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# Selling and Fulfillment Foundation: Release Notes

Release 8.5

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# Contents

## 2 Known Issues

# Preface

This document describes the new features introduced in the Selling and Fulfillment Foundation, Release 8.5. In addition, it discusses the known issues in the release, and how to resolve them, if applicable.

## Intended Audience

This document is intended for use by system administrators and managers who need to configure the Selling and Fulfillment Foundation to fit their business requirements.

## Structure

This document contains the following sections:

**Chapter 1, "New Features"**

This chapter introduces the new features in the Selling and Fulfillment Foundation, Release 8.5.

**Chapter 2, "Known Issues"**

This chapter provides a list of the known issues in the Selling and Fulfillment Foundation, Release 8.5.

**Chapter 3, "Deprecated and Deleted Components, Functionalities, and Reports"**

This chapter provides a list of components and functionalities that have been deprecated or deleted from the Selling and Fulfillment Foundation, Release 8.5.

# Selling and Fulfillment Foundation Documentation

For more information about the Selling and Fulfillment Foundation components, see the following manuals:

- *Selling and Fulfillment Foundation: Release Notes*
- *Selling and Fulfillment Foundation: Installation Guide*
- *Selling and Fulfillment Foundation: Upgrade Guide*
- *Selling and Fulfillment Foundation: Configuration Deployment Tool Guide*
- *Selling and Fulfillment Foundation: Performance Management Guide*
- *Selling and Fulfillment Foundation: High Availability Guide*
- *Selling and Fulfillment Foundation: System Management Guide*
- *Selling and Fulfillment Foundation: Localization Guide*
- *Selling and Fulfillment Foundation: Customization Basics Guide*
- *Selling and Fulfillment Foundation: Customizing APIs Guide*
- *Selling and Fulfillment Foundation: Customizing Console JSP Interface for End User Guide*
- *Selling and Fulfillment Foundation: Customizing the RCP Interface Guide*
- *Selling and Fulfillment Foundation: Customizing User Interfaces for Mobile Devices Guide*
- *Selling and Fulfillment Foundation: Customizing Web UI Framework Guide*
- *Selling and Fulfillment Foundation: Customizing Swing Interface Guide*
- *Selling and Fulfillment Foundation: Extending the Condition Builder Guide*
- *Selling and Fulfillment Foundation: Extending the Database Guide*
- *Selling and Fulfillment Foundation: Extending Transactions Guide*

- *Selling and Fulfillment Foundation: Using Sterling RCP Extensibility Tool Guide*
- *Selling and Fulfillment Foundation: Integration Guide*
- *Selling and Fulfillment Foundation: Product Concepts Guide*
- *Sterling Warehouse Management$^{TM}$ System: Concepts Guide*
- *Selling and Fulfillment Foundation: Application Platform Configuration Guide*
- *Sterling Distributed Order Management$^{TM}$: Configuration Guide*
- *Sterling Supply Collaboration: Configuration Guide*
- *Sterling Global Inventory Visibility$^{TM}$: Configuration Guide*
- *Catalog Management$^{TM}$: Configuration Guide*
- *Sterling Logistics Management: Configuration Guide*
- *Sterling Reverse Logistics$^{TM}$: Configuration Guide*
- *Sterling Warehouse Management System: Configuration Guide*
- *Selling and Fulfillment Foundation: Application Platform User Guide*
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- *Sterling Logistics Management: User Guide*
- *Sterling Reverse Logistics: User Guide*
- *Sterling Warehouse Management System: User Guide*
- *Selling and Fulfillment Foundation: Mobile Application User Guide*
- *Selling and Fulfillment Foundation: Business Intelligence Guide*
- *Selling and Fulfillment Foundation: Javadocs*
- *Sterling Selling and Fulfillment Suite$^{TM}$: Glossary*
- *Parcel Carrier: Adapter Guide*
- *Selling and Fulfillment Foundation: Multitenant Enterprise Guide*
- *Selling and Fulfillment Foundation: Password Policy Management Guide*

- *Selling and Fulfillment Foundation: Properties Guide*
- *Selling and Fulfillment Foundation: Catalog Management Concepts Guide*
- *Selling and Fulfillment Foundation: Pricing Concepts Guide*
- *Business Center: Item Administration Guide*
- *Business Center: Pricing Administration Guide*
- *Business Center: Customization Guide*
- *Business Center: Localization Guide*

# Conventions

The following conventions may be used in this manual:

| Convention | Meaning |
|---|---|
| . . . | Ellipsis represents information that has been omitted. |
| < > | Angle brackets indicate user-supplied input. |
| `mono-spaced text` | Mono-spaced text indicates a file name, directory path, attribute name, or an inline code example or command. |
| / 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. |
| <INSTALL_DIR> | User-supplied location of the Selling and Fulfillment Foundation installation directory. This is only applicable for Release 8.0 or later. |
| <INSTALL_DIR_OLD> | User-supplied location of the Selling and Fulfillment Foundation installation directory (for Release 8.0 or later).<br>**Note:** This is applicable only for users upgrading from Release 8.0 or later. |
| <YANTRA_HOME> | User-supplied location of the Sterling Supply Chain Applications installation directory. This is only applicable for Releases 7.7, 7.9, and 7.11. |

| Convention | Meaning |
|---|---|
| <YANTRA_HOME_OLD> | User-supplied location of the Sterling Supply Chain Applications installation directory (for Releases 7.7, 7.9, or 7.11).<br>**Note:** This is applicable only for users upgrading from Releases 7.7, 7.9, or 7.11. |
| <YFS_HOME> | For Releases 7.3, 7.5, and 7.5 SP1, this is the user-supplied location of the Sterling Supply Chain Applications installation directory.<br>For Releases 7.7, 7.9, and 7.11, this is the user-supplied location of the <YANTRA_ HOME>/`Runtime` directory.<br>For Release 8.0 or above, the <YANTRA_ HOME>/`Runtime` directory is no longer used and this is the same location as <INSTALL_DIR>. |
| <YFS_HOME_OLD> | This is the <YANTRA_HOME>/`Runtime` directory for Releases 7.7, 7.9, or 7.11.<br>**Note:** This is only applicable for users upgrading from Releases 7.7, 7.9, or 7.11. |
| <ANALYTICS_HOME> | User-supplied location of the Sterling Analytics installation directory.<br>**Note:** This convention is used only in the *Selling and Fulfillment Foundation: Business Intelligence Guide*. |
| <COGNOS_HOME> | User-supplied location of the IBM Cognos 8 Business Intelligence installation directory.<br>**Note:** This convention is used only in the *Selling and Fulfillment Foundation: Business Intelligence Guide*. |
| <MQ_JAVA_INSTALL_ PATH> | User-supplied location of the IBM WebSphere® MQ Java components installation directory.<br>**Note:** This convention is used only in the *Selling and Fulfillment Foundation: System Manangement and Administration Guide*. |
| <DB> | Refers to Oracle®, IBM DB2®, or Microsoft SQL Server® depending on the database server. |
| <DB_TYPE> | Depending on the database used, considers the value oracle, db2, or sqlserver. |

**Note:** The Selling and Fulfillment Foundation documentation set uses the following conventions in the context of the product name:

- Yantra is used for Release 7.7 and earlier.
- Sterling Supply Chain Applications is used for Releases 7.9 and 7.11.
- Sterling Multi-Channel Fulfillment Solution is used for Releases 8.0 and 8.2.
- Selling and Fulfillment Foundation is used for Release 8.5.

# 1

# New Features

This chapter describes the new concepts and functionalities introduced in Selling and Fulfillment Foundation, Release 8.5.

**Important:** Selling and Fulfillment Foundation is already tuned for optimal performance. However, your own results are directly based on your hardware, data volumes, and user activities.

Sterling Commerce expects the *Selling and Fulfillment Foundation: Performance Management Guide* to be thoroughly read, evaluated, and the recommendations applied to your production system as required.

Sterling Commerce predefines a set of indexes, but also expects your Database Administrator to monitor the system and add or remove indexes, as necessary.

## 1.1 System Requirements

Before proceeding, ensure that you have read the complete list of requirements for your platform, as described in the *Selling and Fulfillment Foundation: Installation Guide*.

## 1.2 Product Name Changes in Release 8.5

Table 1–1 provides a list of product names that have changed in Release 8.5. This includes the old names and the corresponding new names.

*Table 1–1 Product Name Changes*

| Old Product Name | New Product Name |
|---|---|
| Sterling Multi-Channel Fulfillment Solution | Sterling Selling and Fulfillment Suite<br><br>**Important:** As part of a rebranding exercise undertaken by Sterling Commerce, some of our product names have changed. In the context of Sterling Multi-Channel Fulfillment Solution, the user interface reflects the name Sterling Selling and Fulfillment Suite in Release 8.5, while the corresponding documentation set reflects the name Selling and Fulfillment Foundation. The user interface will be modified accordingly in the next release. |
| Sterling Multi-Channel Fulfillment Solution Analytics | Business Intelligence |
| Sterling Multi-Channel Fulfillment Solution Consoles | Application Console |
| Sterling Multi-Channel Fulfillment Solution Configurator | Applications Manager |
| Sterling Multi-Channel Fulfillment Solution Event Management | Event Management |
| Sterling Multi-Channel Fulfillment Solution Mobile Application | Mobile Application |
| Sterling Multi-Channel Fulfillment Solution Platform | Application Platform |
| Sterling Multi-Channel Fulfillment Solution Process Modeling | Process Modeling |
| Sterling Multi-Channel Fulfillment Solution Queue Management | Queue Management |
| Sterling Multi-Channel Fulfillment Solution System Management | System Management |
| Sterling Product Management | Catalog Management |

# 1.3 Component Name Changes in Release 8.5

Table 1–2 provides a list of component names that have changed in Release 8.5. This includes the old names and the corresponding new names.

***Table 1–2 Component Name Changes***

| Old Component Name | New Component Name |
|---|---|
| Sterling Multi-Channel Fulfillment Business Process | Business Process |
| Sterling Configuration Deployment Tool | Configuration Deployment Tool |
| Sterling Presentation Framework | Presentation Framework |
| Sterling Service Definition Framework | Service Definition Framework |
| Sterling RCP Plugin 1.0.0 | RCP Plugin 1.0.0 |
| Sterling RCP Tools Plugin 1.1.0 | RCP Tools Plugin 1.1.0 |
| Sterling Rich Client Platform | Rich Client Platform |

# 1.4 Document Title Changes in Release 8.5

Table 1–3 provides a list of document titles that have changed in Release 8.5. This includes the old names and the corresponding new names.

