an Event](#)
- [Deleting an Event](#)

17.4.1 Creating an Event Rule

To create an event rule:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Fulfillment > Monitor Events. The Monitor Events window is displayed.
2. From the Monitor Events list, choose . The Monitor Events Details window appears.
3. Enter information in the applicable fields. Refer to [Table 17–6](#) for field level descriptions.
4. Choose .

Monitor Event Details

Event Id

Description

☐ Requires Realert

Realert Interval

☐ Automatically Resolve Alerts

Event Identified By

☒ Shipment

Service To Be Invoked

Aggregate And Invoke Service For

☒ Shipment

Table 17–6 Monitor Event Details Pop-Up Window

Field	Description
Event ID	Enter the event ID.
Description	Enter a brief description of the event.
Requires Realert	Select this field if you want users to be re-alerted if the issue has not been resolved within a certain timeframe.



Table 17–6 Monitor Event Details Pop-Up Window

Field	Description
Realert Interval	If you selected Requires Realert, enter the interval (in hours) that re-alerts should be sent.
Automatically Resolve Alerts	Select this field to automatically remove an alert if the alert condition is no longer valid. Once the alert is resolved, a new alert is raised if the condition is detected again.
Event Identified By	
Shipment	Select this field if you want two or more alert conditions to be treated the same if they belong to the same shipment.
Service To Be Invoked	Select the alert service to be invoked should the event consolidation rule conditions be met.
Aggregate And Invoke Service For	
Shipment	Select this field if you want only one alert to be raised for a shipment when alert conditions are detected.

Note: In most cases the attributes that identify an event should be a subset of the attributes that specify event aggregation.


17.4.2 Modifying an Event

To modify an event rule:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Fulfillment > Monitor Events. The Monitor Events window is displayed.
2. From the Monitor Events list, select the applicable event rule and choose . The Monitor Event Details window appears.
3. Enter information in the applicable fields. Refer to [Table 17–6](#) for field level descriptions.
4. Choose .

17.4.3 Deleting an Event

To delete an event rule:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Fulfillment > Monitor Events. The Monitor Events window is displayed.
2. From the Monitor Events list, select the applicable event rule and choose .

17.5 Defining Shipment Preferences

Shipment preferences can be created to enable over shipment of products, or allow the creation of shipments without order information in the system.

Shipment Preferences are divided into two sets:

- [Over Shipping Preferences](#)
- [Transaction Rules](#)

17.5.1 Over Shipping Preferences

Over shipment is the ability to ship more than an ordered quantity. Over shipment tolerance definitions can be configured using the following criteria:

- Line Type
- Seller Organization Code
- CustomerVendor Classification/BuyerSeller Organization Code
- Item Classification/Item ID

During shipment, if a shipping preference has not been configured that matches the criteria of the shipment line, over shipment is not allowed. Otherwise, over shipment within the specified percentage is allowed.

You can use the Shipping Preference branch for:

- [Creating a Shipment Preference](#)
- [Modifying a Shipment Preference](#)
- [Deleting a Shipment Preference](#)

17.5.1.1 Creating a Shipment Preference

To create a shipment preference:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Outbound Logistics > Shipping Preference. The Shipping Preference window is displayed.
2. In the Shipping Preference window, choose the Over Shipping Preferences tab. The Shipping Preference Search panel is displayed.

Over Shipping Preferences Transaction Rules

Shipping Preference Search : Sales Order (DEFAULT)

Line Type

Item ID Item Classification

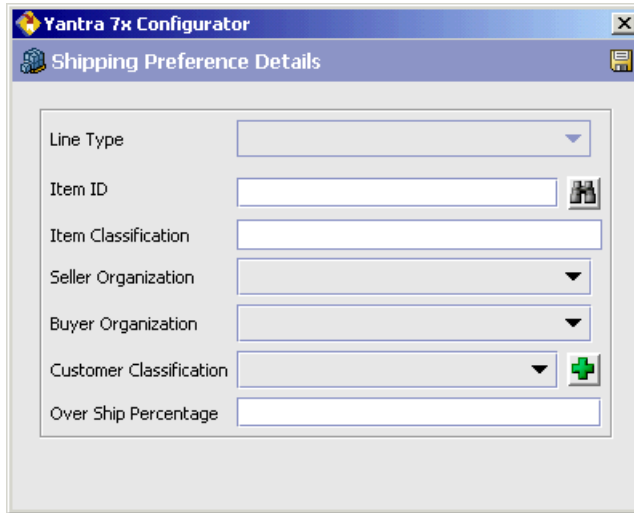
Seller Organization Buyer Organization

Customer Classification

Search Results

Line Type	Item ID	Item Classification	Seller Organization	Buyer Organization	Customer Classification

3. In the Search Results panel, choose . The Shipping Preference Details pop-up window appears.
4. Enter information into the applicable fields. Refer to [Table 17-7](#) for field value descriptions.
5. Choose .



The screenshot shows a software window titled "Yantra 7x Configurator" with a subtitle "Shipping Preference Details". Inside the window, there is a form with the following fields:




- Line Type:** A dropdown menu.
- Item ID:** A text input field with a small help icon to its right.
- Item Classification:** A text input field.
- Seller Organization:** A dropdown menu.
- Buyer Organization:** A dropdown menu.
- Customer Classification:** A dropdown menu with a green plus icon to its right.
- Over Ship Percentage:** A text input field.

Table 17–7 Shipping Preference Details

Field	Description
Line Type	Select the line type you want to allow over shipment for.
Item ID	Enter the item ID of the item you want to allow over shipment for, if applicable.
Item Classification	Enter the item classification group you want to allow over shipment for, if applicable. For more information about item classification, see the <i>Yantra 7x Product Management Configuration Guide</i> .
Seller Organization	Select the Seller organization that you want to allow to over ship.
Buyer Organization	Select the Buyer organization that you want to be able to receive over shipments.
Customer Classification	Select the customer classification that you want to be able to receive over shipments, if applicable.
Over Ship Percentage	Enter the percentage allowed for over shipment.



17.5.1.2 Modifying a Shipment Preference

To modify a shipment preference:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Outbound Logistics > Shipping Preference. The Shipping Preference window is displayed.
2. In the Shipping Preference window, choose the Over Shipping Preferences tab. The Shipping Preference Search panel is displayed.
3. Enter the applicable search criteria and choose . A list of preferences is displayed.
4. Select the applicable preference and choose . The Shipping Preference Details pop-up window appears.
5. Enter information into the applicable fields. Refer to [Table 17–7](#) for field value descriptions.
6. Choose .

17.5.1.3 Deleting a Shipment Preference

To delete a shipment preference:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Outbound Logistics > Shipping Preference. The Shipping Preference window is displayed.
2. In the Shipping Preference window, choose the Over Shipping Preferences tab. The Shipping Preference Search panel is displayed.
3. In the Over Shipping Preferences tab, enter the applicable search criteria and choose . A list of preferences is displayed.
4. Select the applicable preference and choose .

17.5.2 Transaction Rules

Transaction Rules define whether the system allows creation of shipments without order information on the system.

To define transaction rules:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Outbound Logistics > Shipping Preference. The Shipping Preference Search window is displayed.
2. In the Shipping Preference Search window, choose the Transaction Rules tab.


- 3. Enter information in the applicable fields. Refer to [Table 17–8](#) for field level descriptions.
- 4. Choose .



Table 17–8 Transaction Rules Tab

Field	Description
Order Available On System	Select this check box to ensure that shipments are only created against orders on the system. By default, this check box is selected. To enable creation of shipments without order information on the system, deselect the check box.

18

Configuring a Document's Financial Components

You can define rules and common codes as they pertain to payments and charges for a given order document.

You can use the Financial Attributes branch for:

- [Defining Payment Terms](#)
- [Defining Charge Definitions](#)
- [Defining Tax Names](#)
- [Defining Additional Payment Rules](#)

18.1 Defining Payment Terms

You can define common codes for **payment terms** that you may have with your customers. These terms are pre-defined methods of payment.


You can use the Payment Terms tab for:

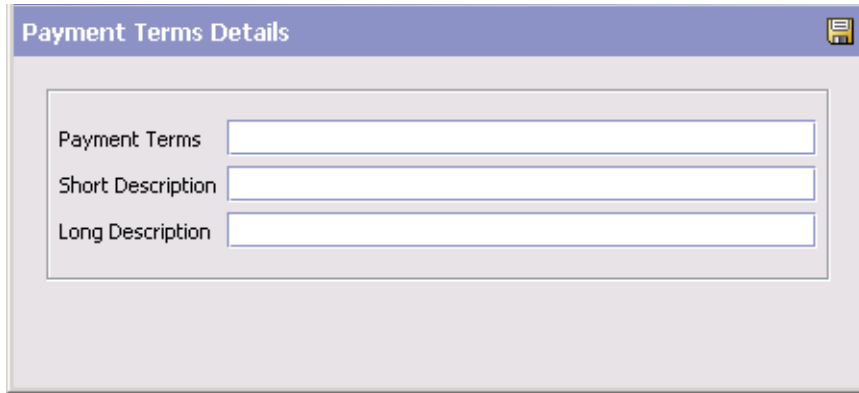
- [Creating a Payment Term](#)
- [Modifying a Payment Term](#)
- [Deleting a Payment Term](#)

18.1.1 Creating a Payment Term


To create a payment term:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Financials > Payment Terms. The Payment Terms window appears in the work area.

2. Choose . The Payment Term Details pop-up window appears.





The image shows a pop-up window titled "Payment Terms Details". It has a light blue header bar with the title and a small save icon in the top right corner. The main area is white and contains three text input fields. The first field is labeled "Payment Terms", the second is labeled "Short Description", and the third is labeled "Long Description". Each label is to the left of its corresponding input field.

3. In Payment Term, enter the name of the payment term.
4. In Short Description, enter a brief description of the payment term.
5. In Long Description, enter a more detailed description of the payment term.
6. Choose .


18.1.2 Modifying a Payment Term

To modify a payment term:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Financials > Payment Terms. The Payment Terms window appears in the work area.
2. Select the applicable payment term and choose . The Payment Term Details pop-up window appears.
3. In Short Description, enter a brief description of the payment term.
4. In Long Description, enter a more detailed description of the payment term.
5. Choose .

18.1.3 Deleting a Payment Term

To delete a payment term:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Financials > Payment Terms. The Payment Terms window appears in the work area.
2. Select the applicable payment term and choose .

18.2 Defining Charge Definitions

You can define **charge definitions** that you can associate with orders and invoices by creating charge categories. These categories contain a group of related charge names that can be used when the particular category is used. When adding a charge to an order header or an order line, you must use the charge categories that you have defined here. The charge name that is used on the order header or on the order line may or may not be defined, depending on the Validate Charge Name rule in the additional payment rules. For more information on this rule, refer to [Section 18.4, "Defining Additional Payment Rules"](#) on page 321.

The following are Yantra 7x's default charge definitions:

- Shipping
- Handling
- Personalization
- Discount


Note: The default charge definitions are only available to the Hub organization at the time of installation. Any Enterprises that are created must create their own charge definitions.

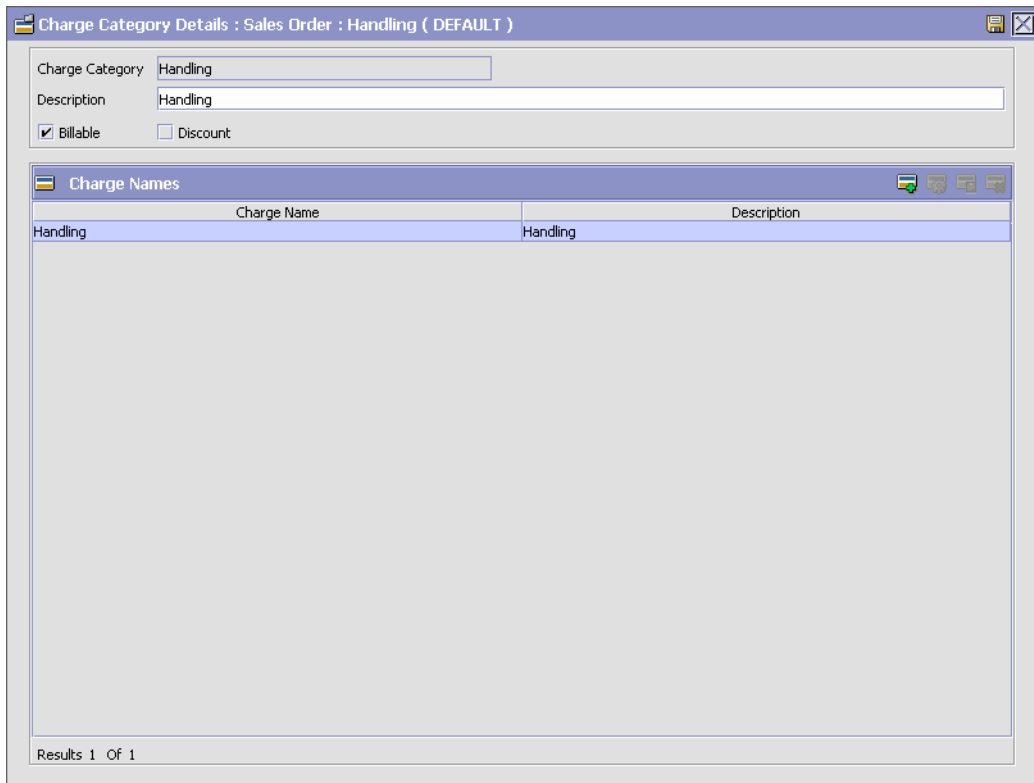
Use the Charge Definitions tab for:

- [Creating a Charge Category](#)
- [Modifying a Charge Category](#)
- [Adding a Charge Name Associated with a Charge Category](#)
- [Modifying a Charge Name Associated with a Charge Category](#)
- [Deleting a Charge Name Associated with a Charge Definition](#)
- [Deleting a Charge Definition](#)

18.2.1 Creating a Charge Category


To create a charge category:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Financials > Financial Attributes. The Financial window appears in the work area.
2. Choose the Charge Definitions tab.
3. Choose . The Charge Category Details window is displayed.



Charge Name	Description
Handling	Handling

4. In Charge Category, enter the name of the charge category.
5. In Description, enter a brief description of the charge category.
6. Select Billable if the charge is billable. Non-billable charges are not considered in order totals, but do appear in invoices.

7. Select Is Fee (or Discount if applied to a pickup request) if the charge you are creating is a discount charge type.
8. Choose .

Note: Charge categories cannot be localized. For more information about localization, see the *Yantra 7x Localization Guide*.

You can use the Charge Category Details window for:


- [Adding a Charge Name Associated with a Charge Category](#)
- [Modifying a Charge Name Associated with a Charge Category](#)
- [Deleting a Charge Name Associated with a Charge Category](#)

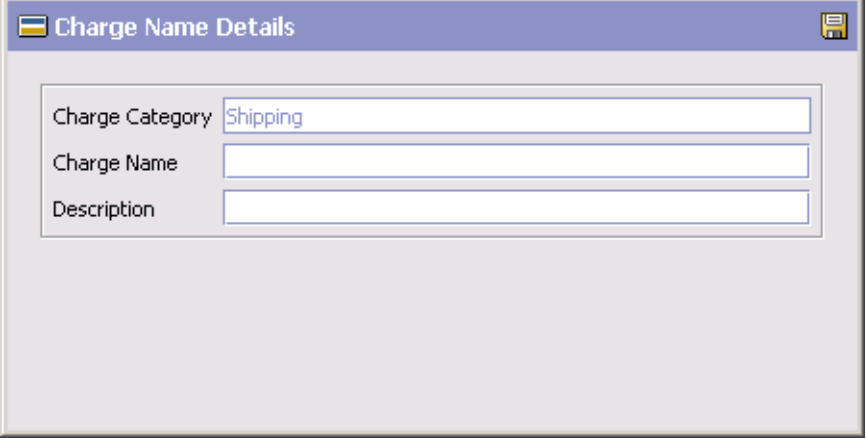
18.2.1.1 Adding a Charge Name Associated with a Charge Category

Charge names are names of the actual charges included in the charge definition.


Note: Yantra recommends that you clearly specify between order charges and discount charges when naming a charge. In the Application Consoles both order charges and discount charges appear on the same screens and drop-down menu. There is no way for the user to distinguish which is an order charge and which is a discount charge other than its naming convention.

To add a charge name to a charge category:

1. In the Charge Category Details window, choose . The Charge Name Details pop-up window is displayed.





The image shows a dialog box titled "Charge Name Details". It has a title bar with a standard window icon on the left and a save icon on the right. The main area contains three text input fields. The first field is labeled "Charge Category" and contains the text "Shipping". The second field is labeled "Charge Name" and is empty. The third field is labeled "Description" and is empty.

2. In Charge Name, enter the charge name.
3. In Description, enter a brief description of the charge name.
4. Choose .


Note: Charge names cannot be localized. For more information about localization, see the *Yantra 7x Localization Guide*.

18.2.1.2 Modifying a Charge Name Associated with a Charge Category

To modify a charge category's charge name:



1. In the Charge Category Details window, select the applicable charge name and choose . The Charge Name Details pop-up window is displayed.
2. In Description, enter a brief description of the charge name.
3. Choose .

18.2.1.3 Deleting a Charge Name Associated with a Charge Category

To delete a charge category's charge name select the applicable charge name in the Charge Category Details window and choose .


18.2.2 Modifying a Charge Category

To modify a charge category:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Financials > Financial Attributes. The Financial window appears in the work area.
2. Choose the Charge Definitions tab.
3. Select the applicable charge category and choose . The Charge Category Details window is displayed.
4. In Description, enter a brief description of the charge category.
5. Select Billable if the charge is billable. Non-billable charges are not considered in order totals, but do appear in invoices.
6. Select Discount if the charge you are creating is a discount charge type.
7. Choose .

18.2.3 Deleting a Charge Category

To delete a charge definition:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Financials > Financial Attributes. The Financial window appears in the work area.
2. Choose the Charge Definitions tab.
3. Select the applicable charge category and choose .

18.3 Defining Tax Names

You can define common codes for tax names. **Tax names** are any specific taxes that may pertain to orders and invoices.

Yantra 7x understands three different types of taxes: a tax against a price, against a charge, or a flat tax.

- A tax against a price is an additional cost for a percentage of the price of the order line.
- A tax against a charge is an additional cost for a percentage of an existing charge on the order header, or order line. When adding a tax

against a charge, the charge category must be one that already exists on the order header, or on the order line.


- A flat tax is a fixed tax applied on an order, independently of any charge, or price.

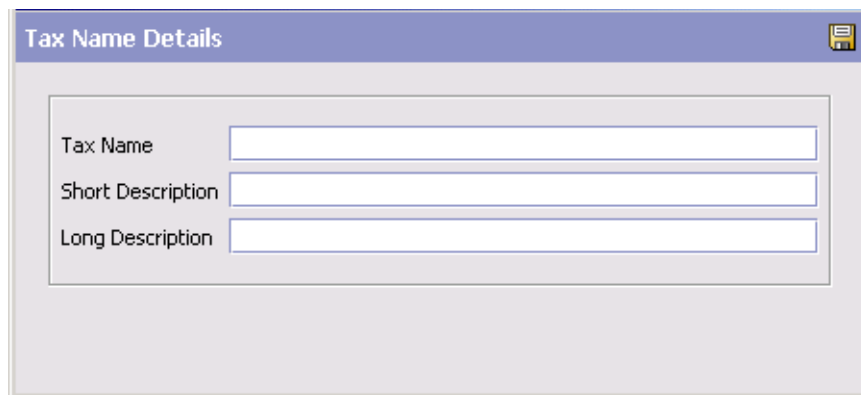
You can use the Tax Names tab for:

- [Creating a Tax Name](#)
- [Modifying a Tax Name](#)
- [Deleting a Tax Name](#)

18.3.1 Creating a Tax Name

To create a tax name:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Financials > Financial Attributes. The Financial window appears in the work area.
2. Choose the Tax Names tab.
3. Choose . The Tax Name Details pop-up window appears.





The screenshot shows a 'Tax Name Details' dialog box. It contains three text input fields: 'Tax Name', 'Short Description', and 'Long Description'. The 'Tax Name' field is the first and largest, followed by 'Short Description' and 'Long Description' stacked vertically. There is a small icon in the top right corner of the dialog box.

4. In Tax Name, enter the name of the tax name.
5. In Short Description, enter a brief description of the tax name.
6. In Long Description, enter a more detailed description of the tax name.

7. Choose .


18.3.2 Modifying a Tax Name

To modify a tax name:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Financials > Financial Attributes. The Financial window appears in the work area.
2. Choose the Tax Names tab.
3. Select the applicable tax name and choose . The Tax Name Details pop-up window appears.
4. In Short Description, enter a brief description of the tax name.
5. In Long Description, enter a more detailed description of the tax name.
6. Choose .

18.3.3 Deleting a Tax Name

To delete a tax name:

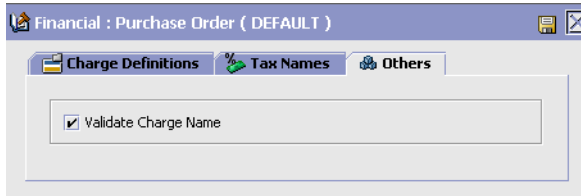
1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Financials > Financial Attributes. The Financial window appears in the work area.
2. Choose the Tax Names tab.
3. Select the applicable tax name and choose .

18.4 Defining Additional Payment Rules

You can set up payment collection rules that are used when an order is sent for payment authorization.

To define additional payment rules:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Financials > Financial Attributes. The Financial window appears in the work area.
2. Choose the Others tab.




3. Enter information in the applicable fields. Refer to [Table 7–6](#) for field value descriptions.
4. Choose .

Table 18–1 Others Tab

Field	Description
Hold Order For Authorization	Select this option if you want to hold the order for any authorization purposes.
Use Same Authorization Multiple Times	Select this option if you want to use the same authorization for multiple transactions.
Allow Refund To Exceed Charged Amount	Select this option if you want to allow the refunds to exceed to the amount charged.
Validate Charge Name	Select this field to indicate that the system is to check that the charge names used for an order document are valid before proceeding with payment collection.
Apply Price Change To Invoiced Quantity	Select this option to apply the price changes to the invoiced quantity.
Expiration for Authorization Days	Enter the number of days for the expiration of the authorization days.

18.5 Defining Receiving Discrepancy Reasons

You can define codes to specify reasons for any discrepancies that may occur during a receipt of a shipment or a return.

There are three types of receiving discrepancies:

- Over Receipt - Occurs when a receiving node receives additional quantity compared to the expected quantity.

- Under Receipt - Occurs when a receiving node receives less than the expected quantity for the receipt.
- Damaged Receipt - Occurs when the receiving disposition code indicates that a damaged product has been received.



Note: A given discrepancy type can have multiple reason codes defined for it. For example, if a shipment is received with a quantity of 10 under the expected receiving quantity, it is possible for the under receipt discrepancy to have two different reasons for the receipt, such as 6 units SHORT_SHIPMENT and 4 units CARRIER_FAULT.

You can use the Receiving Discrepancy Reasons branch for:

- [Creating a Receiving Discrepancy Reason](#)
- [Modifying a Receiving Discrepancy Reason](#)
- [Deleting a Receiving Discrepancy Reason](#)

18.5.1 Creating a Receiving Discrepancy Reason

To create a receiving discrepancy reason:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Receipt > Receiving Discrepancy Reasons. The Receiving Discrepancy Reasons window appears in the work area.
2. Choose . The Receiving Discrepancy Reason Details pop-up window appears.
3. Enter information into the applicable fields. Refer to [Table 18–2](#) for field value descriptions.
4. Choose .

Receiving Discrepancy Reason Details

Discrepancy Reason Code

Discrepancy Reason Description

Discrepancy Reference

Discrepancy Type Group

☒ Over Receipt ☐ Under Receipt ☐ Damaged Receipt

☐ Requires Invoice Adjustment

Invoice Adjustment Type Group

☐ Credit ☐ Debit

Invoice Line Reference

Table 18–2 Receiving Discrepancy Reason Details



Field	Description
Discrepancy Reason Code	Enter the name of the discrepancy reason code as you want it to appear throughout the system.
Discrepancy Reason Description	Enter a brief description of the reason discrepancy.
Discrepancy Reference	Enter any additional reference information according to your business practices.
Discrepancy Type Group	
Over Receipt	Select Over Receipt if you want the discrepancy reason to identify scenarios in which a receiving node receives more than the expected quantity.
Under Receipt	Select Under Receipt if you want the discrepancy reason to identify scenarios in which a receiving node receives less than the expected quantity.
Damaged Receipt	Select Damaged Receipt to identify scenarios in which a receiving node receives items with a receiving disposition identifying them as damaged.

Table 18–2 Receiving Discrepancy Reason Details

Field	Description
Requires Invoice Adjustment	Select Requires Invoice Adjustment if a monetary adjustment must be made when a receipt discrepancy is associated with this discrepancy reason.
Invoice Adjustment Type Group	
Credit	If you selected Requires Invoice Adjustment, select Credit if the adjustment amount results in a credit invoice.
Debit	If you selected Requires Invoice Adjustment, select Debit if the adjustment amount results in a debit invoice.
Invoice Line Reference	If you selected Requires Invoice Adjustment, enter a name for the adjustment. This reference value is used in instances when multiple adjustment invoices are created for the same order line, in which case they are split into different invoice lines if they have different invoice line references.

18.5.2 Modifying a Receiving Discrepancy Reason

To modify a receiving discrepancy reason:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Receipt > Receiving Discrepancy Reasons. The Receiving Discrepancy Reasons window appears in the work area.
2. Select the receiving discrepancy reason and choose . The Receiving Discrepancy Reason Details pop-up window appears.
3. Enter information into the applicable fields. Refer to [Table 18–2](#) for field value descriptions.
4. Choose .

18.5.3 Deleting a Receiving Discrepancy Reason

To delete a receiving discrepancy reason:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Receipt > Receiving Discrepancy

Reasons. The Receiving Discrepancy Reasons window appears in the work area.

2. Select the receiving discrepancy reason and choose .

Configuring a Document's Purge Criteria

Purge Criteria business rules are used to define qualifications around each type of purge. **Purges** are the process by which old data is removed from the system database. Purges minimize the number of unused database records to increase search efficiency and reduce the size of the required physical disk. In Purge Criteria Rules, default purge rules are provided. These can be modified for your system operations.

Table 19–1 lists the purge rules provided for order document types in Yantra 7x.

Table 19–1 Order Document Type Purge Rules


Rule	Description	Retention Days
ORDERHISTPRG	Purges order information from the order history tables.	30
ORDERPRG	Purges order information and archives it in the history tables.	30
PICKLISTPRG	Purges pick list information.	30
SHIPMENTHISTPRG	Purges shipment information from the shipment history tables.	30
SHIPMENTPRG	Purges shipment information and archives it in the history tables.	30
PRG_SHIP_STATS	Purges shipment statistics and archives them in the history tables.	30

Table 19–1 Order Document Type Purge Rules

Rule	Description	Retention Days
STATUSAUDITPRG	Purges order age alerts (if you have configured the system to trigger alerts when the order document type stays in a particular status for a specified time period).	30
NEGOTIATIONPRG	Purges negotiation information and archives it in the history tables.	30
NEGOTIATIONHISTPRG	Purges negotiation information from the negotiation history tables.	30
RECEIPTPRG	Purges receipt information and archives it in the history tables.	30
RECEIPTHISTPRG	Purges receipt information from the receipt history tables.	30

19.1 Modifying an Order Document Type's Purge Criteria Rule

To modify an order document type's purge criteria rule:

1. From the tree in the application rules side panel, choose Document Specific > (*Document Type*) > Purge Criteria. The Purge Criteria List window appears in the work area.
2. Enter information in the applicable fields. Refer to [Table 19–2, "Purge Criteria Details Pop-up Window"](#) for field value descriptions.
3. Choose .

Purge Criteria Details

Purge Code: ORDERHISTPRG Description: Order History Purge

Rollback Segment: Retention Days: 30

☒ Write To Log File Log File Name: Order_history_purge_data.log

Additional Purge Criteria

Line Type	Additional Retention Days
[E1 line type]	600
*	

Table 19–2 *Purge Criteria Details Pop-up Window*

Field	Description
Purge Code	Identifies a purge program. This is a system defined code.
Description	Describes the type of purge.
Rollback Segment	Defines the rollback segment that should be explicitly used for the purge transaction qualified by the purge code. This is useful when there are huge logical data sets that have to be purged. This is optional and used for order related purges.
Retention Days	Enter the number of days the data is to be retained in the database (going backwards from the time the program runs). Make sure that your table size takes into account the number of retention days entered here. Note: The inventory purge does not take retention days into account when purging.
Write to Log File	Select this field if you want purged data written to a log file. The log file can be backed up and used as a journal at a later date.

Table 19–2 Purge Criteria Details Pop-up Window

Field	Description
Log File Name	<p>Enter a log file name. The log file is created in the directory specified in the <code>yfs.purge.path</code> of the <code>yfs.properties</code> file. If a variable is introduced, then the <code>yfs.purge.path</code> is ignored. For more information on using variables for the log file directory refer to the <i>Yantra 7x Customization Guide</i>.</p> <p>For information about filename limitations related to internationalization, see the <i>Yantra 7x Localization Guide</i>.</p>
Additional Purge Criteria These parameters are used to override the order history purge lead days. This override is configured based on the line types within each order defined at the enterprise and document type levels. Note: These additional parameters can be defined only for order history purge (ORDHISTPRG) criteria.	
Line Type	Select the line types from the drop-down list. For more information on defining line types, refer to appropriate section in this guide.
Additional Retention Days	<p>Enter the additional number of days (apart from the retention days specified by the order history purge) the data is to be retained in the database. Make sure that your table size takes into account the number of retention days entered here.</p> <p>Note: To be considered for additional retention days, the order line must have at least some quantity that is not cancelled or shorted.</p>

Note: The history purge date cannot be reset when you restore the order after it was purged. For example, if an order is purged with a history purge date of 20070801 and when the order is restored in the year 2006, the history purge date still remains as 20070801.

The following example provides an use-case of the line type purge in an order placement scenario:

Example 19–1 Line Type Purge

An order is placed with the following 4 order lines:

- Order Line 1 - Television
- Order Line 2 - 2 year Television service plan with Line Type as 2YR_WARRANTY. Therefore, the additional retention days are 721.
- Order Line 3 - Stereo
- Order Line 4 - 4 year Stereo service plan with Line Type as 4YR_WARRANTY. Therefore, the additional retention days are 1451.

Assume that the order is set to be purged after 30 days. On day 1, the order moves into a purgeable status. On day 30, the order is purged to the history table. The purge history date is set as:

Today + 10 + Maximum(721, 1491) = 1491 days, where 10 is the number of lead days for the history purge.

On day 40, the history purge agent does not pick up this order to purge, since the purge history date is set. Rather, the order is purged from the history on day 1491.

Configuring Value-Added Services

Enterprises provide services along with the products they sell to their customers. Some examples of services provided include:

- Annual maintenance contract.
- Installing a customer's home theater system.
- Installing software on a new computer, and configuring the computer to work on a home network.

These services are either fulfilled by the enterprise, or by third-party service providers who have a relationship with the enterprise to provide such services.

Use Value Added Services for:

- [Defining Value-Added Services Modification Reasons](#)
- [Defining Value-Added Services Cancellation Reasons](#)
- [Defining Value-Added Services Appointment Failure Reasons](#)
- [Defining Value-Added Services Note Reasons](#)
- [Defining Value-Added Services Instruction Types](#)
- [Defining Value-Added Services Pre-Call Rules](#)
- [Defining Value-Added Services Modification Rules](#)
- [Defining Value-Added Services Hold Types](#)
- [Defining Value-Added Services Process Types](#)
- [Defining Value-Added Services Process Model](#)
- [Defining Value-Added Services Monitoring](#)

- [Viewing Value-Added Services Purge Criteria](#)

20.1 Defining Value-Added Services Modification Reasons


You can define reason codes for modifications. These codes define why modification was made by a user in the Application Consoles.

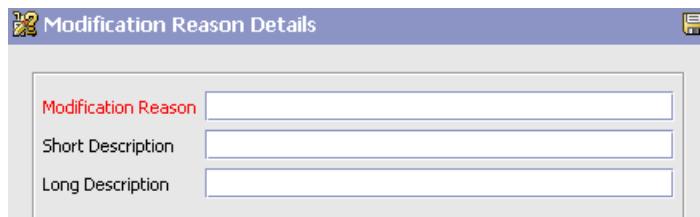
You can use the Modification Reasons branch for:

- [Creating a Modification Reason](#)
- [Modifying a Modification Reason](#)
- [Deleting a Modification Reason](#)

20.1.1 Creating a Modification Reason


To create a modification reason:

1. From the menu bar, choose Applications > Distributed Order Management. The Distributed Order Management tree is displayed in the side panel.
2. From the Distributed Order Management tree, choose VAS > Modification Reasons. The Modification Reasons window appears in the work area.
3. Choose . The Modification Reason Details window appears.





The image shows a screenshot of the 'Modification Reason Details' window. It has a title bar with a question mark icon and a save icon. The window contains three text input fields with labels: 'Modification Reason' (in red), 'Short Description', and 'Long Description'.

4. In Modification Reason, enter the modification reason as you want it to appear throughout the system.
5. In Short Description, enter a brief description of the modification reason.

6. In Long Description, enter a more detailed description of the modification reason.
7. Choose .



20.1.2 Modifying a Modification Reason

To modify a modification reason:

1. From the menu bar, choose Applications > Distributed Order Management. The Distributed Order Management tree is displayed in the side panel.
2. From the Distributed Order Management tree, choose VAS > Modification Reasons. The Modification Reasons window appears in the work area.
3. Select the applicable modification reason and choose . The Modification Reason Details window appears.
4. In Short Description, enter a brief description of the modification reason.
5. In Long Description, enter a more detailed description of the modification reason.
6. Choose .


20.1.3 Creating a New Modification Reason Based on an Existing One

To create a new modification reason based on an existing one:

1. From the menu bar, choose Applications > Distributed Order Management. The Distributed Order Management tree is displayed in the side panel.
2. From the Distributed Order Management tree, choose VAS > Modification Reasons. The Modification Reasons window appears in the work area.
3. Select the applicable modification reason and choose . The Modification Reason Details window appears.
4. Enter information in the applicable fields.
5. Choose .

20.1.4 Deleting a Modification Reason

To delete a modification reason:

1. From the menu bar, choose Applications > Distributed Order Management. The Distributed Order Management tree is displayed in the side panel.
2. From the Distributed Order Management tree, choose VAS > Modification Reasons. The Modification Reasons window appears in the work area.
3. Select the applicable modification reason and choose . The Confirmation window appears.
4. Choose OK.

20.2 Defining Value-Added Services Cancellation Reasons


You can define reason codes for cancellation. These codes define why cancellation was made by a user in the Application Consoles.

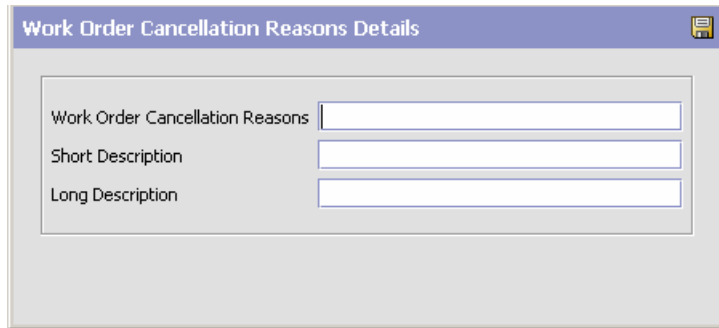
You can use the Cancellation Reasons branch for:

- [Creating a Cancellation Reason](#)
- [Modifying a Cancellation Reason](#)
- [Deleting a Cancellation Reason](#)

20.2.1 Creating a Cancellation Reason

To create a cancellation reason:

1. From the menu bar, choose Applications > Distributed Order Management. The Distributed Order Management tree is displayed in the side panel.
2. From the Distributed Order Management tree, choose VAS > Cancellation Reasons. The Cancellation Reasons window appears in the work area.
3. Choose . The Cancellation Reason Details window appears.




Work Order Cancellation Reasons Details

Work Order Cancellation Reasons


Short Description

Long Description

4. In Cancellation Reason, enter the cancellation reason as you want it to appear throughout the system.
5. In Short Description, enter a brief description of the cancellation reason.
6. In Long Description, enter a more detailed description of the cancellation reason.
7. Choose .

20.2.2 Modifying a Cancellation Reason



To modify a cancellation reason:

1. From the menu bar, choose Applications > Distributed Order Management. The Distributed Order Management tree is displayed in the side panel.
2. From the Distributed Order Management tree, choose VAS > Cancellation Reasons. The Cancellation Reasons window appears in the work area.
3. Select the applicable cancellation reason and choose . The Cancellation Reason Details window appears.
4. In Short Description, enter a brief description of the cancellation reason.
5. In Long Description, enter a more detailed description of the cancellation reason.

6. Choose .


20.2.3 Creating a New Cancellation Reason Based on an Existing One

To create a new cancellation reason based on an existing one:

1. From the menu bar, choose Applications > Distributed Order Management. The Distributed Order Management tree is displayed in the side panel.
2. From the Distributed Order Management tree, choose VAS > Cancellation Reasons. The Cancellation Reasons window appears in the work area.
3. Select the applicable cancellation reason and choose . The Cancellation Reason Details window appears.
4. Enter information in the applicable fields.
5. Choose .

20.2.4 Deleting a Cancellation Reason

To delete a cancellation reason:

1. From the menu bar, choose Applications > Distributed Order Management. The Distributed Order Management tree is displayed in the side panel.
2. From the Distributed Order Management tree, choose VAS > Cancellation Reasons. The Cancellation Reasons window appears in the work area.
3. Select the applicable cancellation reason and choose . The Confirmation window appears.
4. Choose OK.

20.3 Defining Value-Added Services Appointment Failure Reasons


You can define reason codes for appointment failures. These codes define why an appointment was failed by a user in the Application Consoles.

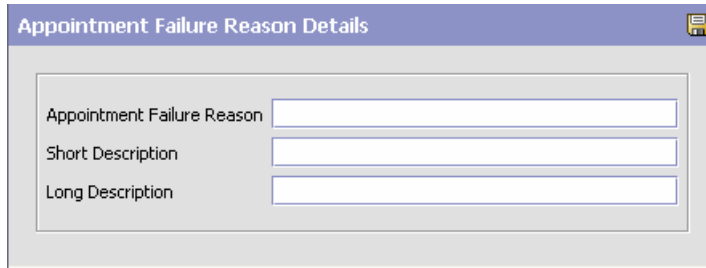
You can use the Appointment Failure Reasons branch for:

- [Creating a Appointment Failure Reason](#)
- [Modifying a Appointment Failure Reason](#)
- [Deleting a Appointment Failure Reason](#)


20.3.1 Creating a Appointment Failure Reason

To create a appointment failure reason:

1. From the menu bar, choose Applications > Distributed Order Management. The Distributed Order Management tree is displayed in the side panel.
2. From the Distributed Order Management tree, choose VAS > Appointment Failure Reasons. The Appointment Failure Reasons window appears in the work area.
3. Choose . The Appointment Failure Reason Details window appears.





The screenshot shows a software window titled "Appointment Failure Reason Details". Inside the window, there is a light gray rectangular area containing three text input fields. The first field is labeled "Appointment Failure Reason", the second is labeled "Short Description", and the third is labeled "Long Description". Each label is positioned to the left of its corresponding text box. The window also features a standard title bar with the text "Appointment Failure Reason Details" and a small icon on the right side.

4. In Appointment Failure Reason, enter the failure reason as you want it to appear throughout the system.
5. In Short Description, enter a brief description of the appointment failure reason.
6. In Long Description, enter a more detailed description of the appointment failure reason.
7. Choose .



20.3.2 Modifying a Appointment Failure Reason

To modify a Appointment Failure reason:

1. From the menu bar, choose Applications > Distributed Order Management. The Distributed Order Management tree is displayed in the side panel.
2. From the Distributed Order Management tree, choose VAS > Appointment Failure Reasons. The Appointment Failure Reasons window appears in the work area.
3. Select the applicable appointment failure reason and choose . The Appointment Failure Reason Details window appears.
4. In Short Description, enter a brief description of the appointment failure reason.
5. In Long Description, enter a more detailed description of the appointment failure reason.
6. Choose .

20.3.3 Creating a New Appointment Failure Reason Based on an Existing One


To create a new Appointment Failure reason based on an existing one:

1. From the menu bar, choose Applications > Distributed Order Management. The Distributed Order Management tree is displayed in the side panel.
2. From the Distributed Order Management tree, choose VAS > Appointment Failure Reasons. The Appointment Failure Reasons window appears in the work area.
3. Select the applicable appointment failure reason and choose . The Appointment Failure Reason Details window appears.
4. Enter information in the applicable fields.
5. Choose .

20.3.4 Deleting a Appointment Failure Reason

To delete a Appointment Failure reason:

1. From the menu bar, choose Applications > Distributed Order Management. The Distributed Order Management tree is displayed in the side panel.

2. From the Distributed Order Management tree, choose VAS > Appointment Failure Reasons. The Appointment Failure Reasons window appears in the work area.
3. Select the applicable appointment failure reason and choose . The Confirmation window appears.
4. Choose OK.

20.4 Defining Value-Added Services Note Reasons


You can define reason codes for entering a note. These codes define why a note was entered by a user in the Yantra 7x Application Consoles.

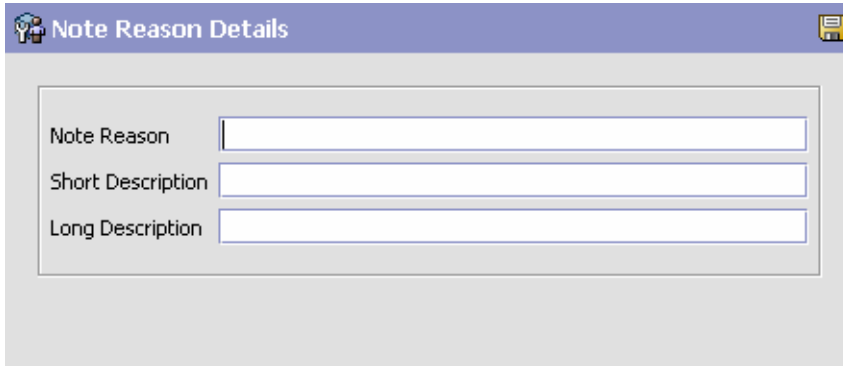
You can use the Note Reasons branch for:

- [Creating a Note Reason](#)
- [Modifying a Note Reason](#)
- [Deleting a Note Reason](#)


20.4.1 Creating a Note Reason

To create a note reason:

1. From the menu bar, choose Applications > Distributed Order Management. The Distributed Order Management tree is displayed in the side panel.
2. From the Distributed Order Management tree, choose VAS > Note Reasons. The Note Reasons window appears in the work area.
3. Choose . The Note Reason Details window appears.





The screenshot shows a software window titled "Note Reason Details". It contains three text input fields stacked vertically, each with a label to its left: "Note Reason", "Short Description", and "Long Description". The window has a standard title bar with a small icon on the left and a save icon on the right.

4. In Note Reason, enter the note reason as you want it to appear throughout the system.
5. In Short Description, enter a brief description of the note reason.
6. In Long Description, enter a more detailed description of the note reason.
7. Choose .



20.4.2 Modifying a Note Reason

To modify a note reason:

1. From the menu bar, choose Applications > Distributed Order Management. The Distributed Order Management tree is displayed in the side panel.
2. From the Distributed Order Management tree, choose VAS > Note Reasons. The Note Reasons window appears in the work area.
3. Select the applicable appointment failure reason and choose . The Note Reason Details window appears.
4. In Short Description, enter a brief description of the note reason.
5. In Long Description, enter a more detailed description of the note reason.
6. Choose .


20.4.3 Creating a New Note Reason Based on an Existing One

To create a new note reason based on an existing one:

1. From the menu bar, choose Applications > Distributed Order Management. The Distributed Order Management tree is displayed in the side panel.
2. From the Distributed Order Management tree, choose VAS > Note Reasons. The Note Reasons window appears in the work area.
3. Select the applicable note reason and choose . The Note Reason Details window appears.
4. Enter information in the applicable fields.
5. Choose .

20.4.4 Deleting a Note Reason

To delete a note reason:

1. From the menu bar, choose Applications > Distributed Order Management. The Distributed Order Management tree is displayed in the side panel.
2. From the Distributed Order Management tree, choose VAS > Note Reasons. The Note Reasons window appears in the work area.
3. Select the applicable appointment failure reason and choose . The Confirmation window appears.
4. Choose OK.

20.5 Defining Value-Added Services Instruction Types

You can define the common codes used when adding special instructions to an work order document.


You can use the Instruction Types branch for:

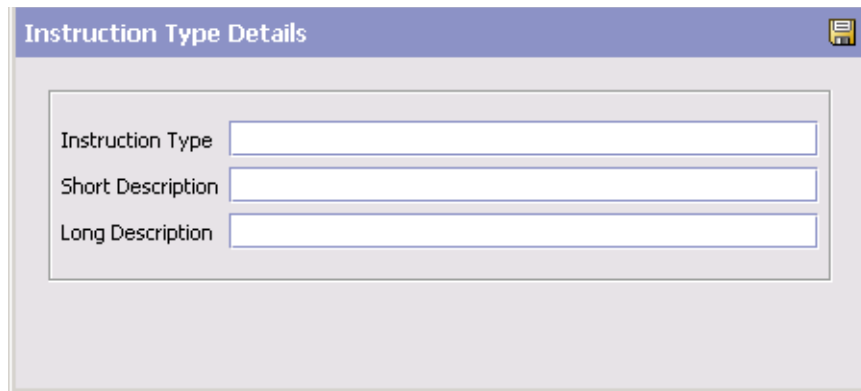
- [Creating an Instruction Type](#)
- [Modifying an Instruction Type](#)


- [Deleting an Instruction Type](#)

20.5.1 Creating an Instruction Type

To create an instruction type:

1. From the menu bar, choose Applications > Distributed Order Management. The Distributed Order Management tree is displayed in the side panel.
2. From the Distributed Order Management tree, choose VAS > Instruction Types. The Instruction Types window appears in the work area. Choose . The Instruction Type Details pop-up window appears.






3. In Instruction Type, enter the instruction type.
4. In Short Description, enter a brief description of the instruction type.
5. In Long Description, enter a more detailed description of the instruction type.
6. Choose .

20.5.2 Modifying an Instruction Type



To modify an instruction type:

1. From the menu bar, choose Applications > Distributed Order Management. The Distributed Order Management tree is displayed in the side panel.

2. From the Distributed Order Management tree, choose VAS > Instruction Types. The Instruction Types window appears in the work area. Choose . The Instruction Type Details pop-up window appears.
3. Select the applicable instruction type and choose . The Instruction Type Details pop-up window appears.
4. In Short Description, enter a brief description of the instruction type.
5. In Long Description, enter a more detailed description of the instruction type.
6. Choose .

20.5.3 Deleting an Instruction Type

To delete an instruction type:

1. From the menu bar, choose Applications > Distributed Order Management. The Distributed Order Management tree is displayed in the side panel.
2. From the Distributed Order Management tree, choose VAS > Instruction Types. The Instruction Types window appears in the work area. Choose . The Instruction Type Details pop-up window appears.
3. Select the applicable instruction type and choose .

20.6 Defining Value-Added Services Pre-Call Rules

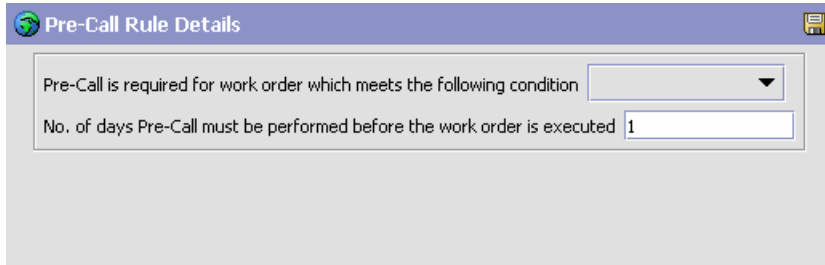
Pre-calling a customer is required for appointments that are made for distant dates. You can make a pre-calls closer to the service date, to confirm the appointment from the customer.


20.6.1 Setting Up Value-Added Services Pre-Call Rules

To set up Value-Added Services pre-call rules:

1. From the menu bar, choose Applications > Distributed Order Management. The Distributed Order Management tree is displayed in the side panel.

2. From the Distributed Order Management tree, choose VAS > VAS Process > Pre-Call Rules. The Pre-Call Rule Details window appears in the work area.



3. Select the appropriate condition for which you need to make a pre-call.
4. Enter how many days in advance you need to make a pre-call closer to the appointment date.
5. Choose .

20.7 Defining Value-Added Services Modification Rules

You can configure the rules and components used when determining what parts of value-added services can be modified as well as when in the value-added services lifecycle the modifications can be performed.

Most work order document types flow through a pipeline without requiring any intervention by a customer service representative. However, there are times when modifications are required, such as modifying appointments. Yantra 7x supports modifications through the Yantra 7x Application Consoles and APIs. It is critical to decide which modifications are allowed for each modification type, modification level, and status combination.

Important: Contemplate business and system integration implications before allowing a modification that is disallowed as part of the system defaults.

20.7.1 Setting Up Value-Added Services Modification Rules

You can group modifications in the Modification Rules window by modification type, modification level, or status, by selecting the corresponding grouping from Group By. The Modification Rules window then displays the grouping you have chosen in a hierarchical structure.

To set up Value-Added Services modification rules:

1. From the menu bar, choose Applications > Distributed Order Management. The Distributed Order Management tree is displayed in the side panel.
2. From the Distributed Order Management tree, choose VAS > VAS Process > VAS Modification Rules. The Modification Rules window appears in the work area.



3. Expand the applicable modification types and levels for which you want to set up rules.
4. Select the Value-Added Services process whose Modification Rule is to be set, and choose any of the following option as per your business practices:




-  to allow modification
 -  to disallow modification
 -  to ignore modification
5. Refer to the following table for settings definition you can apply to modifications:

Table 20–1 Value-Added Services Rule Modifications

Field	Description
Allow	Indicates whether or not modifications may be made at this modification level and type for the specified status.
Disallow	Indicates that no modifications may be made at this modification level and type for the specified status.
Ignore	Indicates that modifications are ignored at this modification level and type for the specified status.
There are several scenarios to consider for the Allow, Disallow, and Ignore settings: <ul style="list-style-type: none">• If one line is in status 1 and another line is in status 2 - and both statuses are set to Allow, the modification is allowed.• If one line is in status 1, another line is in status 2, and another is in status 3 - and the 1 and 2 statuses are set to Allow, but the 3 status is set to Disallow, all modifications are disallowed, because one of the currently applied statuses is disallowed.• If one line is in status 1 and one is in the extended status 2 - If the 1 status is set to Allow, but the extended status is set to Ignore (all extended statuses are defaulted to ignore, so that they pick up their base status settings unless you have explicitly overridden the setting) then all modifications are allowed only if the base status is set to allow. If the base status is set to disallow, then all modifications are disallowed.	

20.8 Defining Value-Added Services Hold Types

Work orders can be placed on hold manually or automatically, by applying a particular hold type. Certain transactions can be configured to not process documents that are on a given hold. Likewise, modification types can be configured to not process documents that are on a given

hold. By default, all transactions and modification types are allowed to process all documents for all hold types.



The transactions that can be prevented from processing work orders on a given hold type have the checkbox *This Transaction Can Be Stopped From Processing Orders That Are On Hold* checked in the *Others* tab of the transaction details. For more information about viewing transaction details, refer to the *Yantra 7x Platform Configuration Guide*.



You can use the Hold Types branch for:

- [Creating a Hold Type](#)
- [Modifying a Hold Type](#)
- [Deleting a Hold Type](#)

20.8.1 Creating a Hold Type

To create a hold type:

1. From the tree in the application rules side panel, choose VAS > VAS Process > Hold Types. The Hold Types window is displayed in the work area.
2. Click . The Hold Type pop-up window appears. The type of this hold in the Hold Type field, and its description in the Description field. Enter the rest of the information in the applicable fields. Refer to [Table 20–2](#), [Table 20–3](#) and [Table 20–4](#) for field value descriptions.
3. Click .

 **Hold Type** 

Hold Type Hold Type Description

Hold Creation **Hold Resolution** **Hold Effects**

Hold Created Automatically


☐ On Work Order Creation

☐ On Resolution Of The Hold Type

☐ When The Following Modifications Are Performed

Modification Type	Modification Level
-------------------	--------------------

☒ For All Work Orders

☐ Only For Work Orders Satisfying The Following Condition 

Hold Created Manually

☒ By Any User

☐ By Users Who Belong To The Following Groups

Group ID	Group Name
----------	------------

Table 20–2 Hold Type window, Hold Creation tab

Field	Description
Hold Created Automatically	
On Work Order Creation	Check this to apply this hold type to all work orders on work order creation.

Table 20–2 *Hold Type window, Hold Creation tab*



Field	Description
On Resolution Of Hold Type	<p>Check this to apply this hold type on resolution of another hold type. Select from the drop-down list the hold type that, upon resolution, will trigger this hold type.</p> <p>Note: Yantra 7x will not check whether or not you are defining a circular hold type definition. For example, if you define hold type B as being applied on resolution of hold type A, and hold type A as being applied on resolution of hold type B, you could create an infinite loop that Yantra 7x will not warn you against.</p>
When The Following Modifications Are Performed	<p>Modification types that automatically apply this hold type to a work order.</p> <p>Click  to modify the list. In the subsequent pop-up window:</p> <ul style="list-style-type: none"> • Use the right arrow to move the available modification types that you wish to associate with this hold type to the subscribed list. • Use the left arrow to unsubscribe the modification types that you wish to disassociate with this hold type and move them back into the available list.
For All Work Orders	<p>Select this radio button if the above conditions should be checked for all work orders.</p> <p>Note: This option will only be selectable once the created hold has been saved.</p>
Only For Work Orders Satisfying Following Condition	<p>Select this radio button if the above conditions should only be checked for work orders satisfying a certain condition. Click  to build or modify the condition that will be evaluated. For more information on using the condition builder, refer to the <i>Yantra 7x Platform Configuration Guide</i>.</p> <p>The available attributes for this condition can be extended. For more information, refer to the <i>Yantra 7x Customization Guide</i>.</p> <p>Note: This option will only be selectable once the created hold has been saved.</p>
Hold Created Manually	

Table 20–2 *Hold Type window, Hold Creation tab*


Field	Description
By All Users	Select this radio button if all user groups can apply this hold to a work order.
By Users Who Belong To The Following User Groups	<p>Select this radio button if only users belonging to certain user groups may apply this hold to a work order.</p> <p>Click  to modify the list. In the subsequent pop-up window:</p> <ul style="list-style-type: none"> • Use the right arrow to move the available user groups that you wish to associate with this hold type to the subscribed list. • Use the left arrow to unsubscribe the user groups that you wish to disassociate with this hold type and move them back into the available list.

Table 20–3 *Hold Type window, Hold Resolution tab*

Field	Description
Hold Resolved Automatically	
The Following Time-Triggered Transaction Will Process Created Holds	From the drop-down list, select the time-triggered transaction that will process created holds.
The Following Time-Triggered Transaction Will Process Rejected Holds	from the drop-down list, select the time-triggered transaction that will process rejected holds.
Hold Resolved Manually	

Table 20–3 *Hold Type window, Hold Resolution tab*






Field	Description
By All Users	Select this radio button if all user groups may process this hold.
By All Users Who Belong To The Following Groups	<p>Select this radio button if only users belonging to certain user groups may process this hold.</p> <p>Click  to modify the list. In the subsequent pop-up window:</p> <ul style="list-style-type: none"> • Use the right arrow to move the available user groups that you wish to associate with this hold type to the subscribed list. • Use the left arrow to unsubscribe the user groups that you wish to disassociate with this hold type and move them back into the available list.

Table 20–4 *Hold Type window, Hold Effects tab*


Fields	Description
The Following Transactions Will Be Stopped From Processing Work Orders	<p>Transactions that are disallowed when this hold type is applied to a work order.</p> <p>Click  to modify the list. In the subsequent pop-up window:</p> <ul style="list-style-type: none"> Use the right arrow to move the available modification types that you wish to associate with this hold type to the subscribed list. <p>Use the left arrow to unsubscribe the modification types that you wish to disassociate with this hold type and move them back into the available list.</p>
The Following Modifications Are Not Allowed For Work Orders On This Hold	<p>Modification types are disallowed when this hold type is applied to a work order.</p> <p>Click  to modify the list. In the subsequent pop-up window:</p> <ul style="list-style-type: none"> Use the right arrow to move the available transactions that you wish to associate with this hold type to the subscribed list. <p>Use the left arrow to unsubscribe transactions that you wish to disassociate with this hold type and move them back into the available list.</p>

20.8.2 Modifying a Hold Type

1. From the tree in the application rules side panel, choose VAS > VAS Process > Hold Types. The Hold Types window is displayed in the work area.
2. Select the applicable hold type and click . The Hold Type pop-up window appears. Enter information in the applicable fields. Refer to [Table 20–2](#), [Table 20–3](#) and [Table 20–4](#) for field value descriptions.
3. Click .

20.8.3 Deleting a Hold Type

1. From the tree in the application rules side panel, choose VAS > VAS Process > Hold Types. The Hold Types window is displayed in the work area.

2. Select the applicable hold type and click .

20.9 Defining Value-Added Services Process Types

Value Added Services Process Type Details define parameters and templates that distinguish a process type.

A process type pipeline is a series of transactions and statuses that guide document types, such as a Value Added Services execution, through a predefined process. You can also set up transactions consisting of events, actions, and conditions, as they pertain to the pipeline you are configuring.

VAS Repositories

A value-added services repository is a logical collection of entities that define the business process workflow.

The following entities are included in a repository:

- Pipelines
- Transactions
- Statuses
- Conditions
- Actions
- Service Definitions

20.9.1 Viewing Value-Added Services Process Type Details

To view Value-Added Services process type details:

1. From the menu bar, choose Applications > Distributed Order Management. The Distributed Order Management tree is displayed in the side panel.
2. From the Distributed Order Management tree, choose VAS > VAS Process > VAS Process Type Details. The Process Type Details window appears in the work area.

Process Type Details : Work Order (DEFAULT)

Primary Info

Process Type	VAS	Process Type Name	VAS Process
Description	VAS Process		

3. In Process Type, VAS is automatically populated by the system.
4. In Process Type Name, the name of the process type is displayed, which is editable.
5. In Description, a brief description of the process type is displayed, which is editable.

20.10 Defining Value-Added Services Process Model

The Value-Added Services process is modeled through a pipeline. This represents the process configuration that is unique to an enterprise. For example, installing Television at the customer's site.

20.10.1 Pipeline Determination

Pipeline determination is used to set up conditions that affect which pipeline is used during the start of the business process workflow.

20.10.1.1 Hub Rule

When you expand the Pipeline Determination branch, the components displayed depends on what role you are logged in as. If you are logged in as a Hub role, the Hub Rule is displayed. If you are logged in as an Enterprise role, both the Hub Rule and all user created determination rules (For example, My Rule) components are displayed. Double-click on the Standard Work Order Pipeline rule to view the pipeline determination rules.

Note: If you are logged in as an Enterprise role, the Hub Rule screen is grayed out and cannot be modified.

Drag conditions and pipelines into the work area to construct pipeline determination rules. A single pipeline or condition must be the root.

Conditions cannot link back to an earlier component in the chain and a pipeline cannot be linked to twice.

Note: When configuring pipeline determination for an order document type pipeline, please note that pipeline determination is only considered when adding a line or creating an order. When changes are made to draft orders pipeline determination does not occur.

20.10.1.2 Condition Variables for Pipeline Determination

When using conditions for pipeline determination, the following condition variables can be used:

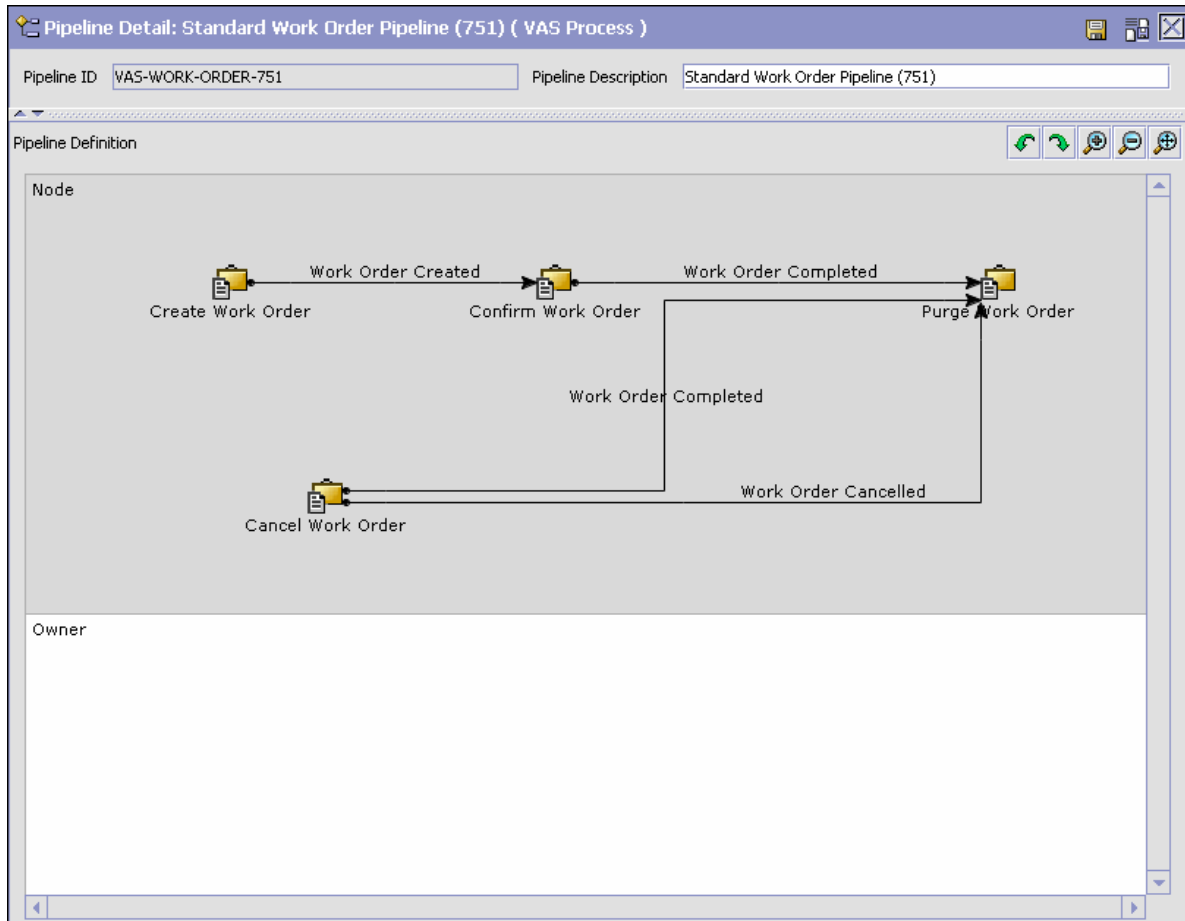
- Enterprise Code
- Node
- Provider Organization
- Service Item ID

20.10.2 Pipelines

To view Value-Added Services pipeline details:

1. From the menu bar, choose Applications > Distributed Order Management. The Distributed Order Management tree is displayed in the side panel.
2. From the Distributed Order Management tree, choose VAS > VAS Process > VAS Process Model > Pipelines > Standard Work Order Pipeline. The Pipeline Detail: Standard Work Order Pipeline (VAS Process) window appears in the work area.


For more information about creating, modifying, deleting, and monitoring rules, see the *Yantra 7x Platform Configuration Guide*.



20.10.3 Transactions

Every process type has a set of base transactions defined for it. A transaction is a logical unit of work that is necessary for performing activity within Yantra 7x. Base transactions are predefined transactions that contain information about how the transaction behaves, such as how many copies of a transaction can be kept in a process type and whether or not it can have configurable base pick and drop statuses. Base transactions can be used to create new transactions. These transactions can be changed within the limits defined in the base transaction.

To view the transaction details of Value-Added Services pipeline:

1. From the menu bar, choose Applications > Distributed Order Management. The Distributed Order Management tree is displayed in the side panel.
2. From the Distributed Order Management tree, choose VAS > VAS Process > VAS Process Models.
3. In the VAS window, choose . The Transactions tab window is displayed.

For more information about creating, modifying, or deleting transactions, see *Yantra 7x Platform Configuration Guide*.

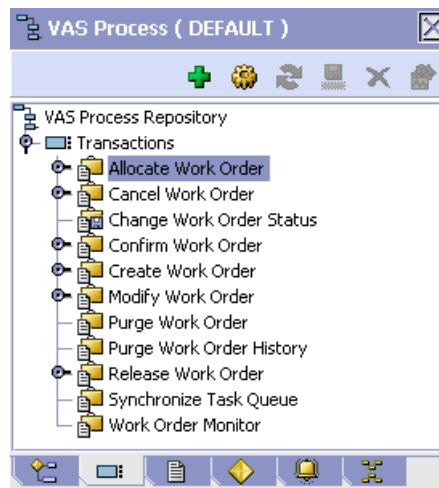


Table 20–5 Transactions Tab Window


Field	Description
Allocate Work Order	This transaction indicates the allocation of a work order created for VAS.
Cancel Work Order	This transaction indicates the cancellation of a work order created for VAS.
Change Work Order Status	This transaction indicates the change in status of a work order created for VAS.
Confirm Work Order	This transaction indicates that the work order needs to be confirmed for VAS.
Create Work Order	This transaction indicates creation of a work order for VAS.
Modify Work Order	This transaction indicates the modification of a work order for VAS.
Purge Work Order	This transaction indicates the purge of work orders created for VAS.
Purge Work Order History	This transaction indicates the purge of the work order history for VAS.
Release Work Order	The transaction indicates the release of a work order created for VAS.
Synchronize Task Queue	The transaction indicates synchronization of task queue for work orders created for VAS.
Work Order Monitor	This transaction indicates monitoring of work orders created for VAS.

20.10.4 Statuses

Statuses are the actual states that a document moves through in the pipeline. A transaction can contain two types of statuses, a drop status and a pickup status. A document is moved into a drop status when the events and conditions of a transaction have been completed. A pickup status takes the document from the previous drop status and moves it through the next transaction.

To view the status details of a Value-Added Services pipeline:

1. From the menu bar, choose Applications > Distributed Order Management. The Distributed Order Management tree is displayed in the side panel.

2. From the Distributed Order Management tree, choose VAS > VAS Process > VAS Process Models.
3. In the VAS window, choose . The Statuses tab window is displayed.

For more information about creating, modifying, or deleting statuses, see *Yantra 7x Platform Configuration Guide*.

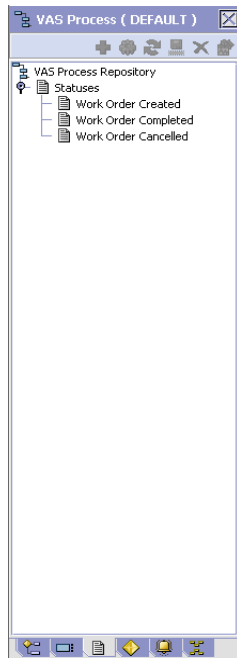


Table 20–6 Statuses Tab Window

Field	Description
Work Order Created	This indicates that a work order is created. This corresponds to the first step of the 'Create Work Order' transaction.


Table 20–6 *Statuses Tab Window*

Field	Description
Work Order Completed	This indicates that a work order is complete. This corresponds to the 'Confirm Work Order' transaction.
Work Order Cancelled	This indicates cancellation of a work order. This corresponds to the 'Cancel Work Order' transaction.

20.10.5 Conditions

A condition matches document type attributes against decision points and routes the documents to different paths based on the specified attribute and value combinations. The document type attributes against which conditions can be created are predefined in Yantra 7x. You can use these attributes in any combination or you can create conditions that execute the appropriate application logic for specific circumstances.

To view the condition details of a Value-Added Services pipeline:

1. From the menu bar, choose Applications > Distributed Order Management. The Distributed Order Management tree is displayed in the side panel.
2. From the Distributed Order Management tree, choose VAS > VAS Process > VAS Process Models.
3. In the VAS window, choose . The Conditions tab window is displayed.

For more information about creating, modifying, or deleting conditions, see *Yantra 7x Platform Configuration Guide*.

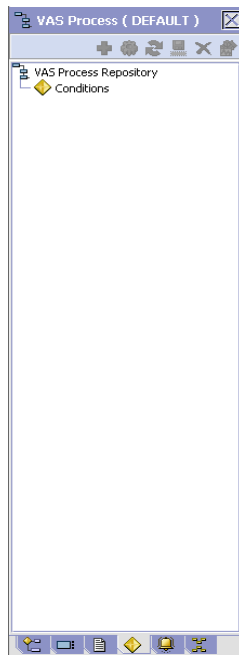


Table 20–7 Conditions Tab Window


Field	Description
Pre-Call	This indicates the pre-call conditions specific to VAS pipeline.
Service Status	This indicates the service status conditions specific to VAS pipeline.