***Table 1–3 Document Title Changes***

| Old Book Name | New Book Name |
|---|---|
| *Sterling Multi-Channel Fulfillment Solution Release Notes* | *Selling and Fulfillment Foundation: Release Notes* |
| *Sterling Multi-Channel Fulfillment Solution Installation Guide* | *Selling and Fulfillment Foundation: Installation Guide* |
| *Sterling Multi-Channel Fulfillment Solution Upgrade Guide* | *Selling and Fulfillment Foundation: Upgrade Guide* |
| *Sterling Multi-Channel Fulfillment Solution Performance Management Guide* | *Selling and Fulfillment Foundation: Performance Management Guide* |
| *Sterling Multi-Channel Fulfillment Solution High Availability Guide* | *Selling and Fulfillment Foundation: High Availability Guide* |

***Table 1–3 Document Title Changes***

| Old Book Name | New Book Name |
|---|---|
| *Sterling Multi-Channel Fulfillment Solution System Management Guide* | *Selling and Fulfillment Foundation: System Manangement and Administration Guide* |
| *Sterling Multi-Channel Fulfillment Solution Localization Guide* | *Selling and Fulfillment Foundation: Localization Guide* |
| *Sterling Multi-Channel Fulfillment Solution Integration Guide* | *Selling and Fulfillment Foundation: Integration Guide* |
| *Sterling Multi-Channel Fulfillment Solution Product Concepts* | *Selling and Fulfillment Foundation: Product Concepts Guide* |
| *Sterling Multi-Channel Fulfillment Solution Platform Configuration Guide* | *Selling and Fulfillment Foundation: Application Platform Configuration Guide* |
| *Sterling Multi-Channel Fulfillment Solution Platform User Guide* | *Selling and Fulfillment Foundation: Application Platform User Guide* |
| *Sterling Multi-Channel Fulfillment Solution Mobile Application User Guide* | *Selling and Fulfillment Foundation: Mobile Application User Guide* |
| *Sterling Multi-Channel Fulfillment Solution Analytics Guide* | *Selling and Fulfillment Foundation: Business Intelligence Guide* |
| *Sterling Multi-Channel Fulfillment Solution Javadocs* | *Selling and Fulfillment Foundation: Javadocs* |
| *Sterling Multi-Channel Fulfillment Solution Glossary* | *Sterling Selling and Fulfillment Suite: Glossary* |
| *Sterling Multi-Channel Fulfillment Solution Deployment Tool Guide* | *Selling and Fulfillment Foundation: Configuration Deployment Tool Guide* |
| *Sterling Product Management Configuration Guide* | *Catalog Management: Configuration Guide* |
| *Sterling Distributed Order Management Configuration Guide* | *Sterling Distributed Order Management: Configuration Guide* |
| *Sterling Distributed Order Management User Guide* | *Sterling Distributed Order Management: User Guide* |
| *Sterling Global Inventory Visibility Configuration Guide* | *Sterling Global Inventory Visibility: Configuration Guide* |
| *Sterling Global Inventory Visibility User Guide* | *Sterling Global Inventory Visibility: User Guide* |

***Table 1–3 Document Title Changes***

| Old Book Name | New Book Name |
|---|---|
| *Sterling Logistics Management Configuration Guide* | *Sterling Logistics Management: Configuration Guide* |
| *Sterling Logistics Management User Guide* | *Sterling Logistics Management: User Guide* |
| *Sterling Reverse Logistics Configuration Guide* | *Sterling Reverse Logistics: Configuration Guide* |
| *Sterling Reverse Logistics User Guide* | *Sterling Reverse Logistics: User Guide* |
| *Sterling Supply Collaboration Configuration Guide* | *Sterling Supply Collaboration: Configuration Guide* |
| *Sterling Supply Collaboration User Guide* | *Sterling Supply Collaboration: User Guide* |
| *Sterling Warehouse Management System Concepts Guide* | *Sterling Warehouse Management System: Concepts Guide* |
| *Sterling Warehouse Management System Configuration Guide* | *Sterling Warehouse Management System: Configuration Guide* |
| *Sterling Warehouse Management System User Guide* | *Sterling Warehouse Management System: User Guide* |
| *Sterling Parcel Carrier Adapter Guide* | *Parcel Carrier: Adapter Guide* |
| *Sterling Multi-Channel Fulfillment Solution Customization Guide* | *Selling and Fulfillment Foundation: Customization Guide*<br>**Note:**<br>In Release 8.5, the *Selling and Fulfillment Foundation: Customization Guide* has been split into the following new books. Some of these books do not have a Preface.<br>• *Selling and Fulfillment Foundation: Customization Basics Guide*<br>• *Selling and Fulfillment Foundation: Customizing APIs Guide*<br>• *Selling and Fulfillment Foundation: Customizing Console JSP Interface for End User Guide*<br>• *Selling and Fulfillment Foundation: Customizing the RCP Interface Guide* |

***Table 1 - 3 Document Title Changes***

| Old Book Name | New Book Name |
|---|---|
| | • *Selling and Fulfillment Foundation: Customizing User Interfaces for Mobile Devices Guide*<br>• *Selling and Fulfillment Foundation: Customizing the Web UI Framework Guide*<br>• *Selling and Fulfillment Foundation: Customizing the Swing Interface Guide*<br>• *Selling and Fulfillment Foundation: Extending the Condition Builder Guide*<br>• *Selling and Fulfillment Foundation: Extending the Database Guide*<br>• *Selling and Fulfillment Foundation: Extending Transactions Guide*<br>• *Selling and Fulfillment Foundation: Using the Sterling RCP Extensibility Tool Guide* |

# 1.5 Documents Introduced in Release 8.5

In Release 8.5, the following new documents have been created. These documents do not have a Preface.

- *Selling and Fulfillment Foundation: Multitenant Enterprise Guide*
- *Selling and Fulfillment Foundation: Password Policy Management Guide*
- *Selling and Fulfillment Foundation: Properties Guide*
- *Selling and Fulfillment Foundation: Pricing Concepts Guide*
- *Selling and Fulfillment Foundation: Catalog Management Concepts Guide*
- *Business Center: Item Administration Guide*
- *Business Center: Pricing Administration Guide*
- *Business Center: Customization Guide*
- *Business Center: Localization Guide*

# 1.6 Documents Deleted in Release 8.5

In Release 8.5, the following documents have been deleted:

- *Sterling Selling and Fulfillment Suite Integration Guide*
- *Sterling Selling and Fulfillment Suite Release Notes*

# 1.7 Application Platform Framework

The following new functionalities and enhancements have been added to the Application Platform Framework of the Selling and Fulfillment Foundation, Release 8.5:

- Best Match Region Analytics
- Reduced Table and Index Size
- Additional DBMS Identifiers
- Control Server for Verbose Traces
- Specify Timeouts for SQL Queries from Agents and RCP-Based UIs
- Enhanced Participant Features
- Data Access Policies
- Enterprise Onboarding

## 1.7.1 Best Match Region Analytics

The region matching capability has been enhanced in Selling and Fulfillment Foundation, Release 8.5, to enable the reporting of region data in Business Intelligence reports.

## 1.7.2 Reduced Table and Index Size

To improve system performance, Release 8.5 enables you to reduce the size of some database tables by converting some CHAR columns to VARCHAR and Not Null columns to Null. On some databases, this will improve index performance, as well.

### 1.7.3 Additional DBMS Identifiers

Additional identifiers such as Application Server, Apiname, and Agent Information will be stamped with a database session identifier to ease the process of debugging and tuning the database.

### 1.7.4 Control Server for Verbose Traces

When using the modifyTraces API for turning on verbose tracing, additional controls allow you to specify the server on which these traces are generated. This prevents overflow of logs on all servers.

### 1.7.5 Specify Timeouts for SQL Queries from Agents and RCP-Based UIs

Users can now specify a timeout setting for long-running queries fired from agents and RCP-based UIs. This prevents the locking up of threads, and facilitates better database and UI performance.

### 1.7.6 Enhanced Participant Features

The following enhancements have been made in the Participant features in Release 8.5:

- More Detailed Customer Information
- Customer-Based Alerts
- Flexible Team Assignments
- Customer-Defined Web Themes

#### 1.7.6.1 More Detailed Customer Information

New customer and customer contact attribute fields support pricing and entitlement features. They enable customer service representatives (CSRs) to enter information about customers, customer contacts, customer currency, and customer order hold, active, and inactive statuses.

#### 1.7.6.2 Customer-Based Alerts

Customer-based alerts can be generated for CSRs who are assigned to a customer. They can view the alerts associated with that customer's orders.

#### 1.7.6.3 Flexible Team Assignments

Support for more options in customer and team assignments. Ability to differentiate teams that require direct assignments to large accounts from teams that can access all businesses, such as smaller accounts.

#### 1.7.6.4 Customer-Defined Web Themes

Customers can define a list of themes to be part of their storefront's URL and provide a brand name and look-and-feel entry point for their customers on the Web. These themes can include seasonal and promotional displays as well as default themes that are more generic in nature.

### 1.7.7 Data Access Policies

The Data Access Policies feature provides flexible configuration access rules for hub administrators. Access can be defined for enterprise, buyer, and node users. These rules also make it possible to specify team access to customers, either by entire team or by individual members of the team.

### 1.7.8 Enterprise Onboarding

The following enhancements comprise the Enterprise Onboarding feature in Release 8.5:

- Multischema Support
- Colony-Driven and Organization-Driven Configuration Deployment Tool
- Support for Multischema Analytics

#### 1.7.8.1 Multischema Support

Multiple enterprises can be deployed across multiple schemas and database instances. As a result, a given enterprise can be migrated to a new version of the Selling and Fulfillment Foundation without forcing the downtime of other enterprises.

#### 1.7.8.2 Colony-Driven and Organization-Driven Configuration Deployment Tool

Because onboarding enables enterprises to have independent deployments, some enterprises in a deployment may want to move to a higher version of Selling and Fulfillment Foundation than the others. To enable this, the Configuration Deployment Tool (CDT) has been enhanced to move organization-specific and enterprise-specific data in a given deployment.

#### 1.7.8.3 Support for Multischema Analytics

Selling and Fulfillment Foundation Analytics now supports multischema mode, providing new data sources that are based on the Configuration, Metadata, Master Data, and Transaction schema types.

## 1.8 New Features: Technical and Operating System

The following new functionalities have been added in Release 8.5:

- Miscellaneous Changes to Platform Installation and Deployment
- Ability to Generate a Web Service Using Java Beans
- Web UI Framework
- Multitenancy and Multischema Support
- Password Policy Management
- System Management Administrator
- Miscellaneous Changes for RCP Applications
- XAPI Security, Authorization, and Permissioning
- Miscellaneous Enhancements to Back-End Architecture

### 1.8.1 Miscellaneous Changes to Platform Installation and Deployment

Release 8.5 includes the following miscellaneous changes made to the platform installation and deployment:

- To control the order of the .jar files that make up the Platform-5000.jar file, Release 8.5 prepends the class name to the name of the corresponding .jar file.
- Release 8.5 has improved the handling of the JDK, which affected the parameters in the silent install file and the operation of the install wizard both with and without a multischema environment. Two new properties in the Sandbox.cfg file enable you to configure whether you want the Java SDK files downloaded to the Selling and Fulfillment Foundation directory to which they are typically copied during installation, or to a directory external to the Selling and Fulfillment Foundation application files.
- Release 8.5 has improved and enhanced the script that creates the EAR file. This change impacts the operation of the `buildear` and `buildwar` scripts and the documentation of their properties and parameters in all the supported environments.

### 1.8.2 Ability to Generate a Web Service Using Java Beans

Release 8.5 enables you to generate a Web Service using Java beans as input and output rather than using XML. This change impacts how a consuming application is installed and deployed, including changes to the silent install file, the creation of the EAR file, the operation of the `buildear` and `buildwar` scripts, and the deployment of the application on application servers.

### 1.8.3 Web UI Framework

The platform already supports several UI frameworks that are used to develop applications within Sterling Commerce and to customize applications that are installed at customer sites.

Release 8.5 adds support for a new UI framework that is consistent with Web 2.0 architecture and incorporates a third-party library of Ajax widgets, mashup capabilities, and a back-end that is based on Struts.

To support customization, the Web UI framework provides the Extensibility Workbench tool (used to alter existing application screens) and the Designer Workbench tool (used to add new screens to an application). Both tools are Eclipse-based and offer What You See Is What You Get (WYSIWYG) capabilities for designing, creating, and customizing the presentation layer.

### 1.8.4 Multitenancy and Multischema Support

Release 8.5 provides multitenancy architecture, including the ability to deploy multiple instances of applications on a single application server (using different context roots). Multitenancy also includes the ability to support multiple enterprises, with each enterprise having its own transaction schema in a single instance of the application server (using a single context root).