20.10.6 Actions

An action is a process or program that is triggered by an event. These processes and programs send user alert notifications and automatically resolve issues.

For example, when the service is completed, you can set an action to send the customer an email.

To view the action details of a Value-Added Services pipeline:

1. From the menu bar, choose Applications > Distributed Order Management. The Distributed Order Management tree is displayed in the side panel.
2. From the Distributed Order Management tree, choose VAS > VAS Process > VAS Process Models.
3. In the VAS window, choose . The Actions tab window is displayed.

For more information about creating, modifying, or deleting actions, see *Yantra 7x Platform Configuration Guide*.

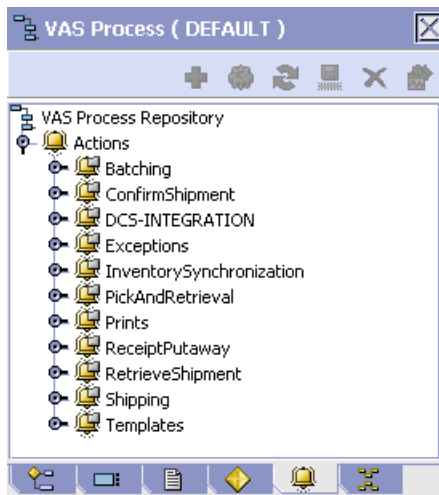



Table 20–8 Actions Tab Window

Field	Description
Templates	<p>Default settings are provided for:</p> <p>Publish Data—Sends data to external queue or internal tables.</p> <p>Raising an Exception—Raises an alert using Yantra 7x Event Management from the published information.</p> <p>Send Email—Raises an email action utilizing a template to format from the published information.</p> <p>Send Email-HTML format—Raises an email action to create an HTML email format from the published information.</p>

20.10.7 Service Definitions

Service definitions are a representation of the logic that regulates document workflow services. The Service Builder is a graphical interface that enables you to create a graphical representation of these services.

To view the service definition details of a Value-Added Services pipeline:

1. From the menu bar, choose Applications > Distributed Order Management. The Distributed Order Management tree is displayed in the side panel.
2. From the Distributed Order Management tree, choose VAS > VAS Process > VAS Process Models.
3. In the VAS window, choose . The Service Definitions tab window is displayed.

For more information about creating, modifying, or deleting service conditions, see *Yantra 7x Platform Configuration Guide*.

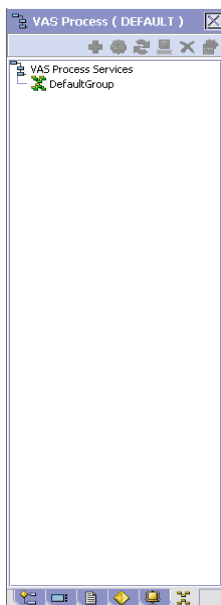


Table 20–9 Service Conditions Tab Window

Field	Description
Service Definitions	Displays service definitions that are specific to the VAS pipeline.

20.11 Defining Value-Added Services Monitoring

Use Value-Added Services Monitoring to view Date Types and configure Monitoring Events.

20.11.1 Viewing Value-Added Services Date Types

You can view Value-Added Services date types.

To view date types:

1. From the menu bar, choose Applications > Distributed Order Management. The Distributed Order Management tree is displayed in the side panel.
2. From the Distributed Order Management tree, choose VAS > VAS Process > VAS Monitoring. The Monitoring : Work Order window appears. Choose the Date Types tab.

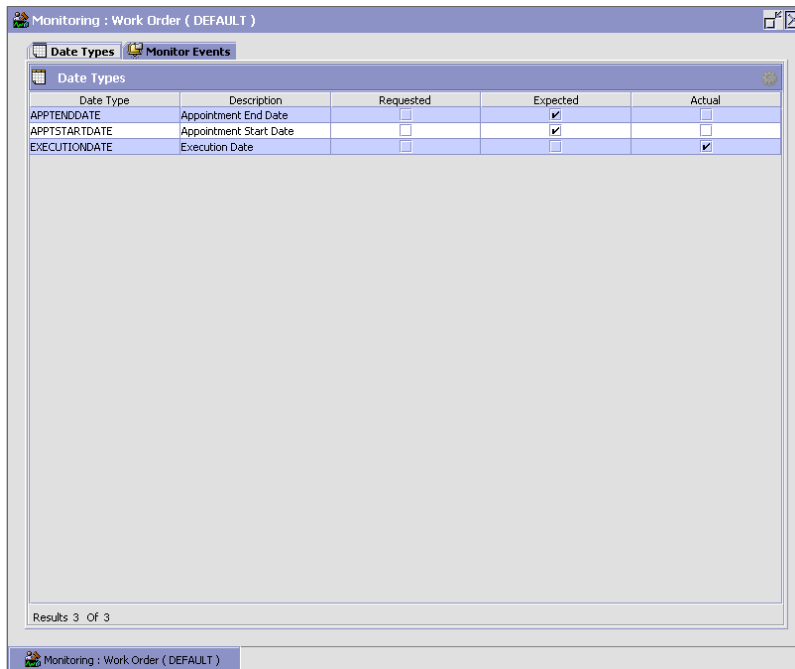


Table 20–10 Monitoring : Work Order - Date Types

Field	Description
Date Type	The name of VAS date type.
Description	The date type description.
Requested	Indicates if the date type is requested by a user.
Expected	Indicates if the date type represents a date the system expects or has calculated something to occur.
Actual	Indicate if the date type represents the actual date.

20.11.2 Defining Value-Added Services Event Monitoring

Events are used in instances where the Work Order Monitor may raise multiple alerts of the same type. For example, for a work order if the pre-call status is pending, and you have configured the Work Order Monitor to raise alerts and if the pre-call confirmation is delayed, an alert

would be raised against the work order. You can create rules to aggregate all of these similar alerts and raise one "root cause".

You can use the Event Monitoring tab for:


- [Creating an Event Rule](#)
- [Modifying an Event](#)
- [Creating a New Event](#)
- [Deleting an Event](#)

Table 20–11 *View Events*

Field	Description
Event ID	The event ID.
Description	A brief description of the event.

20.11.2.1 Creating an Event Rule

To create an event rule:

1. From the menu bar, choose Applications > Distributed Order Management. The Distributed Order Management tree is displayed in the side panel.
2. From the Distributed Order Management tree, choose VAS > VAS Process > VAS Monitoring. The Monitoring : Work Order window appears. Choose the Monitor Events tab.
3. In the Monitor Events list window, choose . The Monitor Event Details pop-up window appears.

Monitor Event Details

Event Id

Description

☐ Requires Realert Realert Interval

Event Identified By

☒ WorkOrder

Service To Be Invoked

Aggregate And Invoke Service For

☒ WorkOrder


4. Enter information in the applicable fields. Refer to [Table 20–12](#) for field level descriptions.
5. Choose .

Table 20–12 Event Monitoring



Field	Description
Event ID	The event ID.
Description	A brief description of the event.
Requires Realert	Select this field if you want users to be re-alerted if the issue has not been resolved within a certain timeframe.
Realert Interval	If you selected Requires Realert, enter the interval (in hours) that re-alerts should be sent.
Event Identified By	
Work Order	Select this field if you want two or more alert conditions to be treated the same, belonging to the same work order.
Service To Be Invoked	Select the service to be invoked, whenever the event is raised.

Table 20–12 Event Monitoring

Field	Description
Aggregate And Invoke Service For	
Work Order	Select this field if you want only one alert to be raised for a work order when alert conditions are detected.



20.11.2.2 Modifying an Event

To modify an event rule:

1. From the menu bar, choose Applications > Distributed Order Management. The Distributed Order Management tree is displayed in the side panel.
2. From the Distributed Order Management tree, choose VAS > VAS Process > VAS Monitoring. The Monitoring : Work Order window appears. Choose the Monitor Events tab.
3. In the Monitor Events window, choose . The Monitor Event Details window appears.
4. Enter information in the applicable fields. Refer to [Table 20–12](#) for field level descriptions.
5. Choose .


20.11.2.3 Creating a New Event

To create a new event rule:

1. From the menu bar, choose Applications > Distributed Order Management. The Distributed Order Management tree is displayed in the side panel.
2. From the Distributed Order Management tree, choose VAS > VAS Process > VAS Monitoring. The Monitoring : Work Order window appears. Choose the Monitor Events tab.
3. In the Monitor Events window, choose . The Monitor Event Details window appears.
4. Choose .

20.11.2.4 Deleting an Event

To delete an event:

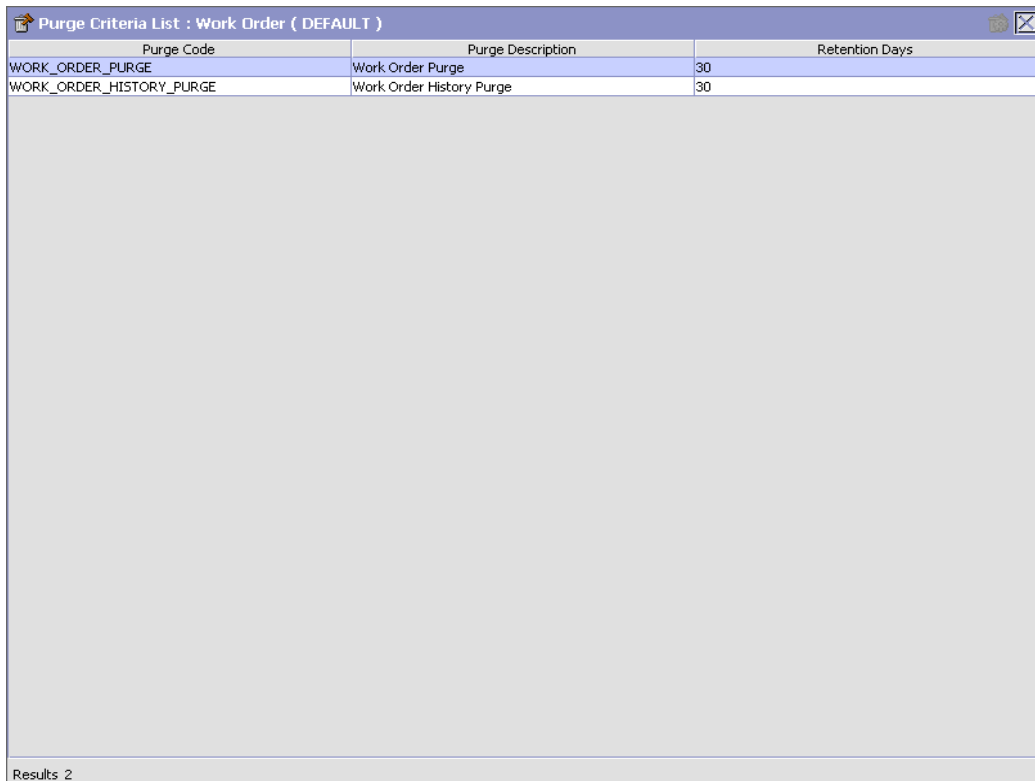
1. From the menu bar, choose Applications > Distributed Order Management. The Distributed Order Management tree is displayed in the side panel.
2. From the Distributed Order Management tree, choose VAS > VAS Process > VAS Monitoring. The Monitoring : Work Order window appears. Choose the Monitor Events tab.
3. In the Monitor Events window, choose . The Confirmation window appears.
4. Choose OK.

20.12 Viewing Value-Added Services Purge Criteria

Transactional data collected by Yantra 7x during the execution are periodically removed from the 'live' transactional tables. It is common to retain work order related information for extended period of time. There are history tables provided for relevant transactional tables to move data from the day-to-day 'live' tables to a historical table. Purges are the process by which old data is removed from the system database. Purges minimize the number of unused database records to increase search efficiency and reduce the size of the required physical disk.

To view purge criteria:

1. From the menu bar, choose Applications > Distributed Order Management. The Distributed Order Management tree is displayed in the side panel.
2. From the Distributed Order Management tree, choose VAS > VAS Process > Purge Criteria. The Purge Criteria List window appears.



Purge Code	Purge Description	Retention Days
WORK_ORDER_PURGE	Work Order Purge	30
WORK_ORDER_HISTORY_PURGE	Work Order History Purge	30

Results 2

Table 20–13 *Purge Criteria*

Field	Description
Purge Code	Identifies a purge program. This is a system defined code.
Purge Description	A brief description of the purge.
Retention Days	Automatically purges the work order information on exceeding the specified retention days.

Time-Triggered Transaction Reference

Yantra 7x provides a collection of time-triggered transactions, which are utilities that perform a variety of individual functions, automatically and at specific time intervals.

Time-triggered transactions perform repetitive actions on a scheduled basis, typically performing database updates, raising events, or calling APIs. One type of transaction, monitors, are designed to watch for processes or circumstances that are out of bounds and then raise alerts. Often, but not always, they retrieve tasks from the task queue or work from the pipeline.

Some transactions enable you to collect statistical data regarding the application's health. This data is collected periodically, using the value specified for the `yantra.statistics.persist.interval` attribute in the `yfs.properties` file. By default, statistics collection set to "on."

For more information about statistics persistence, see the *Yantra 7x Performance Management Guide*. For more information about the specific statistics parameters used, see the applicable time-triggered transactions.

The time-triggered transactions described in this appendix are unique transactions, that may or may not be document type specific. For document specific transactions, the nomenclature helps define which unique transaction it is based on: a transaction ID will be in the format `Unique_Transaction_ID.Document_Type_Code`. For example, the transaction ID for Purge Return is `PURGE.0003`, indicating that it is based on the unique transaction `PURGE`, for document type `0003`, which is Return Order. Therefore, in order to be able to configure Purge Return, you should look for the `PURGE` transaction ID in this appendix, which is Order Purge.

Yantra 7x provides the following types of time-triggered transactions:

- [Business Process Time-Triggered Transactions](#) - responsible for processing
- [Time-Triggered Purge Transactions](#) - clear out data that may be discarded after having been processed
- [Task Queue Syncher Time-Triggered Transactions](#) - update the task queue repository with the latest list of open tasks to be performed by each transaction, based on the latest pipeline configuration.
- [Monitors](#) - watch and send alerts for processing delays and exceptions

Yantra 7x tracks the following statistics for each time-triggered transaction:

- `ExecuteMessageCreated` - The number of jobs added to the JMS queue in a given time interval.
- `ExecuteMessageSuccess` - The number of jobs that were executed successfully in a given time interval.
- `ExecuteMessageError` - The number of jobs that failed to execute in a given time interval.
- `GetJobsProcessed` - The number of `GetJob` messages that were processed in a given time interval.

Note: Some of the statistics collected and tracked in Release 7.5 SP1 for time-triggered transactions, monitors, and integration and application servers may change with the next release of Yantra.

A.1 Running Time-Triggered Transactions

All time-triggered transactions are threadable. This means that you can run multiple instances of a transaction within a single process. For information on running time-triggered transactions, see the *Yantra 7x Installation Guide*. For information on fine-tuning system performance while running them concurrently, see the *Yantra 7x Performance Management Guide*.

A.2 Business Process Time-Triggered Transactions

This section provides an alphabetical list of all business process transactions.

Note: Some of the statistics collected and tracked in Release 7.5 SP1 for time-triggered transactions, monitors, and integration and application servers may change with the next release of Yantra.

Note: All Business Process Time-Triggered Transactions have a `CollectPendingJobs` criteria parameter. If this parameter is set to `N`, the agent will not collect information on the pending jobs for that time-triggered transaction. This pending job information is used for monitoring the agent in the *Yantra 7x System Management Guide*.

By default, `CollectPendingJobs` is set to `Y`. It can be helpful to set it to `N` if one particular time-triggered transaction is performing a significant amount of `getPendingJobs` queries, and the overhead cost is too high.

A.2.1 Change Load Status

This transaction is equivalent to the `changeLoadStatus()` API. For detailed information about this transaction, see *Yantra 7x Javadocs*.

To be configured as part of your load processing pipeline, this transaction can be used whenever an automatic change in the status of a load is required. This automatic change could represent exporting load information to load planning software or transmission to the load's carrier.

Note: This transaction should be configured to work from the task queue.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–1 *Change Load Status Attributes*

Attribute	Value
Base Transaction ID	CHANGE_LOAD_STATUS
Base Document Type	Load
Base Process Type	Load Execution
Abstract Transaction	Yes
APIs Called	changeLoadStatus ()

Criteria Parameters

The following are the criteria parameters for this transaction:

Table A–2 *Change Load Status Parameters*

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.

Statistics Tracked

The following statistics are tracked for this transaction:

Table A–3 *Change Load Status Statistics*

Statistic Name	Description
NumLoadsChanged	Number of loads whose status was changed.

Pending Job Count

For this transaction the pending job count is the number of records available to be processed by the transaction with the `AVAILABLE_DATE` value less than or equal to (`<=`) the current date value in the `YFS_Task_Q` table.

Events Raised

This transaction raises events specified by the `changeLoadStatus()` API in the *Yantra 7x Javadocs*.

A.2.2 Change Shipment Status

This transaction is equivalent to the `changeShipmentStatus()` API. For detailed information about this transaction, see *Yantra 7x Javadocs*.

To be configured as part of your shipment processing pipeline, this transaction can be used whenever an automatic change in the status of a shipment is required. For example, this automatic change could represent exporting shipment information to a warehouse management system or to transmit an Advance Shipping Notice to the buyer.

Note: This transaction should be configured to work from the task queue.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–4 *Change Shipment Status Attributes*

Attribute	Value
Base Transaction ID	CHANGE_SHIPMENT_STATUS
Base Document Type	Order
Base Process Type	Order Delivery
Abstract Transaction	Yes
APIs Called	None

Criteria Parameters

The following are the criteria parameters for this transaction:

Table A–5 *Change Shipment Status Parameters*

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.

Statistics Tracked

The following statistics are tracked for this transaction:

Table A–6 *Create Chained Order Statistics*

Statistic Name	Description
NumShipmentsChanged	Number of shipments whose status was changed.

Pending Job Count

For this transaction the pending job count is the number of records available to be processed by the transaction with the `AVAILABLE_DATE` value less than or equal to (`<=`) the current date value in the `YFS_Task_Q` table.

Events Raised

This transaction raises events specified by the `changeShipmentStatus()` API in the *Yantra 7x Javadocs*.

A.2.3 Close Delivery Plan

To boost system performance, this transaction serves as a temporary purge until the Delivery Plan Purge deletes delivery plan-related data (see [Section A.3.3.3, "Delivery Plan Purge"](#) on page 449).

This transaction picks all delivery plans that do not have any of their loads or shipments still open and marks the `deliveryplan_closed_flag='Y'`. This flag indicates no further operations are possible on the plan.

This transaction corresponds to the base transaction close delivery plan (CLOSE_DELIVERY_PLAN) in the load pipeline.

Any enterprise using the Yantra 7x Application Consoles must schedule purge jobs.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–7 Close Delivery Plan Attributes

Attribute	Value
Base Transaction ID	CLOSE_DELIVERY_PLAN
Base Document Type	Load
Base Process Type	Load Execution
Abstract Transaction	No
APIs Called	None

Criteria Parameters

The following are the criteria parameters for this transaction:

Table A–8 Close Delivery Plan Criteria Parameters

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.

Statistics Tracked

The following statistics are tracked for this transaction:

Table A–9 Close Delivery Plan Statistics

Statistic Name	Description
NumDeliveryPlansClosed	Number of delivery plans closed.

Pending Job Count

For this transaction the pending job count is the number of records available to be processed by the transaction with the AVAILABLE_DATE value less than or equal to (<=) the current date value in the YFS_Task_Q table.

Events Raised

The following events are raised by this time-triggered transaction:

Table A–10 Events Raised by Close Delivery Plan Transaction

Transaction/Event	Key Data	Data Published	Template Support?
ON_SUCCESS	delivery_ plan_dbd.txt	YDM_CLOSE_ DELIVERY_ PLAN.ON_ SUCCESS.xml	Yes

However, note that the template name would read <TransactionId>.ON_SUCCESS.xml.

A.2.4 Close Load

To boost system performance, this transaction serves as a temporary purge until the Load Purge deletes load-related data (see [Section A.3.3.9, "Load Purge"](#) on page 463).

This transaction corresponds to the base transaction Close Load (CLOSE_LOAD) in the load pipeline.

If you use the Load processing pipeline, you must schedule this transaction. Only closed loads are picked up by the purge transaction. Therefore, it is required that this transaction be made part of the pipeline and scheduled to run at the end of the day.

Note: This transaction should be made part of the pipeline. In addition, it should be configured to work from the task queue.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–11 Close Load Attributes

Attribute	Value
Base Transaction ID	CLOSE_LOAD
Base Document Type	Load
Base Process Type	Load Execution
Abstract Transaction	No
APIs Called	None

Criteria Parameters

The following are the criteria parameters for this transaction:

Table A–12 Close Load Parameters

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.
Next Task Queue Interval	Optional. Specifies in hours how long a failed task should be suspended before it is considered for reprocessing. Defaults to 5 hours.

Statistics Tracked

The following statistics are tracked for this transaction:

Table A–13 Close Load Statistics

Statistic Name	Description
NumLoadsClosed	Number of loads closed.

Pending Job Count

For this transaction the pending job count is the number of open delivery plans, which are not associated to any open loads and open shipments.

Events Raised

The following events are raised by this time-triggered transaction:

Table A–14 Events Raised by the Close Load Transaction

Transaction/Event	Data Published	Template Support?
ON_SUCCESS	YDM_CLOSE_LOAD_PLAN.ON_SUCCESS.xml	Yes

However, note that the template name would read `<TransactionId>.ON_SUCCESS.xml`.

A.2.5 Close Manifest

This time-triggered transaction sets the manifest's `MANIFEST_CLOSED_FLAG` flag to 'Y' and updates the manifest status to `CLOSED`. This time-triggered transaction confirms all the shipments that are pending confirmation, and closes the manifest.

Note: If the Close Manifest Agent is triggered without any criteria it closes all the candidate manifests across all ShipNodes.

The `yfs.closemanifest.online` property in the `yfs.properties` file is used to set this time-triggered transaction to work in online or offline mode.

- **Online mode:** In the online mode, the close manifest transaction runs as usual, confirming all shipments in the manifest and then closing the manifest.
- **Offline mode:** In the offline mode, the close manifest transaction triggers an agent and changes the manifest status to 'Closure Requested'. When the agent runs, it confirms either each shipment of the manifest, or closes the manifest, in an execution call.

The mode of operation (online or offline) is decided on the basis of a property defined in the `yfs.properties` file:

```
yfs.closemanifest.online = Y/N
```

The default out-of-the-box shipped property causes the Close Manifest transaction to run in online mode.

Note: In instances where the Close Manifest transaction is run in offline mode, ensure that all Agent Criteria defined for the transaction are configured properly.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–15 *Close Manifest Attributes*

Attribute	Value
Base Transaction ID	CLOSE_MANIFEST
Base Document Type	General
Base Process Type	Manifesting
Abstract Transaction	No
APIs Called	confirmShipment()

Criteria Parameters

The following are the criteria parameters for this transaction:

Table A–16 *Close Manifest Criteria Parameters*

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.
AgentCriteriaGroup	Optional. Used to classify nodes. This value can be accepted by WMS time-triggered transactions that will only perform their tasks on the nodes with a matching node transactional velocity value. Valid values are: LOW, HIGH, and any additional values defined by the Hub from Platform > System Administration > Agent Criteria Groups.
ShipNode	Optional. Ship node for which the Close Manifest needs to be run. If not passed, then all ship nodes are monitored.

Statistics Tracked

The following are statistics are tracked for this transaction:

Table A–17 *Close Manifest Statistics*

Statistic Name	Description
NumShipmentsConfirmed	Number of shipments confirmed.
NumManifestsClosed	Number of manifests closed.
NumManifestsErrored	Number of manifests errored.
NumShipmentsErrored	Number of shipments errored.

Pending Job Count

For this transaction the pending job count is the sum of open manifests and shipments belonging to manifests (with MANIFEST_STATUS='1200').

Events Raised

The following events are raised by this time-triggered transaction:

Table A–18 Events Raised by the Close Manifest Transaction

Transaction/Event	Key Data	Data Published	Template Support?
ON_SUCCESS	manifest_dbd.txt	YDM_CLOSE_MANIFEST.ON_SUCCESS.xml	Yes

A.2.6 Close Order

This time-triggered transaction sets the order's ORDER_CLOSED flag to 'Y' and raises the ON_SUCCESS event. These actions are only performed when the entire ORDER_QTY all the order lines reach the configured pickup status(es). If an order has ORDER_CLOSED set to 'Y', it is not picked up for monitoring.

Note: The Close Order agent must be configured along with the Purge transaction in the pipeline.

Note: Many of this transaction's elements and attributes are template driven. Refer to the XML for element level details.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–19 Close Order Attributes

Attribute	Value
Base Transaction ID	CLOSE_ORDER
Base Document Type	Order
Base Process Type	Order Fulfillment
Abstract Transaction	No
APIs Called	None

Criteria Parameters

The following are the criteria parameters for this transaction:

Table A–20 Close Order Criteria Parameters

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.
Next Task Queue Interval	Optional. Specifies in hours how long a failed task should be suspended before it is considered for reprocessing. Defaults to 5 hours.

Statistics Tracked

The following statistics are tracked for this transaction:

Table A–21 Close Order Statistics

Statistic Name	Description
NumOrdersProcessed	Number of orders processed.
NumOrdersClosed	Number of orders closed.

Pending Job Count

For this transaction the pending job count is the number of records available to be processed by the transaction with the AVAILABLE_DATE value less than or equal to (\leq) the current date value in the YFS_Task_Q table, if tasks on hold are not ready to be processed.

Events Raised

The following events are raised by this time-triggered transaction:

Table A–22 Events Raised by the Close Order Transaction

Transaction/Event	Data Published	Template Support?
ON_SUCCESS	YFS_CLOSE_ORDER.ON_SUCCESS.xml	Yes

A.2.7 Close Receipts

This time-triggered transaction closes receipts using the receiving rule specified.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–23 Close Receipts Attributes

Attribute	Value
Base Transaction ID	RECEIPT_COMPLETE
Base Document Type	Order
Base Process Type	Receipt (Purchase Order Receipt, Return Receipt, Transfer Order Receipt)
Abstract Transaction	No
APIs Called	None
User Exits Called	None

Criteria Parameters

The following are the criteria parameters for this transaction:

Table A–24 Close Receipts Criteria Parameters

Parameter	Description
Action	Triggers the transaction. If left blank, it defaults to Get, the only valid value.
Number of Records To Buffer	Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.
EnterpriseCode	Enterprise for which the Close Receipts needs to be run. If not passed, then all enterprises are monitored.

Table A–24 Close Receipts Criteria Parameters

Parameter	Description
Node	Node for which the Close Receipts Purge needs to be run. If not passed, then all nodes are monitored.
AgentCriteriaGroup	Used to classify nodes. This value can be accepted by WMS time-triggered transactions that will only perform their tasks on the nodes with a matching node transactional velocity value. Valid values are: LOW, HIGH, and any additional values defined by the Hub from Platform > System Administration > Agent Criteria Groups.

Statistics Tracked

The following statistics are tracked for this transaction:

Table A–25 Close Receipts Statistics

Statistic Name	Description
NumReceiptsClosed	Number of receipts closed.

Pending Job Count

For this transaction the pending job count is the number of Receipts that can be closed (with OPEN_RECEIPT_FLAG='Y').

Events Raised

The following events are raised by this time-triggered transaction:

Table A–26 Events Raised by the Close Receipts Transaction

Transaction/Event	Key Data	Data Published	Template Support?
ON_SUCCESS	receipt_dbd.txt	YFS_RECEIPT_COMPLETE.ON_SUCCESS.xml	Yes

Troubleshooting Tip: When multiple inbound shipments are received into the same location, and the inventory received is not license plated, an error message, "There is no inventory for put away at the SourceLocation" appears. The solution to this problem lies in one of these steps:

- Manually create move requests for receipts that you already received. For more information about creating move requests, refer to the *Yantra 7x Warehouse Management System User Guide*.
 - For receipts that are expected to be received, ensure that the inventory is license plated and that you don't receive inbound shipments and inventory for put away into the same location.
-

A.2.8 Close Shipment

To boost system performance, this transaction serves as a temporary purge until the Shipment Purge deletes all shipment-related data (see [Section A.3.3.23, "Shipment Purge"](#) on page 496).

This transaction picks all shipments eligible to be closed, based on the pipeline configuration for pickup for transaction CLOSE_SHIPMENT, and marks the shipment_closed_flag='Y'. This flag indicates no further operations are possible on the shipment. There is no status change involved. This transaction can be configured in the pipeline so that it picks up either Shipped or Delivered status.

This transaction corresponds to the base transaction close shipment (CLOSE_SHIPMENT) in the shipment pipeline.

Note: This transaction should be made part of the pipeline. In addition, it should be configured to work from the task queue.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–27 *Close Shipment Attributes*

Attribute	Value
Base Transaction ID	CLOSE_SHIPMENT
Base Document Type	Order
Base Process Type	Order Delivery
Abstract Transaction	No
APIs Called	None

Criteria Parameters

The following are the criteria parameters for this transaction:

Table A–28 *Close Shipment Criteria Parameters*

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.
Next Task Queue Interval	Optional. Specifies in hours how long a failed task should be suspended before it is considered for reprocessing. Defaults to 5 hours.

Statistics Tracked

The following are statistics are tracked for this transaction:

Table A–29 *Close Shipment Statistics*

Statistic Name	Description
NumShipmentsClosed	Number of shipments closed.

Pending Job Count

For this transaction the pending job count is the number of records available to be processed by the transaction with the AVAILABLE_DATE

value less than or equal to (\leq) the current date value in the YFS_Task_Q table.

Events Raised

The following events are raised by this time-triggered transaction:

Table A–30 Events Raised by the Close Shipment Transaction

Transaction/Event	Key Data	Data Published	Template Support?
ON_SUCCESS	shipment_dbd.txt	YDM_CLOSE_SHIPMENT.ON_SUCCESS.xml	Yes

A.2.9 Collect Shipment Statistics

Collect Shipment Statistics is a time-triggered transaction which can be invoked to process the shipments, and generate information required for the Daily Shipment Report.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–31 Collect Shipment Statistics Attributes

Attribute	Value
Transaction Name	Collect Shipment Statistics
Transaction ID	COLLECT_STATISTICS
Base Document Type	Order
Base Process Type	Order Delivery
Abstract Transaction	No
APIs Called	None
User Exits Called	None

Criteria Parameters

The following are the criteria parameters for this transaction:

Table A–32 Collect Shipment Statistics Criteria Parameters

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.
Node	Required. The warehouse management ship node for which records are being processed.
AgentCriteriaGroup	Optional. Used to classify nodes. This value can be accepted by WMS time-triggered transactions that will only perform their tasks on the nodes with a matching node transactional velocity value. Valid values are: LOW, HIGH, and any additional values defined by the Hub from Platform > System Administration > Agent Criteria Groups.

Statistics Tracked

The following statistics are tracked for this transaction:

Table A–33 Statistics for Collect Shipment Statistics

Statistic Name	Description
NumDaysStatisticsCollected	Number of days for which shipment statistics have been collected.

Pending Job Count

For this transaction the pending job count is the number of days for which shipment statistics needs to be collected. The number of days is calculated as the difference (in days) between the current date and the last date when shipment statistics was collected.

Events Raised

The following events are raised by this time-triggered transaction:

Table A–34 Events Raised by the Collect Shipment Statistics Transaction

Transaction/Event	Data Published	Template Support?
ON_SUCCESS	YDM_COLLECT_STATISTICS.ON_SUCCESS.xml	No

A.2.10 Complete Planned Order

Complete Planned Order takes planned orders to completion after negotiations are resolved. Use this time-triggered transaction on a planned order after negotiation is complete. This time-triggered transaction is being deprecated for Version 5.0-SP1.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–35 Complete Planned Order Attributes

Attribute	Value
Transaction Name	Complete Planned Order
Transaction ID	PLAN_ORDER_COMPLETE
Base Document Type	Order
Base Process Type	Planned Order Execution
Abstract Transaction	No
APIs Called	None
User Exits Called	None

Criteria Parameters

The following are the parameters for this transaction:

Table A–36 Order Complete Criteria Parameters

Parameter	Description
DocumentType	Required. The type of document to process for a particular run. Valid values are: <ul style="list-style-type: none">• 0001 - Sales Order (Default)• 0002 - Planned Order
TotalRecords	Optional. Number of records for the time-triggered transaction to pass. If not passed, defaults to 5000.

Statistics Tracked

None.

Pending Job Count

None.

Events Raised

The following events are raised by this time-triggered transaction:

Table A–37 Events Raised by the Order Complete Transaction

Transaction/Event	Key Data	Data Published	Template Support?
PLAN_ORDER_COMPLETE	modifyOrder_dbd.txt	YFS_getPlannedOrderStatus_Output.xml	No

A.2.11 Consolidate Additional Inventory

The Consolidate Additional Inventory time-triggered transaction consolidates supply and demand from the YFS_INVENTORY_SUPPLY_ADDNL and YFS_INVENTORY_DEMAND_ADDNL tables. Consolidation is performed by summing up the quantities of additional supply and demand in the YFS_INVENTORY_SUPPLY and YFS_INVENTORY_DEMAND tables.

If no matching supply or demand is found, a new supply or demand is created with the sum quantity of the changes in the YFS_INVENTORY_SUPPLY_ADDNL and YFS_INVENTORY_DEMAND_ADDNL tables. After the changes are applied, the records in the YFS_INVENTORY_SUPPLY_ADDNL and YFS_INVENTORY_DEMAND_ADDNL tables that were used in the consolidation process, are deleted.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–38 Consolidate Additional Inventory Attributes

Attribute	Value
Base Transaction ID	CONSOLIDATE_ADDNL_INV
Base Document Type	General
Base Process Type	General
Abstract Transaction	No
APIs Called	None

Criteria Parameters

The following are the parameters for this transaction:

Table A–39 Consolidate Additional Inventory Criteria Parameters

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.r
Number of Records To Buffer	Optional. Number of inventory item records (whose additional supplies and demands will be consolidated_ to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.

Statistics Tracked

The following statistics are tracked for this transaction:

Table A–40 Consolidate Additional Inventory Statistics

Statistic Name	Description
NumInventorySupplyAddnlsProcessed	Number of additional inventory supply records processed in the consolidation.
NumInventoryDemandAddnlsProcessed	Number of additional inventory demand records processed in the consolidation.
NumInventoryDemandDtlsProcessed	Number of inventory demand details records processed in the consolidation.