Behind the scenes, multitenancy is dependent on supporting multiple database schemas in a single installation. Data can be split into the appropriate schema based on the type of data (configuration versus transaction) and by enterprise code. This capability allows customers to upgrade one enterprise to a new version without forcing the upgrade or downtime of other enterprises. Additionally, transaction data can be split by enterprise, thus allowing for better separation and isolation of data.

Support for multischema environments impacts table creation scripts used during installation, the dbverify tool, and the CDT, and adds a new System Management Administrator tool.

### 1.8.5 Password Policy Management

Release 8.5 includes a new password policy management feature that allows consuming applications to configure and control password strength, password generation, and password resets. Additionally, this feature supports the tracking of invalid login attempts by users and locks the account.

Internally, this feature is created by the addition of new database tables, new APIs, new events, new rule definitions, and a new attribute in the createUserHierarchy API.

### 1.8.6 System Management Administrator

Release 8.5 includes a new UI tool, the System Management Administrator, which is used to manage the database pools and colonies required by multischema environments.

### 1.8.7 Miscellaneous Changes for RCP Applications

Release 8.5 includes several enhancements for consuming applications that use the RCP UI framework, including the following:

- Users from remote clients can log in to a terminal server and access or deploy RCP clients.
- The version of the RCP client is exposed as an attribute to the Condition Builder. This allows consuming applications to create conditions in the pipeline or in services that impact only certain versions of RCP client applications.
- If a noneditable text field does not have a theme, a custom theme that sets the font color can be applied.
- The RCP Extensibility Tool now supports applying a theme to a control, setting different themes for a control, and creating new themes.
- Consuming applications can now hide the "Do Not Notify" check box in the Alert Notification Panel. This allows applications to prevent users from turning off alert notifications.
- Up to three released versions of RCP clients can reside simultaneously on the server. Certain UI controls can be altered based on the version of the client calling the server. Additionally, version-specific data can be displayed in combo boxes on clients that reside in a multiclient environment.

  If an order that is created in a newer version of a client is pulled up in an older version of the client, a capability has been introduced in Release 8.5 to prevent the order from being modified in the older client based on tags on the order.
- Consuming applications can set a theme for dialog boxes that display informational messages, errors, warnings, and confirmations.
- RCP applications can integrate with one or more Web applications on different domains. This feature allows users to access another Web

application from within an RCP application and bypass the login of the second Web application.

### 1.8.8 XAPI Security, Authorization, and Permissioning

This feature provides authentication ability when an XAPI is called, increasing security and preventing unwanted users from calling APIs. It offers the following capabilities:

- Authenticates users prior to the XAPI call
- Provides authorization to restrict a given user to a subset of APIs and services
- Further restricts these invocations to only allowed data

### 1.8.9 Miscellaneous Enhancements to Back-End Architecture

Release 8.5 includes the following enhancements to back-end architecture:

- For Oracle databases, Release 8.5 will support CLOB columns. New installations will have only CLOB columns. For upgraded installations:
  - Any new long fields will be added as CLOB.
  - Any existing LONGs will be left as it is throughout the 8.5 upgrade process. If you want to modify the existing LONGs to CLOBs, use Oracle utilities to migrate them after the version upgrade is complete.
- Supports the partitioning and compression of some tables in the database, allowing customers to manage the database more efficiently and reduce the size of the database.
- Provides the ability to lock a record in a custom table when executing a custom entity API in the Service Definition Framework (SDF). This ensures accuracy and data integrity, as well as flexibility in choosing locking used for records:
  - WAIT – The record is locked for SELECT FOR UPDATE operation.
  - NOWAIT – The record is locked for SELECT FOR UPDATE NOWAIT operation.

  - NONE – No locking mechanism is used.
- Enhances the entity framework in several ways - Adds support for numeric primary keys and entities, and removes the requirement to create housekeeping fields in new database classes.
- Supports versioning for rules that control UI behavior. Users can now define rules and common codes using the QUALIFIER that identifies a version. This feature enables consuming applications to support multiple versions of the same client or to support multiple clients accessing the same version of the application.
- Allows consuming applications to direct XAPI calls to a specific server or servers through specific protocols.
- Enhances tables that store and retrieve rules pertaining to a particular user, organization, or enterprise. New columns are added to the PLT_USER_UI_STATE table.
- Provides a new XAPI (manageCommonCode) that allows consuming applications to create and modify common codes.
- Allows for the creation of hang-off and child tables for different locales. The entity framework has been enhanced to allow the definition of localized values for each entity or a string.
- Allows for turning off data security for XAPI calls from agents, and to apply data security only once in multiple XAPI calls.
- For existing columns whose value is null, this release allows the display of the default value in the XML output while storing the null value in the database.
- Supports case-insensitive searches on transaction tables. To enable this functionality, the ForceUpperCase attribute must be set to True for extended columns that need to be case-sensitive. When ForceUpperCase is set to True, the system converts the data in these columns to uppercase letters.

**Note:** This functionality is supported only on extended columns.

## 1.9 Introduction to Business Center

Selling and Fulfillment Foundation, Release 8.5, has introduced a new functionality, Business Center, which provides a task-based graphical user interface for managing catalog, item, and pricing information, as well as pricing rules and coupons. In releases prior to Release 8.5, the item functionality pertaining to fulfillment processes was managed in the Applications Manager, while item data pertaining to selling processes was managed in the order capture system administrative application. In Release 8.5, several selling and fulfillment-related business objects, such as catalog, item, and pricing data, have been moved into Business Center. Additionally, certain components of Applications Manager and Multi-Channel Selling administration of the order capture system have been deprecated or removed.

## 1.10 Catalog Management

In Selling and Fulfillment Foundation, Release 8.5, the Catalog Management functionality has been enhanced to include the following new functionalities and enhancements:

- Master Catalogs and Selling Catalogs
- Subcatalog Organizations
- Item Attribute Management
- Customer and Selling Entitlements
- Assets
- Supersession
- Related Categories
- Catalog Search
- Master Data Localization
- Configuration Deployment Tool Deploys Master Data

### 1.10.1 Master Catalogs and Selling Catalogs

Catalog functionality has been enhanced in Selling and Fulfillment Foundation, Release 8.5, to support one master catalog per catalog organization and associated selling catalogs. Catalogs are hierarchical constructs, built with item categories and items for different purposes. The master catalog is organized for ease of item maintenance, and the selling catalogs are organized to facilitate item sales. For example, businesses typically define several selling catalogs, such as seasonal catalogs for fall, winter, summer, and spring sales. Note that only one selling catalog can be active at a time.

### 1.10.2 Subcatalog Organizations

Selling and Fulfillment Foundation, Release 8.5, introduces support for subcatalog organizations. This new functionality enables you to authorize an organization, other than the catalog organization, to maintain a portion of the master catalog. These organizations are called subcatalog organizations. Organizations, such as suppliers and distributors, can be modeled as subcatalog organizations. However, these organizations must be enterprises that refer to the catalog organization as their catalog organization. For example, if a supplier refers to another enterprise as its catalog organization, the supplier can be configured as a subcatalog organization of the other enterprise. In this example, the supplier can manage part of the other enterprise's catalog.

A subcatalog organization can manage categories within the master catalog, manage items within those categories, assign catalog organization attributes created by the catalog organization to subcatalog categories and items, and assign items from the master catalog to the subcatalog's categories.

### 1.10.3 Item Attribute Management

Selling and Fulfillment Foundation, Release 8.5, supports item attribute management, which enables you to create and manage a master set of attributes and assign those attributes to items and categories. Attributes are characteristics or specifications that define items; for example, a computer's attributes may include CPU Type or Hard Drive Size.

You can define a multitier hierarchy using attribute groups. Attributes belong to an attribute group and can have various formats, such as a range of allowed numbers (60-180) or text values. Attributes can then be assigned to categories and classifications, and attribute values can be assigned to category, classification, and item attributes. When you assign an attribute or attribute value to a category or classification, the attribute or attribute value is inherited by child categories, classifications, and items within the categories. You can override inherited attribute values at the category and item levels.

When assigning attributes to categories, you can also define usages for attributes, such as attributes for filtering or comparing items. For example, if Port Type is defined as a filterable attribute, customers can search a business organization's Web site for computers and narrow the search results by Port Type.

### 1.10.4 Customer and Selling Entitlements

Selling and Fulfillment Foundation, Release 8.5, introduces customer and selling entitlements that allow your organization to manage access to items for buying and selling purposes. Catalog organizations can define selling entitlements that grant and restrict other organizations' access to categories in its catalog for selling purposes. Additionally, customer entitlements allow enterprises to define the items their customers can or cannot buy.

### 1.10.5 Assets

Selling and Fulfillment Foundation, Release 8.5, introduces support for assets, which are files that are associated with business objects. Assets can be files or links, such as URLs, datasheets, image files, sound files, and text files. You can assign assets to items, catalogs, categories, attributes, and attribute-allowed values.

### 1.10.6 Supersession

In Selling and Fulfillment Foundation, Release 8.5, substitution associations have been replaced by supersession associations. A supersession association provides the ability to recognize that an item can be superseded by a chain of items when the item's effective date becomes obsolete. Supersession allows you to substitute an item with similar successor items. For example, you can specify a chain of supersession for Notebook 501, which is not sold anymore, with the new Notebook 502.

### 1.10.7 Related Categories

Item associations in Selling and Fulfillment Foundation, Release 8.5, provide the enhanced capability of associating items to categories. Earlier releases allowed you to perform associations only on an item-to-item or item-to-query basis.

### 1.10.8 Catalog Search

Selling and Fulfillment Foundation, Release 8.5, provides an index-based catalog search that allows users searching the catalog to conduct fast and scalable item searches of the catalog. Selling and Fulfillment Foundation uses the Apache Lucene open source search engine library to create searchable index files from data within selling catalogs. Additionally, catalog search can be customized by defining item information that is stored in index files. For example, if filter attributes are defined in the index files, users can use filters to narrow catalog search results. This easy-to-navigate filtering mechanism allows users to quickly and easily find items in the catalog.

### 1.10.9 Master Data Localization

Selling and Fulfillment Foundation, Release 8.5, enables business administrators to localize texts of master data such as items, categories, and asset descriptions. This enhancement provides more flexibility to administrators of Business Center to localize catalog information. Business administrators can correct translation errors in isolated cases, without generating an extract of localized text strings that are in the system.

### 1.10.10 Configuration Deployment Tool Deploys Master Data

The Configuration Deployment Tool (CDT) can now be used to move master data, such as items and categories, between databases. This feature enables you to update master data in your catalog.

## 1.11 Price Management

Selling and Fulfillment Foundation, Release 8.5, consolidates all the pricing functionalities into one central location. The Pricing Service acts as a hub for every pricing calculation that occurs. The new functionality provided in Release 8.5 has three main components:

- Price List Management

- Pricing Rules Management
- Coupon Management

The price programs and price lists functionality that was provided in earlier releases has been deprecated. To use this deprecated functionality, you must first select the Use Deprecated Pricing Engine check box in the Installation Rules window. To access this window, from the tree in the Application Platform application rules side panel, select System Administration > Installation Rules. The Installation Rules window is displayed in the work area.

### 1.11.1 Price List Management

Selling and Fulfillment Foundation, Release 8.5, enables you to assign a price list to specific customers, including all business customers (B2B), all consumer customers (B2C), or anonymous users. In addition, it enables you to assign a price list to a specific business customer, and that price list can be shared with organizations that belong to that customer.

In addition to the direct assignment of a price list to a customer, you can also assign price lists dynamically by using customer attributes. Dynamic assignment allows you to assign a price list to one or more customer attributes, such as vertical, relationship type, customer level, and region. For example, if you want to assign a price list to all gold-level customers in the Boston area who are serving the educational market, you would assign the price list to the attributes region=Boston, vertical=Education, and customer level=Gold.

A price list can refer to items and price information from another price list. Some organizations prefer to maintain a master price list from which dependent price lists are created. A dependent price list has, at the header level, a discount or surcharge factor to adjust the prices to a specific customer or group of customers. For example, if an organization has three divisions to cater to customers in three different regions, the organization can create one master price list where the prices of all the items are defined, and three dependent price lists that refer to items and price information from the master price list. A pricing organization user can either increase or decrease the prices that the dependent price lists inherit from a master price list by a percentage, a fixed amount, or both a percentage and fixed amount.

### 1.11.2 Pricing Rules Management

Selling and Fulfillment Foundation, Release 8.5, enables you to create pricing rules. Pricing rules manage special offers, discounts, and charges at either the order level or the line level. The types of rules that can be applied include combination, item quantity, order total, shipping charge order total, and item shipping surcharge.

### 1.11.3 Coupon Management

Selling and Fulfillment Foundation, Release 8.5, enables you to create coupons. Coupons are a type of pricing rule, but they modify the prices of items in an order only if the customer actively adds the coupon to the order. The coupon affects the price of items in the order only if the customer and order meet the constraints defined for the coupon. The types of coupons that can be applied include combination, item quantity, order total, and shipping charge order total.

## 1.12 Distributed Order Management

In Selling and Fulfillment Foundation, Release 8.5, the Distributed Order Management functionality has been enhanced to include the following features:

- Extended Item Validations
- Item-Based Allocation Prioritization
- Unplanned Inventory Quantity
- Master Orders
- Order Tags
- Level of Service
- Carrier Service Pickup Schedule
- Notification Time
- Node Processing Time
- Order Hold Enhancements
- Pending Changes on Confirmed Orders
- Deliver Together Bundles

- Draft Order Payment Processing
- Charge Transaction Request Identifiers
- Authorization at Release
- Execute Payment Transactions
- Tax Changes Post Invoicing
- Draft Order Purge
- Order Release Status Purge
- Gift Message and Gift Wrapping

### 1.12.1 Extended Item Validations

Item validation has been extended in Selling and Fulfillment Foundation, Release 8.5, to allow enterprises to validate items on an order by verifying the item's effective date range, minimum and maximum quantities, customer entitlements, item status, and whether the item is part of a physical kit or bundle that cannot be sold separately.

### 1.12.2 Item-Based Allocation Prioritization

The Item-Based Allocation (IBA) Prioritization feature allows you to configure the priority for scheduling orders based on the order attributes. In releases prior to Release 8.5, the required ship date was used to determine order scheduling. Selling and Fulfillment Foundation, Release 8.5, provides added control over the sequence in which orders are shipped. For example, you can give shipping priority to high-value customer orders over other customer orders.

### 1.12.3 Unplanned Inventory Quantity

The Unplanned Inventory Quantity feature provides you with the amount of available and unplanned inventory when promising inventory. Releases prior to Release 8.5 enabled you to query for inventory, but did not provide information about the quantities of available and unplanned inventory.

### 1.12.4 Master Orders

In Release 8.5, you can create a Master Order, which is a document indicating the expected recurring sales of multiple products over a period of time. A master order is typically created for a customer to purchase a series of products for shipping.

### 1.12.5 Order Tags

Order Tags enable the system to coordinate which order features are available across multiple versions of PCAs when they are installed on Selling and Fulfillment Foundation. This version awareness makes it possible to schedule an order in one version of the Sterling Call Center and Sterling Store, for example, and schedule the delivery of that order in another version. If some features are not available across PCA versions, a message can be displayed to the user indicating when this is the case.

### 1.12.6 Level of Service

The Level of Service feature allows businesses to have different notification times based on different levels of service. For example, rush orders will typically be "rushed" through the warehouse faster than other orders. In Selling and Fulfillment Foundation, Release 8.5, these rush orders can be handled through a level of service with a lower notification time. The system also allows the setting up of multiple levels of service so that a business can use them as premium service levels (Silver, Gold, Platinum, and so on).

### 1.12.7 Carrier Service Pickup Schedule

The Carrier Service Pickup Schedule feature enables you to specify the days and times a carrier service picks up shipments at a node. This makes a difference in cases such as Next Day Air services, where the carrier service pickup times may be earlier in the day. If an order is received after a certain cut-off time, the shipment cannot be processed for next day air service. Selling and Fulfillment Foundation uses the Carrier Service Pickup Schedule to calculate shipment dates.

Selling and Fulfillment Foundation, Release 8.5 supports Carrier Service Transfer Schedules with overrides. In releases earlier than Release 8.5, you could configure a delivery schedule for a carrier service that was used for calculating the final shipment pickup. However, the schedule was not used for inventory transfers between nodes. Transfer schedules allow the system to better calculate delivery dates, because you can specify the days on which a carrier service is transporting items, and also specify overrides for days, such as holidays, when the carrier service does not transport items.

### 1.12.8 Notification Time

The Notification Time feature enables you to set up notification times for nodes. Notification times determine the days of the week on which a node can accept orders. Selling and Fulfillment Foundation, Release 8.5, uses the notification time of a node to calculate shipment dates. This functionality allows businesses to work more efficiently and cost-effectively with vendors in situations where a vendor’s order volume may be small. For example, when a particular retailer's orders form a small part of the vendor's business, the vendor relationship may be set up in such a way that the retailer sends orders to the vendor twice a week, instead of every day. This may impact the calculation of a shipment date.

### 1.12.9 Node Processing Time

Node Processing Time is the amount of time a node requires to process incoming inventory. In releases prior to Release 8.5, you could define the processing time by inventory organization. In Selling and Fulfillment Foundation, Release 8.5, you can define the processing time at the node level, based on the node's receiving calendar.

### 1.12.10 Order Hold Enhancements

The following enhancement was made to the order hold functionality in Selling and Fulfillment Foundation, Release 8.5.

#### Automatically Resolve Order Approval Hold on Order Change

In Selling and Fulfillment Foundation, Release 8.5, you can set a configuration rule that enables order approval holds to be resolved automatically when an order is changed.

### 1.12.11 Pending Changes on Confirmed Orders

Selling and Fulfillment Foundation, Release 8.5, provides a Web user with the capability to make changes to a confirmed order, assuming that the order is in a status that allows modifications. To persist the changes, the user must save the changes. Release 8.5 also provides the capability to roll back the changes. Any modifications made to a confirmed order remain in a pending state until the user saves or rolls back the changes, or the changes automatically expire after a preconfigured timeframe.

### 1.12.12 Deliver Together Bundles

The Deliver Together Bundles feature ensures that separate line items in bundled orders are delivered together to the same location at the same time, even when the items are sourced from different nodes. This enables you to have bundles containing different items and shipping separately to arrive at their destination on the same day.

### 1.12.13 Draft Order Payment Processing

Selling and Fulfillment Foundation, Release 8.5, supports the processing of payments on draft orders before the draft orders are confirmed. The charge transaction table and the payment status are populated when draft orders are created. Additionally, a charge transaction record is created each time a draft order is modified. Charge transaction records for a draft order are consolidated when the draft order is confirmed.

### 1.12.14 Charge Transaction Request Identifiers

Selling and Fulfillment Foundation, Release 8.5, provides a mechanism to control when payment authorizations occur on an order and the amount of the authorization. Instead of authorizations being processed automatically at the order level, the charge transaction request identifiers feature provides a finer granularity of control for authorizing payments pertaining to orders. Authorizations are tied to identifiers, which represent an entity or group of entities in an order. For example, payment authorizations can be processed either at the order release level or the order line level, instead of only at the order level, by creating request identifiers for the entities.

### 1.12.15 Authorization at Release

The Authorization at Release feature allows you to authorize customer credit card transactions at the time an order is taken, and then again at the time of release. In releases prior to Release 8.5, credit card authorizations were held open indefinitely for orders that did not ship immediately. This makes a difference in future order or backorder scenarios, where an order may not be shipped for a few weeks. To deal with such scenarios, Selling and Fulfillment Foundation, Release 8.5, provides the capability to not keep an authorization open until the order is ready to be released or shipped.

### 1.12.16 Execute Payment Transactions

The Execute Payment Transactions feature enables you to process payments before an order is created or confirmed. The executePaymentTransactions API executes a list of payment transactions without an existing order. The supported payment types include credit cards, customer accounts, stored value cards, and other user-defined payment types.

### 1.12.17 Tax Changes Post Invoicing

Tax Changes Post Invoicing creates an adjustment invoice when the tax percentage changes on an order that has already been invoiced. In releases prior to Release 8.5, adjustment invoices were created only for a charge or a unit price change on an invoiced order.

This makes a difference when tax changes on an invoiced order are triggered by something other than a change in charges or price. For example, a charitable organization may forget to inform an enterprise about its tax exempt status when placing an order, and realize its mistake only after the order has been shipped and invoiced. In such a scenario, an adjustment invoice is created, and a refund is issued to the organization.

### 1.12.18 Draft Order Purge

Selling and Fulfillment Foundation, Release 8.5, supports the task of purging the draft order table and draft order history table, preventing the tables from growing to an unmanageable size.

### 1.12.19 Order Release Status Purge

The Order Release Status Purge feature enables customers to purge extra order release status records from the database, freeing up space and reducing the load on the frequently accessed YFS_ORDER_RELEASE_STATUS table.

### 1.12.20 Gift Message and Gift Wrapping

When ordering gift items, a customer can request a gift message along with the item. The gift message can be stored as an instruction on the order line, with a specific instruction type. In addition, the customer can request that the item be gift wrapped and shipped. An option has been provided at the catalog level to identify items that can be gift wrapped. The new attribute will be inherited from item classifications. It is also possible that only certain nodes can perform gift wrapping services. Whenever an order line requiring gift wrapping is scheduled, the order line will only get scheduled from the node that allows gift wrapping services.

## 1.13 Global Inventory Visibility

In Selling and Fulfillment Foundation, Release 8.5, the Global Inventory Visibility functionality has been enhanced to include inventory caching.

#### Inventory Caching

In Release 8.5, the response time for item inquiries has been improved.

In releases prior to 8.5, the availability of inventory items was computed and obtained in real time during an item inquiry. In Release 8.5, item availability is computed and stored in cache. When the getAvailabilityFromCache flag is set to Y, the getItemListForOrdering API retrieves cached inventory availability information from the YFS_INVENTORY_ALERTS_TABLE during an item inquiry.

# 1.14 Warehouse Management System Enhancements

In Selling and Fulfillment Foundation, Release 8.5, the Sterling Warehouse Management System has been enhanced to include the following features:

- Pierbridge Carrier Adaptor
- Access Multiple Nodes

## 1.14.1 Pierbridge Carrier Adaptor

In releases prior to 8.5, the Sterling Warehouse Management System has been integrated with the AgileElite Shipment Server. With this integration, carrier functions such as opening a manifest, adding containers to an open manifest, closing a manifest, and so on are also available through the AgileElite Shipment Server.

## 1.14.2 Access Multiple Nodes

In releases prior to 8.5, users worked in the context of a single warehouse node. In Release 8.5, the Sterling Warehouse Management System supports the assignment of multiple nodes to a user, who can use the same login to access all the nodes. Users can switch between nodes and perform warehouse operations without having to log out and log in again.

# 1.15 Product Documentation

During installation, you can specify whether you want to enable an Online Library or Local Library of the product documentation.

The Online Documentation Library, hosted by Sterling Commerce, provides users with online access to the documentation set in HTML and PDF formats. It offers Google mini-search capability across the documentation set, and dynamic updates to the documentation for changes and hot fixes.

The Local Library provides users with local access to the documentation set in HTML format, and search capability on a book-by-book basis.

You can change your selection of Online Library or Local Library any time after the installation.