Pending Job Count

For this transaction the pending job count is the number of distinct inventory items in the YFS_Inventory_Supply_Addnl and YFS_Inventory_Demand_Addnl tables, multiplied by two.

Events Raised

None.

A.2.12 Consolidate To Shipment

This is a task queue based transaction in the order pipeline that corresponds to base transaction CONSOLIDATE_TO_SHIPMENT. This transaction finds a shipment into which a given order release can be included. If it finds an existing shipment, it calls `changeShipment()` API. Otherwise, it calls the `createShipment()` API.

To find the existing shipments it matches ShipNode, ShipTo Address, SellerOrganizationCode, Carrier, DocumentType and so forth, of the Order Release with that of existing shipments. List of attributes it matches is actually based on Document Template for Document Type of the Order.

This transaction is applicable only to the shipments in one of the following Statuses:

- Shipment Created
- ESP Check Required

- On ESP Hold
- Released from ESP Hold
- Released For Routing
- Awaiting Routing
- Shipment Routing
- Sent To Node
- Shipment Being Picked

Troubleshooting Tip: To successfully consolidate an Order Release to an existing shipment, the Add Line and related modification types on shipment in its current status should be allowed.

For more details, see the `createShipment()`, `changeShipment()`, and `releaseOrder()` APIs in the *Yantra 7x Javadocs*.

Note: This transaction is a part of the Order Fulfillment pipeline. In addition, it should be configured to work from the task queue.

Note: Order releases with GIFT_FLAG set to `Y` will never be consolidated with any other release.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–41 Consolidate to Shipment Attributes

Attribute	Value
Base Transaction ID	CONSOLIDATE_TO_SHIPMENT
Base Document Type	Order
Base Process Type	Order Fulfillment
Abstract Transaction	No

Table A–41 Consolidate to Shipment Attributes

Attribute	Value
APIs Called	<code>createShipment()</code> and <code>changeShipment()</code>
User Exits	<ul style="list-style-type: none"> It calls <code>beforeConsolidateToShipment</code> in <code>com.yantra.ydm.japi.ue.YDMBeforeConsolidateToShipment</code> for each release before it begins processing. After it finds the shipments, it calls <code>determineShipmentToConsolidateWith</code> in <code>com.yantra.ydm.japi.ue.YDMDetermineShipmentToConsolidateWith</code>. See <i>Yantra 7x Javadocs</i>.

Criteria Parameters

The following are the criteria parameters for this transaction:

Table A–42 Consolidate to Shipment Criteria Parameters

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to <code>Get</code> , the only valid value.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.
Next Task Queue Interval	Optional. Specifies in hours how long a failed task should be suspended before it is considered for reprocessing. Defaults to 5 hours.

Statistics Tracked

The following statistics are tracked for this transaction:

Pending Job Count

Table A–43 Consolidate to Shipment Statistics

Statistic Name	Description
NumOrderReleasesConsolidated	Number of order releases consolidated.

For this transaction the pending job count is the number of records available to be processed by the transaction with the AVAILABLE_DATE value less than or equal to (\leq) the current date value in the YFS_Task_Q table.

Events Raised

The following events are raised by this time-triggered transaction:

Table A–44 Events Raised by the Consolidate to Shipment Transaction

Transaction/Event	Key Data	Data Published	Template Support?
ON_SUCCESS	shipment_dbd.txt	YDM_CONSOLIDATE_TO_SHIPMENT.ON_SUCCESS.xml	Yes

Note: This transaction also raises events specified by the `createShipment()` or `changeShipment()` APIs in the *Yantra 7x Javadocs*.

However, note that the template name would read `<TransactionId>.ON_SUCCESS.xml`.

A.2.13 Create Chained Order

This transaction creates one or more chained orders from an order whose OrderHeaderKey is stored in the task queue object. Chainable lines of the order can also be added to existing chained orders, instead of creating new chained orders with these lines. The existing chained orders must be identified by the `determineChainedOrderForConsolidation` user exit. If the user exit is not implemented, or if the user exit returns a blank document, one or more new chained orders are created.

For more information on creation of chained orders, see the documentation on the `createChainedOrder()` API and the `YFSDetermineChainedOrderForConsolidation` user exit in the *Yantra 7x Javadocs*.

This transaction should be invoked after order scheduling.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–45 Create Chained Order Attributes

Attribute	Value
Base Transaction ID	CHAINED_ORDER_CREATE
Base Document Type	Order
Base Process Type	Order Fulfillment
Abstract Transaction	Yes
APIs Called	<code>createChainedOrder()</code>

Criteria Parameters

The following are the criteria parameters for this transaction:

Table A–46 Create Chained Order Criteria Parameters

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.
Next Task Queue Interval	Optional. Specifies in hours how long a failed task should be suspended before it is considered for reprocessing. Defaults to 5 hours.

Statistics Tracked

The following statistics are tracked for this transaction:

Note: If there are 2 orders being processed and the first order creates a
Table A–47 Create Chained Order Statistics

Statistic Name	Description
NumOrdersProcessed	Number of orders processed for creating chained order.
NumOrdersCreated	Number of chained orders created.

chained order, the DetermineChainedOrderForConsolidation user exit causes the lines of the 2nd order to be added to the first order. The number of chained orders created is counted as 2.

Pending Job Count

For this transaction the pending job count is the number of records available to be processed by the transaction with the AVAILABLE_DATE value less than or equal to (\leq) the current date value in the YFS_Task_Q table.

Events Raised

This transaction raises events specified by the createChainedOrder() API in *Yantra 7x Javadocs*.

A.2.14 Create Derived Order

This transaction creates one or more derived orders from an order whose OrderHeaderKey is stored in the task queue object. For existing derived orders, you can add derivable lines or create new derived orders with these lines. The existing derived orders must be identified by the determineDerivedOrderForConsolidation user exit. If the user exit is not implemented or if the user exit returns a null document, new derived orders are created. For more information on creation of derived orders, see the createDerivedOrder() API and YFSDetermineDerivedOrderForConsolidation user exit in *Yantra 7x Javadocs*.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–48 *Create Derived Order Attributes*

Attribute	Value
Base Transaction ID	DERIVED_ORDER_CREATE
Base Document Type	Order
Base Process Type	Order Fulfillment
Abstract Transaction	Yes
APIs Called	<code>createDerivedOrder()</code>

Note: The TransactionKey posted in the task queue object must be an instance of the Abstract Transaction DERIVED_ORDER_CREATE for the ProcessType associated with the Order. Otherwise, an exception is thrown.

Criteria Parameters

The following are the criteria parameters for this transaction:

Table A–49 *Create Derived Order Criteria Parameters*

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.
Next Task Queue Interval	Optional. Specifies in hours how long a failed task should be suspended before it is considered for reprocessing. Defaults to 5 hours.

Statistics Tracked

The following statistics are tracked for this transaction:

Table A–50 *Create Derived Order Statistics*

Statistic Name	Description
NumOrdersProcessed	Number of orders processed.
NumOrdersCreated	Number of derived orders created.

Note: If there are 2 orders being processed and the first order creates a derived order, the DetermineChainedOrderForConsolidation user exit causes the lines of the 2nd order to be added to the first order. The number of derived orders created is counted as 2.

Pending Job Count

For this transaction the pending job count is the number of records available to be processed by the transaction with the AVAILABLE_DATE value less than or equal to (\leq) the current date value in the YFS_Task_Q table.

Events Raised

This transaction raises events specified by the `createDerivedOrder()` API in the *Yantra 7x Javadocs*.

A.2.15 Create Order Invoice

This transaction creates one or more invoices from an order whose OrderHeaderKey is stored in a task queue object. The `createOrderInvoice()` API is called for the OrderHeaderKey.

Configure this transaction in the pipeline only after all processing that can impact quantity or price has been completed. Post invoice creation, the line quantity cannot be reduced below the invoiced quantity.

Note: Both the Create Order Invoice and Create Shipment Invoice transactions can create invoices for an Order. When configuring your pipeline, ensure that only *one* of these two transactions is configured to create invoices for a particular order line. For more information, see [Section A.2.16, "Create Shipment Invoice"](#) on page 405.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–51 Create Order Invoice Attributes

Attribute	Value
Base Transaction ID	CREATE_ORDER_INVOICE
Base Document Type	Order
Base Process Type	Order Fulfillment
Abstract Transaction	Yes
APIs Called	createOrderInvoice()

Criteria Parameters

The following are the criteria parameters for this transaction:

Table A–52 Create Order Invoice Criteria Parameters

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.

Statistics Tracked

The following statistics are tracked for this transaction:

Table A–53 Create Order Invoice Statistics

Statistic Name	Description
NumOrderInvoicesCreated	Number of order invoices created.

Pending Job Count

For this transaction the pending job count is the number of records available to be processed by the transaction with the `AVAILABLE_DATE` value less than or equal to (`<=`) the current date value in the `YFS_Task_Q` table.

Events Raised

This transaction raises events specified by the `createOrderInvoice()` API in the *Yantra 7x Javadocs*.

A.2.16 Create Shipment Invoice

Invoicing is mandatory if an order requires payment processing. Invoicing occurs if the following conditions are met:

- Invoicing is enabled at the document parameter level.
- The Seller requires payment processing.

This transaction creates one or more invoices for the shipment whose `ShipmentKey` is stored in the task queue object. The `createShipmentInvoice()` API is called for the `ShipmentHeaderKey`.

This transaction should be configured in the shipment pipeline only after the shipment has reached a shipped status.

Note: Both the Create Order Invoice and Create Shipment Invoice can create invoices for an order. When configuring your pipeline, ensure that only *one* of these two transactions is configured to create invoices for a particular order line. See [Section A.2.15, "Create Order Invoice"](#) on page 403.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–54 Create Shipment Invoice Attributes

Attribute	Value
Base Transaction ID	CREATE_SHIPMENT_INVOICE
Base Document Type	Order
Base Process Type	Order Delivery
Abstract Transaction	Yes
APIs Called	createShipmentInvoice()

Criteria Parameters

The following are the criteria parameters for this transaction:

Table A–55 Create Shipment Invoice Criteria Parameters

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.

Statistics Tracked

The following statistics are tracked for this transaction:

Table A–56 Create Shipment Invoice Statistics

Statistic Name	Description
NumShipmentInvoicesCreated	Number of shipment invoices created.

Pending Job Count

For this transaction the pending job count is the number of records available to be processed by the transaction with the AVAILABLE_DATE value less than or equal to (\leq) the current date value in the YFS_Task_Q table.

Events Raised

This transaction raises events specified by the `createShipmentInvoice()` API in the *Yantra 7x Javadocs*.

A.2.17 ESP Evaluator

The ESP Evaluator time-triggered transaction verifies whether a shipment meets certain economic shipping parameters (ESP). ESP can be configured either for buyer or enterprise, with the freight terms on the shipment determining which one is used.

If the configuration is defined to hold shipment for ESP, the shipment when created is held for ESP (with status *On ESP Hold*). This task queue based time-triggered transaction evaluates the shipment for ESP, and passes it on to the next step in the shipment pipeline if the criteria (weight and volume limits, plus maximum days of hold up) are met. The shipment status is now set to *Released from ESP hold*, and routing processing begins.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–57 ESP Evaluator Attributes

Attribute	Value
Base Transaction ID	ESP_EVALUATOR.0001
Base Document Type	Order
Base Process Type	Outbound Shipment
Abstract Transaction	No
APIs Called	None
User Exits Called	None

Criteria Parameters

The following are the criteria parameters for this transaction:

Table A–58 *ESP Evaluator Criteria Parameters*

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
EnterpriseCode	Optional. Enterprise for which the ESP Evaluator needs to be run. If not passed, then all enterprises are monitored.
Number of Records to Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.
Next Task Queue Interval	Optional. Specifies in hours how long a failed task should be suspended before it is considered for reprocessing. Defaults to 5 hours.
Node	Required. The warehouse management ship node for which records are being processed.
AgentCriteriaGroup	Optional. Used to classify nodes. This value can be accepted by WMS time-triggered transactions that will only perform their tasks on the nodes with a matching node transactional velocity value. Valid values are: LOW, HIGH, and any additional values defined by the Hub from Platform > System Administration > Agent Criteria Groups.

Statistics Tracked

None.

Pending Job Count

For this transaction the pending job count is the number of records available to be processed by the transaction with the AVAILABLE_DATE value less than or equal to (\leq) the current date value in the YFS_Task_Q table.

Events Raised

The following events are raised by this time-triggered transaction:

Table A–59 Events Raised by ESP Evaluator Transaction

Transaction/Event	Key Data	Data Published	Template Support?
ON_SUCCESS	shipment_dbd.txt	ESP_EVALUATOR.ON_SUCCESS.xml	Yes

A.2.18 Mark Load as Trailer Loaded

This is a time-triggered transaction which works on “Load pipeline”.

This time-triggered transaction gets records from the Task Q. This transaction is used to mark the load as trailer loaded when all containers for the load are on the trailer.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–60 Mark Load As Trailer Loaded Attributes

Attribute	Value
Base Transaction ID	MARK_AS_TRAILER_LOADED
Base Document Type	Load
Base Process Type	Load Execution
Abstract Transaction	No
APIs Called	None
User Exits Called	None

Criteria Parameters

The following are the criteria parameters for this transaction:

Table A–61 Mark Load As Trailer Loaded Criteria Parameters

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.
ReprocessInterval	Optional. Reprocess Interval is the time taken to reprocess the load.

Statistics Tracked

The following statistics are tracked for this transaction:

Table A–62 Mark Load As Trailer Loaded Statistics

Statistic Name	Description
NumLoadsChanged	Number of trailer loads changed.

Pending Job Count

For this transaction the pending job count is the number of records available to be processed by the transaction with the AVAILABLE_DATE value less than or equal to (\leq) the current date value in the YFS_Task_Q table.

Events Raised

None.

A.2.19 Match Inventory

Match Inventory processes all pending records in the YFS_INVENTORY_SHIPMENT table. Pending records have a smaller number in POSTED_QUANTITY than in QUANTITY.

Each pending record is matched against the receipt records in YFS_INVENTORY_RECEIPT table by applying the inventory cost determination logic. The unit cost at which the sales and receipt data are matched is also posted in YFS_INVENTORY_MATCH table.

Use this transaction if any of the configured ship nodes maintain inventory cost.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–63 Match Inventory Attributes

Attribute	Value
Base Transaction ID	INVENTORY_MATCH
Base Document Type	General
Base Process Type	General
Abstract Transaction	No
APIs Called	None

Criteria Parameters

The following are the criteria parameters for this transaction:

Table A–64 Match Inventory Criteria Parameters

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.
InventoryOrganizationCode	Optional. Valid inventory owner organization. Organization to process in this run. If not passed, all inventory organizations are processed.
CutOffDate	Optional. If passed, records are matched up to this date. Defaults to all unmatched records in Database.

Statistics Tracked

The following statistics are tracked for this transaction:

Table A–65 Match Inventory Statistics

Statistic Name	Description
NumInventoryShipmentsProcessed	Number of inventory shipments processed.
NumInventoryMatchesInserted	Number of inventory matches inserted.

Pending Job Count

For this transaction the pending job count is the number of distinct inventory items that exist in the YFS_INVENTORY_SHIPMENT table where the QUANTITY value is not equal to the POSTED_QUANTITY value.

Events Raised

None.

A.2.20 Payment Collection

This transaction requests credit validation for orders that are pending authorization or charging.

Use this transaction for creating authorization and charge requests.

Note: This transaction works in combination with the Payment Execution transaction. Although this transaction can run independent of that transaction, authorization and collection occurs *only* after the Payment Execution dependencies are met. For more details, see [Section A.2.21, "Payment Execution"](#) on page 415.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–66 Payment Collection Attributes for Sales Orders

Attribute	Value
Base Transaction ID	PAYMENT_COLLECTION
Base Document Type	Order

Table A–66 *Payment Collection Attributes for Sales Orders*

Attribute	Value
Base Process Type	Order Fulfillment
Abstract Transaction	No
APIs Called	requestCollection()

Table A–67 *Payment Collection Attributes for Return Orders*

Attribute	Value
Base Transaction ID	PAYMENT_COLLECTION.0003
Base Document Type	Order
Base Process Type	Reverse Logistics
Abstract Transaction	No
APIs Called	requestCollection()

Criteria Parameters

The following are the criteria parameters for this transaction:

Table A–68 *Payment Collection Criteria Parameters*

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.
EnterpriseCode	Optional. Enterprise for which the transaction needs to be run. If not passed, then all enterprises are monitored.

Statistics Tracked

The following statistics are tracked for this transaction:

Table A–69 Payment Collection Statistics

Statistic Name	Description
NumOrdersProcessed	Number of orders processed.
NumChargeReqsCreated	Number of charge requests created.
NumAuthorizationReqsCreated	Number of authorization requests created.

Pending Job Count

For this transaction the pending job count is the number of orders in the appropriate payment statuses with the value of the AUTHORIZATION_EXPIRATION_DATE is less than or equal to (\leq) the currentdate. The appropriate payment statuses for such orders are:

- AWAIT_PAY_INFO
- AWAIT_AUTH
- REQUESTED_AUTH
- REQUEST_CHARGE
- AUTHORIZED, INVOICED
- PAID
- RELEASE_HOLD
- FAILED_AUTH
- FAILED_CHARGE
- VERIFY
- FAILED

Events Raised

The following events are raised by this time-triggered transaction:

Table A–70 Events Raised by the Payment Collection Transaction

Transaction/Event	Key Data	Data Published	Template Support?
INCOMPLETE_PAYMENT_INFORMATION	modifyOrder_dbd.txt	YFS_PAYMENT_COLLECTION.INCOMPLETE_PAYMENT_INFORMATION.xml	Yes
PAYMENT_STATUS	YFS_PAYMENT_COLLECTION.PAYMENT_STATUS_dtd.txt	YFS_PAYMENT_COLLECTION.PAYMENT_STATUS.xml	Yes
ON_LIABILITY_TRANSFER	modifyOrder_dbd.txt	YFS_PAYMENT_COLLECTION.ON_LIABILITY_TRANSFER.xml	Yes

A.2.21 Payment Execution

This transaction processes all requests that are pending authorization and charging.

Note: Use this time-triggered transaction for processing all authorization and charge requests.

This transaction requires interfacing with a product that provides financial services.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–71 Payment Execution Attributes for Sales Orders

Attribute	Value
Base Transaction ID	PAYMENT_EXECUTION
Base Document Type	Order
Base Process Type	Order Fulfillment

Table A–71 *Payment Execution Attributes for Sales Orders*

Attribute	Value
Abstract Transaction	No
APIs Called	executeCollection()
User Exits Called	collectionCreditCard, collectionOthers, collectionCustomerAcct

Table A–72 *Payment Execution Attributes for Return Orders*

Attribute	Value
Base Transaction ID	PAYMENT_EXECUTION.0003
Base Document Type	Order
Base Process Type	Reverse Logistics
Abstract Transaction	No
APIs Called	executeCollection()
User Exits Called	collectionCreditCard, collectionOthers, collectionCustomerAcct

Criteria Parameters

The following are the criteria parameters for this transaction:

Table A–73 *Payment Execution Criteria Parameters*

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.
ChargeType	Type of credit card process. Valid values are: <ul style="list-style-type: none"> AUTHORIZATION - Validates the credit card account CHARGE - Applies the charge to the credit card

Statistics Tracked

The following statistics are tracked for this transaction:

Table A–74 Payment Execution Statistics

Statistic Name	Description
NumAuthTransProcessed	Number of authorization transaction processed.
NumAuthTransSuccessfullyProcessed	Number of successful returns from user exit for authorization transaction processed.
NumChargeTransProcessed	Number of charge transaction processed.
NumChargeTransSuccessfullyProcessed	Number of successful returns from user exit for charge transaction processed.
NumCollectionValidations	Number of successful returns from the invoked validate collection user exits.
NumCreditCardCollections	Number of credit card collections.
NumCustomerAccountCollections	Number of successful returns from the customer account collection user exits.
NumOtherCollections	Number of successful returns from the other collection user exits.

Pending Job Count

For this transaction the pending job count is the number of open charge and authorization transactions.

Events Raised

The following events are raised by this time-triggered transaction:

Table A–75 Events Raised by Payment Execution Transaction

Transaction/Event	Key Data	Data Published	Template Support?
CHARGE_FAILED	modifyOrder dbd.txt	PAYMENT_EXECUTION_ CHARGE_FAILED_ dbd.txt	No

This transaction raises events specified by the `executeCollection()` API in the *Yantra 7x Javadocs*.

A.2.22 Post Inventory Match

This transaction processes all open records in YFS_INVENTORY_MATCH table and posts the records to a financial system. An open record in the YFS_INVENTORY_MATCH table has the status of 01. After posting, the status is changed to 02.

Use this transaction if any of the configured ship nodes maintain inventory cost.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–76 Post Inventory Match Attributes

Attribute	Value
Base Transaction ID	POST_INVENTORY_MATCH
Base Document Type	General
Base Process Type	General
Abstract Transaction	No
APIs Called	None

Criteria Parameters

The following are the criteria parameters for this transaction:

Table A–77 Post Inventory Match Criteria Parameters

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.

Statistics Tracked

The following statistics are tracked for this transaction:

Table A–78 Post Inventory Match Statistics

Statistic Name	Description
NumInventoryMatchPosted	Number of inventory match records posted.

Pending Job Count

For this transaction the pending job count is the number of inventory matches with an open status.

Events Raised

The following events are raised by this time-triggered transaction:

Table A–79 Events Raised by the Post Inventory Match Transaction

Transaction/Event	Key Data	Data Published	Template Support?
POST_INVENTORY_MATCH	POST_INVENTORY_MATCH_dbd.txt	YFS_postInventoryMatch_output.xml	No

A.2.23 Process Order Hold Type

You can create a time-triggered transaction, derived from the abstract transaction PROCESS_ORDER_HOLD_TYPE. It can be configured as the processing transaction for one or more hold types. If an order is associated with a hold type that has a transaction configured as the

processing transaction, a record is created in YFS_TASK_Q for processing that transaction.

When the processing transaction is triggered, it checks the hold types that it can process based on the hold type configuration. If none can be processed, the YFS_TASK_Q record is deleted. If some hold types can be processed, the user exit `processOrderHoldType` is invoked with the list of hold types to be processed. `processOrderHoldType` returns the list of hold types that can be removed from the order.

The transaction will modify the order and update the order hold type list based on the output of `processOrderHoldType`. If no hold types can be processed by this transaction, then the YFS_TASK_Q record is deleted. If some hold types still can be processed, YFS_TASK_Q is updated with the next available date.

The `processOrderHoldType` user exit can also be used to add hold types, and change the status of a hold type already applied to an order. For more information on the `processOrderHoldType` user exit, refer to the *Yantra 7x Javadocs*.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–80 Process Order Hold Type Attributes

Attribute	Value
Base Transaction ID	PROCESS_ORDER_HOLD_TYPE
Base Document Type	Order
Base Process Type	Order Fulfillment
Abstract Transaction	Yes
APIs Called	changeOrder

Criteria Parameters

The following are the criteria parameters for this transaction:

Table A–81 Process Order Hold Type Parameters

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.
Next Task Queue Interval	Optional. Specifies in hours how long a failed task should be suspended before it is considered for reprocessing. Defaults to 5 hours.

Statistics Tracked

None.

Pending Job Count

None

Events Raised

The following events are raised by this time-triggered transaction:

Table A–82 Events Raised by Process Order Hold Type Transaction

Transaction/Event	Raised when...	Key Data	Data Published	Template Support?
ON_SUCCESS	On success	modifyOrder_dbd.txt	YFS_ORDER_CHANGE.ON_SUCCESS.xml	Yes *
ON_HOLD_TYPE_STATUS_CHANGE	The status of a hold type is changed.	modifyOrder_dbd.txt	YFS_ON_HOLD_TYPE_STATUS_CHANGE.xml	Yes
* Note: Some of the elements and attributes are not template driven. Refer to the xml for elements level details.				

A.2.24 Process Work Order Hold Type

This time-triggered transaction is identical to the [Process Order Hold Type](#) transaction, but it is used for work orders instead.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–83 Process Work Order Hold Type Attributes

Attribute	Value
Base Transaction ID	PROCESS_WO_ORDER_HOLD_TYPE
Base Document Type	Work Order
Base Process Type	VAS Process
Abstract Transaction	Yes
APIs Called	modifyWorkOrder

Criteria Parameters

The following are the criteria parameters for this transaction:

Table A–84 Process Work Order Hold Type Parameters

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.
Next Task Queue Interval	Optional. Specifies in hours how long a failed task should be suspended before it is considered for reprocessing. Defaults to 5 hours.

Statistics Tracked

None.

Pending Job Count

None

Events Raised

The following events are raised by this time-triggered transaction:

Table A–85 Events Raised by Process Work Order Hold Type Transaction

Transaction/Event	Raised when...	Key Data	Data Published	Template Support?
ON_SUCCESS	On success	workOrder_dbd.txt	VAS_MODIFY_WORK_ORDER.ON_SUCCESS.xml	Yes *
ON_HOLD_TYPE_STATUS_CHANGE	The status of a hold type is changed.	workOrder_dbd.txt	VAS_ON_HOLD_TYPE_STATUS_CHANGE.xml	Yes
* Note: Some of the elements and attributes are not template driven. Refer to the xml for elements level details.				

A.2.25 Publish Negotiation Results

This transaction publishes the negotiated terms to the order.

Use this transaction in environments where an order must go through a negotiation phase.

Note: This transaction needs to be run after negotiation is completed.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–86 Publish Negotiation Results Attributes

Attribute	Value
Base Transaction ID	PUBLISH_ORD_NEGOTIATION
Base Document Type	Order
Base Process Type	Order Negotiation

Table A–86 Publish Negotiation Results Attributes

Attribute	Value
Abstract Transaction	No
APIs Called	None

Criteria Parameters

The following are the criteria parameters for this transaction:

Table A–87 Publish Negotiation Results Criteria Parameters

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.
Next Task Queue Interval	Optional. Specifies in hours how long a failed task should be suspended before it is considered for reprocessing. Defaults to 5 hours.

Statistics Tracked

The following statistics are tracked for this transaction:

Pending Job Count

Table A–88 Publish Negotiation Results Statistics

Statistic Name	Description
NumNegotiationsProcessed	Number of negotiations processed.
NumNegotiationsPublished	Number of negotiations published.

For this transaction the pending job count is the number of records available to be processed by the transaction with the AVAILABLE_DATE value less than or equal to (\leq) the current date value in the YFS_Task_Q table.

Events Raised

The following events are raised by this time-triggered transaction:

Table A–89 Events Raised by Publish Negotiation Results Transaction

Base Transaction	Raised when...	Key Data	Data Published	Template Support?
PUBLISH_ORD_NEGOTIATION/ON_SUCCESS	On success	Negotiation_dbd.txt	YCP_getNegotiationDetails_output.xml	Yes *
RECEIVE_ORD_NEGOTIATION/ON_SUCCESS	On success, when DocumentType is 0001, EntityType is ORDER.	Number of concurrent time-triggered transactions running.	receiveOrderNegotiation_dbd.txt	No
<p>* Note: Template used for this event is the same template used by the <code>getNegotiationDetails()</code> API to form the output XML.</p>				

A.2.26 Release

This transaction releases orders to specific ship nodes, making sure that the scheduled ship nodes have enough inventory to process the order.

This transaction should be invoked after the scheduling process.

For more details, see the `releaseOrder()` API in the *Yantra 7x Javadocs*.

Important: Yantra recommends that if you run the combined 'Schedule and Release' agent, you do not also run the individual Schedule or the individual Release agents.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–90 Release Attributes

Attribute	Value
Base Transaction ID	RELEASE
Base Document Type	Order
Base Process Type	Order Fulfillment
APIs Called	<code>releaseOrder()</code>

Criteria Parameters

The following are the criteria parameters for this transaction:

Table A–91 Release Criteria Parameters

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.
IgnoreReleaseDate	Optional. Determines whether the schedule process should ignore line release date criteria. Valid values are: <ul style="list-style-type: none"> Y - releases line quantities regardless of release date criteria N - releases lines quantities only after release date criteria have been met. Default.
CheckInventory	Optional. Determine whether inventory should be checked. Valid values are: <ul style="list-style-type: none"> Y - inventory needs to be checked. Default. N - inventory does not need to be checked
Next Task Queue Interval	Optional. Specifies in hours how long a failed task should be suspended before it is considered for reprocessing. Defaults to 5 hours.

Statistics Tracked

The following statistics are tracked for this transaction:

Table A–92 Release Criteria Statistics

Statistic Name	Description
NumFutureDateFailures	Number of orders did not attempt to release because of future date failures.
NumOrdersAttempted	Number of orders attempted to release.
NumOrdersCannotBeProcessedFailures	Number of orders did not attempt to release because of cannot be processed failures.
NumOrdersProcessed	Number of orders processed.
NumOrdersReleased	Number of orders released.
NumOrdersBackordered	Number of orders backordered.
NumOrderLinesReleased	Number of order lines released.
NumOrderLinesBackordered	Number of order lines backordered.
NumReleasesCreated	Number of order releases created.
NumOrdersCannotBeProcessedFailures	Number of orders that were not released due to process failure.

Note: If the release process results in splitting of an order line, NumOrderLinesReleased, NumOrderLinesBackordered, and NumOfReleasesCreated may result in more than one count.

Pending Job Count

For this transaction the pending job count is the number of records available to be processed by the transaction with the AVAILABLE_DATE value less than or equal to (\leq) the current date value in the YFS_Task_Q table, if tasks on hold are not ready to be processed.

Events Raised

This transaction raises events specified by the `releaseOrder()` API in the *Yantra 7x Javadocs*.

A.2.27 Route Shipment

This time-triggered transaction is used to route shipments and belongs to the Outbound Shipment pipeline. It assigns the Carrier and Carrier Service codes for the shipment based on the Routing Guide configured.

The Route Shipment transaction either includes shipments in an existing load or creates a new load and includes the shipments in it.

Shipments can be consolidated to a load, only if the following conditions are met:

- Expected Ship Date - The expected ship date of the shipments must be less than or equal to the must ship before date of the load.
- Expected Load Departure Date - The expected load departure date must be less than or equal to the must ship before date of the shipments in the load.

The must ship before date is a date computed for the load, based on all shipments present in the load. For example, if a load has three shipments with their must ship before dates as 12.22.2005, 12.12.2005, and 12.19.2005 respectively, then the must ship before date of the load is computed as 12.12.2005, as it is the earliest of the three dates.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–93 Route Shipment

Attribute	Value
Base Transaction ID	ROUTE_SHIPMENT.0001
Base Document Type	Order
Base Process Type	ORDER_DELIVERY
Abstract Transaction	No
APIs Called	None
User Exits Called	com.yantra.ydm.japi.ue.YDMSOverrideDetermineRoutingUE com.yantra.ydm.japi.ue.YDMBeforeDetermineRoutingUE

Criteria Parameters

The following are the criteria parameters for this transaction:

Table A–94 Route Shipment Criteria Parameters

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.
EnterpriseCode	Optional. Enterprise for which the Route Shipment transaction needs to be run. If not passed, then all enterprises are monitored.
Next Task Queue Interval	Optional. Specifies in hours how long a failed task should be suspended before it is considered for reprocessing. Defaults to 5 hours.

Statistics Tracked

The following statistics are tracked for this transaction:

Table A–95 Route Shipment Statistics

Statistic Name	Description
NumRouted	Number of shipments routed.

Pending Job Count

For this transaction the pending job count is the number of records representing the unheld orders that are available to be processed by the transaction with the AVAILABLE_DATE value less than or equal to (\leq) the current date value in the YFS_Task_Q table.

Events Raised

The following events are raised by this time-triggered transaction:

Table A–96 Events Raised by the Route Shipment Transaction

Transaction/Event	Key Data	Data Published	Template Support?
ON_SUCCESS	shipment_dbd.txt	YDM_ROUTE_SHIPMENT.ON_SUCCESS.xml	Yes
ON_FAILURE	shipment_dbd.txt	YDM_ROUTE_SHIPMENT.ON_FAILURE.xml	Yes

However, note that the template name would read <TransactionId>.ON_SUCCESS.xml.

A.2.28 Schedule

This transaction schedules orders to specific ship nodes making sure that the scheduled ship nodes have enough inventory to process the order.

Run this transaction after order creation.

Important: Yantra recommends that if you run the combined 'Schedule and Release' agent, you do not also run the individual Schedule or the individual Release agents.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–97 Schedule Attributes

Attribute	Value
Base Transaction ID	SCHEDULE
Base Document Type	Order
Base Process Type	Order Fulfillment
APIs Called	scheduleOrder()

Criteria Parameters

The following are the criteria parameters for this transaction:

Table A–98 *Schedule Criteria Parameters*

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.
OptimizationType	Optional. Determines the optimization rules to apply to the scheduling process. Valid values are: <ul style="list-style-type: none"> • 01 - Optimize on date (Default) • 02 - Optimize on ship node priority • 03 - Optimize on number of shipments
OrderFilter	Optional. Determines the types of orders to filter. Possible values are: <ul style="list-style-type: none"> • A - All orders (Default) • B - Backorders only • N - New orders only
ScheduleAndRelease	Optional. Notify the schedule process to release all releasable line quantities. Valid values are: <ul style="list-style-type: none"> • Y - releases successfully scheduled line quantities. • N - only schedules line quantities. Default. Note: enabling this parameter will not validate hold types configured for the release transaction.

Table A–98 Schedule Criteria Parameters

Parameter	Description
IgnoreReleaseDate	Optional. Determines whether the schedule process should ignore line release date criteria. Valid values are: <ul style="list-style-type: none">• Y - releases line quantities regardless of release date criteria• N - releases lines quantities only after release date criteria have been met. Default.
Next Task Queue Interval	Optional. Specifies in hours how long a failed task should be suspended before it is considered for reprocessing. Defaults to 5 hours.