# 2

# Known Issues

The following sections describe the known issues that you may encounter in Release 8.5:

- Parcel Carrier Adapter
- Documentation

Some of the defects listed in this chapter will be addressed in future 8.5 maintenance pack releases. To determine if a defect has been addressed in a maintenance pack, review the *Hot Fix Release Notes* that accompany the maintenance pack.

## 2.1 Upgrade

The following issue may occur when migrating to Release 8.5:

- **194805** - As part of the Attribute Management feature, all the non-housekeeping columns of the YFS_ITEM entity will be made available as YFS_ATTRIBUTE and YFS_ATTRIBUTE_REFERENCE records. However, if the YFS_ITEM entity is extended to have custom columns in releases prior to Release 8.5, these columns are not added as YFS_ATTRIBUTE and YFS_ATTRIBUTE_REFERENCE records in Release 8.5.

  **Solution / Workaround:** The extended columns of YFS_ITEM can be added manually as YFS_ATTRIBUTE and YFS_ATTRIBUTE_REFERENCE records after the upgrade completes. These extended columns are available from the Admin user interface.

## 2.2 Installation

You may encounter the following issues during the installation process:

- **185137** - An API security violation error occurs when calling the login API from the HTTP tester with the yfs.interopservlet.security.enabled property turned on.

  **Solution / Workaround:** Set yfs.interopservlet.security.enabled in the yfs.properties_ysc_ext to false.

- **185587** - During a multischema installation using an Oracle 11g driver, Oracle may display the following error:

  ```
  oracle.jdbc.driver.OracleDriver registerMBeans SEVERE:
  Error while registering Oracle JDBC Diagnosability MBean.
  javax.management.InstanceAlreadyExistsException.
  ```

**Solution / Workaround:** This error message can be ignored. The MBean error is a non-fatal error, which mostly occurs when the JVM loads a class more than once or the class loaders do not match. However, the JVM continues to load classes after displaying the error.

- **193684** - To configure the maximum thread count, `weblogic.xml` and `weblogic_ejb_jar.xml` files must be modified. As documented, `weblogic.xml` present in the folder `<INSTALL>/extensions` is not being considered during install or upgrade. Instead, `weblogic.xml` in the `<INSTALL>/repository` folder is considered.

  **Solution / Workaround:** Modify the `weblogic.xml` present in the folder `install\repository\eardata\{package-name}\descriptors\weblogic\WAR\WEB-INF\`, and `weblogic_ejb-jar.xml` present in the folder `install\repository\eardata\{package}\descriptors\weblogic\EJB\META-INF`.

- **193792** - When running the `build ear` command on Windows with the JRockit JDK, warnings such as the following occur:

  ```
  [WARN] -XX:MaxNewSize=256m is not a valid VM option.
  ```

  This error is benign and will not affect the build ear process.

  **Solution / Workaround:** None.

- **193960** - In a silent installation in multischema mode, error messages similar to the following may appear in the log file even if the installation is successful:

  ```
  /home/systest/apps/Aries/oracle/properties/sandbox.cfg:
  line 7:
  multischema.file=/home/systest/install/tools/Aries/MSoracle
  .xml: No such file or directory

  /home/systest/apps/Aries/oracle/properties/sandbox.cfg:
  line 13: multischema.enabled=true: command not found

  /home/systest/apps/Aries/oracle/properties/sandbox.cfg:
  line 17: -J-Xmx1408m: command not found

  /home/systest/apps/Aries/oracle/properties/sandbox.cfg:
  line 54: multischema.version=8.5: command not found

  /home/systest/apps/Aries/oracle/properties/sandbox.cfg:
  line 58: Multi: command not found
  ```

**Solution / Workaround:** You can ignore these errors. However, other installation errors should not be ignored.

- **194741** - The dynamicclasspath.cfg.in, APPDynamicclasspath.cfg.in, and AGENTDynamicclasspath.cfg.in files contain hardcoded paths instead of using the INSTALL_DIR variable. As a result, if INSTALL_DIR is reconfigured and the setupfiles script is rerun, the .jar files in these .cfg.in files do not point to the correct installation directory.

  **Solution / Workaround:** After INSTALL_DIR is reconfigured and the setupfiles script is rerun, go to the dynamicclasspath.cfg, APPDynamicclasspath.cfg, and AGENTDynamicclasspath.cfg files. Search for the previously configured installation directory path and update it to point to the newly configured installation directory.

- **195466** - When the <INSTALL_DIR>/bin/deployer.sh (or .cmd) deployer script is run for the updateERD target on JDK 1.6x on Windows, the target fails with the following error:

  ```
  Failed to execute:  ALTER TABLE YFS_ITEM_ATTR_GROUP_TYPE
  DROP COLUMN IS_ADDTL_ATTR_ALLOWED
  com.microsoft.sqlserver.jdbc.SQLServerException: The object
  'DF__YFS_ITEM___IS_AD__3742B79C' is dependent on column
  'IS_ADDTL_ATTR_ALLOWED'.
  ```

  Because this command is run to get extended entities to the ERD diagram, this error affects only the extensions.

  **Solution / Workaround:** None.

- **195482** - On DB2 and Microsoft SQL Server databases, the yfs_addnl_index.sql script does not create an index for the YFS_Person_Info table.

  **Solution / Workaround:** Manually create an index on UPPER of the ZIP_CODE, LAST_NAME, and COUNTRY columns of the YFS_Person_Info table. However, the need to create this particular index depends on how the getPersonInfoList API is being used, so the index may or may not be required.

- **196756** - The `InstallSI.cmd` command throws a benign syntax error at the end of a successful installation on Windows.

  **Solution / Workaround:** You can ignore this error.

- **199785** - The installer goes into an infinite loop when the wrong `sqljdbc` jar file is used.

  **Solution / Workaround:** Kill the process and restart the installer.

- **201582** - In a silent installation on a DB2 database, the database views are not created if the user name of the database is different from the name of the schema.

  **Solution / Workaround:** Navigate to the <INSTALL_DIR>/database/db2/scripts/CustomDBViews directory, and manually run the SQLs available in the configuration, master, and transaction directories of the respective schemas.

- **201766** - When using WebSphere 6.1 and Internet Explorer 7, the System Management Administration console login.jsp URL may not open.

  **Solution / Workaround:** Add the following context parameters to the `web.xml` file of the `sma.war` in the `smcfs.ear`:

  ```
  <context-param>
  <param-name>scui-suppress-request-validation</param-name>
  <param-value>TRUE</param-value>
  </context-param>
  ```

  This context parameter disables data validation for requests coming from UI.

- **201069** - When building an EAR with web services on WebSphere 6.1, the system throws NoClassDefFoundError.

  **Solution / Workaround:** None.

- **202025** - You cannot deploy two EARs of 8.5 on one application server.

  **Solution / Workaround:** None.

## 2.3 Application Platform

You may encounter the following issues when using the APIs, user exits, time-triggered transactions (agents), and services for the Application Platform:

- **149194** - When running command-line utilities, you may see an error stating that the `performance.properties` file is not found.

  **Solution / Workaround:** You can ignore this error.

- **163793** - In Release 8.5, the Web service component of the Service Definition Framework works with WebLogic Version 9, but not with WebLogic Version 10.

  **Solution / Workaround:** None.

- **168085** - If caching is disabled on the YFS_RESOURCE and YFS_RESOURCE_PERMISSION tables containing more than 400,000 records and multiple users login into the application simultaneously, an out of memory (OOM) error may be displayed.

  **Solution / Workaround:** Set the JVM memory option (-Xmx) to 2GB or more to avoid out of memory errors.

- **190461** - When building Web services for Oracle WebLogic, the resulting `YIFWebService.wsdl` file (extracted from `smcfswebservices.war` in the WEB-INF folder) incorrectly specifies the binding for the service, YIFWebService as `http://<host>:<port>/smcfswebservice/smcfswebservice`.

  **Solution / Workaround:** Specify the correct URL for the service as follows:

  `http://<host>:<port>/smcfswebservices/smcfswebservices`

  The correct URL can be determined through the Oracle WebLogic console.

- **194918** - When the theme of the application is changed, pagination controls appear on the Detail screens and the controls do not work.

  **Solution / Workaround:** Pagination controls on the Detail screens are used to navigate across selected Detail screens and are not the same as list page pagination controls.

- **196454** - You may see references to Microsoft SQL Server in installers and throughout the documentation set. However, Microsoft SQL Server is not supported in Release 8.5.

  **Solution / Workaround:** None.

- **198994** - Condition properties that are saved to a dynamic condition do not appear in the dynamic condition when it is reopened.

  **Solution / Workaround:** When creating a new condition, save the condition before creating the condition property.

- **202599** - When running on DB2, the Person Info Purge agent may throw a SQL exception.

  **Solution / Workaround:** None.

- **203118** - When running on DB2, the Shipment Purge agent throws a SQL exception.

  **Solution / Workaround:** None.

## 2.4 Business Center

You may encounter the following issues when using the Business Center application:

- **179705 -** In Mozilla Firefox, the horizontal scroll bar is not displayed if you expand the columns in such a way that one or more of the columns are hidden. Additionally, the Description column does not get extended when the screen is viewed in a higher resolution.

  **Solution / Workaround:** None.

- **182535** - When a screen is viewed in a resolution smaller than 1024 X 768 pixels, scrolling does not work correctly.

  **Solution / Workaround:** None.

- **192766** – When multiple child categories are created for a parent category, the vertical scroll bar in the **Catalog Hierarchy** panel is not displayed, and the horizontal scroll bar that is displayed is hidden.

  **Solution / Workaround:** To view the scroll bars, press F11 on the keyboard.

- **197286** – The attribute values of a number attribute, which are displayed in a combo box, are not sorted in an ascending order.

  **Solution / Workaround:** None.

- **197464** – A check box in a grid cannot be selected by pressing the Space Bar key on the keyboard.

  **Solution / Workaround:** Select the check box manually.

- **199272** - In Microsoft Internet Explorer, the panels in a few screens may get extended and move out of the frame. Additionally, if a vertical scroll bar is displayed on a screen, the horizontal scroll bar may also be displayed even if it is not required.

  **Solution / Workaround:** None.

- **200586** - In the **Customer List** panel of the Customer Search dialog box, if the records span across multiple pages, and you click  to navigate to the next page, the list of customers displayed on the subsequent pages is always the same as that displayed on the first page.

  **Solution / Workaround:** None.

- **201648** - An error message is displayed if you enter a description containing more than 100 characters in the following boxes:

  - In the **Coupon Description** box in the Coupon Summary screen.
  - In the **Pricing Rule Description** box in the Pricing Rule Summary screen.
  - In the **Long Description** box in the Primary Information screen of an item.
  - In the **Long Description** box in the Add Asset dialog box.
  - In the **Long Description** box in the **Asset Detail** area of the Assets screen.

  **Solution / Workaround:** None.

- **220478** - Business Center does not support thousand separator specific to a locale.

  **Solution / Workaround:** None.

### 2.4.1 Pricing Administration

The following are the known issues when administering the Pricing module in Business Center:

- **199236** - In the Price List Summary screen of the master price list, the **View Dependent Price Lists** related task is not displayed when you perform these steps:

  1. Navigate to the Price List Summary screen of a dependent price list.

  2. Click the price list ID hyperlink of the master price list.

  **Solution/Workaround:** Navigate to the Price List Summary screen of the master price list by performing a search for the corresponding master price list in the Price List Search screen.

- **199834 -** Business Center may take time to display the price list details because getPricelistLineList API is taking too long to process on large databases.

  **Solution/Workaround:** Add a non-unique index on the PRICELIST_HDR_KEY column in the YPM_PRICELIST_LINE table.

- **200854** - In the Add Items to Price List screen, if you click either **Add All Items in Search Results** or **Add All Items in Category**, only the items displayed in the current page are added to the price list.

  **Solution/Workaround:** None.

- **201023** - If you are using Microsoft Internet Explorer, and you click **Show Price** in the Test Pricing screen, the **Line Charges/Discount Breakup** details are not displayed under the **Pricing Results** panel.

  **Solution/Workaround:** To view the **Line Charges/Discount Breakup** details, move the mouse pointer over any of the item rows under the **Pricing Results** panel.

- **201046** - While viewing the Price List Summary screen, an exception may be displayed if the server does not respond in time.

  **Solution/Workaround:** Reload the Price List Summary screen.

## 2.4.2 Item Administration

The following are the known issues when administering the Item module in Business Center:

- **188672** - If you search for items in order to assign them to a category, the search results contain items that have already been assigned to that category.

  **Solution / Workaround:** None.

- **191937** - In the Service Options screen, the **Remove** button is enabled even if a service option is not selected.

  **Solution / Workaround:** None.

- **197709** - Even if you associate the same business customer twice to a customer entitlement, an error message is not displayed.

  **Solution / Workaround:** None.

- **198078** - If you delete search indexes by date, a message asking for confirmation is displayed even if no search index older than the corresponding date is deleted.

  **Solution / Workaround:** None.

- **198096** - In the Item Variations screen, ***<Attribute ID>*** is not a mandatory field if you perform the following steps:

  1. Create an attribute and select the **Must have an assigned value on associated items** check box.
  2. Assign this attribute to a classification that has an item with variation associated to it.
  3. Assign the **Item With Variation** usage to the attribute.
  4. Click the **Manage Variation** related task to manage a child item pertaining to the item with variation.

     A row to define the attribute value for the child item is displayed. However, the attribute is not mandatory in the **Variations** panel even though the attribute has been defined as mandatory in the Attribute Management screen.

  **Solution / Workaround:** None.

- **198423** - In the Item Variations screen, if you modify the attribute value of a child item and click **Save**, the "Update Successful" message is not displayed.

  **Solution / Workaround:** None.

- **198510** - If the Enterprise ARchive (EAR) file that is used for the JBoss Application Server deployment is not precompiled, a blank page is displayed when either the **Manage Catalog** hyperlink is clicked from the home page or the **Manage Catalog** option is selected from the **Item** menu.

  **Solution / Workaround:** The EAR file should be precompiled for the JBoss Application Server deployment.

- **199078** - A subcatalog organization user can delete a category by clicking **Delete** in the **Category Details** panel even if the **Delete** button is disabled.

  **Solution / Workaround:** None.

- **199102** - In the Item Attributes screen, the following issues are encountered:

  - If you have not selected an attribute type from the **Manage Attribute of type** drop-down list (despite it not being mandatory), and click **Save**, "This field is required" message is displayed.
  - An attribute type is not selected by default even if there is at least one attribute type existing in the **Manage Attribute of type** drop-down list. You have to select an attribute type from the **Manage Attribute of type** drop-down list to view or modify the corresponding attributes for that type, which are applicable for that item.

  **Solution / Workaround**: Perform the following tasks:

  - Select an attribute type from the **Manage Attribute of type** drop-down list, perform a task such as assigning an attribute value to the item attribute, modifying the attribute value of the item attribute, and so on, and then click **Save**.
  - Select an attribute type manually from the M**anage Attribute of type** drop-down list.

- **199141** - A subcatalog organization user is able to localize the short description and long description of the category domain assigned to the subcatalog organization.

  **Solution / Workaround:** None.

- **199247** - After making modifications to a customer entitlement rule, if you navigate to a related task using the **Related Tasks** panel without clicking **Save**, the Unsaved Changes dialog box is not displayed.

  **Solution / Workaround:** Before navigating to a related task, click **Save**.

- **199886** - In the **Derived Attribute Value Ranges** panel, if you add a new range to a derived attribute and select the check box adjacent the newly added row to delete it immediately, the **Delete** button is disabled in the More Actions drop-down menu.

  **Solution / Workaround:** Clear the check box adjacent the row that you want to delete and select it again.

- **199961** - The **Create Attribute** related task is enabled during the creation of an attribute group.

  **Solution / Workaround:** None.

- **199968** - In the **Derived Attribute Value Ranges** panel, if you add a range to a derived attribute and select **Localize** from the **More Actions** drop-down menu without clicking **Save**, the Unsaved Changes dialog box is displayed. If you click **Yes** in the Unsaved Changes dialog box, the Localize dialog box is displayed with a runtime error message.

  **Solution / Workaround:** None.

- **200461** - During the process of creating an item as a user of a subcatalog organization, you can assign the item to a category even if your organization is not authorized to manage that category.

  **Solution / Workaround:** Do not assign an item to a category during the process of creating the item for a subcatalog organization. Instead, perform the following steps:

  1. Create an item.
  2. Navigate to the Catalog Management screen.

3. Select the category and assign the item to that category.

- **200463** - When a subcatalog organization is authorized to maintain a category, the ability to assign items is disabled for both the subcatalog organization and the catalog organization for this category. However, while the subcatalog organization can perform the related tasks pertaining to a catalog organization the catalog organization cannot perform the related tasks for this category.

  **Solution/Workaround**: The subcatalog organization can create a child category under the category that a subcatalog organization is authorized to maintain. The subcatalog organization can then assign items to this child category.

- **200464** - When you click a root node in a tree panel such as the **Catalog Hierarchy** panel before the screen is completely loaded, the root node is displayed twice in the corresponding tree panel.

  **Solution/Workaround:** Do not click a node in a tree panel before the screen is loaded completely.

- **200850** - In the Subcatalog Organizations screen, if you select a buyer or seller organization, which is not an enterprise organization, as a subcatalog organization, you cannot administer items and categories for the newly selected subcatalog organization.

  **Solution/Workaround**: None.

- **201316** - In the **Category Details** panel, the **Delete** button is disabled if the status of the category is Published with status code 3000.

  **Solution/Workaround**: To delete a category, modify the status of the category to Held (Unpublished).

- **202141** - When saving information on the Manage Entitlement Rule screen of Business Center, it is possible to navigate to a new screen before a confirmation is returned from the database. If this is performed, you may be warned that your changes will be discarded if you continue.

  **Solution/Workaround**: None. As soon as the request to save has been made, it is no longer possible to discard your changes.

- **200892** - In the Item Catalog Index List screen, in the **Index List** panel, search indexes generated for seller organizations other than the one that is being administered by you are also displayed.

  **Solution / Workaround:** None.

- **201651** - After a service is created with an effective end date, you cannot use a calendar to select a new effective end date beyond the original effective end date.

  **Solution / Workaround:** To modify the effective end date of a created service, enter the date manually in the **Effective End Date** box.

### 2.4.3 Customization

The following is the known issue when customizing the Business Center application:

- **199256** - If you extend the Create Price List screen using differential extensibility, the screen may turn blank after a control is added from the extensibility workbench.

  **Solution / Workaround:** To enable the correct display of the screen, resize the screen by clicking either the Maximize or Minimize button in the Web browser.

### 2.4.4 Localization

The following are the known issues when localizing the Business Center application:

- **198058** - If you make modifications to an item's details and then click the **Localize** related task without saving the modifications, the Unsaved Changes dialog box is displayed twice.

  **Solution / Workaround:** None.

- **198070** - If you do not save the modifications after modifying the localized value for a specific attribute, and click **Localize All Fields**, the Unsaved Changes dialog box is not displayed.

  **Solution / Workaround:** None.

- **218787** - When an error is thrown from an API call, the error message that is displayed in the user interface contains the term "ErrorUniqueExceptionId" in English.

  **Solution / Workaround:** None.

- **219124** - If you enter any data on a screen and try to navigate away from the screen without saving your changes for a user of a locale other than English, the Confirmation pop-up window displays the confirmation message partially in English along with the localized message.

  **Solution / Workaround:** None.

- **219332** - The "Item Variation Attributes" text in the Manage Classification Attribute Value screen is displayed in English irrespective of the locale of the logged-in user.

  **Solution / Workaround:** None.

- **219446** - The status of the pricing rule or coupon in the Pricing Rule Details panel of the Coupon Details screen is displayed as ACTIVE or INACTIVE in English irrespective of the locale of the logged-in user.

  **Solution / Workaround:** None.

- **219743** - The login screen displays the "Welcome to Business Center" message in English irrespective of the locale of the logged-in user.

  **Solution / Workaround:** None.

- **220492** - In a French locale, the header title of the Related Task section in the Create New Service screen wraps to the next line.

  **Solution / Workaround:** None.

- **220495** - If the network connectivity fails, a "Communication Failure" error message is displayed in English irrespective of the locale of the logged-in user.

  **Solution / Workaround:** None.

- **220536, 222095, 219118** - The Save button in the Manage Item screen is displayed in English. Also, the title of the Catalog Management screen is displayed in English as "Catlog managment" irrespective of the locale of the logged-in user.

In the "Classification Management" screen, the 'Available purposes' list displays Capacity in English irrespective of the locale of the logged-in user.

**Solution / Workaround:** None.

- **221004, 221003, 222066, 222049** - In French and German locales, the following user interface elements are truncated:
  - The Delete button in the Pricing Rule screen.
  - If you are using Internet Explorer, the Usage panel in the Manage Attribute assignement screen under Catalog Management.
  - The tool tip for the Quantity Tier column in the Manage Pricing List screen.

  The tool tip for the Price List ID column in the Pricing List Search screen for a dependant price list is displayed in English.

  **Solution / Workaround:** None.

## 2.5 Catalog Management

You may encounter the following issues when using the APIs, user exits, time-triggered transactions (agents), and services for the Catalog Management module:

- **197808** - In Business Center, categories can be in either a Held or Published status. However, category status is not considered during an index build. As a result, all the categories are displayed in the Web channel.

  **Solution / Workaround:** Mark all items in the category as Unpublished.

- **199191** - The recovery process for the Catalog Search Index Build agent does not work. When an error occurs during the index build process and the index trigger goes into error status, the Catalog Search Index Build agent cannot reprocess the search index trigger.

  **Solution / Workaround:** Create a new search index trigger.

- **200294** - When a catalog or subcatalog organization assigns an item of another subcatalog organization to its own category, and then assigns attributes and values to the same category, the item inherits the attribute values of that category when it should not.

  **Solution / Workaround:** If you assign the attributes and values to the category before calling the modifyCategoryItem API to assign the item, the item will not inherit the attribute values of that category.

- **201171** - When assigning attributes and attribute values to a category, the system may throw an error for child categories and items if the generated primary keys exceed 24 characters.

  **Solution / Workaround:** None.

## 2.6 Pricing Management

You may encounter the following issue when using the APIs, user exits, time-triggered transactions (agents), and services for the Pricing Service:

- **201079** - The copyPricelist throws an "ORA-12899: value too large for column" error when trying to copy price lines, and the managePricelistHeader throws an "ORA-12899: value too large for column" error when adding price list lines for the items in the catalog. The error is caused only when the length of the primary key exceeds 24 characters.

  **Solution / Workaround:** None.

## 2.7 Distributed Order Management, Supply Collaboration, and Reverse Logistics

You may encounter the following issues when using the APIs, user exits, time-triggered transactions (agents), and services for the Sterling Distributed Order Management, Supply Collaboration, or Reverse Logistics modules:

- **178365** - The getUserList API returns TotalNumberOfRecords=0, so this attribute should not be relied upon.

  **Solution / Workaround:** None.

- **180776** - When the following conditions are true, lines will be shipped in different shipments instead of a single shipment:
  - Optimization on number of shipments
  - Multiple lines with the same item
  - Inventory is available for the item at the same node, but on different dates

  **Solution / Workaround:** Use one line instead of several lines for an item.
- **182710 -** When a carrier is shared across colonies, carrier information is not visible when searching for carriers in different screens.