Statistics Tracked

The following statistics are tracked for this transaction:

Table A–99 Schedule Statistics

Statistic Name	Description
NumFutureDateFailures	<p>Number of orders that Yantra 7x did not attempt to schedule because of future date failures.</p> <p>Failures can be caused by any of the following:</p> <ul style="list-style-type: none"> • If the OrderFilter is “B” (Backorders Only) and there are no backordered or unscheduled lines. • If the OrderFilter is “N” (New orders Only) and there are some backordered or unscheduled lines. • If order has order lines within only backordered or unscheduled status and the status modify timestamp is after the current time - the back order wait period specified in the scheduling rule.
NumOrdersAttempted	<p>Number of orders attempted to schedule. This statistic does not include the values for NumFutureDateFailures and NumOrdersCannotBeProcessedFailures statistics.</p>
NumOrderLinesReleased	<p>Number of order lines that have been released.</p>

Table A-99 Schedule Statistics

Statistic Name	Description
NumOrdersCannotBeProcessedFailures	<p>Number of orders that Yantra 7x did not attempt to schedule because of cannot be processed failures.</p> <p>Failures can be caused by any of the following:</p> <ul style="list-style-type: none"> • The result of the YFSCheckOrderBeforeProcessingUE user exit returns as false. • The Order has the HoldFlag attribute set to 'Y'. • The Order has the SaleVoided attribute set to 'Y'. • The Order does not have PaymentStatus as AUTHORIZED, INVOICED, PAID, nor NOT_APPLICABLE.
NumOrdersCreated	Number of orders created. This also includes the number of procurement orders created.
NumOrderLinesCreated	Number of order lines created.
NumOrdersProcessed	Number of orders processed.
NumOrdersScheduled	Number of orders that have at least one line that was scheduled. Note: scheduled includes all status changes except BACKORDER.
NumOrdersProcOrdersCreated	Number of procurement orders created.
NumWorkOrdersCreated	Number of work orders created.
NumOrdersBackordered	Number of orders backordered.
NumOrderLinesScheduled	Number of order lines scheduled.
NumOrderLinesBackordered	Number of order lines backordered.
NumReleasesCreated	Number of order releases created.

Pending Job Count

For this transaction the pending job count is the number of records representing the unheld orders that are available to be processed by the transaction with the AVAILABLE_DATE value less than or equal to (\leq) the current date value in the YFS_Task_Q table, if tasks on hold are not ready to be processed.

Events Raised

This transaction raises events as specified in the `scheduleOrder()` API in *Yantra 7x Javadocs*.

A.2.29 Send Invoice

This transaction publishes invoice data that can be directed to an external accounts receivable systems.

In environments that require an interface with accounts receivable systems, this job needs to be scheduled. This job raises an event for an invoice based on the following configuration at the following times in the order lifecycle:

- Publish invoice at shipment creation - This implies that your accounts payable system will take care of payment collection. Invoices can be published as soon as they are created.
- Publish invoice after payment collection - This implies that the Yantra 7x Application Consoles takes care of the payment collection and an invoice notification can be received only after the total order amount is collected.

Note: Many of this transaction's elements and attributes are template driven. Refer to the XML for element level details.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–100 Send Invoice Attributes

Attribute	Value
Base Transaction ID	SEND_INVOICE
Base Document Type	Order
Base Process Type	Order Fulfillment
Abstract Transaction	No
APIs Called	getOrderInvoiceDetails()

Criteria Parameters

The following are the criteria parameters for this transaction:

Table A–101 Send Invoice Criteria Parameters

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.

Statistics Tracked

The following statistics are tracked for this transaction:

Table A–102 Send Invoice Statistics

Statistic Name	Description
NumInvoicesSent	Number of invoices sent.

Pending Job Count

For this transaction the pending job count is the number of order invoices in created ("00") status.

Events Raised

The following events are raised by this time-triggered transaction:

Table A–103 Events Raised by the Send Invoice Transaction

Transaction/Event	Key Data	Data Published	Template Support?
PUBLISH_INVOICE_DETAIL	modifyOrder_dbd.txt and sendInvoice_dbd.txt	YFS_getOrderInvoiceDetails_output.xml	Yes

Additional events may be raised by the `getOrderInvoiceDetails()` API. For detailed information about the events, see the *Yantra 7x Javadocs* for this API.

A.2.30 Send Order

This transaction tries to raise the ON_SUCCESS event for an order whose OrderHeaderKey is stored in the task queue object. The event is raised only if all of the order lines of the order reach particular status(es) completely. That is, the entire ORDERED_QTY of each line must be in the particular status(es). In addition to raising the event, the line statuses are also changed to the drop statuses, corresponding to the pickup statuses. The SendOrder transaction, derived from the abstract transaction SEND_ORDER, should have the event, pickup, and drop statuses configured. For more information, see the `sendOrder()` API in *Yantra 7x Javadocs*.

If an order needs to be communicated to a third party, use this transaction.

Note: The TransactionKey posted in the task object must be an instance of the Abstract Transaction SEND_ORDER for the ProcessType associated with the Order. Otherwise, an exception is thrown.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–104 *Send Order Attributes*

Attribute	Value
Base Transaction ID	SEND_ORDER
Base Document Type	Order
Base Process Type	Order Fulfillment
Abstract Transaction	Yes
APIs Called	<code>sendOrder()</code>

Criteria Parameters

The following are the criteria parameters for this transaction:

Table A–105 *Send Order Criteria Parameters*

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.
Next Task Queue Interval	Optional. Specifies in hours how long a failed task should be suspended before it is considered for reprocessing. Defaults to 5 hours.

Statistics Tracked

None.

Pending Job Count

For this transaction the pending job count is the number of records available to be processed by the transaction with the `AVAILABLE_DATE` value less than or equal to (\leq) the current date value in the `YFS_Task_Q` table.

Events Raised

This transaction raises events specified by the `sendOrder()` API in the *Yantra 7x Javadocs*.

A.2.31 Send Release

The Send Release Agent dispatches releases to ship nodes.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–106 *Send Release Attributes*

Attribute	Value
Transaction Name	Send Release
Transaction ID	SHIP_ADVICE
Base Process Type	Order Fulfillment
Abstract Transaction	No
APIs Called	com.yantra.yfs.agent.YFSWMSShipAdviceAgent

Criteria Parameters

The following are the criteria parameters for this transaction:

Table A–107 *Send Release Criteria Parameters*

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.
Next Task Queue Interval	Optional. Specifies in hours how long a failed task should be suspended before it is considered for reprocessing. Defaults to 5 hours.

Statistics Tracked

The following statistics are tracked for this transaction:

Table A–108 Send Release Statistics

Statistic Name	Description
NumReleasesProcessed	Number of order releases processed.
NumReleasesSent	Number of order releases sent.

Pending Job Count

For this transaction the pending job count is the number of records available to be processed by the transaction with the AVAILABLE_DATE value less than or equal to (\leq) the current date value in the YFS_Task_Q table.

Events Raised

The following events are raised by this time-triggered transaction:

Table A–109 Events Raised by the Send Release Transaction

Transaction/Event	Data Published
PUBLISH_SHIP_ADVICE	YFS_publishShipAdvice.xml

A.2.32 Start Order Negotiation

This transaction creates the negotiations for orders that are configured to go through the negotiation process.

Use this transaction in environments where an Order needs to go through a Negotiation phase before it is released.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–110 Start Order Negotiation Attributes

Attribute	Value
Base Transaction ID	START_ORD_NEGOTIATION
Base Document Type	Order
Base Process Type	Order Fulfillment
Abstract Transaction	No

Table A–110 Start Order Negotiation Attributes

Attribute	Value
APIs Called	createNegotiation()
User Exits Called	YCPBeforeCreateNegotiationUE, YCPGetNegotiationNoUE

Criteria Parameters

The following are the criteria parameters for this transaction:

Table A–111 Start Order Negotiation Criteria Parameters

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.
Next Task Queue Interval	Optional. Specifies in hours how long a failed task should be suspended before it is considered for reprocessing. Defaults to 5 hours.

Statistics Tracked

The following statistics are tracked for this transaction:

Table A–112 Start Order Negotiation Statistics

Statistic Name	Description
NumOrdersProcessed	Number of orders processed.
NumNegotiationsCreated	Number of negotiations created.

Pending Job Count

For this transaction the pending job count is the number of records available to be processed by the transaction with the AVAILABLE_DATE value less than or equal to (\leq) the current date value in the YFS_Task_Q table.

Events Raised

This transaction raises events specified by the `createNegotiation()` API in the *Yantra 7x Javadocs*.

A.3 Time-Triggered Purge Transactions

There are several transactions that you can use to purge your database tables at specific time intervals.

Purge transactions determine when a table should be purged by determining the current date and subtracting the retention days specified by the purge. If the timestamp on the table is less than or equal to (current day - retention days) the table is purged.

Note: In some cases, a purge may look at another field other than the table's timestamp. These are pointed out in the documentation.

Note: When an entity is being purged, the related or dependent information that is present in other tables should be taken into consideration for purging along with it. For example, if a sales order with live shipments is being purged, any cross reference to that order will not be accurate in the Order Shipment Console.

Note: Some of the statistics collected and tracked in Release 7.5 SP1 for time-triggered transactions, monitors, and integration and application servers may change with the next release of Yantra.

Note: All Time-Triggered Purge Transactions have a `CollectPendingJobs` criteria parameter. If this parameter is set to `N`, the agent will not collect information on the pending jobs for that time-triggered transaction. This pending job information is used for monitoring the agent in the *Yantra 7x System Management Guide*.

By default, `CollectPendingJobs` is set to `Y`. It can be helpful to set it to `N` if one particular time-triggered transaction is performing a significant amount of `getPendingJobs` queries, and the overhead cost is too high.

A.3.1 Purge Strategy

The following recommendations should be taken into consideration when planning a purge strategy for each purge transaction:

- Test purges by setting `Live` to 'N'.
- Turn on logging to test what is purged.
- Set up purge traces in the System Management Console and analyze the information.

A.3.2 Configuring Purge Transaction Log Files

You can configure purges to write log files to a directory you specify. Each time you run a particular purge, new data is appended to this file. If no file exists, one is created.

To specify purge log file directory:

1. Edit the `<YFS_HOME>/resources/yfs.properties` file.
2. Set `yfs.purge.path=<full absolute path of log directory>`.

For example, on UNIX you might specify the log files to be written to the `/app/yfs/logs/purges` directory.

A.3.3 Available Purges

This section contains details of all purge transactions in alphabetical order. The time-triggered purge transactions are:

- [Alert Purge](#)
- [Capacity Purge](#)
- [Delivery Plan Purge](#)
- [Export Table Purge](#)
- [Import Table Purge](#)
- [Inventory Purge](#)
- [Inventory Audit Purge](#)
- [Load Purge](#)
- [Manifest Purge](#)
- [Negotiation History Purge](#)
- [Negotiation Purge](#)
- [Order History Purge](#)
- [Order Purge](#)
- [Order Status Audit Purge](#)
- [Picklist Purge](#)
- [Price List Purge](#)
- [Receipt History Purge](#)
- [Receipt Purge](#)
- [Reprocess Error Purge](#)
- [Reservation Purge](#)
- [Shipment History Purge](#)
- [Shipment Purge](#)

- [Shipment Statistics Purge](#)
- [Statistics Purge](#)
- [Work Order History Purge](#)
- [Work Order Purge](#)

A.3.3.1 Alert Purge

This purge removes alert data from the system. This reduces the load from frequently accessed tables. The alert should be marked as CLOSED.

Any enterprise using the Yantra 7x Application Consoles must schedule purge transactions.

All inactive alerts with the resolution date smaller than or equal to the current date minus the purge criteria's retention days can be configured to be picked up by the Alert Purge.

This purge agent also closes any open alerts where the number of expiration days is greater than zero, and the modified timestamp is less than the current date minus the number of expiration days.

The alert purge agent purges only the alerts that are marked as CLOSED.

Attributes

The following are the attributes for this time-triggered transaction:

Table A-113 Alert Console Purge Attributes

Attribute	Value
Base Transaction ID	INBOXPRG
Base Document Type	General
Base Process Type	General
Abstract Transaction	No
APIs Called	None
User Exits Called	YFSBeforePurgeUE

Criteria Parameters

The following are the criteria parameters for this transaction:

Table A–114 Alert Console Purge Criteria Parameters

Criteria Parameters	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
CollectPendingJobs	If this parameter is set to \mathbb{N} , the agent will not collect information on the pending jobs for this monitor. This pending job information is used for monitoring the monitor in Yantra 7x System Management.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.
EnterpriseCode	Optional. The organization for which the Alert Purge needs to be run. If not passed, then all enterprises are monitored.
Live	Optional. Mode in which to run. Valid values are: <ul style="list-style-type: none"> Y - Default value. Moves qualifying records from the regular tables listed under Tables Purged to the corresponding history tables. N - Test mode. Determines the rows that will be moved to history tables without actually moving them.
PurgeCode	Required. Cannot be modified. Used for internal calculations, such as determining retention days. Corresponds with the PurgeCode used in Business Rules Purge Criteria.

Statistics Tracked

The following statistics are tracked for this transaction:

Table A–115 Alert Console Purge Statistics

Statistic Name	Description
NumInboxPurged	Number of inbox records purged.

Pending Job Count

For this transaction the pending job count is the number of records that can be purged from the YFS_INBOX table.

Events Raised

None.

Tables Purged

YFS_INBOX

YFS_INBOX_AUDIT

YFS_INBOX_REFERENCES

A.3.3.2 Capacity Purge

This purge removes capacity data from the system. This reduces load from the frequently accessed tables.

Any enterprise using the Yantra 7x Application Consoles must schedule purge transactions.

The following can be configured to be picked up by the Capacity Purge:

- All resource pool standard capacity periods with effective to date less than or equal to the current date minus the purge criteria's retention days.
- All resource pool overridden capacity with the capacity date less than or equal to current date minus the purge criteria's retention days.
- All resource pool capacity consumption with consumption date less than or equal to the current date minus the purge criteria's retention days.
- All capacity reservations where appointment date is less than system date minus the purge criteria's retention days (or ManualReservationPurgeLeadDays for manual reservations) and reservation Id is blank.
- All capacity reservations where expiration date has passed and reservation Id is not blank.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–116 Capacity Purge Attributes

Attribute	Value
Base Transaction ID	CAPACITYPRG
Base Document Type	General
Base Process Type	General
Abstract Transaction	No
APIs Called	None
User Exits Called	YFSBeforePurgeUE

Criteria Parameters

The following are the criteria parameters for this transaction:

Table A–117 Capacity Purge Criteria Parameters

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.
Live	Optional. Mode in which to run. Valid values are: <ul style="list-style-type: none"> Y - Default value. Moves qualifying records from the regular tables listed under Tables Purged to the corresponding history tables. N - Test mode. Determines the rows that will be moved to history tables without actually moving them.
PurgeCode	Required. Cannot be modified. Used for internal calculations, such as determining retention days. Corresponds with the PurgeCode used in Business Rules Purge Criteria.

Statistics Tracked

The following statistics are tracked for this transaction:

Table A-118 Capacity Purge Statistics

Statistic Name	Description
NumStdCapacityPeriodsPurged	Number of standard capacity periods purged.
NumCapacityOverridesPurged	Number of capacity overrides purged.
NumCapacityConsumptionsPurged	Number of capacity consumptions purged.

Pending Job Count

For this transaction the pending job count is the total number of records that can be purged from the YFS_RES_POOL_STD_CAPCTY_PERD, YFS_RES_POOL_CAPCTY_OVERRIDE, YFS_RES_POOL_CONSMPTN_DTLS and YFS_RES_POOL_CAPCTY_CONSMPTN tables.

Events Raised

None.

Tables Purged

The YFS_RES_POOL_STD_CAPCTY_PERD table is purged when $\text{EFFECTIVE_TO_DATE} \leq (\text{CurrentDate} - \text{LeadDays})$

The YFS_RES_POOL_CAPCTY_OVERRIDE table is purged when $\text{CAPACITY_DATE} \leq (\text{CurrentDate} - \text{LeadDays})$

The YFS_RES_POOL_CAPCTY_CONSMPTN table is purged when $\text{CONSUMPTION_DATE} \leq (\text{CurrentDate} - \text{LeadDays})$, or if a manual reservation is taken, when $\text{CONSUMPTION_DATE} \leq (\text{CurrentDate} - \text{Manual Reservation Lead Days})$. When this table is purged, YFS_RES_POOL_CONSMPTN_DTLS will be purged also.

The YFS_RES_POOL_CONSMPTN_DTLS table is purged when $\text{RESERVATION_EXPIRATION_DATE} \leq (\text{CurrentDate} - \text{LeadDays})$

A.3.3.3 Delivery Plan Purge

This purge deletes delivery plans after they have completed their typical lifecycles. It purges all the delivery plans that have been marked as 'Closed' for a period greater than the retention days specified in the

criteria parameters and those that do not have any shipments or loads. The order should have been moved to history before the lead time setup.

Any enterprise using the Yantra 7x Application Consoles must schedule purge transactions.

Note: All the loads and shipments that are associated with the delivery plans should have been purged before running this purge agent.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–119 *Delivery Plan Purge Attributes*

Attribute	Value
Base Transaction ID	DELIVERYPLANPRG
Base Document Type	Load
Base Process Type	Load Execution
Abstract Transaction	No
APIs Called	None
User Exits Called	YFSBeforePurgeUE

Criteria Parameters

The following are the criteria parameters for this transaction:

Table A–120 *Delivery Plan Purge Criteria Parameters*

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.

Table A–120 Delivery Plan Purge Criteria Parameters

Parameter	Description
EnterpriseCode	Optional. Enterprise for which the Delivery Plan Purge needs to be run. If not passed, then all enterprises are monitored.
Live	Optional. Mode in which to run. Defaults to N. <ul style="list-style-type: none"> Y - Default value. Moves qualifying records from the regular tables listed under Tables Purged to the corresponding history tables. N - Test mode. Determines the rows that will be moved to history tables without actually moving them.
PurgeCode	Required. Cannot be modified. Used for internal calculations, such as determining retention days. Corresponds with the PurgeCode used in Business Rules Purge Criteria.

Statistics Tracked

The following statistics are tracked for this transaction:

Table A–121 Delivery Plan Purge Statistics

Statistic Name	Description
NumDeliveryPlansPurged	Number of delivery plans purged.

Pending Job Count

For this transaction the pending job count is the number of records that can be purged from the YFS_Delivery_Plan table.

Events Raised

None.

Tables Purged

YFS_DELIVERY_PLAN

A.3.3.4 Export Table Purge

This purge removes export table data from the system. This reduces load from the frequently accessed tables. It purges records in YFS_EXPORT tables that meet the following criteria:

- YFS_EXPORT records should be marked as processed (Status = 10).
- The last modified time should be before the lead time setup.

Note: This purge only reads the rules defined by the hub. Enterprise overridden rules are not considered.

Any enterprise using the Yantra 7x Application Consoles must schedule purge transactions.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–122 Export Table Purge Attributes

Attribute	Value
Base Transaction ID	EXPORTTBLPRG
Base Document Type	General
Base Process Type	General
Abstract Transaction	No
APIs Called	None
User Exits Called	YFSBeforePurgeUE

Criteria Parameters

The following are the criteria parameters for this transaction:

Table A–123 Export Table Purge Criteria Parameters

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.
Live	Optional. Mode in which to run. Valid values are: <ul style="list-style-type: none"> Y - Default value. Moves qualifying records from the regular tables listed under Tables Purged to the corresponding history tables. N - Test mode. Determines the rows that will be moved to history tables without actually moving them.
PurgeCode	Required. Cannot be modified. Used for internal calculations, such as determining retention days. Corresponds with the PurgeCode used in Business Rules Purge Criteria.

Statistics Tracked

The following statistics are tracked for this transaction:

Table A–124 Export Table Purge Statistics

Statistic Name	Description
NumExportsPurged	Number of exports purged.

Pending Job Count

For this transaction the pending job count is the number of records that can be purged from the YFS_Export table.

Events Raised

None.

Tables Purged

YFS_EXPORT

A.3.3.5 Import Table Purge

This purge removes import table data from the system. This reduces load from the frequently accessed tables. It purges records in YFS_IMPORT tables that meet the following criteria:

- YFS_IMPORT records should be marked as processed (Status = "10").
- The "last modified time" should be before the lead time setup.

Note: This purge only reads the rules defined by the hub. Enterprise overridden rules are not considered.

Any enterprise using the Yantra 7x Application Consoles must schedule purge transactions.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–125 Import Table Purge Attributes

Attribute	Value
Base Transaction ID	IMPORTTBLPRG
Base Document Type	General
Base Process Type	General
Abstract Transaction	No
APIs Called	None
User Exits Called	YFSBeforePurgeUE

Criteria Parameters

The following are the criteria parameters for this transaction:

Table A–126 Import Table Purge Criteria Parameters

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.
Live	Optional. Mode in which to run. Valid values are: <ul style="list-style-type: none"> Y - Default value. Moves qualifying records from the regular tables listed under Tables Purged to the corresponding history tables. N - Test mode. Determines the rows that will be moved to history tables without actually moving them.
PurgeCode	Required. Cannot be modified. Used for internal calculations, such as determining retention days. Corresponds with the PurgeCode used in Business Rules Purge Criteria.

Statistics Tracked

The following statistics are tracked for this transaction:

Table A–127 Import Table Purge Statistics

Statistic Name	Description
NumImportsPurged	Number of import tables purged.

Pending Job Count

For this transaction the pending job count is the number of records that can be purged from the YFS_Import table.

Events Raised

None.

Tables Purged

YFS_IMPORT

A.3.3.6 Inventory Audit Purge

This purge removes inventory audit data from the system. This reduces load from the frequently accessed tables.

Any enterprise using the Yantra 7x Application Consoles must schedule purge transactions.

All inventory audits of the provided organization with modify timestamp less than the current date minus the purge criteria’s retention days can be configured to be picked up by the Inventory Audit Purge.

Note: Number of Threads for this purge’s agent criteria details must be set to 1. For more information on agent criteria, refer to the *Yantra 7x Platform Configuration Guide*.

Important: The Inventory Audit purge will not purge any records under 60 days old, even if configured to do so.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–128 Inventory Audit Purge Attributes

Attribute	Value
Base Transaction ID	INVENTORYAUDITPRG
Base Document Type	General
Base Process Type	General
Abstract Transaction	No
APIs Called	None
User Exits Called	YFSBeforePurgeUE

Criteria Parameters

The following are the criteria parameters for this transaction:

Table A–129 Inventory Audit Purge Criteria Parameters

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.
EnterpriseCode	Optional. The inventory organization for which the Inventory Audit Purge needs to be run. If not passed, then all enterprises are monitored.
Live	Optional. Mode in which to run. Valid values are: <ul style="list-style-type: none"> Y - Default value. Moves qualifying records from the regular tables listed under Table Purged to the corresponding history tables. N - Test mode. Determines the rows that will be moved to history tables without actually moving them.
PurgeCode	Required. Cannot be modified. Used for internal calculations, such as determining retention days. Corresponds with the PurgeCode used in Business Rules Purge Criteria.

Statistics Tracked

The following statistics are tracked for this transaction:

Table A–130 Inventory Audit Statistics

Statistic Name	Description
NumInventoryAuditsPurged	Number of inventory audits purged.

Pending Job Count

For this transaction the pending job count is the number of records that can be purged from the YFS_Inventory_Audit table.

Events Raised

None.

Table Purged

YFS_INVENTORY_AUDIT

A.3.3.7 Inventory Purge

This purge removes inventory data from the system. This reduces load from the frequently accessed tables. This purge does not take retention days into account when purging.

You can use purge codes pseudo-logic to benefit in analyzing purges. An inventory data is picked up for purge if it meets the following criteria:

- Supply record has the same availability type as the node. For example, TRACK or INFINITE.
- Supply record has 0 quantity.
- Supply record do not contain the supply type "INFO".

For YFS_INVENTORY_TAG, it is purged if the INVENTORY_TAG_KEY is not used by any of the existing supply and demand, with the following two exceptions:

- Ship Node Inventory Type is Infinite, Inventory Supply Type has Track, and Quantity = 0, then not purged.
- Ship Node Inventory Type is Track, Inventory Supply Type has Infinite, and Quantity = 0, then not purged.

Any enterprise using the Yantra 7x Application Consoles must schedule purge transactions.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–131 Inventory Purge Attributes

Attribute	Value
Base Transaction ID	INVENTORYPRG
Base Document Type	General

Table A–131 Inventory Purge Attributes

Attribute	Value
Base Process Type	General
Abstract Transaction	No
APIs Called	None
User Exits Called	YFSBeforePurgeUE

Criteria Parameters

The following are the criteria parameters for this transaction:

Table A–132 Inventory Purge Criteria Parameters

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.
Live	Optional. Mode in which to run. Valid values are: <ul style="list-style-type: none"> Y - Default value. Moves qualifying records from the regular tables listed under Tables Purged to the corresponding history tables. N - Test mode. Determines the rows that will be moved to history tables without actually moving them.
PurgeCode	Required. Cannot be modified. Used for internal calculations, such as determining retention days. Corresponds with the PurgeCode used in Business Rules Purge Criteria.

Statistics Tracked

The following statistics are tracked for this transaction:

Table A–133 Inventory Purge Statistics

Statistic Name	Description
NumInventoryDemandsPurged	Number of inventory demands purged.
NumInventoryReservationsPurged	Number of inventory reservations purged.
NumInventoryTagsPurged	Number of inventory tags purged.

Pending Job Count

For this transaction the pending job count is the total number of records that can be purged from the YFS_Inventory_Supply, YFS_Inventory_Demand, YFS_Inventory_Tag, and YFS_Inventory_Reservation tables.

Events Raised

None.

Tables Purged

YFS_INVENTORY_DEMAND

YFS_INVENTORY_TAG

YFS_INVENTORY_RESERVATION

YFS_INVENTORY_SUPPLY

A.3.3.8 Inventory Supply Temp Purge

The Inventory Supply Temp purge agent cleans up the contents in the temporary inventory tables generated by the process of synchronizing Yantra 7x's inventory picture with the actual inventory picture at the nodes.

The node inventory picture is stored during the loading process into the YFS_INVENTORY_SUPPLY_TEMP table. Once the synchronization phase is complete and the YFS_INVENTORY_SUPPLY table has been updated, the YFS_INVENTORY_SUPPLY_TEMP table needs to be purged, which is done through this agent.

For more information on configuring the synchronization with node inventory, refer to the *Yantra 7x Inventory Synchronization Configuration Guide*.

The Inventory Supply Temp purge agent will be used to purge all records in the YFS_INVENTORY_SUPPLY_TEMP table whose modify timestamp is less than current time minus purge criteria's lead days for a group of YantraMessageGroupID.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–134 Inventory Supply Temp Purge Attributes

Attribute	Value
Base Transaction ID	SUPPLYTEMPPRG
Base Document Type	General
Base Process Type	General
Abstract Transaction	No
APIs Called	None
User Exits Called	None

Criteria Parameters

The following are the criteria parameters for this transaction:

Table A–135 Inventory Supply Temp Purge Criteria Parameters

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.

Table A–135 Inventory Supply Temp Purge Criteria Parameters

Parameter	Description
Live	Optional. Mode in which to run. Valid values are: <ul style="list-style-type: none"> Y - Default value. Moves qualifying records from the regular tables listed under Tables Purged to the corresponding history tables. N - Test mode. Determines the rows that will be moved to history tables without actually moving them.
EnterpriseCode	Optional. The inventory organization for which the Inventory Supply Temp Purge needs to be run. If not passed, then all enterprises are monitored.organization.
PurgeCode	Required. Cannot be modified. Used for internal calculations, such as determining retention days. Corresponds with the PurgeCode used in Business Rules Purge Criteria.

Statistics Tracked

The following statistics are tracked for this transaction:

Table A–136 Inventory Supply Temp Purge Statistics

Statistic Name	Description
NumInventorySupplyTempsPurged	Number of entries in the YFS_INVENTORY_SUPPLY_TEMP table purged.

Pending Job Count

Number of unique YantraMessageGroupIDs from YFS_INVENTORY_SUPPLY_TEMP table whose maximum modify timestamp is less than current timestamp minus purge criteria's lead day.

Events Raised

None.

Tables Purged

YFS_INVENTORY_SUPPLY_TEMP

A.3.3.9 Load Purge

This purge removes load data from the system. It picks up all loads that have been marked as 'Closed' and purges them. Empty Loads (for example, loads with no shipments) are not considered for purge. As a part of this purge, the associated child tables are also purged.

This is not a pipeline transaction. It also does not work from the task queue.

Any enterprise using the Yantra 7x Application Consoles must schedule purge transactions.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–137 Load Purge Attributes

Attribute	Value
Base Transaction ID	LOADPRG
Base Document Type	Load
Base Process Type	Load Execution
Abstract Transaction	No
APIs Called	None
User Exits Called	YFSBeforePurgeUE

Criteria Parameters

The following are the criteria parameters for this transaction:

Table A–138 Load Purge Criteria Parameters

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.

Table A–138 Load Purge Criteria Parameters

Parameter	Description
EnterpriseCode	Optional. Enterprise for which the Load Purge needs to be run. If not passed, then all enterprises are monitored.
Live	Optional. Mode in which to run. Valid values are: <ul style="list-style-type: none"> Y - Default value. Moves qualifying records from the regular tables listed under Tables Purged to the corresponding history tables. N - Test mode. Determines the rows that will be moved to history tables without actually moving them.
PurgeCode	Required. Cannot be modified. Used for internal calculations, such as determining retention days. Corresponds with the PurgeCode used in Business Rules Purge Criteria.

Statistics Tracked

The following statistics are tracked for this transaction:

Table A–139 Load Purge Statistics

Statistic Name	Description
NumLoadShipmentsPurged	Number of load shipments purged.
NumLoadsPurged	Number of loads purged.

Pending Job Count

For this transaction the pending job count is the number of records that can be purged from the YFS_Load table.

Events Raised

None.

Tables Purged

YFS_ADDITIONAL_DATE

YFS_LOAD

YFS_LOAD_STOP

YFS_LOAD_SHIPMENT

YFS_LOAD_SHIPMENT_CHARGES (charges that pertain to this load)

YFS_LOAD_STATUS_AUDIT

YFS_LOADED_CONTAINER

YFS_SHIPMENT_CONTAINER

YFS_CONTAINER_ACTIVITY

A.3.3.10 Manifest Purge

This purge picks up all the manifests that have been marked as 'Closed' and purges them.

Any enterprise using the Yantra 7x Application Consoles must schedule purge transactions.

All manifests which do not associate to any shipments and with modify timestamp less than the current date minus the purge criteria's retention days can be configured to be picked up by the Manifest Purge.

Note: All the shipments associated with the manifests should have been purged before running this purge agent.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–140 Manifest Purge Attributes

Attribute	Value
Base Transaction ID	MANIFESTPRG
Base Document Type	General
Base Process Type	General
Abstract Transaction	No
APIs Called	None
User Exits Called	YFSBeforePurgeUE

Criteria Parameters

The following are the criteria parameters for this transaction:

Table A–141 Manifest Purge Parameters

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.
Live	Optional. Mode in which to run. Valid values are: <ul style="list-style-type: none"> Y - Default value. Moves qualifying records from the regular tables listed under Tables Purged to the corresponding history tables. N - Test mode. Determines the rows that will be moved to history tables without actually moving them.
PurgeCode	Required. Cannot be modified. Used for internal calculations, such as determining retention days. Corresponds with the PurgeCode used in Business Rules Purge Criteria.
AgentCriteriaGroup	Optional. Used to classify nodes. This value can be accepted by WMS time-triggered transactions that will only perform their tasks on the nodes with a matching node transactional velocity value. Valid values are: LOW, HIGH, and any additional values defined by the Hub from Platform > System Administration > Agent Criteria Groups.
ShipNode	Optional. Ship node for which the Manifest Purge needs to be run. If not passed, then all ship nodes are monitored.

Statistics Tracked

The following statistics are tracked for this transaction:

Table A–142 Manifest Purge Statistics

Statistic Name	Description
NumManifestsPurged	Number of manifests purged.

Pending Job Count

For this transaction the pending job count is the number of records that can be purged from the YFS_Manifest table.

Events Raised

None.

Tables Purged

YFS_MANIFEST

Note: To purge Manifests, the Shipments related to the manifests should be purged by Shipment Purge, and the Manifests should be in 'Closed' status. For more information, see [Section A.3.3.23, "Shipment Purge"](#) on page 496.

A.3.3.11 Negotiation History Purge

This purge removes negotiation history data from the system. This reduces load from the frequently accessed tables. It purges data from the order negotiation history tables.

Any enterprise using the Yantra 7x Application Consoles must schedule purge transactions.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–143 *Negotiation History Purge Attributes*

Attribute	Value
Base Transaction ID	NEGOTIATIONHISTPRG
Base Document Type	Order
Base Process Type	Order Negotiation
Abstract Transaction	No
APIs Called	None
User Exits Called	YFSBeforePurgeUE

Criteria Parameters

The following are the criteria parameters for this transaction:

Table A–144 *Negotiation History Purge Criteria Parameters*

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.
EnterpriseCode	Optional. Enterprise for which the Negotiation History Purge needs to be run. If not passed, then all enterprises are monitored.
Live	Optional. Mode in which to run. Valid values are: <ul style="list-style-type: none"> Y - Default value. Moves qualifying records from the regular tables listed under Tables Purged to the corresponding history tables. N - Test mode. Determines the rows that will be moved to history tables without actually moving them.
PurgeCode	Required. Cannot be modified. Used for internal calculations, such as determining retention days. Corresponds with the PurgeCode used in Business Rules Purge Criteria.

Statistics Tracked

The following statistics are tracked for this transaction:

Table A–145 *Negotiation History Purge Statistics*

Statistic Name	Description
NumNegotiationHistoriesPurged	Number of negotiation histories purged.

Pending Job Count

For this transaction the pending job count is the number of records that can be purged from the YFS_Negotiation_Hdr_H table.

Events Raised

None.

Tables Purged

YFS_NEGOTIATION_HDR_H

YFS_NEGOTIATION_LINE_H

YFS_RESPONSE_H

YFS_RESPONSE_HDR_H

YFS_RESPONSE_LINE_H

YFS_RESPONSE_LINE_DTL_H

A.3.3.12 Negotiation Purge

This purge archives data into history tables after it completes its typical lifecycle. This reduces load from the frequently accessed tables. It works from the task queue (YFS_TASK_Q) table, picking up negotiations in which the last modification time occurs before the lead time set up and which are in statuses that can be picked.

Any enterprise using the Yantra 7x Application Consoles must schedule purge transactions.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–146 *Negotiation Purge Attributes*

Attribute	Value
Base Transaction ID	ORD_NEGOTIATION_PURGE
Base Document Type	Order
Base Process Type	Order Negotiation
Abstract Transaction	No
APIs Called	None
User Exits Called	YFSBeforePurgeUE

Criteria Parameters

The following are the criteria parameters for this transaction:

Table A–147 *Negotiation Purge Criteria Parameters*

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.
EnterpriseCode	Optional. Enterprise for which the Negotiation Purge needs to be run. If not passed, then all enterprises are monitored.
Live	Optional. Mode in which to run. Valid values are: <ul style="list-style-type: none"> Y - Default value. Moves qualifying records from the regular tables listed under Tables Purged to the corresponding history tables. N - Test mode. Determines the rows that will be moved to history tables without actually moving them.

Table A–147 *Negotiation Purge Criteria Parameters*

Parameter	Description
PurgeCode	Required. Cannot be modified. Used for internal calculations, such as determining retention days. Corresponds with the PurgeCode used in Business Rules Purge Criteria.
Next Task Queue Interval	Optional. Specifies in hours how long a failed task should be suspended before it is considered for reprocessing. Defaults to 5 hours.

Statistics Tracked

The following statistics are tracked for this transaction:

Table A–148 *Negotiation Purge Statistics*

Statistic Name	Description
NumOrderNegotiationsPurged	Number of order negotiations purged.

Pending Job Count

For this transaction the pending job count is the number of records available to be processed by the transaction with the AVAILABLE_DATE value less than or equal to (\leq) the current date value in the YFS_Task_Q table.

Events Raised

None

Tables Purged

YFS_NEGOTIATION_HDR

YFS_NEGOTIATION_LINE

YFS_RESPONSE

YFS_RESPONSE_HDR

YFS_RESPONSE_LINE

YFS_RESPONSE_LINE_DTL

A.3.3.13 Order History Purge

This purge deletes data from history tables after it completes its typical lifecycle. This reduces load from the frequently accessed tables. It deletes data from the history tables.

Any enterprise using the Yantra 7x Application Consoles must schedule purge transactions.

Note: Order should have been purged and moved into the history tables before you can run this transaction. See [Section A.3.3.14, "Order Purge"](#) on page 475.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–149 Order History Purge Attributes

Attribute	Value
Base Transaction ID	ORDERHISTPRG
Base Document Type	Order
Base Process Type	Order Fulfillment
Abstract Transaction	No
APIs Called	None
User Exits Called	YFSBeforePurgeUE

Criteria Parameters

The following are the criteria parameters for this transaction:

Table A–150 Order History Purge Criteria Parameters

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.

Table A–150 Order History Purge Criteria Parameters

Parameter	Description
EnterpriseCode	Optional. Enterprise for which the Order History Purge needs to be run. If not passed, then all enterprises are monitored.
Live	Optional. Mode in which to run. Valid values are: <ul style="list-style-type: none"> Y - Default value. Removes qualifying records from the history tables listed under Tables Purged. N- Test mode. Determines the rows that will be removed without actually removing them.
PurgeCode	Required. Cannot be modified. Used for internal calculations, such as determining retention days. Corresponds with the PurgeCode used in Business Rules Purge Criteria.

Statistics Tracked

The following statistics are tracked for this transaction:

Table A–151 Order History Purge Statistics

Statistic Name	Description
NumOrderHistoriesPurged	Number of order histories purged.

Pending Job Count

For this transaction the pending job count is the number of records that can be purged from the YFS_Order_Header_H table.

Events Raised

None.

Tables Purged

YFS_CHARGE_TRANSACTION_H

YFS_CREDIT_CARD_TRANSACTION_H

YFS_ENTITY_ADDRESS_H

YFS_HEADER_CHARGES_H

YFS_INSTRUCTION_DETAIL_H
YFS_INVOICE_COLLECTION_H
YFS_LINE_CHARGES_H
YFS_NOTES_H
YFS_ORDER_AUDIT_DETAIL_H
YFS_ORDER_AUDIT_H
YFS_ORDER_AUDIT_LEVEL_H
YFS_ORDER_DATE_H
YFS_ORDER_HEADER_H
YFS_ORDER_HOLD_TYPE_H
YFS_ORDER_HOLD_TYPE_LOG_H
YFS_ORDER_INVOICE_DETAIL_H
YFS_ORDER_INVOICE_H
YFS_ORDER_KIT_LINE_H
YFS_ORDER_KIT_LINE_SCHEDULE_H
YFS_ORDER_LINE_H
YFS_ORDER_LINE_OPTION_H
YFS_ORDER_LINE_REQ_TAG_H
YFS_ORDER_LINE_SCHEDULE_H
YFS_ORDER_PROD_SER_ASSOC_H
YFS_ORDER_RELEASE_H
YFS_ORDER_RELEASE_STATUS_H
YFS_ORDER_SER_PROD_ITEM_H
YFS_PAYMENT_H
YFS_REFERENCE_TABLE_H
YFS_TAX_BREAKUP_H

A.3.3.14 Order Purge

This purge archives data into history tables after it completes its typical lifecycle. See [Section A.3.3.13, "Order History Purge"](#) on page 472. This reduces load from the frequently accessed tables. It works on a task queue. It picks up the orders from YFS_TASK_Q table that are available for the transaction PURGE.

Note: This transaction depends on all lines of an order being in a status pickable by the Purge transaction.

The following statuses are available for configuration to be picked up by Order Purge:

- Draft Created (1000) and all extended Draft Created Statuses.
- Created (1100) and all extended Created statuses. These statuses are available only for document types Sales Order, Purchase Order and Transfer Order.
- Shipped (3700) and all extended Shipped statuses.
- Cancelled (9000) and all extended Cancelled statuses.
- Shorted (9020) and all extended Shorted statuses.

You can use purge codes pseudo-logic to benefit in analyzing purges. An order is picked up for purge if it meets the following criteria:

1. All open child orders (derived, chained, return, exchange, procurement, or refund fulfillment) for the order must already be purged.
2. No pending transfer-out charges to another order exceeding the transfer-ins.
3. No pending adjustment invoices.

An order is purged immediately if it meets the above three criteria and is completely cancelled.

If an order does not meet any of the above criteria continue checking for the criteria given below:

- No order release status record that does not meet the lead days.
- It should be in the correct status for purge. For example,

- All service requests for the order should have Shipped or extended Shipped status.
 - The payment status for the order should be Paid, Cancelled, or Not Applicable.
 - It must not have any unpurged negotiations.
- For all order lines other than service request lines:
 - If the Seller inventory update is required, the Status Inventory Type has the "Update Seller Supply" option turned on, and the Seller Supply Type is "Onhand", or blank. (The Seller Supply Type can also be a custom seller supply type with the "Onhand Supply" checkbox enabled.)
 - If the Seller Demand Type is blank.
 - If the Buyer inventory update is required and the Buyer Supply Type is "Onhand", or blank.
- The order's last modification should fall before the lead time setup.
- Any enterprise using the Yantra 7x Application Consoles must schedule purge transactions.
- The order must not have a undelivered service line.
- In the case of an exchange order for processing a return order, the exchange order should be purged from history before the return order can be purged.

Note: With no change to status inventory type, a sales order in Shipped (3700) status or its extended status is purged if the Buyer is not passed.

An order in Shipped status or extended Shipped status in the default pipeline is not purged if the Buyer passed on the sales order is tracking inventory. This prevents the purging of the order relating to the pending supply for the Buyer tracking inventory.

To purge such orders, the status inventory type for the Shipped or extended Shipped status should be configured such that the Buyer Supply Type is ONHAND for the status inventory type.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–152 Order Purge Attributes

Attribute	Value
Base Transaction ID	PURGE
Base Document Type	Order
Base Process Type	Order Fulfillment
Abstract Transaction	No
APIs Called	None
User Exits Called	YFSBeforePurgeUE

Criteria Parameters

The following are the criteria parameters for this transaction:

Table A–153 Order Purge Criteria Parameters

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.
Next Task Queue Interval	Optional. Specifies in hours how long a failed task should be suspended before it is considered for reprocessing. Defaults to 5 hours.
EnterpriseCode	Optional. Enterprise for which the Order Purge needs to be run. If not passed, then all enterprises are monitored.
Live	Optional. Mode in which to run. Valid values are: <ul style="list-style-type: none"> Y - Default value. Moves qualifying records from the regular tables listed under Tables Purged to the corresponding history tables. N - Test mode. Determines the rows that will be moved to history tables without actually moving them.
PurgeCode	Required. Cannot be modified. Used for internal calculations, such as determining retention days. Corresponds with the PurgeCode used in Business Rules Purge Criteria.

Statistics Tracked

The following statistics are tracked for this transaction:

Table A–154 Order Purge Statistics

Statistic Name	Description
NumOrdersProcessed	Number of order processed.
NumOrdersPurged	Number of orders purged.

Pending Job Count

For this transaction the pending job count is the number of records available to be processed by the transaction with the AVAILABLE_DATE value less than or equal to (\leq) the current date value in the YFS_Task_Q table.

Events Raised

None.

Tables Purged

YFS_CHARGE_TRANSACTION
 YFS_CREDIT_CARD_TRANSACTION
 YFS_ENTITY_ADDRESS
 YFS_HEADER_CHARGES
 YFS_INSTRUCTION_DETAIL
 YFS_INVOICE_COLLECTION
 YFS_LINE_CHARGES
 YFS_MONITOR_ALERT
 YFS_NOTES
 YFS_ORDER_AUDIT
 YFS_ORDER_AUDIT_DETAIL
 YFS_ORDER_AUDIT_LEVEL
 YFS_ORDER_HEADER
 YFS_ORDER_HOLD_TYPE
 YFS_ORDER_HOLD_TYPE_LOG
 YFS_ORDER_INVOICE
 YFS_ORDER_INVOICE_DETAIL
 YFS_ORDER_KIT_LINE
 YFS_ORDER_KIT_LINE_SCHEDULE
 YFS_ORDER_LINE

YFS_ORDER_LINE_OPTION
YFS_ORDER_LINE_REQ_TAG
YFS_ORDER_LINE_SCHEDULE
YFS_ORDER_LINE_SRC_CNTRL
YFS_ORDER_PROD_SER_ASSOC
YFS_ORDER_RELEASE
YFS_ORDER_RELEASE_STATUS
YFS_ORDER_SER_PROD_ITEM
YFS_ORDER_DATE
YFS_PAYMENT
YFS_REFERENCE_TABLE
YFS_TAX_BREAKUP
YFS_ACTIVITY_DEMAND

A.3.3.15 Order Status Audit Purge

This purge removes order status audit data from the system. This reduces load from the frequently accessed tables. It purges all records before the lead time setup.

Any enterprise using the Yantra 7x Application Consoles must schedule purge transactions.

Note: This transaction needs to be run after negotiation is completed.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–155 Order Status Audit Purge Attributes

Attribute	Value
Base Transaction ID	STATUSAUDITPRG
Base Document Type	Order

Table A–155 Order Status Audit Purge Attributes

Attribute	Value
Base Process Type	Order Fulfillment
Abstract Transaction	No
APIs Called	None
User Exits Called	YFSBeforePurgeUE

Criteria Parameters

The following are the criteria parameters for this transaction:

Table A–156 Order Status Audit Purge Criteria Parameters

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.
EnterpriseCode	Optional. Enterprise for which the Order Status Audit Purge needs to be run. If not passed, then all enterprises are monitored.
Live	Optional. Mode in which to run. Valid values are: <ul style="list-style-type: none"> Y - Default value. Moves qualifying records from the regular tables listed under Tables Purged to the corresponding history tables. N - Test mode. Determines the rows that will be moved to history tables without actually moving them.
PurgeCode	Required. Cannot be modified. Used for internal calculations, such as determining retention days. Corresponds with the PurgeCode used in Business Rules Purge Criteria.

Statistics Tracked

The following statistics are tracked for this transaction:

Pending Job Count**Table A–157** *Order Status Audit Purge Statistics*

Statistic Name	Description
NumStatusAuditsPurged	Number of status audits purged.

For this transaction the pending job count is the number of records that can be purged from the YFS_Status_Audit table.

Events Raised

None.

Tables Purged

YFS_STATUS_AUDIT

A.3.3.16 Picklist Purge

This purge picks up all picklists that have been existing for a period greater than the retention days specified in the criteria parameters and those that do not have any shipments.

Any enterprise using the Yantra 7x Application Consoles must schedule purge transactions.

Attributes

Note: All shipments associated with the picklists should have been purged before running this purge agent.

The following are the attributes for this time-triggered transaction:

Table A–158 *Picklist Purge Attributes*

Attribute	Value
Base Transaction ID	PICKLISTPRG
Base Document Type	Order
Base Process Type	Order Delivery
Abstract Transaction	No

Table A–158 Picklist Purge Attributes

Attribute	Value
APIs Called	None
User Exits Called	YFSBeforePurgeUE

Criteria Parameters

The following are the criteria parameters for this transaction:

Table A–159 Picklist Purge Criteria Parameters

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.
Live	Optional. Mode in which to run. Valid values are: <ul style="list-style-type: none"> Y - Default value. Moves qualifying records from the regular tables listed under Tables Purged to the corresponding history tables. N - Test mode. Determines the rows that will be moved to history tables without actually moving them.
PurgeCode	Required. Cannot be modified. Used for internal calculations, such as determining retention days. Corresponds with the PurgeCode used in Business Rules Purge Criteria.

Statistics Tracked

The following statistics are tracked for this transaction:

Table A–160 Picklist Purge Statistics

Statistic Name	Description
NumPickListsPurged	Number of picklists purged.

Pending Job Count

For this transaction the pending job count is the number of records that can be purged from the YFS_Pick_List table.

Events Raised

None.

Tables Purged

YFS_PICK_LIST

A.3.3.17 Price List Purge

This purge removes price list data from the system. This reduces load from the frequently accessed tables.

Any enterprise using the Yantra 7x Application Consoles must schedule purge transactions.

All price list sets with valid date less than the current date minus the purge criteria’s retention days can be configured to be picked up by the Price List Purge.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–161 Price List Purge Attributes

Attribute	Value
Base Transaction ID	PRICELISTPRG
Base Document Type	General
Base Process Type	General
Abstract Transaction	No
APIs Called	None
User Exits Called	YFSBeforePurgeUE

Criteria Parameters

The following are the criteria parameters for this transaction:

Table A–162 Price List Purge Criteria Parameters

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.
Live	Optional. Mode in which to run. Valid values are: <ul style="list-style-type: none"> Y - Default value. Moves qualifying records from the regular tables listed under Tables Purged to the corresponding history tables. N - Test mode. Determines the rows that will be moved to history tables without actually moving them.
PurgeCode	Required. Cannot be modified. Used for internal calculations, such as determining retention days. Corresponds with the PurgeCode used in Business Rules Purge Criteria.

Statistics Tracked

The following statistics are tracked for this transaction:

Table A–163 Price List Purge Statistics

Statistic Name	Description
NumPriceSetsPurged	Number of price sets purged.

Pending Job Count

For this transaction the pending job count is the number of records that can be purged from the YFS_Price_Set table.

Events Raised

None.

Tables Purged

YFS_PRICE_SET table with VALID_TILL_DATE less than or equal to (CurrentDate - LeadDays)

YFS_PRICE_PROGRAM_DEFN

YFS_ITEM_PRICE_SET

YFS_ITEM_PRICE_SET_DTL

A.3.3.18 Receipt History Purge

This transaction deletes receipts previously archived by the Receipt Purge. See [Section A.3.3.19, "Receipt Purge"](#) on page 488.

Any enterprise using the Yantra 7x Application Consoles must schedule purge transactions.

Note: To purge a receipt history, ensure that the Receipts are closed and Shipments are purged.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–164 *Receipt History Purge Attributes*

Attribute	Value
Base Transaction ID	RECEIPTHISTPRG
Base Document Type	Order
Base Process Type	Order Fulfillment
Abstract Transaction	No
APIs Called	None
User Exits Called	YFSBeforePurgeUE

Criteria Parameters

The following are the criteria parameters for this transaction:

Table A–165 Receipt History Purge Criteria Parameters

Parameter	Description
Action	Required. Triggers the transaction.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.
EnterpriseCode	Optional. Enterprise for which the Receipt History Purge needs to be run. If not passed, then all enterprises are monitored.
Live	Optional. Mode in which to run. Valid values are: <ul style="list-style-type: none"> Y - Default value. Removes qualifying records from the history tables listed under Tables Purged. N- Test mode. Determines the rows that will be removed without actually removing them.
PurgeCode	Required. Cannot be modified. Used for internal calculations, such as determining retention days. Corresponds with the PurgeCode used in Business Rules Purge Criteria.

Statistics Tracked

The following statistics are tracked for this transaction:

Table A–166 Receipt History Purge Statistics

Statistic Name	Description
NumReceiptLineHistoriesPurged	Number of receipt line histories purged.
NumReceiptHistoriesPurged	Number of receipt histories purged.

Pending Job Count

For this transaction the pending job count is the number of records that can be purged from the YFS_Receipt_Header_H table.

Events Raised

None.

Tables Purged

- YFS_RECEIPT_HEADER_H
- YFS_RECEIPT_LINE_H
- YFS_RECEIPT_STATUS_AUDIT_H
- YFS_INSTRUCTION_DETAIL_H

A.3.3.19 Receipt Purge

This purge removes receipt data from the system. This reduces load from the frequently accessed tables. This transaction picks up all receipts that are not open and not pending inspection and archives them into their history tables. See [Section A.3.3.18, "Receipt History Purge"](#) on page 486. It also archives and purges the receipt's child tables.

This is a pipeline transaction and works from a task queue.

Any enterprise using the Yantra 7x Application Consoles must schedule purge transactions.

Note: To purge a receipt, ensure that the Receipts are closed and Shipments are purged.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–167 Receipt Purge Attributes

Attribute	Value
Base Transaction ID	RECEIPTPRG
Base Document Type	Order
Base Process Type	Order Fulfillment
Abstract Transaction	No
APIs Called	None
User Exits Called	YFSBeforePurgeUE

Criteria Parameters

The following are the criteria parameters for this transaction:

Table A–168 *Receipt Purge Criteria Parameters*

Parameter	Description
Action	Required. Triggers the transaction.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.
EnterpriseCode	Optional. Enterprise for which the Receipt Purge needs to be run. If not passed, then all enterprises are monitored.
Live	Optional. Mode in which to run. Valid values are: <ul style="list-style-type: none"> Y - Default value. Moves qualifying records from the regular tables listed under Tables Purged to the corresponding history tables. N - Test mode. Determines the rows that will be moved to history tables without actually moving them.
PurgeCode	Required. Cannot be modified. Used for internal calculations, such as determining retention days. Corresponds with the PurgeCode used in Business Rules Purge Criteria.

Statistics Tracked

The following statistics are tracked for this transaction:

Table A–169 *Receipt Purge Statistics*

Statistic Name	Description
NumReceiptLinesPurged	Number of Receipt Lines purged.
NumReceiptsPurged	Number of receipts purged.

Pending Job Count

For this transaction the pending job count is the number of records available to be processed by the transaction with the AVAILABLE_DATE

value less than or equal to (<=) the current date value in the YFS_Task_Q table.

Events Raised

None.

Tables Purged

YFS_RECEIPT_HEADER

YFS_RECEIPT_LINE

YFS_RECEIPT_STATUS_AUDIT

YFS_INSTRUCTION_DETAIL

A.3.3.20 Reprocess Error Purge

This purge deletes reprocess errors from the system. This reduces load from the frequently accessed tables. It purges records in YFS_REPROCESS_ERROR tables that meet the following criteria:

- YFS_REPROCESS_ERROR records with State = Fixed or Ignored are processed.
- The last modified time should be earlier than the lead time setup.

Note: This purge only reads the rules defined by the hub. Enterprise overridden rules are not considered.

Any enterprise using the Yantra 7x Application Consoles must schedule purge transactions.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–170 Reprocess Error Purge Attributes

Attribute	Value
Base Transaction ID	REPROCESSPRG
Base Document Type	General

Table A–170 Reprocess Error Purge Attributes

Attribute	Value
Base Process Type	General
Abstract Transaction	No
APIs Called	None
User Exits Called	YFSBeforePurgeUE

Criteria Parameters

The following are the criteria parameters for this transaction:

Table A–171 Reprocess Error Purge Criteria Parameters

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.
Live	Optional. Mode in which to run. Valid values are: <ul style="list-style-type: none"> Y - Default value. Moves qualifying records from the regular tables listed under Tables Purged to the corresponding history tables. N - Test mode. Determines the rows that will be moved to history tables without actually moving them.
PurgeCode	Required. Cannot be modified. Used for internal calculations, such as determining retention days. Corresponds with the PurgeCode used in Business Rules Purge Criteria.

Statistics Tracked

The following statistics are tracked for this transaction:

Table A–172 Reprocess Error Purge Statistics

Statistic Name	Description
NumReprocessErrsPurged	Number of reprocess errors purged.

Pending Job Count

For this transaction the pending job count is the number of records that can be purged from the YFS_REPROCESS_ERROR table.

Events Raised

None.

Tables Purged

YFS_REPROCESS_ERROR

A.3.3.21 Reservation Purge

This purge deletes expired inventory reservations from the system. This reduces load from the frequently accessed tables as well as free up demands that are consumed by expired reservations. It purges records in YFS_INVENTORY_RESERVATION tables that meet the following criteria:

- Records with EXPIRATION_DATE earlier than current date.

Any enterprise using the Yantra 7x Application Consoles must schedule purge transactions.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–173 Reservation Purge Attributes

Attribute	Value
Base Transaction ID	RESERVATIONPRG
Base Document Type	General
Base Process Type	General
Abstract Transaction	No

Table A–173 Reservation Purge Attributes

Attribute	Value
APIs Called	None
User Exits Called	None

Criteria Parameters

The following are the criteria parameters for this transaction:

Table A–174 Reservation Purge Criteria Parameters

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.
Live	Optional. Mode in which to run. Valid values are: <ul style="list-style-type: none"> Y - Default value. Moves qualifying records from the regular tables listed under Tables Purged to the corresponding history tables. N - Test mode. Determines the rows that will be moved to history tables without actually moving them.
PurgeCode	Required. Cannot be modified. Used for internal calculations, such as determining retention days. Corresponds with the PurgeCode used in Business Rules Purge Criteria.

Statistics Tracked

The following statistics are tracked for this transaction:

Table A–175 Reservation Purge Statistics

Statistic Name	Description
NumReservationsPurged	Number of reservations purged.

Pending Job Count

For this transaction the pending job count is the number of records that can be purged from the YFS_INVENTORY_RESERVATION table.

Events Raised

None.

Tables Purged

YFS_INVENTORY_RESERVATION

A.3.3.22 Shipment History Purge

This transaction deletes shipments previously archived by the Shipment Purge. See [Section A.3.3.23, "Shipment Purge"](#) on page 496.

Any enterprise using the Yantra 7x Application Consoles must schedule purge transactions.

Note: Orders related to the shipments should have been purged by order purge. Shipments should have been closed by the Close Shipment transaction. See [Section A.2.8, "Close Shipment"](#) on page 389.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–176 *Shipment History Purge Attributes*

Attribute	Value
Base Transaction ID	SHIPMENTHISTPRG
Base Document Type	Order
Base Process Type	Order Delivery
Abstract Transaction	No
APIs Called	None
User Exits Called	YFSBeforePurgeUE

Criteria Parameters

The following are the criteria parameters for this transaction:

Table A–177 Shipment History Purge Criteria Parameters

Parameter	Description
Action	Required. Triggers the transaction.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.
EnterpriseCode	Optional. Enterprise for which the Shipment History Purge needs to be run. If not passed, then all enterprises are monitored.
Live	Optional. Mode in which to run. Valid values are: <ul style="list-style-type: none"> Y - Default value. Removes qualifying records from the history tables listed under Tables Purged. N- Test mode. Determines the rows that will be removed without actually removing them.
PurgeCode	Required. Cannot be modified. Used for internal calculations, such as determining retention days. Corresponds with the PurgeCode used in Business Rules Purge Criteria.

Statistics Tracked

The following statistics are tracked for this transaction:

Table A–178 Shipment History Purge Statistics

Statistic Name	Description
NumShipmentHistoriesPurged	Number of shipment histories purged.
NumShipmentLineHistoriesPurged	Number of shipment line histories purged.

Pending Job Count

For this transaction the pending job count is the number of records that can be purged from the YFS_Shipment_H table.

Events Raised

None.

Tables Purged

YFS_ADDITIONAL_ATTRIBUTE_H

YFS_ADDITIONAL_DATE_H

YFS_CONTAINER_DETAILS_H

YFS_CONTAINER_STS_AUDIT_H

YFS_INSTRUCTION_DETAIL_H

YFS_SHIPMENT_CONTAINER_H

YFS_SHIPMENT_H

YFS_SHIPMENT_LINE_H

YFS_SHIPMENT_LINE_REQ_TAG_H

YFS_SHIPMENT_STATUS_AUDIT_H

YFS_SHIPMENT_TAG_SERIAL_H

YFS_CONTAINER_ACTIVITY_H

A.3.3.23 Shipment Purge

This purge removes shipment data from the system. This reduces load from the frequently accessed tables. This transaction picks up all shipments that have been marked as 'Closed' and archives them into their history tables. See [Section A.3.3.22, "Shipment History Purge"](#) on page 494. It also archives and purges the shipment's child tables.

This is not a pipeline transaction. It also does not work from the task queue. All orders in the shipment should have been purged.

The shipment should have been made before the lead time setup.

Any enterprise using the Yantra 7x Application Consoles must schedule purge transactions.

Note: Orders related to the shipments should have been purged by order purge. Shipments should have been closed by the Close Shipment transaction. See [Section A.2.8, "Close Shipment"](#) on page 389.

A shipment is picked up for purge if it meets the following criteria:

1. The shipment's last modification should fall before the lead time setup.
2. If the value of ShipmentClosedFlag field is set to "Y".
3. The order record should already be purged for all the shipment lines.

Attributes

The following are the attributes for this time-triggered transaction:

Table A-179 Shipment Purge Attributes

Attribute	Value
Base Transaction ID	SHIPMENTPRG
Base Document Type	Order
Base Process Type	Order Delivery
Abstract Transaction	No
APIs Called	None
User Exits Called	YFSBeforePurgeUE

Criteria Parameters

The following are the criteria parameters for this transaction:

Table A-180 Shipment Purge Criteria Parameters

Parameter	Description
Action	Required. Triggers the transaction.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.

Table A–180 Shipment Purge Criteria Parameters

Parameter	Description
EnterpriseCode	Optional. Enterprise for which the Shipment Purge needs to be run. If not passed, then all enterprises are monitored.
Live	Optional. Mode in which to run. Valid values are: <ul style="list-style-type: none"> Y - Default value. Moves qualifying records from the regular tables listed under Tables Purged to the corresponding history tables. N - Test mode. Determines the rows that will be moved to history tables without actually moving them.
PurgeCode	Required. Cannot be modified. Used for internal calculations, such as determining retention days. Corresponds with the PurgeCode used in Business Rules Purge Criteria.

Statistics Tracked

The following statistics are tracked for this transaction:

Table A–181 Shipment Purge Statistics

Statistic Name	Description
NumShipmentsPurged	Number of Shipments purged.
NumShipmentLinesPurged	Number of Shipment Lines purged.

Pending Job Count

For this transaction the pending job count is the number of records that can be purged from the YFS_Shipment table.

Events Raised

None.

Tables Purged

YFS_ADDITIONAL_ATTRIBUTES

YFS_ADDITIONAL_DATE

YFS_CONTAINER_DETAILS
YFS_LOAD_SHIPMENT_CHARGE
YFS_MONITOR_ALERT
YFS_SHIPMENT_CONTAINER
YFS_SHIPMENT_STATUS_AUDIT
YFS_SHIPMENT
YFS_INSTRUCTION_DETAIL
YFS_SHIPMENT_MONITOR_ALERT
YFS_HEADER_CHARGES
YFS_LINE_CHARGES
YFS_TAX_BREAKUP
YFS_SHIPMENT_TAG_SERIALS
YFS_SHIPMENT_LINE
YFS_SHIPMENT_LINE_REQ_TAG
YFS_ACTIVITY_DEMAND
YFS_CONTAINER_STS_AUDIT
YFS_CONTAINER_ACTIVITY

A.3.3.24 Shipment Statistics Purge

This transaction deletes the shipment statistics from the table older than the specified retention days.

This agent should be used whenever shipment statistics records need to be removed, such as after a application server restart.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–182 Shipment Statistics Purge Attributes

Attribute	Value
Base Transaction ID	PRG_SHIP_STATS
Base Document Type	Order
Base Process Type	Order Delivery
Abstract Transaction	No
APIs Called	None
User Exits Called	YFSBeforePurgeUE

Criteria Parameters

The following are the criteria parameters for this transaction:

Table A–183 Shipment Statistics Purge Criteria Parameters

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.
EnterpriseCode	Optional. Enterprise for which the Shipment Statistics Purge needs to be run. If not passed, then all enterprises are monitored.
Live	Optional. Mode in which to run. Valid values are: <ul style="list-style-type: none"> Y - Default value. Moves qualifying records from the regular tables listed under Tables Purged to the corresponding history tables. N - Test mode. Determines the rows that will be moved to history tables without actually moving them.
PurgeCode	Required. Cannot be modified. Used for internal calculations, such as determining retention days. Corresponds with the PurgeCode used in Business Rules Purge Criteria.

Statistics Parameters

The following are the statistics parameters for this transaction:

Table A–184 *Shipment Statistics Purge Statistics*

Parameter	Description
NumShipmentStatisticsPurged	Number of shipment statistics purged.

Pending Job Count

For this transaction the pending job count is the number of records that can be purged from the YFS_SHIPMENT_STATISTICS table.

Events Raised

None.

Tables Purged

YFS_SHIPMENT_STATISTICS

A.3.3.25 Statistics Purge

This purge removes statistics data from the system. It purges all records older than the specified retention days.

Note: This purge only reads the rules defined by the hub. Enterprise overridden rules are not considered.

Note: Yantra recommends that this agent be run often. In a production environment, the YFS_STATISTICS_DETAIL table can grow very large, very quickly. It does not carry any old data, therefore it is a good practice to purge it aggressively, from once a day to once a week, depending on the table size.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–185 Statistics Purge Attributes

Attribute	Value
Base Transaction ID	STATTLPRG
Base Document Type	General
Base Process Type	General
Abstract Transaction	No
APIs Called	None
User Exits Called	YFSBeforePurgeUE

Criteria Parameters

The following are the criteria parameters for this transaction:

Table A–186 Statistics Purge Criteria Parameters

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.
Live	Optional. Mode in which to run. Valid values are: <ul style="list-style-type: none"> Y - Default value. Moves qualifying records from the regular tables listed under Tables Purged to the corresponding history tables. N - Test mode. Determines the rows that will be moved to history tables without actually moving them.
PurgeCode	Required. Cannot be modified. Used for internal calculations, such as determining retention days. Corresponds with the PurgeCode used in Business Rules Purge Criteria.

Statistics Tracked

The following statistics are tracked for this transaction:

Table A–187 Statistics Purge Statistics

Statistic Name	Description
NumStatisticsPurged	Number of statistics purged

Pending Job Count

For this transaction the pending job count is the number of records that can be purged from the YFS_STATISTICS_DETAIL table.

Events Raised

None.

Tables Purged

YFS_STATISTICS_DETAIL

A.3.3.26 Work Order History Purge

This transaction deletes tasks previously archived by the Work Order Purge. See the [Section A.3.3.27, "Work Order Purge"](#) on page 505.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–188 Work Order History Purge Attributes

Attribute	Value
Base Transaction ID	WORK_ORDER_HISTORY_PURGE
Base Document Type	Work Order
Base Process Type	VAS
Abstract Transaction	No
APIs Called	None
User Exits Called	YFSBeforePurgeUE

Criteria Parameters

The following are the criteria parameters for this transaction:

Table A–189 Work Order History Purge Criteria Parameters

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
PurgeCode	Required. Cannot be modified. Used for internal calculations, such as determining retention days. Corresponds with the PurgeCode used in Business Rules Purge Criteria.
Live	Optional. Mode in which to run. Defaults to N. <ul style="list-style-type: none"> Y - Default value. Removes qualifying records from the history tables listed under Tables Purged. N- Test mode. Determines the rows that will be removed without actually removing them.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.
Node	Optional. Node for which the Work Order History Purge needs to be run. If not passed, then all nodes are monitored.
AgentCriteriaGroup	Optional. Used to classify nodes. This value can be accepted by WMS time-triggered transactions that will only perform their tasks on the nodes with a matching node transactional velocity value. Valid values are: LOW, HIGH, and any additional values defined by the Hub from Platform > System Administration > Agent Criteria Groups.

Statistics Tracked

The following statistics are tracked for this transaction:

Table A–190 Work Order History Purge Statistics

Statistic Name	Description
NumWorkOrderHistoriesPurged	Number of work order histories purged.

Pending Job Count

For this transaction the pending job count is the number of records that can be purged from the YFS_WORK_ORDER_H table.

Events Raised

None.

Tables Purged

YFS_WO_APPT_USER_H

YFS_WORK_ORDER_H

YFS_WORK_ORDER_APPT_H

YFS_WORK_ORDER_ACTIVITY_H

YFS_WORK_ORDER_ACTY_DTL_H

YFS_WORK_ORDER_AUDT_DTL_H

YFS_WORK_ORDER_COMPONENT_H

YFS_WORK_ORDER_COMP_TAG_H

YFS_WORK_ORDER_HOLD_TYPE_H

YFS_WORK_ORDER_HOLD_TYPE_LOG_H

YFS_WORK_ORDER_PROD_DEL_H

YFS_WORK_ORDER_SERVICE_LINE_H

YFS_WORK_ORDER_STS_AUDIT_H

YFS_WORK_ORDER_TAG_H

A.3.3.27 Work Order Purge

This time-triggered transaction purges all the work orders for a period greater than the retention days specified in the Work Order Purge criteria and those, which are either in the status of cancelled or completed.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–191 Work Order Purge Attributes

Attribute	Value
Base Transaction ID	WORK_ORDER_PURGE
Base Document Type	Work Order
Base Process Type	VAS
Abstract Transaction	No
APIs Called	None
User Exits Called	YFSBeforePurgeUE

Criteria Parameters

The following are the criteria parameters for this transaction:

Table A–192 Work Order Purge Criteria Parameters

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
PurgeCode	Required. Cannot be modified. Used for internal calculations, such as determining retention days. Corresponds with the PurgeCode used in Business Rules Purge Criteria.
Live	Optional. Mode in which to run. Defaults to Y. <ul style="list-style-type: none"> Y - Default value. Moves qualifying records from the regular tables listed under Tables Purged to the corresponding history tables. N - Test mode. Determines the rows that will be moved to history tables without actually moving them.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.

Table A–192 Work Order Purge Criteria Parameters

Parameter	Description
Node	Optional. Node for which the Work Order Purge needs to be run. If not passed, then all nodes are monitored.
AgentCriteriaGroup	Optional. Used to classify nodes. This value can be accepted by WMS time-triggered transactions that will only perform their tasks on the nodes with a matching node transactional velocity value. Valid values are: LOW, HIGH, and any additional values defined by the Hub from Platform > System Administration > Agent Criteria Groups.

Statistics Tracked

The following statistics are tracked for this transaction:

Table A–193 Work Order Purge Statistics

Statistic Name	Description
NumWorkOrdersPurged	Number of work orders purged.