  **Solution / Workaround:** Create separate carriers for each colony.
- **189266** - When calling some APIs and invoking some user exits, you may see errors messages in logs as follows:

  ```
  YCPTemplateManager.getAPITemplate: Default template not
  found for getEspTerms [admin]: YCPTemplateManager
  YCPTemplateManager.getAPITemplate: Default template not
  found for listBaseConfigTaskDependency [admin]:
  YCPTemplateManager
  YCPTemplateManager.getAPITemplate: Default template not
  found for listOrgTheme [admin]: YCPTemplateManager
  YCPTemplateManager.getAPITemplate: Default template not
  found for listRegionMatchPref [admin]: YCPTemplateManager
  YCPTemplateManager.getAPITemplate: Default template not
  found for listRegionUsage [admin]: YCPTemplateManager
  ```

  **Solution / Workaround:** You can ignore these messages.
- **196034** - When an info invoice is created before the corresponding order is created, the createOrder API does not update the invoice with the appropriate order header key if Data Access Policies is enabled.

  **Solution / Workaround:** None.

- **196764** - When running the createOrder API and the changeOrder API in a multi-API call, taxes are not recalculated and the order total is incorrect.

  **Solution / Workaround:** Call the APIs sequentially, in separate transaction boundaries.

- **197030** - Excess records are created in the YFS_CHARGE_TRAN_RQ_MAP table if the payment method is suspended after a precharge is passed in an order, but a RequestAmount is not passed.

  **Solution / Workaround:** Pass a RequestAmount on the order's precharge in the Payment Details element.

- **197391** - When a reprocessable asynchronous service is run on two different integration servers at the same time, you may see Lock Timeout Detected exceptions for INTEROP_ERROR_DISPATCH in the log.

  **Solution / Workaround:** You can ignore this exception.

- **197796** - The getSurroundingnodeList API does not return the distance (DistanceFromShipToAddress) if the attribute country is not passed in the input XML. This needs to be documented in the Javadocs.

  **Solution / Workaround:** Pass the attribute country in the input XML.

- **198198** -When an approval hold is rejected in an order, the YFS_ORDER_HOLD_TYPE_LOG table is not updated with the ReasonText and the Status.

  **Solution / Workaround:** None.

- **198495** - When cancelling orders from the Return Order, Derived Order, and Chained Order list screens, the option to enter cancellation reason codes is not provided.

  **Solution / Workaround:** None.

- **199153** - When the createOrderInvoice API is called, a large number of "Default template not found" error messages appear in the log files.

  **Solution / Workaround:** To suppress these error messages, add a template as described in the YFSRecalculateHeaderTaxUE javadocs.

- **199681** - When more than one Person Info Record with the same region is inserted simultaneously, the database may throw an insertion error. This applies only when the Region Best Match functionality is turned on.

  **Solution / Workaround:** Reinvoke the API or agent at a later time.

- **200205 -** The Case-Insensitive Data Loader agent is not supported for YFS_PERSON_INFO and YFS_PERSON_INFO_H tables.

  **Solution / Workaround:** The getPersonInfoList API supports case-insensitive search for these entities. For more details, see the Javadocs.

- **200735** - In an order that has a bundle parent with one component out or ratio, the getPossibleSchedules API may not find inventory for a component line and return the error "CONFLICTING_ CONSTRAINTS."

  **Solution / Workaround:** None.

- **201333** - A Full Table Scan may occur on the YFS_CUSTOMER table. The response may be slow if the number of records in the table is very high (in hundred of thousands).

  **Solution / Workaround:** Indexes need to be created on the YFS_ CUSTOMER_CONTACT table. One index should be created on the YFS_CUSTOMER_CONTACT.CUSTOMER_KEY column. Another index should be created on the YFS_CUSTOMER_CONTACT.FIRST_NAME and YFS_CUSTOMER_CONTACT.LAST_NAME columns.

- **202144** - When the getItemListForOrdering API is called with Availability in the template and returns several bundle items, the API may take a long time to return the results.

  **Solution / Workaround:** None.

- **202446** - If you intend to implement a Data Mart, do not run the Order Release Status Purge agent before seeding the Data Mart, as some orders may not make it to the Data Mart and a few metrics could be calculated incorrectly.

  **Solution / Workaround:** Seed the Data Mart before running Order Release Status Purge.

## 2.8 Global Inventory Visibility

You may encounter the following issues when using the APIs, user exits, time-triggered transactions (agents), and services for the Sterling Global Inventory Visibility module:

- **148544** - Database duplicate record errors may be thrown if users try to load data directly into the YFS_INVENTORY_SUPPLY_TEMP table without using the loadInventoryMismatch API to load the temporary inventory supply information for global inventory visibility.

  **Solution / Workaround:** The ORGANIZATION_CODE, ITEM_ID, UOM, and PRODUCT_CLASS columns must be included as part of the YFS_INVENTORY_SUPPLY_TMP_I4 unique index (INV_SUP_TMP_I4 unique index for DB2).

  The following scripts can be used to re-create the index for Oracle and DB2. Note that there is no workaround for Microsoft SQL Server because there is a limitation that only 16 columns can be included in an index.

  **For Oracle:**

  ```
  DROP INDEX YFS_INVENTORY_SUPPLY_TMP_I4;

  CREATE UNIQUE INDEX YFS_INVENTORY_SUPPLY_TMP_I4 ON YFS_
  INVENTORY_SUPPLY_TEMP

  (INVENTORY_ITEM_KEY, INVENTORY_TAG_KEY, TAG_
  NUMBER,SHIPNODE_KEY, SUPPLY_TYPE, SEGMENT,SEGMENT_TYPE,ETA,
  SHIP_BY_DATE, SUPPLY_REFERENCE_TYPE, SUPPLY_REFERENCE,
  SUPPLY_LINE_REFERENCE, AVAILABILITY_TYPE, YANTRA_MESSAGE_
  GROUP_ID, ORGANIZATION_CODE, ITEM_ID, UOM, PRODUCT_CLASS);
  ```

  **For DB2:**

  ```
  DROP INDEX INV_SUP_TMP_I4;

  CREATE UNIQUE INDEX YFS_INV_SUP_TMP_I4 ON YFS_INVENTORY_
  SUPPLY_TEMP

  (INVENTORY_ITEM_KEY, INVENTORY_TAG_KEY, TAG_
  NUMBER,SHIPNODE_KEY, SUPPLY_TYPE, SEGMENT,SEGMENT_TYPE,ETA,
  SHIP_BY_DATE, SUPPLY_REFERENCE_TYPE, SUPPLY_REFERENCE,
  SUPPLY_LINE_REFERENCE, AVAILABILITY_TYPE, YANTRA_MESSAGE_
  GROUP_ID, ORGANIZATION_CODE, ITEM_ID, UOM, PRODUCT_CLASS);
  ```

- **201170** – When calling the syncLoadedInventory API with InsertInventoryItem set to "Y", the system may throw an error because the generated InventoryItemKey may exceed 24 characters.

  **Solution / Workaround:** None.

## 2.9 Delivery Management

In Release 8.5, there are no known issues for the Delivery Management module.

## 2.10 Receipt

In Release 8.5, there are no known issues for the Receipt module.

## 2.11 Value-Added Services

In Release 8.5, there are no known issues for the Value-Added Services module.

## 2.12 Sterling Warehouse Management System

You may encounter the following issues when using the Mobile Application of the Sterling Warehouse Management System modules:

- **162863** - In the Applications Manager, in the Group Details screen, the Warehouse Management Permission tab is displayed twice.

  **Solution / Workaround:** Modifying permissions in any one of the Warehouse Management Permission tabs, will reflect in the other tab also. So, the user can define the permissions in any one of the Warehouse Management Permission tabs.

- **192948** - When an enterprise user manifests a container belonging to a node of a different colony, the application does not default the manifest number in the Add To Manifest screen.

  **Solution / Workaround:** The manifest number is not displayed on the Add To Manifest HSDE screen. However, when the user clicks Add To Manifest button, the container will be added to the correct manifest.

- **194010** - An Invalid Shipment exception is thrown when starting a new receipt for a shipment that is in the Receipt Closed status.

  **Solution / Workaround:** Modify the inbound shipment pipeline so that the Included in Receipt transaction is allowed for the Receipt Closed transaction.

- **196530** - An OutOfMemoryError occurs when the createBatchForReferences API is invoked with a template in which the TaskReferences element is placed as a child to the Batch element.

  **Solution / Workaround:** Pass the TaskReferences element as a child element to the Task element (BatchList/Batch/Tasks/Task).

- **197616** - In the Resource Planning Details console, the table column header displays "$nbsp;" for the first column. The table column header must be blank. Also, this column must have the expandable or collapsable button to appear for the rows under it.

  **Solution / Workaround:** None.

- **198100** - When counting an existing LPN or a new LPN, a null pointer exception is thrown if a user skips the LPN scan in the Count Criteria screen, but scans the LPN in the Inventory screen.

  **Solution / Workaround:** Scan the LPN in the Count Criteria screen.

- **198192** - If two or more enterprises have the same capacity organization code and resource pools are configured for node, deployment using CDT fails when you deploy a node enterprise combination configuration with either of these enterprises.

  When the capacity organization is not shared between enterprises, deployment using CDT succeeds but resource pool configuration does not get deployed.

  **Solution / Workaround:** If the capacity organization of the enterprise referenced in CDT deployment is not shared by other enterprises, provide the capacity organization code along with the node and enterprise to deploy the configuration successfully.

- **198660** - The Documentation Library menu is not available under the Help menu for the following menus:
  - WMS Lite Node User Menu
  - WMS Node User Menu
  - YNW_ENTERPRISE_MENU
  - YNW_NODE_ENT_USER_MENU
  - YNW_SYSTEM_ADMIN_MENU
  - YNW_WMS_INVENTORY_SUPERVISOR_MENU
  - YNW_WMS_RECEIVING_SUPERVISOR_MENU
  - YNW_WMS_SHIPPING_SUPERVISOR_MENU
  - YNW_WMS_STATION_USER_MENU
  - YNW_WMS_SYSTEM_ADMIN_MENU
  - YNW_WMS_TASK_USER_MENU
  - YNW_WMS_WAREHOUSE_MANAGER_MENU

  **Solution / Workaround:** Perform the following steps to copy the Help menu from the default menu that is provided in the Menu Hierarchy window:

  1. Launch the Application Manager.
  2. Select Applications > Application Platform.
  3. From the application rules side panel, select Presentation > Menu in order to display the Menu Hierarchy window.
  4. In the Menu Hierarchy window, expand the default Sterling Selling and Fulfillment Console menu.
  5. Right-click the Help menu, select Copy To Custom Menu, and from the list that is displayed, select the menu that you want to copy the Help menu to.
  6. Click OK.

  The Help menu and the Documentation Library menu will be copied to the respective menu.

- **199042** - When a resource planning enabled node is copied, and if the copied node is deleted, the application throws a null pointer exception when deleting the original Node. This is because the copied node and the original node share a common Condition_Key in the YFS_PLANNED_TASK_COND table. If the copied node is deleted, the record for the Condition_Key is removed from the YFS_CONDITION table. Therefore, the application throws a null pointer when deleting the original node.

  In case of multiple copies of the original node, if any of the copied nodes is deleted, this error will occur when deleting the original node or the remaining copied nodes.

  **Solution / Workaround:** Before copying a resource planning enabled node, navigate to Applications > WMS > Resource Planning > Task Type Associations > Condition Task Type Association, and delete all condition sets. Perform copyNode operation, and then recreate these condition sets for both the nodes.

- **199222** - The application does not copy or delete the YFS_SERVICE_SLOT entries if the corresponding node is copied or deleted. However, the YFS_SERVICE_SLOT_GROUP entries are successfully copied or deleted if the corresponding node is copied or deleted.