Pending Job Count

For this transaction the pending job count is the number of records that can be purged from the YFS_WORK_ORDER table.

Events Raised

None.

Tables Purged

YFS_WO_APPT_USER

YFS_WORK_ORDER

YFS_WORK_ORDER_ACTIVITY

YFS_WORK_ORDER_ACTY_DTL

YFS_WORK_ORDER_HOLD_TYPE

YFS_WORK_ORDER_HOLD_TYPE_LOG
YFS_WORK_ORDER_APPT
YFS_WORK_ORDER_AUDT_DTL
YFS_WORK_ORDER_COMPONENT
YFS_WORK_ORDER_COMP_TAG
YFS_WORK_ORDER_PROD_DEL
YFS_WORK_ORDER_SERVICE_LINE
YFS_WORK_ORDER_STS_AUDIT
YFS_WORK_ORDER_TAG

A.4 Task Queue Syncher Time-Triggered Transactions

Many transactions use the task queue as their work repository. The workflow manager automatically creates tasks for transactions to handle the next processing step, as configured in your pipeline.

In some situations, the task queue repository may become out of date. For example, when reconfiguring the processing pipeline while the pipeline is active, the queue may go out of synch with the new pipeline configuration.

Alerts that indicate a halt in the lifecycle of a business document may indicate an out-dated task queue repository.

The task queue syncher transactions are designed to update the task queue repository with the latest list of open tasks to be performed by each transaction, based on the latest pipeline configuration.

The available task queue synchronizers are:

- [Load Execution Task Queue Syncher](#)
- [Order Delivery Task Queue Syncher](#)
- [Order Fulfillment Task Queue Syncher](#)
- [Order Negotiation Task Queue Syncher](#)

Note: Some of the statistics collected and tracked in Release 7.5 SP1 for time-triggered transactions, monitors, and integration and application servers may change with the next release of Yantra.

A.4.1 Load Execution Task Queue Syncher

This transaction synchronizes the task queue for the load execution process type.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–194 Load Execution Task Queue Syncher Attributes

Attribute	Value
Base Transaction ID	TASK_QUEUE_SYNCER_L_D
Base Document Type	Load
Base Process Type	Load Execution
Abstract Transaction	No
APIs Called	None

Criteria Parameters

The following are the criteria parameters for this transaction:

Table A–195 Load Execution Task Queue Syncher Criteria Parameters

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.

Statistics Tracked

The following statistics are tracked for this transaction:

Table A–196 Load Execution Task Queue Syncher Statistics

Statistic Name	Description
NumTasksCreated	Number of tasks created.

Pending Job Count

None.

Events Raised

None.

A.4.2 Order Delivery Task Queue Syncher

This transaction synchronizes the order delivery process type.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–197 Order Delivery Task Queue Syncher Attributes

Attribute	Value
Base Transaction ID	TASK_QUEUE_SYNCER_O_D
Base Document Type	Order
Base Process Type	Order Delivery
Abstract Transaction	No
APIs Called	None

Criteria Parameters

The following are the criteria parameters for this transaction:

Table A–198 Order Delivery Task Queue Syncher Criteria Parameters

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.

Statistics Tracked

The following statistics are tracked for this transaction:

Table A–199 Order Delivery Task Queue Syncher Statistics

Statistic Name	Description
NumTasksCreated	Number of tasks created.

Pending Job Count

None.

Events Raised

None.

A.4.3 Order Fulfillment Task Queue Syncher

This transaction synchronizes the order fulfillment process type.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–200 Order Fulfillment Task Queue Syncher Attributes

Attribute	Value
Base Transaction ID	TASK_QUEUE_SYNCER_O_F
Base Document Type	Order
Base Process Type	Order Fulfillment

Table A–200 Order Fulfillment Task Queue Syncher Attributes

Attribute	Value
Abstract Transaction	No
APIs Called	None

Criteria Parameters

The following are the criteria parameters for this transaction:

Table A–201 Order Fulfillment Task Queue Syncher Criteria Parameters

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.

Statistics Tracked

The following statistics are tracked for this transaction:

Table A–202 Order Fulfillment Task Queue Syncher Statistics

Statistic Name	Description
NumTasksCreated	Number of tasks created.

Pending Job Count

None.

Events Raised

None.

A.4.4 Order Negotiation Task Queue Syncher

This transaction synchronizes the order negotiation process type.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–203 Order Negotiation Task Queue Syncher Attributes

Attribute	Value
Base Transaction ID	TASK_QUEUE_SYNCER_O_N
Base Document Type	Order
Base Process Type	Order Negotiation
Abstract Transaction	No
APIs Called	None

Criteria Parameters

The following are the criteria parameters for this transaction:

Table A–204 Order Negotiation Task Queue Syncher Criteria Parameters

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.

Statistics Tracked

The following statistics are tracked for this transaction:

Table A–205 Order Negotiation Task Queue Syncher Statistics

Statistic Name	Description
NumTasksCreated	Number of tasks created.

Pending Job Count

None.

Events Raised

None.

A.5 Monitors

Monitors are transactions that watch for processes or circumstances that are out of bounds and then raise alerts.

Note: Some of the statistics collected and tracked in Release 7.5 SP1 for time-triggered transactions, monitors, and integration and application servers may change with the next release of Yantra.

Note: All Monitors with the exception of Negotiation and Old Order have a `CollectPendingJobs` criteria parameter. If this parameter is set to `N`, the agent will not collect information on the pending jobs for that monitor. This pending job information is used for monitoring the monitor in the *Yantra 7x System Management Guide*.

By default, `CollectPendingJobs` is set to `Y`. It can be helpful to set it to `N` if one monitor is performing a significant amount of `getPendingJobs` queries, and the overhead cost is too high.

A.5.1 Availability Monitor

This time-triggered transaction monitors inventory availability. The Availability Monitor raises global alerts when the available inventory falls below the configured quantities on the current day, on subsequent days within the ATP time frame, and on subsequent days outside of the ATP time frame. The quantities for the days outside of the ATP time frame are determined by the maximum monitoring days. Unlike the schedule and release transactions, the Availability Monitor calculates the actual availability beyond the ATP horizon and does not assume infinite inventory.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–206 Availability Monitor Attributes

Attribute	Value
Base Transaction ID	ATP_MONITOR
Base Document Type	General
Base Process Type	General
Abstract Transaction	No
APIs Called	None

Criteria Parameters

The following are the criteria parameters for this monitor:

Table A–207 Availability Monitor Criteria Parameters

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
MonitorOption	Optional. Specifies how to monitor inventory. Valid values are: <ul style="list-style-type: none"> • 1 - current inventory • 0 - inventory within and outside of the ATP time frame. This is the default value.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.
InventoryOrganizationCode	Optional. Valid owner inventory organization. Organization to process in this run. If not passed, all inventory organizations are processed.

Statistics Tracked

None.

Pending Job Count

None.

Events Raised

No events are raised. Individual actions associated with the monitoring rule are executed.

Data published to the actions is `AVAILABILITY_MONITOR_dbd.txt`.

A.5.2 Exception Monitor

This time-triggered transaction monitors exceptions in your system as noted below. It monitors the exceptions logged in the system and escalates these exceptions:

- If an exception has not been assigned to a user by a certain time
- If an exception has not been resolved by a certain time
- If the active size of the queue is more than a certain maximum size

In order to prevent re-alerts on exceptions during every run of the Exception Monitor, specify a re-alert interval through Alert Management in the Yantra 7x Configurator. This attribute is associated with a queue and can be configured for each queue.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–208 Exception Monitor Attributes

Attribute	Value
Base Transaction ID	EXCEPTION_MONITOR
Base Document Type	General
Base Process Type	General
Abstract Transaction	No
APIs Called	None

Criteria Parameters

The following are the criteria parameters for this monitor:

Table A–209 Exception Monitor Criteria Parameters

Parameter	Description
Action	Required. Triggers the transaction.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.
QueueID	Optional. Defines the Alert Queue into which exceptions from this monitor are stored.
OrganizationCode	Optional. Organization to process in this run. If not passed, all inventory organizations are processed.

Statistics Tracked

The following statistics are tracked for this transaction:

Table A–210 Exception Monitor Statistics

Statistic Name	Description
NumInboxProcessed	Number of alerts processed.
NumExceededQueueSizeAlerts	Number of actions raised when the number of unresolved alerts exceeds the queue's maximum active size.
NumUnResolvedAlerts	Number of actions raised when the unresolved alert time of an alert exceeds the queue's resolution time.
NumUnAssignedAlerts	Number of actions raised when the unassigned alert time of an alert exceeds the queue's assignment time.

Pending Job Count

None.

Events Raised

No events are raised. Individual actions associated with the monitoring rule are executed.

A.5.3 Inventory Monitor

This time-triggered transaction monitors inventory availability at ship node level. It raises alerts at the ship node level when the available inventory exceeds or drops below the configured quantities.

This monitor uses the OPEN_ORDER demand type to calculate available inventory at a given node. All supplies assigned to a supply type that is considered by the OPEN_ORDER demand type are considered. For more information about configuring inventory supply and demand considerations, refer to the *Yantra 7x Inventory Synchronization Configuration Guide*.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–211 Inventory Monitor Attributes

Attribute	Value
Base Transaction ID	INVENTORY_MONITOR
Base Document Type	General
Base Process Type	General
Abstract Transaction	No
APIs Called	checkAvailability()

Criteria Parameters

The following are the criteria parameters for this monitor:

Table A–212 Inventory Monitor Criteria Parameters

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.

Table A–212 Inventory Monitor Criteria Parameters

Parameter	Description
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.
InventoryOrganizationCode	Optional. Valid inventory owner organization. Organization to process in this run. If not passed, all inventory organizations are processed.

Statistics Tracked

None.

Pending Job Count

None.

Events Raised

No events are raised. Individual actions associated with the monitoring rule are executed.

Data published to the actions is `<YFS_HOME>/documentation/api_javadocs/dbd/INVENTORY_MONITOR_dbd.txt`.

A.5.4 Negotiation Monitor

This time-triggered transaction alerts the Enterprise when a negotiation remains in a particular status for a specific amount of time. This also monitors the negotiation expiration date. This time-triggered transaction invokes the actions configured against the negotiation statuses.

Configure status Expired (2000) to monitor negotiation expiration date.

Use this monitor in environments where Order or order release has to go through a negotiation phase and you want to monitor the negotiation.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–213 *Negotiation Monitor Attributes*

Attribute	Value
Base Transaction ID	ORD_NEGOTIATION_MONITOR
Base Document Type	Order
Base Process Type	Order Negotiation
Abstract Transaction	No
APIs Called	None

Criteria Parameters

The following are the criteria parameters for this monitor:

Table A–214 *Negotiation Monitor Criteria Parameters*

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.
EnterpriseCode	Optional. Enterprise for which the Negotiation Monitor needs to be run. If not passed, then all enterprises are monitored.
Status	The negotiation status you are monitoring.

Statistics Tracked

The following statistics are tracked for this transaction:

Table A–215 *Negotiation Monitor Statistics*

Statistic Name	Description
NumNegotiationsProcessed	Number of negotiations processed.
NumNegotiationsRequiringAlert	Number of negotiations which have at least one alert raised.

Pending Job Count

None.

Events Raised

This invokes the actions configured against the negotiation statuses.

Key Data - Not Applicable.

Data Published - YCP_getNegotiationDetails_output.xml

A.5.5 Order Monitor

This time-triggered transaction alerts the enterprise when an order remains in a particular status for a specific amount of time.

Use this monitor if you care to track how long orders stay in a particular state.

This transaction is deprecated for this release.

Note: The same relog interval is used for all document types.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–216 *Order Monitor Attributes*

Attribute	Value
Base Transaction ID	ORDER_MONITOR
Base Document Type	Order
Base Process Type	Order Fulfillment
Abstract Transaction	No
APIs Called	None

Criteria Parameters

The following are the criteria parameters for this monitor:

Table A–217 Order Monitor Criteria Parameters

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.
EnterpriseCode	Optional. Enterprise for which the Order Monitor needs to be run. If not passed, then all enterprises are monitored.
Status	Optional. The order status you want to monitor (if not monitoring a status range).
LeastAge1	This field is not used in this version.
FromStatus	Optional. Statuses to monitor that are greater than or equal to the passed status (if not monitoring a specific status).
ToStatus	Optional. Statuses to monitor that are less than or equal to the passed status (if not monitoring a specific status).

Statistics Tracked

The following statistics are tracked for this transaction:

Table A–218 Order Monitor Statistics

Statistic Name	Description
NumOrdersProcessed	Number of orders processed.
NumOrdersRequiringAlert	Number of orders which have at least one alert raised.

Pending Job Count

None.

Events Raised

No events are raised. Individual actions associated with the monitoring rule are executed.

Data published to the actions is `ORDER_MONITOR_dbd.txt`.

A.5.6 Enhanced Order Monitor

The enhanced order monitor allows you to monitor the following situations:

- Milestone x has not been reached y hours before a given date type.
- Milestone x has not been reached within y hours of a given date type.
- Milestone x has not been reached within y hours of milestone z.
- Milestone x has been reached y hours before a given date type.
- Milestone x has been reached within y hours of a given date type.
- Milestone x has been reached within y hours after milestone z.
- The order has been in status x for y hours.
- Date type x is y hours before date type z.
- Date type x is y hours after date type z.

The order monitor can be configured to monitor the following system date types for Sales Order and Purchase Order document types:

- Actual Order Date - Read from the `ORDER_DATE` column of the `YFS_ORDER_HEADER` table
- Requested Ship Date - If there is an order release, read from the `REQ_SHIP_DATE` column of the `YFS_ORDER_RELEASE` table. Otherwise, read from the `REQ_SHIP_DATE` of the `YFS_ORDER_LINE` table.
- Expected Ship Date - Read from the `EXPECTED_SHIPMENT_DATE` column of the `YFS_ORDER_LINE_SCHEDULE` table. If it is null, uses the same logic as Requested Ship Date.
- Actual Ship Date - If the date is before 01/01/2500, read from the `EXPECTED_SHIPMENT_DATE` column of the `YFS_ORDER_LINE_SCHEDULE` table. If the date is on or after 01/01/2500, this date type is returned as null.
- Requested Delivery Date - If there is a release, read from the `REQ_DELIVERY_DATE` column of the `YFS_ORDER_RELEASE` table. Otherwise, read from the `REQ_DELIVERY_DATE` of the `YFS_ORDER_LINE` table.

- Expected Delivery Date - Read from the EXPECTED_DELIVERY_DATE column of the YFS_ORDER_LINE_SCHEDULE table. If it is null, uses the same logic as Requested Delivery Date.
- Actual Delivery Date - If the date is before 01/01/2500, read from the EXPECTED_DELIVERY_DATE column of the YFS_ORDER_LINE_SCHEDULE table. If the date is on or after 01/01/2500, this date type is returned as null.

Note: For Order Fulfillment, Planned Order Execution, Reverse Logistics, and Purchase Order Execution pipelines, the system defined dates such as Shipment and Delivery are stored without a time component. Therefore when you configure a rule using these dates, all time computations are carried out assuming they are always 12:00:00 AM.

For more information about milestones, date types, and monitoring rules, refer to the appropriate section in this guide, *Yantra 7x Supply Collaboration Configuration Guide*, and/or *Yantra 7x Reverse Logistics Configuration Guide*.

Important: If you run the Enhanced Order Monitor, you must configure and run the Close Order time-triggered transaction in all applicable pipelines. For more details on the Close Order time-triggered transaction, see [Section A.2.6, "Close Order"](#) on page 385.

Note: The same relog interval is used for all document types.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–219 Enhanced Order Monitor Attributes

Attribute	Value
Base Transaction ID	ORDER_MONITOR_EX
Base Document Type	Order
Base Process Type	Order Fulfillment
Abstract Transaction	No
APIs Called	None

Criteria Parameters

The following are the criteria parameters for this monitor:

Table A–220 Enhanced Order Monitor Criteria Parameters

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.
EnterpriseCode	Optional. Enterprise for which the Order Monitor needs to be run. If not passed, then all enterprises are monitored.
FromStatus	Optional. Statuses to monitor that are greater than or equal to the passed status.
ToStatus	Optional. Statuses to monitor that are less than or equal to the passed status.

Statistics Tracked

The following statistics are tracked for this monitor:

Table A–221 Enhanced Order Monitor Statistics

Statistic Name	Description
NumOrdersProcessed	Number of orders processed.
NumAlertsRaised	Number of alerts raised.

Pending Job Count

For this transaction the pending job count is the number of open orders with the value of NEXT_ALERT_TS less than or equal to (<=) the current date.

Events Raised

Table A–222 Events Raised by the Enhanced Order Monitor Transaction

Transaction/Event	Key Data	Data Published*	Template Support?
ON_AUTO_CANCEL	ORDER_MONITOR_dbd.txt	YFS_ORDER_MONITOR_EX.ON_AUTO_CANCEL.html	Yes
* These files are located in the following directory: <YFS_HOME>/documentation/api_javadocs/XSD/HTML			

Note: The Enhance Order Monitor transaction raises the ON_AUTO_CANCEL event, but does not cancel the order. A service on this event should be configured to cancel the order.

A.5.7 Enhanced Return Monitor

The enhanced return monitor allows you to monitor the following situations:

- Milestone x has not been reached y hours before a given date type.
- Milestone x has not been reached within y hours of a given date type.
- Milestone x has not been reached within y hours of milestone z.
- Milestone x has been reached y hours before a given date type.
- Milestone x has been reached within y hours of a given date type.
- Milestone x has been reached within y hours after milestone z.
- The order has been in status x for y hours.
- Date type x is y hours before date type z.

- Date type x is y hours after date type z.

The enhanced return monitor can be configured to monitor the following system date types:

- Actual Order Date - Read from the ORDER_DATE column of the YFS_ORDER_HEADER table
- Requested Ship Date - If there is an order release, read from the REQ_SHIP_DATE column of the YFS_ORDER_RELEASE table. Otherwise, read from the REQ_SHIP_DATE of the YFS_ORDER_LINE table.
- Expected Ship Date - Read from the EXPECTED_SHIPMENT_DATE column of the YFS_ORDER_LINE_SCHEDULE table. If it is null, uses the same logic as Requested Ship Date.
- Actual Ship Date - If the date is before 01/01/2500, read from the EXPECTED_SHIPMENT_DATE column of the YFS_ORDER_LINE_SCHEDULE table. If the date is on or after 01/01/2500, this date type is returned as null.
- Requested Delivery Date - If there is a release, read from the REQ_DELIVERY_DATE column of the YFS_ORDER_RELEASE table. Otherwise, read from the REQ_DELIVERY_DATE of the YFS_ORDER_LINE table.
- Expected Delivery Date - Read from the EXPECTED_DELIVERY_DATE column of the YFS_ORDER_LINE_SCHEDULE table. If it is null, uses the same logic as Requested Delivery Date.
- Actual Delivery Date - If the date is before 01/01/2500, read from the EXPECTED_DELIVERY_DATE column of the YFS_ORDER_LINE_SCHEDULE table. If the date is on or after 01/01/2500, this date type is returned as null.

Note: For Order Fulfillment, Planned Order Execution, Reverse Logistics, and Purchase Order Execution pipelines, the system defined dates such as Shipment and Delivery are stored without a time component. Therefore when you configure a rule using these dates, all time computations are carried out assuming they are always 12:00:00 AM.

For more information about milestones, date types, and monitoring rules, refer to the appropriate section in this guide, *Yantra 7x Supply Collaboration Configuration Guide*, and/or *Yantra 7x Reverse Logistics Configuration Guide*.

Important: If you run the Enhanced Return Monitor, you must configure and run the Close Order time-triggered transaction in all applicable pipelines. For more details on the Close Order time-triggered transaction, see [Section A.2.6, "Close Order"](#) on page 385.

Note: The same relog interval is used for all document types.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–223 Enhanced Order Monitor Attributes

Attribute	Value
Base Transaction ID	RETURN_MONITOR_EX
Base Document Type	Return Order
Base Process Type	Reverse Logistics
Abstract Transaction	No
APIs Called	None

Criteria Parameters

The following are the criteria parameters for this monitor:

Table A–224 Enhanced Order Monitor Criteria Parameters

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.
EnterpriseCode	Optional. Enterprise for which the Order Monitor needs to be run. If not passed, then all enterprises are monitored.
FromStatus	Optional. Statuses to monitor that are greater than or equal to the passed status.
ToStatus	Optional. Statuses to monitor that are less than or equal to the passed status.

Statistics Tracked

The following statistics are tracked for this monitor:

Table A–225 Enhanced Order Monitor Statistics

Statistic Name	Description
NumOrdersProcessed	Number of orders processed.
NumAlertsRaised	Number of alerts raised.

Pending Job Count

For this transaction the pending job count is the number of open orders with the value of NEXT_ALERT_TS less than or equal to (\leq) the current date.

Events Raised

No events are raised. Individual actions associated with the monitoring rule are executed.

The data published is RETURN_MONITOR_EX.xml.

A.5.8 Real-time Availability Monitor

The Real-time Availability Monitor time-triggered transaction monitors the inventory availability of inventory items. It can be configured to raise the `REALTIME_AVAILABILITY_CHANGE` event when the inventory level for a given item changes in between thresholds defined in the Yantra 7x Configurator, in the Inventory Synchronization module.

It can be run in three modes:

- Activity Based: Raises the event in real time every time an item goes above or below one of the thresholds.
- Quick Sync: Re-sends the most recently published inventory availability information.
- Full Sync: Monitors all of the items regardless of activity and publishes the inventory information for all of the items.

In all cases, the percentage of future inventory availability will be used for considering inventory availability at retrieval time. For more information on future inventory availability, refer to the *Yantra 7x Inventory Synchronization Configuration Guide*.

Inventory available at the current date will be considered as on-hand. The processing time in the ATP rules must be set to at least 1 day, else past due supply will be included as part of on-hand inventory. For more information on configuring ATP Rules, refer to the *Yantra 7x Inventory Synchronization Configuration Guide*.

Demand of type `OPEN_ORDER` will be used in getting the inventory availability picture.

If sourcing is maintained, the Real-time Availability Monitor can either monitor the total availability across nodes or the availability at individual nodes.

When monitoring the total availability across nodes, the Real-time Availability Monitor monitors all nodes in the default distribution group of the inventory organization.

When monitoring the availability at individual nodes, the Real-time Availability Monitor monitors all nodes in a specified distribution group. For more information on configuring distribution groups and node-level inventory monitoring, refer to the *Yantra 7x Inventory Synchronization Configuration Guide*.

Inventory items without an Availability Monitor rule, or with a rule that is disabled, will not be processed by this time-triggered transaction.

If configured, the Real-time Availability Monitor will also consider the on hand and future inventory availability safety factor during monitoring. For more information on inventory availability safety factors and the `findInventory()` API, refer to the *Yantra 7x Inventory Synchronization Configuration Guide*, and the *Yantra 7x Javadocs*.

When the on hand quantity is greater than the configured low threshold, the `REALTIME_ONHAND` alert type is raised, and the alert level is based on the on hand quantity.

When the on hand quantity falls below the configured low threshold, the `REALTIME_FUTURE_MAX` alert type is raised, and the alert level is based on the total future supply (`FutureAvailableQuantity`) with `FirstFutureAvailabeDate` set to the date on which the first future supply is available, and `FutureAvailableDate` set to the date on which the maximum future supply is available.

Note: When the Real-time Availability Monitor is run in activity based mode, changing one of the thresholds of an inventory item will not cause the agent to monitor it unless there is a change in activity. For example, if item I with available quantity 700 is being monitored with a low threshold of 600, and the low threshold is then changed to 1000, no event will be published unless there is change in I's activity. In order to ensure that in such a scenario I is not left unmonitored, call the `createInventoryActivity` API when changing a monitoring rule for an item.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–226 Real-time Availability Monitor Attributes

Attribute	Value
Base Transaction ID	REALTIME_ATP_MONITOR
Base Document Type	General
Base Process Type	General

Table A–226 Real-time Availability Monitor Attributes

Attribute	Value
Abstract Transaction	No
APIs Called	FindInventory

Criteria Parameters

The following are the criteria parameters for this monitor:

Table A–227 Real-time Availability Monitor Criteria Parameters

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.
InventoryOrganizationCode	Inventory organization code to use when MonitorOption is passed as 3. The inventory organization has to be an enterprise. If this is not passed, the monitor runs for all inventory organizations.
MonitorOption	1 - Activity Based (Monitor based on distinct inventory items in YFS_INVENTORY_ACTIVITY table). 2 – Quick Sync (Re-raise event to publish information in the YFS_INVENTORY_ALERT table). 3 – Full Sync (Monitor based on all inventory items maintained by the inventory organization provided. If no InventoryOrganizationCode is provided, all inventory item will be monitored). If not provided default value is 1.

Table A–227 Real-time Availability Monitor Criteria Parameters

Parameter	Description
ItemStatuses	List of valid statuses of items to be processed. Statuses must be separated by a , for example 3000,2000. This will only be used when MonitorOption is passed as 2 or 3. If provided, only items with the matching statuses will be monitored.
FromAlertTimestamp	<p>This will only be used when MonitorOption is passed as 2. If provided, the agent will raise the REALTIME_AVAILABILITY_CHANGE event to re-publish inventory availability information which was published between the time that the agent started and FromAlertTimestamp.</p> <p>If not provided, all inventory availability information published before the time that the agent started will be re-published.</p>
AllowedOverriddenCriteria	<p>If set to Y, the overridden value for the agent criteria parameters can be provided at the command line while triggering the agent in the following format:</p> <pre><AgentCriteriaAttribute> <OverriddenValue></pre> <p>For more information on passing these attributes see scheduling time-triggered transaction in <i>Yantra 7x Installation Guide</i>.</p>
FromLastNumberOfHours	<p>This will only be used when MonitorOption is passed as 2 to calculate the FromAlertTimestamp parameter, if necessary.</p> <p>If the FromAlertTimestamp parameter is not provided, it is calculated as current timestamp minus FromLastNumberOfHours.</p>

Statistics Tracked

None.

Pending Job Count

None.

Events Raised

The following events are raised by this time-triggered transaction:

Table A–228 Events Raised by the Realtime Availability Monitor Transaction

Transaction/Event	Key Data	Data Published*	Template Support?
REALTIME_AVAILABILITY_CHANGE	None	YFS_REALTIME_ATP_MONITOR.REALTIME_AVAILABILITY_CHANGE.html	Yes
* These files are located in the following directory: <YFS_HOME>/documentation/api_javadocs/XSD/HTML			

Note: Although described as 'real-time', availability changes may not be triggered immediately as inventory changes occur if the agent has a backlog of messages to process. Furthermore, this monitor exists as a time-triggered transaction, and thus monitors availability of inventory items only when the monitor is triggered based on the configured runtime properties.

A.5.9 Shipment Monitor

This time-triggered transaction reports on the states of a shipment, based on rules in the YFS_MONITOR_RULE table. This transaction allows you to monitor the following situations:

- If the Shipment has been in a status for more than a specified amount of time
- If a specified date that is associated with the shipment is:

- n hours before another specified date
- n hours after another specified date
- n hours not before another specified date
- n hours not after another specified date

Monitoring rules can be configured for shipment's origin and destination points.

Monitoring rules cannot be configured for a shipment's intermediate pickup and drop off points. A shipment has intermediate pickup or drop off only if it has multiple pickup or drop off points. For example, a shipment has more than one loads carrying it. The shipment status on first load deposit, second load deposit, and so forth cannot be monitored. Once the last load deposits the shipment at its destination, then the shipment status can be marked and monitored.

This is not a pipeline transaction. It also does not work from the task queue.

For more information about milestones, date types, and monitoring rules, see the appropriate section in this guide, *Yantra 7x Supply Collaboration Configuration Guide*, and/or *Yantra 7x Reverse Logistics Configuration Guide*.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–229 Shipment Monitor Attributes

Attribute	Value
Base Transaction ID	SHIPMENT_MONITOR
Base Document Type	Order
Base Process Type	Order Delivery
Abstract Transaction	No
APIs Called	None

Criteria Parameters

The following are the criteria parameters for this monitor:

Table A–230 Shipment Monitor Criteria Parameters

Parameter	Description
Action	Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.
EnterpriseCode	Optional. Enterprise for which the Shipment Monitor needs to be run. If not passed, then all enterprises are monitored.

Statistics Tracked

The following statistics are tracked for this transaction:

Table A–231 Shipment Monitor Statistics

Statistic Name	Description
NumShipmentsMonitored	Number of shipments monitored.

Pending Job Count

For this transaction the pending job count is the number of open shipments with the value of NEXT_ALERT_TS less than or equal to (\leq) the current date.

Events Raised

This invokes the actions configured against shipment statuses.

Key Data - Not Applicable.

Data Published - SHIPMENT_MONITOR.xml

A.5.10 Work Order Monitor

This time-triggered transaction alerts the enterprise when a work order remains in a particular state for a specific amount of time.

Use this monitor if you care to track how long work orders stay in a particular state.

Attributes

The following are the attributes for this time-triggered transaction:

Table A–232 Work Order Monitor Attributes

Attribute	Value
Base Transaction ID	WORK_ORDER_MONITOR
Base Document Type	Work Order
Base Process Type	VAS Process
Abstract Transaction	No

Criteria Parameters

The following are the criteria parameters for this monitor:

Table A–233 Work Order Monitor Criteria Parameters

Parameter	Description
Action	Required. Triggers the transaction. If left blank it defaults to get the only valid value.
Number of Records To Buffer	Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero) it defaults to 5000.
EnterpriseCode	Optional. Enterprise for which the Work Order Monitor needs to be run. If not passed then all enterprises are monitored.
Node	Optional. Node for which the Work Order Monitor needs to be run. If not passed then all nodes are monitored.

Statistics Tracked

The following statistics are tracked for this transaction:

Table A–234 Work Order Monitor Statistics

Statistic Name	Description
NumWorkOrdersMonitored	Number of work orders monitored.

Pending Job Count

For this transaction the pending job count is the number of Work Orders that are monitored, where NEXT_ALERT_TS less than or equal to (\leq) current date.

Events Raised

No events are raised. Individual actions associated with the monitoring rule are executed. Data published to the actions is workOrder_dbd.txt.

B

Order Modification Types

The following are the default order modification types and their associated modification levels:

Table B–1 Order Document Modification Types

Modification Types	Description	Modification Levels
Add Instruction	An instruction can be added to an order document's header, line, or shipment. For example, you may want to add an instruction stating that a line item needs to be gift wrapped.	Header Line Shipment Receipt
Add Line	A line can be added to an order document's header, release, negotiation, or shipment.	Header Release Negotiation Shipment
Add Note	A note can be added to an order document's header or release.	Header Release
Add Option	An option can be added to a provided service or delivery service order line.	Line

Table B–1 Order Document Modification Types

Modification Types	Description	Modification Levels
Add Quantity	Additional quantity can be added to an order document's line or release line.	Line Release Line
Add/Remove Additional Date	A date type used for shipment monitoring (such as, Ship Date) can either be added to or removed from an order document's shipment. For example, you may want to add an additional delivery date used by your organization to monitor shipments.	Shipment
Add/Remove Charge	A charge can either be added to or removed from an order document's shipment. For example, if a shipment contains hazardous materials and your organization has an extra shipping charge for shipment of hazardous materials, you can add an extra charge to the shipment.	Shipment
Add/Remove Container	A container can either be added to or removed from an order document's shipment.	Shipment

Table B–1 Order Document Modification Types

Modification Types	Description	Modification Levels
Associate Delivery Line With Product Line	When the delivery method of a product order line is delivery, the product line can be associated to a delivery line to indicate how the product line will be delivered.	Line
Associate Product Line With Delivery Line	When the delivery method of a product order line is delivery, the product line can be associated to a delivery line to indicate how the product line will be delivered.	Line
Associate Product Line With Service Line	A provided service can be associated to a product line to indicate that the service is somehow dependent on the product line.	Line
Associate Service Line With Product Line	A provided service can be associated to a product line to indicate that the service is somehow dependent on the product line.	Line
Attribute Modification	A receipts attributes can be modified. For a list of attributes that can be modified, see the <i>Yantra 7x Javadocs</i> for the <code>changeReceipt</code> API.	Receipt

Table B–1 Order Document Modification Types

Modification Types	Description	Modification Levels
Backorder	An order document's line, release, or release line can be backordered. For example, if an order is released to a node and the node does not have enough quantity to fulfill the order, they can backorder the release.	Line Release Release Line
Cancel	An order document's header, line, release, or release line can be manually cancelled from the Application Consoles.	Header Line Release Release Line
Change Additional Address	A modification can be made to the fields of any additional addresses that may have been configured for an order document's header or line.	Header Line
Change Appointment	Appointments can be taken and changed for delivery and provided service order lines.	Line
Change Bill To	A modification can be made to any bill to address field associated with an order document's header or release.	Header Release

Table B–1 Order Document Modification Types

Modification Types	Description	Modification Levels
Change Buyer Organization	The buyer organization associated with an order document's header can be changed. This modification can only be made in the Order Detail screen.	Header
Change Carrier	<p>A modification can be made to the Carrier/Service or Carrier field associated with an order document's header, line, or release.</p> <p>For example, you can change the carrier and service from UPS Next Day Air to FedEx Express Saver Pack.</p> <p>Important: If you want this modification type to be allowed, Change Carrier Service Code must also be allowed.</p>	Header Line Release
Change Carrier Account No	A modification can be made to the Carrier Account # field associated with an order document's header, line, or release.	Header Line Release

Table B–1 Order Document Modification Types

Modification Types	Description	Modification Levels
Change Carrier Service Code	<p>A modification can be made to the Carrier/Service field associated with an order document's header, line, or release.</p> <p>For example, you can change the carrier and service from UPS Next Day Air to FedEx Express Saver Pack.</p> <p>Important: If you want this modification type to be allowed, Change Carrier must also be allowed.</p>	Header Line Release
Change Contact Info	A modification can be made the fields for the Buyer/Seller contact information associated with an order document's header.	Header
Change Cost	A adjustment can be made to the Unit Cost field associated with an order document's release or release line.	Release Release Line
Change Currency	The currency associated with an order document's header can be changed. Upon a change to the currency, Yantra 7x will automatically re-price the order. However, pre-existing charges and taxes will have to be converted manually.	Header

Table B–1 Order Document Modification Types

Modification Types	Description	Modification Levels
Change Custom Date	<p>A modification can be made to the date type fields used for order monitoring associated with an order document's header, line, or release.</p> <p>The following custom date fields can be modified when this modification type is allowed:</p> <ul style="list-style-type: none">• Requested• Expected• Actual <p>For example, if there is a delay in a release's processing, you can change the expected delivery date.</p>	Header Line Release
Change Delivery Code	<p>A modification can be made to the Delivery Code field associated with an order document's header, line, or release.</p> <p>For example, if you want to indicate that an order's freight charges are paid by the Enterprise, you can choose the ENTERPRISE delivery code.</p>	Header Line Release

Table B–1 Order Document Modification Types

Modification Types	Description	Modification Levels
Change Delivery Method	A product order line indicates how the product will be sent to its final destination. It can be changed to SHIP, DELIVER, or PICKUP.	Line
Change Expiration Date	A modification can be made to the expiration date associated with an order document's negotiation.	Negotiation
Change Freight Terms	<p>A modification can be made to the Freight Terms field associated with an order document's header, line, or release.</p> <p>For example, you can change an order line's freight term from CIF (Cost Insurance and Freight) to CFR (Cost and Freight).</p>	Header Line Release
Change Instruction	<p>A modification can be made to an instruction associated with an order document's header, line, or shipment.</p> <p>The following instruction fields can be modified when this modification type is allowed:</p> <ul style="list-style-type: none">• Instruction Type• Text• URL	Header Line Shipment Receipt

Table B–1 Order Document Modification Types

Modification Types	Description	Modification Levels
Change Item Description	A modification can be made to the Description field of an item associated with an order document's line.	Line
Change Mark For	A modification can be made to the fields of the mark for address associated with an order document's header, line, or release.	Header Line Release
Change Order Name	A modification can be made to the Order Name field associated with an order document's header.	Header
Change Other Attributes	A modification can be made to fields that do not have system or user-defined modification types associated with them.	Header Line Release Negotiation Negotiation Line Shipment
Change Other Relationships	Not used in this version.	Shipment
Change Payment Method	<p>A modification can be made to the Payment Type field associated with an order document's header or release.</p> <p>For example, you can change an order's payment type from Check to Credit Card.</p>	Header Release

Table B–1 Order Document Modification Types

Modification Types	Description	Modification Levels
Change Payment Rule ID	<p>The Payment Rule field associated with an order document's header can be changed.</p> <p>For example, you can change the payment rule from the default rule to a custom rule that pertains to the order.</p>	Header
Change Payment Status	<p>The Payment Status field associated with an order document's header can be changed.</p> <p>For example, you can change an order's payment status from Await Authorization to Authorized.</p>	Header
Change Price	<p>Charges can be added to an order document's header or line.</p>	Header Line
Change Receiving Node	<p>The Receiving Node field associated with an order document's line can be changed.</p> <p>For example, if for some reason it has been determined that an order line's original receiving node cannot receive the line, you can change it to another receiving node.</p>	Line
Change References	<p>A modification can be made to the name/value pair in the YFS_REFERENCE_TABLE using APIs.</p>	Header Line

Table B–1 Order Document Modification Types

Modification Types	Description	Modification Levels
Change Requested Ship Date	<p>A modification can be made to the Requested Ship Date associated with an order document's header, line, or release.</p> <p>For example, if the customer decides they want an order to be shipped on a date later than what they originally requested, you can change the requested shipment date.</p>	Header Line Release
Change Schedule	<p>A modification can be made to schedule attributes, such as expected ship date, expected delivery date, and lot number, associated with an order document's header, line, release, or release line.</p>	Header Line Release Release Line
Change Schedule Rule ID	<p>A modification can be made to the schedule rule associated with an order document's header. This allows the user to select the scheduling rule they want to use for the order from the Scheduling Rule drop-down list on the Schedule Order popup window.</p>	Header

Table B–1 Order Document Modification Types

Modification Types	Description	Modification Levels
Change Ship Node	<p>The Ship Node field associated with an order document's header or line can be changed.</p> <p>For example, if for some reason it has been determined that an order line's original ship node cannot handle the order line, you can change it to another node.</p>	Header Line
Change Ship To	A modification can be made to the fields of a ship to address associated with an order document's header, line, or release.	Header Line Release
Change Status	<p>The order status (such as, Created) associated with an order document's header, line, release, release line, or negotiation can be changed.</p> <p>Note: Only order statuses existing in process type repositories are affected by this modification type. Actions performed against order documents, such as putting an order on hold or canceling an order, are not impacted.</p>	Header Line Release Release Line Negotiation

Table B–1 Order Document Modification Types

Modification Types	Description	Modification Levels
Change Tax	A modification can be made to the Tax Amount associated with an order document's header or line.	Header Line
Delete Shipment	An order document's shipment can be deleted.	Shipment
Hold	An order document's header or release can be manually put on hold. For example, you may want to perform a security check on a particular Buyer, you can then place the order on hold until you clear the necessary information before the order is scheduled.	Header Release
Include In Load	An order document's shipment can be included in a load document.	Shipment
Include Shipment in Delivery Plan	An order document's shipment can be included in a delivery plan.	Shipment
Pack Shipment	An order document's shipment can be packed.	Shipment
Price Program	The price program associated with an order document's header can be changed.	Header
Receipt Complete	An order document's receipt can be marked as complete.	Receipt

Table B–1 Order Document Modification Types

Modification Types	Description	Modification Levels
Release from Hold	An order document's header can be released from hold.	Header
Remove Delivery Line From Product Line Association	Delivery lines can be removed from product order lines.	Line
Remove Line	A line can be removed from an order document's header, line, and shipment.	Header Line Shipment
Remove Option	Options can be removed from delivery and provided services.	Line
Remove Product Line From Delivery Line Association	Product lines can be removed from delivery lines.	Line
Remove Product Line From Service Line Association	Product lines can be removed from provided service order lines.	Line
Remove Service Line From Product Line Association	Provided service lines can be removed from product order lines.	Line
Remove Shipment From Delivery Plan	An order document's shipment can be removed from a delivery plan.	Shipment
Short	An order document's header, line, release, release line, and receipt can be shorted. This occurs when there is a shortage in the expected quantity.	Header Line Release Release Line Receipt

Table B–1 Order Document Modification Types

Modification Types	Description	Modification Levels
Split Line	An order document's line or release line can be split into multiple lines.	Line Release Line
Unpack Shipment	An order document's shipment can be unpacked.	Shipment
Unreceive	An order document's receipt can be fully or partially unreceived. This moves the quantity you are identifying as unreceived back to Shipped status.	Receipt
Unschedule	An order document's header or line can be unscheduled from a scheduled node. This cancels any inventory that has been reserved for the order at the scheduled node.	Header Line

Condition Builder Attributes

Statements in the condition builder are built using attributes that are defined throughout the Yantra 7x Configurator. This appendix describes all of those attributes for each process type.

Click one of the links below to be taken to the appropriate condition builder attributes description.

Sales Order

- [Order Fulfillment](#)
- [Order Negotiation](#)
- [Outbound Shipment](#)

Planned Order

- [Planned Order Execution](#)
- [Planned Order Negotiation](#)

Return Order

- [Reverse Logistics](#)
- [Return Shipment](#)
- [Return Receipt](#)

Template Order

- [Template Order](#)

Purchase Order

- [Purchase Order Execution](#)

- Purchase Order Negotiation
- Inbound Shipment
- Purchase Order Receipt

Transfer Order

- Transfer Order Execution
- Transfer Order Delivery
- Transfer Order Receipt

Load

- Load Execution

General

- General
- WMS Putaway
- WMS Layout Definition
- WMS Inventory
- Trailer Loading
- Task Execution
- Move Request Execution
- Manifesting
- Over Pack Build

Count

- Count Execution

Container

- Pack Process

Wave

- Outbound Picking

Work Order

- [VAS Process](#)

C.1 Sales Order

C.1.1 Order Fulfillment

Table C–1 Order Fulfillment Condition Builder Attributes

Attribute	Description
Order Attributes	
Condition Variable 1	A variable that can be used for condition building. This is an existing field in the YFS_ORDER_LINE database table, and can be used to create conditions without extending the database.
Condition Variable 2	A variable that can be used for condition building. This is an existing field in the YFS_ORDER_LINE database table, and can be used to create conditions without extending the database.
Delivery Method	The delivery method of the order (shipment, pickup or delivery).
Disposition Code	The disposition code of the item. This field is only applicable for Reverse Logistics and Supply Collaboration.
Line Type	The type of the order line. Yantra 7x has no application logic associated with the order line type. This field can be set up as per your business practices.
Order Type	The type of the order. Yantra 7x has no application logic associated with the order type. This field can be set up as per your business practices.
Payment Status	The payment status of the order.
Sale Voided	The flag indicating whether the order is voided.
Transaction ID	The ID of the last transaction that was executed on the order.
Participant Attributes	
Bill To ID	The ID of the bill to address for the order.
Buyer Organization Code	The code of the organization that is buying the goods or services.

Table C–1 Order Fulfillment Condition Builder Attributes

Attribute	Description
Enterprise Code	The code of the enterprise on the order.
Receiving Node	The node that will be receiving the shipment for the order.
Seller Organization Code	The code of the organization that is selling the goods or services.
Ship Node	The node that will be shipping the shipment for the order.
Ship Node Interface Type	The interface type of the ship node on the order (External Application, Yantra 7x Application Consoles, Yantra Networked WMS, or Yantra WMS 6.2).
Ship To ID	The ID of the ship to address for the order.
Supplier Code	The code of the supplier for the order.
Item Attributes	
Item ID	The ID of the item on the order line.
Item Group Code	The group code of the service item. For example, if the service is a provided service item, then the item group code is PS.
Product Line	The product line of the item on the order line.
Sourcing Attributes	
Fulfillment Type	The fulfillment type of the order.
Intentional Backorder	The flag indicating whether the order was intentionally dropped into backordered status at order creation.
Is Firm Predefined Node	The flag indicating whether the node on the order is a firm predefined node.
Order Sourcing Classification	The order sourcing classification of the order.
Reservation Mandatory	The flag indicating whether the reservation is mandatory.
Related Order Attributes	
Chain Type	The chain type of the order.
Is Chained Line	The flag indicating whether the order line is chained with another order line.

Table C–1 Order Fulfillment Condition Builder Attributes

Attribute	Description
Is Derived Line	The flag indicating whether the order line is derived from another order line.
Order Purpose	The purpose of the order. If this is an exchange order, this field will be set to EXCHANGE.
{Enter Your Own Attribute}	<p>A customizable condition builder attribute. For more information on customizing this field, refer to the <i>Yantra 7x Customization Guide</i>.</p> <p>Note: This field is limited only to unexposed key attributes that are pre-defined by Yantra 7x as opposed to any XML attribute that you can enter.</p>

C.1.2 Order Negotiation

Table C–2 Order Negotiation Condition Builder Attributes

Attribute	Description
Enterprise Code	The code of the enterprise on the order.
Initiator Organization Code	The code of the organization that initiates the negotiation.
Negotiator Organization Code	The code of the organization that can accept, counter-offer, or reject the initiator's offer.
Negotiation Pipeline Key	The key of the negotiation pipeline this order is going through.
Negotiation Number	The negotiation number of this order.
Negotiation Rule Key	The key of the negotiation rule for this order.
Header Entity	The entity for which the negotiation was initiated. Currently, the only applicable entity is Order.
Negotiation Status	The status of the negotiation for this order.
Document Type	The document type for this order. Typical value is Sales Order.
Freight Terms	The freight terms for this order.

Table C–2 Order Negotiation Condition Builder Attributes

Attribute	Description
Payment Terms	The payment terms for this order.
{Enter Your Own Attribute}	<p>A customizable condition builder attribute. For more information on customizing this field, refer to the <i>Yantra 7x Customization Guide</i>.</p> <p>Note: This field is limited only to unexposed key attributes that are pre-defined by Yantra 7x as opposed to any XML attribute that you can enter.</p>

C.1.3 Outbound Shipment

Table C–3 Outbound Shipment Condition Builder Attributes

Attribute	Description
Enterprise Code	The code of the enterprise on the outbound shipment.
Buyer Organization Code	The code of the organization that is buying the goods or services.
Seller Organization Code	The code of the organization that is selling the goods or services.
Ship Node	The node that will be shipping this shipment.
Ship Node Interface Type	The interface type of the ship node on the order (External Application, Yantra 7x Application Consoles, Yantra Networked WMS, or Yantra WMS 6.2).
Receiving Node	The node that will be receiving this shipment.
Ship Mode	The shipment mode that will be used for the shipment. For example, Parcel, Truck Load, Less-Than Truck Load.
Freight Terms	The freight terms for this shipment.
Carrier Type	The shipment's carrier type for this shipment.
Hazardous Materials Flag	The flag indicating whether these materials are hazardous.
ESP Check Required	The flag indicating whether an Economic Shipping Parameters check is required at shipment consolidation time.
Is Appointment Required	The flag indicating whether an appointment is required for a service execution.

Table C–3 Outbound Shipment Condition Builder Attributes

Attribute	Description
Routing Guide Maintained	The flag indicating whether a routing guide is maintained for this shipment.
Carrier	The carrier for the shipment.
Real-time Integration with Yantra WMS	The flag indicating whether the node this shipment is shipping from is integrating with Yantra 7x WMS. Setting this field to N means that you are integrating with Yantra DCS, or any other warehouse management system.
Manually Entered	The flag indicating whether or not the shipment was entered through the Yantra 7x Application Consoles.
Delivery Code	The code of the entity that pays for the transportation costs.
Country	The country that the shipment is being shipped to.
Delivery Method	The delivery method of the shipment (shipment, pickup or delivery).
Is Serial Requested	The flag indicating whether the shipment has any line with a specific serial number passed. If that is the case, a different outbound shipment process can be selected in the pipeline.
Is Provided Service	The flag indicating whether the shipment has an associated provided service item.
{Enter Your Own Attribute}	<p>A customizable condition builder attribute. For more information on customizing this field, refer to the <i>Yantra 7x Customization Guide</i>.</p> <p>Note: This field is limited only to unexposed key attributes that are pre-defined by Yantra 7x as opposed to any XML attribute that you can enter.</p>

C.2 Planned Order

C.2.1 Planned Order Execution

The Planned Order Execution condition builder attributes are identical to the [Order Fulfillment](#) attributes.

C.2.2 Planned Order Negotiation

The Planned Order Negotiation condition builder attributes are identical to the [Order Negotiation](#) attributes.

C.3 Return Order

C.3.1 Reverse Logistics

Table C–4 Return Fulfillment Condition Builder Attributes

Attribute	Description
Order Attributes	
Condition Variable 1	A variable that can be used for condition building. This is an existing field in the YFS_ORDER_LINE database table, and can be used to create conditions without extending the database.
Condition Variable 2	A variable that can be used for condition building. This is an existing field in the YFS_ORDER_LINE database table, and can be used to create conditions without extending the database.
Delivery Method	The delivery method of the return (shipment, pickup or delivery).
Disposition Code	The disposition code of the item.
Line Type	The type of the return line. Yantra 7x has no application logic associated with the return line type. This field can be set up as per your business practices.
Order Type	The type of the return. Yantra 7x has no application logic associated with the return type. This field can be set up as per your business practices.
Payment Status	The payment status of the return.
Sale Voided	The flag indicating whether the return is voided.
Transaction ID	The ID of the last transaction that was executed on the return.
Participant Attributes	
Bill To ID	The ID of the bill to address for the return.
Buyer Organization Code	The code of the organization that is buying the goods or services.

Table C–4 Return Fulfillment Condition Builder Attributes

Attribute	Description
Enterprise Code	The code of the enterprise on the return.
Receiving Node	The node that will be receiving the shipment for the return.
Seller Organization Code	The code of the organization that is selling the goods or services.
Ship Node	The node that will be shipping the shipment for the return.
Ship Node Interface Type	The interface type of the ship node on the return (External Application, Yantra 7x Application Consoles, Yantra Networked WMS, or YAntra WMS 6.2).
Ship To ID	The ID of the ship to address for the return.
Supplier Code	The code of the supplier for the return.
Item Attributes	
Item ID	The ID of the item on the return line.
Item Group Code	The group code of the service item. For example, if the service is a provided service item, then the item group code is PS.
Product Line	The product line of the item on the return line.
Sourcing Attributes	
Fulfillment Type	The fulfillment type of the return.
Intentional Backorder	The flag indicating whether the return was intentionally dropped into backordered status at return creation.
Is Firm Predefined Node	The flag indicating whether the node on the return is a firm predefined node.
Order Sourcing Classification	The order sourcing classification of the return.
Reservation Mandatory	The flag indicating whether the reservation is mandatory.
Related Order Attributes	
Chain Type	The chain type of the return.
Is Chained Line	The flag indicating whether the return line is chained with another return line.

Table C–4 Return Fulfillment Condition Builder Attributes

Attribute	Description
Is Derived Line	The flag indicating whether the return line is derived from another return line.
Order Purpose	This field is only applicable to sales orders.
{Enter Your Own Attribute}	<p>A customizable condition builder attribute. For more information on customizing this field, refer to the <i>Yantra 7x Customization Guide</i>.</p> <p>Note: This field is limited only to unexposed key attributes that are pre-defined by Yantra 7x as opposed to any XML attribute that you can enter.</p>

C.3.2 Return Shipment

The Return Shipment condition builder attributes are identical to the [Outbound Shipment](#) attributes.

C.3.3 Return Receipt

Table C–5 Return Receipt Condition Builder Attributes

Attribute	Description
Document Type	The document type on the receipt. Typical value is Return Order.
Enterprise Code	The code of the enterprise that owns the receipt.
Seller Organization Code	The code of the organization that is selling the goods or services.
Ship Node	The node where the shipment was shipped out of.
Buyer Organization Code	The code of the organization that is buying the goods or services.
Receiving Node	The node where the shipment was received.
Receiving Node Interface Type	The interface type of the receiving node on the order (External Application, Yantra 7x Application Consoles, Yantra Networked WMS, or Yantra WMS 6.2).
Ship Mode	The shipment mode that will be used for the shipment. For example, Parcel, Truck Load, Less-Than Truck Load.
Freight Terms	The freight terms on the receipt.

Table C–5 Return Receipt Condition Builder Attributes

Attribute	Description
Carrier Type	The carrier type on the receipt.
Is Hazardous Material	The flag indicating whether there are hazardous materials that are being received.
Is Inspection Pending	The flag indicating whether there is an inspection pending on this return.
Is Receiving Node Integrated Real Time	The flag indicating whether the receiving node is integrating with Yantra WMS, or with another WMS system.
{Enter Your Own Attribute}	<p>A customizable condition builder attribute. For more information on customizing this field, refer to the <i>Yantra 7x Customization Guide</i>.</p> <p>Note: This field is limited only to unexposed key attributes that are pre-defined by Yantra 7x as opposed to any XML attribute that you can enter.</p>

C.4 Template Order

The Template Order condition builder attributes are identical to the [Order Fulfillment](#) attributes.

C.5 Purchase Order

C.5.1 Purchase Order Execution

Table C–6 Purchase Order Execution Condition Builder Attributes

Attribute	Description
Order Attributes	
Condition Variable 1	A variable that can be used for condition building. This is an existing field in the YFS_ORDER_LINE database table, and can be used to create conditions without extending the database.
Condition Variable 2	A variable that can be used for condition building. This is an existing field in the YFS_ORDER_LINE database table, and can be used to create conditions without extending the database.

Table C–6 Purchase Order Execution Condition Builder Attributes

Attribute	Description
Delivery Method	The delivery method of the inbound order (shipment, pickup or delivery).
Disposition Code	The disposition code of the item.
Line Type	The type of the inbound order line. Yantra 7x has no application logic associated with the inbound order line type. This field can be set up as per your business practices.
Order Type	The type of the inbound order. Yantra 7x has no application logic associated with the inbound order type. This field can be set up as per your business practices.
Payment Status	The payment status of the inbound order.
Sale Voided	The flag indicating whether the inbound order is voided.
Transaction ID	The ID of the last transaction that was executed on the inbound order.
Participant Attributes	
Bill To ID	The ID of the bill to address for the inbound order.
Buyer Organization Code	The code of the organization that is buying the goods or services.
Enterprise Code	The code of the enterprise on the inbound order.
Receiving Node	The node that will be receiving the shipment for the inbound order.
Seller Organization Code	The code of the organization that is selling the goods or services.
Ship Node	The node that will be shipping the shipment for the inbound order.
Ship Node Interface Type	The interface type of the ship node on the inbound order (External Application, Yantra 7x Application Consoles, Yantra Networked WMS, or Yantra WMS 6.2).
Ship To ID	The ID of the ship to address for the inbound order.
Supplier Code	The code of the supplier for the inbound order.
Item Attributes	

Table C–6 Purchase Order Execution Condition Builder Attributes

Attribute	Description
Item ID	The ID of the item on the inbound order line.
Item Group Code	The group code of the service item. For example, if the service is a provided service item, then the item group code is PS.
Product Line	The product line of the item on the inbound order line.
Sourcing Attributes	
Fulfillment Type	The fulfillment type of the inbound order.
Intentional Backorder	The flag indicating whether the inbound order was intentionally dropped into backordered status at inbound order creation.
Is Firm Predefined Node	The flag indicating whether the node on the inbound order is a firm predefined node.
Order Sourcing Classification	The order sourcing classification of the inbound order.
Reservation Mandatory	The flag indicating whether the reservation is mandatory.
Related Order Attributes	
Chain Type	The chain type of the inbound order.
Is Chained Line	The flag indicating whether the inbound order line is chained with another inbound order line.
Is Derived Line	The flag indicating whether the inbound order line is derived from another inbound order line.
Order Purpose	This field is only applicable to sales orders.
{Enter Your Own Attribute}	<p>A customizable condition builder attribute. For more information on customizing this field, refer to the <i>Yantra 7x Customization Guide</i>.</p> <p>Note: This field is limited only to unexposed key attributes that are pre-defined by Yantra 7x as opposed to any XML attribute that you can enter.</p>

C.5.2 Purchase Order Negotiation

Table C–7 Purchase Order Negotiation Condition Builder Attributes

Attribute	Description
Enterprise Code	The code of the enterprise on the inbound order.
Initiator Organization Code	The code of the organization that initiates the negotiation.
Negotiator Organization Code	The code of the organization that can accept, counter-offer, or reject the initiator's offer.
Negotiation Pipeline Key	The key of the negotiation pipeline this inbound order is going through.
Negotiation Number	The negotiation number of this inbound order.
Negotiation Rule Key	The key of the negotiation rule for this inbound order.
Header Entity	The entity for which the negotiation was initiated. Currently, the only applicable entity is Order.
Negotiation Status	The status of the negotiation for this inbound order.
Document Type	The document type for this inbound order. Typical value is Purchase Order.
Freight Terms	The freight terms for this inbound order.
Payment Terms	The payment terms for this inbound order.
{ Enter Your Own Attribute }	<p>A customizable condition builder attribute. For more information on customizing this field, refer to the <i>Yantra 7x Customization Guide</i>.</p> <p>Note: This field is limited only to unexposed key attributes that are pre-defined by Yantra 7x as opposed to any XML attribute that you can enter.</p>

C.5.3 Inbound Shipment

The Inbound Shipment condition builder attributes are identical to the [Outbound Shipment](#) attributes.

C.5.4 Purchase Order Receipt

The Purchase Order Receipt condition builder attributes are identical to the [Return Receipt](#) attributes.

C.6 Transfer Order

C.6.1 Transfer Order Execution

The Transfer Order Execution condition builder attributes are identical to the [Order Fulfillment](#) attributes.

C.6.2 Transfer Order Delivery

The Transfer Order Delivery condition builder attributes are identical to the [Outbound Shipment](#) attributes.

C.6.3 Transfer Order Receipt

The Transfer Order Receipt condition builder attributes are identical to the [Return Receipt](#) attributes.

C.7 Load Execution

Table C–8 Load Execution Condition Builder Attributes

Attribute	Description
Load Type	The type of the load document.
Enterprise Code	The code of the enterprise on the load document.
Owner Organization Code	The code of the organization that owns the load document.
Carrier	The carrier used to carry the load.
Carrier Service Code	The code of the carrier service used to carry the load.
Ship Mode	The shipment mode that will be used for the shipment. For example, Parcel, Truck Load, Less-Than Truck Load.
Hazardous Material	The flag indicating whether hazardous materials are being carried in this load.
Origin Node	The node where the load originated from.
Destination Node	The node where the load is being shipped to.

Table C–8 Load Execution Condition Builder Attributes

Attribute	Description
Multiple Load Stop	The flag indicating whether or not a shipment will go through multiple stops to load or unload additional shipments.
{Enter Your Own Attribute}	<p>A customizable condition builder attribute. For more information on customizing this field, refer to the <i>Yantra 7x Customization Guide</i>.</p> <p>Note: This field is limited only to unexposed key attributes that are pre-defined by Yantra 7x as opposed to any XML attribute that you can enter.</p>

C.8 General

Table C–9 General Condition Builder Attributes

Attribute	Description
Enterprise Code	The code of the enterprise.
Organization Code	The code of the organization.
Provider Organization Code	The code of the organization that provides the service.
Ship Node	The node that will be shipping this shipment.
Supply Type	The supply type associated with the inventory status. Typical values are Onhand, Held, etc.
Item ID	The ID of the item on the order line.
Unit Of Measure	The unit of measure of the item.
Product Class	The inventory classification of an item based on the product's characteristics. Typical values are FQ - First Quality, SQ - Second Quality, etc.
Inventory Status	The inventory sub classification of the product, based on the results of the inventory control processes within the warehouse. Typical values are Good - Good Inventory, Damaged - Damaged inventory, Qlty-Hold - Quality Hold, etc.
Adjustment Type	The type of inventory adjustment. Typical values are Cycle Count, Receipt, Picking, Packing, Shipping, etc.
Alert Type	The type of alert raised when an exception occurs.
Carrier	The carrier used to carry the shipment.

Table C–9 General Condition Builder Attributes

Attribute	Description
Task Type	The Task Type applicable to a task. Typical values are Receipt, QC, Count, Replenishment, Retrieval, Putaway, VAS, Pack, Shipping, and Picking.
Assigned To User ID	The ID of the user to whom the task is assigned.
Task Status	The Task Status within the pipeline that the task travels through. Typical values are Open, Suggested, In Progress, Held, Completed, Canceled, etc.
Document Type	The document type for this order. Typical values are Sales Order, Purchase Order, Transfer Order, and Return Order.
Activity Group ID	The identifier for the activity group.
{Enter Your Own Attribute}	<p>A customizable condition builder attribute. For more information on customizing this field, refer to the <i>Yantra 7x Customization Guide</i>.</p> <p>Note: This field is limited only to unexposed key attributes that are pre-defined by Yantra 7x as opposed to any XML attribute that you can enter.</p>

C.9 WMS Putaway

The WMS Putaway condition builder attributes are identical to the [General](#) attributes.

C.10 WMS Layout Definition

The WMS Layout Definition condition builder attributes are identical to the [General](#) attributes.

C.11 WMS Inventory

The WMS Layout Inventory condition builder attributes are identical to the [General](#) attributes.

C.12 Trailer Loading

The Trailer Loading condition builder attributes are identical to the [General](#) attributes.

C.13 Task Execution

The Task Execution condition builder attributes are identical to the [General](#) attributes.

C.14 Move Request Execution

The Move Request Execution condition builder attributes are identical to the [General](#) attributes.

C.15 Manifesting

The Manifesting condition builder attributes are identical to the [General](#) attributes.

C.16 Over Pack Build

The Over Pack Build condition builder attributes are identical to the [General](#) attributes.

C.17 Count Execution

Table C–10 Count Execution Condition Builder Attributes

Attribute	Description
Enterprise Code	The code of the enterprise for which the count request is created.
Request Type	The type of count requested.
Count Program Name	The name of the count program for which the count request is created.
Node Key	The node where the count request is processed.
Zone ID	The zone where the count must be performed.
Location Size Code	The capacity of the location where the count must be performed.
Is LPN Level	The flag indicating whether the count tasks will be performed at the LPN level.

Table C–10 Count Execution Condition Builder Attributes

Attribute	Description
Is Case Level	The flag indicating whether the count tasks will be performed at the case level.
Is Pallet Level	The flag indicating whether the count tasks will be performed at the pallet level.
Is Item Level	The flag indicating whether the count tasks will be performed at the item level.
Is Resolvable	The flag indicating whether variance can be resolved for this count result.
Product Class	The inventory classification of an item based on the product's characteristics. Typical values are FQ - First Quality, SQ - Second Quality, etc.
Unit Of Measure	The unit of measure of the item that was counted.
Item Classification 1	The first item classification attribute for determining the Count Strategy.
Item Classification 2	The second item classification attribute for determining the Count Strategy.
Item Classification 3	The third item classification attribute for determining the Count Strategy.
Has Variance	The flag indicating whether the count request has a variance.
Has Absolute Variance	The flag indicating whether the count request has an absolute variance.
Variance Quantity	The difference in quantity (+/-) between the count result and system quantity.
Absolute Variance Quantity	The absolute difference between the count result and system quantity.
Variance Value	The difference in cost/value (+/-) between the count result and system quantity.
Absolute Variance Value	The absolute difference in cost/value between the count result and system quantity.

Table C–10 Count Execution Condition Builder Attributes

Attribute	Description
Has Variance With Previous Count	The flag indicating whether the variance between the current count result and previous count results is to be displayed.
{Enter Your Own Attribute}	<p>A customizable condition builder attribute. For more information on customizing this field, refer to the <i>Yantra 7x Customization Guide</i>.</p> <p>Note: This field is limited only to unexposed key attributes that are pre-defined by Yantra 7x as opposed to any XML attribute that you can enter.</p>

C.18 Pack Process

Table C–11 Pack Process Condition Builder Attributes

Attribute	Description
Node Attributes	
Ship Node	The node that will be shipping this shipment.
Receiving Node	The node that will be receiving this shipment.
Ship from Ship Node Interface Type	The interface type of the ship node from which the shipment is shipped (External Application, Yantra 7x Application Consoles, Yantra Networked WMS, or Yantra WMS 6.2).
Ship from Supplier Code	The code of the supplier that is shipping the shipment.
Ship from DCM Integration Real Time	The flag indicating whether the node from which the shipment is shipped uses Yantra 7x WMS.
Ship from Country	The code of the country from which the shipment is being shipped.
Ship to Ship Node Interface Type	The interface type of the ship node to which the shipment is shipped (External Application, Yantra 7x Application Consoles, Yantra Networked WMS, or Yantra WMS 6.2).
Ship to Supplier Code	The code of the supplier to whom the shipment is being shipped.
Ship to DCM Integration Real Time	The flag indicating whether the node to which the shipment is shipped uses Yantra 7x WMS.

Table C–11 Pack Process Condition Builder Attributes

Attribute	Description
Ship to Country	The code of the country to which the shipment is being shipped.
Organization Attributes	
Enterprise Code	The code of the enterprise that owns the shipment.
Buyer Organization Code	The code of the organization that is buying the goods or services.
Seller Organization Code	The code of the organization that is selling the goods or services.
Shipment Attributes	
Ship Mode	The shipment mode that will be used for the shipment. For example, Parcel, Truck Load, Less-Than Truck Load.
Carrier	The carrier used to carry the shipment.
Freight Terms	The freight terms of the shipment.
Delivery Code	The code of the entity that pays for the transportation costs.
Pack And Hold	The flag indicating whether the shipment needs to be packed and put away for retrieval at a later date.
Shipment Container Count	The number of containers in the shipment.
Shipment Containerized Flag	The flag indicating the containerization state of the shipment. The values are: 01 - not containerized, 02 - containerization in progress and 03 - containerization completed.
Container Attributes	
Is Shipment Container	The flag indicating whether the container belongs to a shipment.
Is Load Container	The flag indicating whether the container is part of a load.
Is Inventory Pallet	The flag indicating whether the container is an inventory pallet.
Is Converted From LPN	The flag indicating whether the inventory container has been converted to a shipment container.
Is Serial Capture Pending	The flag indicating whether the serial capture is pending for the container.

Table C–11 Pack Process Condition Builder Attributes

Attribute	Description
Is Pack Process Complete	The flag indicating whether any more pack activities are pending for the container.
Is Product Placing Complete	The flag indicating whether placing the product into the container according to the system's suggestion has been completed.
Requires VAS	The flag indicating whether the container requires value added services.
Has Child Containers	The flag indicating whether a container is a parent container having other containers.
Number of Items	The number of items contained in the container.
Container Type	The attribute that specifies whether a shipment container is a case or pallet.
{Enter Your Own Attribute}	<p>A customizable condition builder attribute. For more information on customizing this field, refer to the <i>Yantra 7x Customization Guide</i>.</p> <p>Note: This field is limited only to unexposed key attributes that are pre-defined by Yantra 7x as opposed to any XML attribute that you can enter.</p>

C.19 Outbound Picking

Table C–12 Outbound Picking Condition Builder Attributes

Attribute	Description
Activity Group ID	The identifier for the activity group.
Shipment Group ID	The identifier for the shipment group.
{Enter Your Own Attribute}	<p>A customizable condition builder attribute. For more information on customizing this field, refer to the <i>Yantra 7x Customization Guide</i>.</p> <p>Note: This field is limited only to unexposed key attributes that are pre-defined by Yantra 7x as opposed to any XML attribute that you can enter.</p>

C.20 VAS Process

Table C–13 VAS Process Condition Builder Attributes

Attribute	Description
Enterprise Code	The code of the enterprise that owns the item or license plate.
Provider Organization Code	The code of the organization that provides the service.
Node Key	The node, where the work orders are executed.
Purpose	The purpose for the work order (ORDER / STOCK / SHIP)
Service Item Group Code	The code of the service item group (KIT/DKIT/COMPL/INVC/PS)
Service Item ID	The identifier for the service Item.
Segment Type	The type of segment. This may be MTO (made to order) or MTC (made to customer).
Segment	The segment to which the inventory involved in the work order belongs.
Has Components	The flag indicating whether the work order has component items.
Status	The status of the work order.
Pre Call Status	The flag indicating the status of the pre-call process.
Appt Status	The status of the appointment. This will be in sync with the service order line. The appointment status is used in case of provided service work order.
Number Of Attempts	The number of attempts made to execute the work order.
Number Of Hours until Appointment	The number of hours left before the appointment for the service item.
Number Of Hours After Appointment	The number of hours after the last appointment for the service item.
Number Of Hours After Last Execution	The number of hours after the last attempt to execute the service.
Last Execution Success	The flag indicating whether the last attempt to execute the service was successful or not.

Table C–13 VAS Process Condition Builder Attributes

Attribute	Description
Open Work Order Flag	The flag indicating whether the execution of the work order has ended or not.
{ Enter Your Own Attribute }	<p>A customizable condition builder attribute. For more information on customizing this field, refer to the <i>Yantra 7x Customization Guide</i>.</p> <p>Note: This field is limited only to unexposed key attributes that are pre-defined by Yantra 7x as opposed to any XML attribute that you can enter.</p>

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