  **Solution / Workaround:** In the context of a copied node, a user must manually configure the service slots when the service group gets copied.

- **199251** - Context-sensitive help is not working for the following screens:

  - Shipment Profile List
  - Define Standard Capacity
  - Resource Planning

  **Solution / Workaround:** None

- **199267** - Context-sensitive help is not working for the Print Wave screen.

  **Solution / Workaround:** None

- **199357** - When the UPCCaseCode is scanned in the PACK HSDE screen, the application does not default the quantity and perform pack automatically.

**Solution / Workaround:** Packing will be performed automatically when a user scans a SerialNo, UPCCaseCode, Item Alias (UPCCodeWithQtyDefault), or a 2D barcode instead of the ItemID, because these types of barcode provide information about the item quantity.

In order to use this functionality, the following barcode translation sources must be placed ahead of the barcode translation sources Location Inventory Item for the Barcode type Pack SKU Initiation:

- UPC Case Code
- SerialNo
- Item Alias UPC

- **199399** - Appendix B, "Menu-Level Customization of the Mobile Application" of the *Selling and Fulfillment Foundation: Mobile Application User Guide* is not available in the Local Documentation Library.

  **Solution / Workaround:** None

- **199567** - The ReceiptComplete Agent throws the "This operation cannot be processed in current task status" exception when the Putaway products on receipt are configured in the context of the RECEIPT_COMPLETE transaction. The same error is observed for the ReleaseWave agent. This is because the AllocateTask agent threads get stuck, causing these transactions to wait and finally throw the exception.

  **Solution / Workaround:** None

- **200694** - When an open move request exists for an LPN that contains serial-tracked items, invoking the getNodeInventory API for the target location does not provide the information about the serial-tracked items. You can view information about the serial-tracked items from the application console, but only for the source location or the LPN.

  **Solution / Workaround:** None.

- **201092** - The Wave Summary Console screen blanks out during a high concurrency scenario in a warehouse because the query on database times out.

  **Solution / Workaround:** None.

- **201547** - On releaseWave, when some outbound tasks already exist from the same source for the same item, multiple inventory records get created with different inventory statuses, one of which has blank inventory status. This will show incorrect pendout quantity in location inventory console.

  **Solution / Workaround:** None.

- **201574** - When the adjustment reason code has location preference (adjustment sequence of locations) associated to it, and one of the locations in the sequence does not have the inventory, negative adjustment causes inventory picture mismatch between the Warehouse Management System and the Order Management System because the Order Management System-side inventory picture gets updated wrongly. Inventory audits are also wrong.

  **Solution / Workaround:** None.

- **201745** - A node user cannot view the alerts pertaining to any other node even if the user has access to those nodes.

  **Solution / Workaround:** None.

- **202148** - Cart pick on mobile application fails intermittently with deadlock-detected error.

  **Solution / Workaround:** None.

- **202318** - Some of the picking users fail intermittently with the DB2 exception "Invalid operation: setCursorName() called when there are open ResultSet's on the Statement ERRORCODE=-4471, SQLSTATE=null". A PMR, 56336,756,000, has been logged with IBM.

  **Solution / Workaround:** None.

- **202429** - A specific query reported in this defect fetches too many records from the YFS_TASK table.

  **Solution / Workaround:** None.

- **202430** - A specific query reported in this defect fetches too many records from the YFS_ITEM table.

  **Solution / Workaround:** None.

- **202796** - When the new data access policy is enabled, manual count using RF across enterprises cannot be performed, and count request across enterprises cannot be created.

**Solution / Workaround:** Disable the new data access policy, or create a count request, or perform a manual count using RF for a specific enterprise instead of performing it across enterprises.

## 2.13 Business Intelligence

You may encounter the following issues when using Business Intelligence:

- **149389** - Some of the reports shipped in Release 8.5 may not perform well when run on DB2. We will be working with Cognos to resolve this.

  **Solution / Workaround:** None.

- **200907** - The performance of the Unshipped Orders Report may be unacceptable under load.

  **Solution / Workaround:** Test the performance of this report before using it during production.

- **202127** - If your user name is not the same as your schema, a report may not be able to find the appropriate table.

  **Solution / Workaround:** Perform the following steps:

  1. In Framework Manager, open the model provided in the <ANALYTICS_HOME>/Model directory.
  2. Edit the problem datasource and set the schema in the datasource here.
  3. Edit each problem query subject in the Database Layer without making changes and click OK. You can test the query subject to determine if there is a problem with it.
  4. Save the model.
  5. Remove the schema from the datasources. You may choose to test some of the problem query subjects to ensure that there are no issues with them.
  6. Publish the package and overwrite the existing one.
  7. Save the model.

## 2.14 Reference Utilities

You may encounter the following issues when using the Configuration Deployment Tool (CDT) utility and the dbverify tool:

- **181772** - When running the CDT to compare all databases, if you open another program over the CDT and move the CDT screen away, the CDT screen may not repaint and a null pointer exception is displayed in the command window.

  **Solution / Workaround:** This is a nonfatal error that can be ignored.

- **188373** - The CDT does not deploy the "shadow columns" used in case-insensitive searches when deploying data from an import XML file.

  **Solution / Workaround:** Use the YCPCaseInsensitiveDataLoaderAgent in the target system to populate the values.

- **191099** - The CDT timer on the status bar is not displaying correctly when it runs out of memory and resumes.

  **Solution / Workaround:** If an out-of-memory exception occurs, stop the CDT, increase the memory parameters, and restart the CDT.

- **196953** - After running CDT, abandoned records are not removed from the YFS_PIPELINE_DROP_STS_COND table (for ProcessType=PO_FULFILLMENT).

  **Solution / Workaround:** The abandoned records can be ignored.

- **199862** - The Configuration Data Versioning (CDV) tool may fail to deploy due to a foreign key constraints failure.

  **Solution / Workaround:** When deploying using the CDV tool, pass -DStrictFKchecks=false.

## 2.15 System Management Console / Application

You may encounter the following issues when using the System Management Console/Application:

- **200244** - The create db pool does not have a "schema" parameter exposed in the user interface.

  **Solution / Workaround:** Click the Add icon to add a parameter named schema.

- **201047** - If you enter special characters (such as a semicolon) in the System Management Application when adding a DB Pool parameters list, Internet Explorer displays Javascript errors.

  **Solution / Workaround:** Use the manageColony script in the <INSTALL_DIR>/bin directory.

- **221632** - In the Application Manager, under "Item Search" screen, when a user attempts to delete an item which is a part of a kit item, the following message is displayed in English:

  This operation cannot be completed because inventory exists for the item in the database.

  **Solution / Workaround:** None.

- **222871**- When a user self localizes an icon in the Application Manager without applying a language pack by updating the `smcfsicons.jar` icons jar to a locale-specific `smcfsicons_<language>_<country>.jar`, the icons are not displayed in the "Application Manager" screen.

  **Solution / Workaround:** The `STERLING.SF` and `STERLING.RSA` files must be removed from the `META-INF` directory inside the locale-specific `smcfsicons_<language>_<country>.jar`.

## 2.16 Third Party

In Release 8.5, there are no known issues in the Sterling Third Party module.

## 2.17 Internationalization and Localization

You may encounter the following issues when using the internationalization or localization features in the Selling and Fulfillment Foundation:

- **219114** - When searching for the configured Password Policies in the Application Manager as a user of a locale other than English, the Password Policy status is displayed as Enabled/Disabled in English.

  **Solution / Workaround:** None.

- **219288, 134119, 219564** - When the configuration screen for a pipeline is opened from the Application Manager, the "Returns Nodes" literal, "Owner" literal, and a few transaction names are displayed in English irrespective of the locale of the logged-in user.

  When a user navigates to Process Modelling > Order Fulfillment, actions such as Batching, RetrieveShipment, and so on are shown in English irrespective of the locale of the logged-in user.

  **Solution / Workaround:** None.

- **221456, 221457** - When a confirmation box is displayed in the System Management Application, the title of the confirmation box is displayed in English as "Confirm" irrespective of the locale of the logged-in user. Additionally, when a call is made to the server, a "Loading" text is displayed in English on the user interface.

  **Solution / Workaround:** None.

- **221902** - A user is not able to create a locale with variant from the Application Manager user interface.

  **Solution / Workaround:** None.

- **222170** - When installing multiple language packs by extracting the compressed files for each language, a prompt about overwriting the `duplicate-keys-map` file is displayed.

  **Solution / Workaround:** Click Yes to accept the prompt for overwriting the file.

## 2.18 Parcel Carrier Adapter

You may encounter the following issues when using the Sterling Pierbridge Integration feature:

- **183319** - HTTPS mode is unavailable for the Sterling ConnectShip Adaptor and the Sterling Pierbridge Adaptor in the current release.

  **Solution / Workaround:** Use the HTTP mode.

- **187832** - When integrating the Sterling Pierbridge Adaptor with a carrier for manifesting processes, if an incorrect shipping account number is configured, an "Carrier Integration Failed" error message with the "Error description not available" description is displayed.

  **Solution / Workaround:** Configure the correct shipping account number in the Parcel Carrier Preferences. Configure the machine details for the ConnectShip server (if using UPS, USPS, or Purolator carriers), and the FXRS server (if using FedEx carrier) on the AgileElite Shipment Server. Configure the carrier account and the corresponding security credentials correctly on the AgileElite Shipment Server.

## 2.19 Documentation

You may encounter the following issues when using the documentation:

- **128502 -** Support for SSL is not documented for WebLogic.

  **Solution / Workaround:** Perform the following steps:

  1. Install Sterling Selling and Fulfillment Suite.
  2. Install Cognos and create a datasource.
  3. Install Business Intelligence and deploy it to the Cognos server running the `ant -f installanalytics.xml` task. Copy the auth jar and property file using `ant -f installanalytics.xml copy.sscap-auth.jar` target.
  4. Enable the SSL mode on WebLogic. WebLogic provides an SSL security configuration that consists of private keys, certificates, keystore, and so forth. You can use this for development purposes, but do not use it in a production environment. For production environments, use the digital certificate from Certificate Authority.

5. Log in to the application with https protocol and click the Launch Report. A separate window opens with the Cognos reportnet URL, as defined in the yfs.properties file. You can view the reports in this window.

- **136517** - Information about configuring Proxy Server for SSL and HTTPS on IBM WebSphere and JBoss application server is not documented in the *Selling and Fulfillment Foundation: Installation Guide*.

  **Solution / Workaround:** Refer to the corresponding IBM and JBoss documentation set.

- **149596** - The *Selling and Fulfillment Foundation: Performance Management Guide* erroneously refers to the script <INSTALL_DIR>/database/oracle/scripts/yfs_tables.sql. This script does not exist.

  **Solution / Workaround:** After creating the tablespaces, you can create a set of DDL scripts using the `dbverify.sh` script and the -applyddl parameter set to false, as follows:

  ```
  dbverify.sh (or .cmd) -applyddl false
  ```

  This creates all the necessary CREATE TABLE and CREATE INDEX statements. You may then edit these scripts to map to your tablespaces.

- **192968** - The manageTeam API input Javadocs do not provide a description of the attributes for SubTeam element.

  **Solution / Workaround:** The attributes essentially have the same definition as described for the parent team under the <Team> element.

- **196454** - You may see references to Microsoft SQL Server in installers and throughout the documentation set. However, Microsoft SQL Server is not supported in Selling and Fulfillment Foundation, Release 8.5.

  **Solution / Workaround:** None.

- **197039** - The documentation does not provide performance data for Sterling Business Intelligence. This information will be added in a future release to Chapter 26: Performance Tuning Considerations for

Sterling Business Intelligence in the *Selling and Fulfillment Foundation: Performance Management Guide*.

**Solution / Workaround:** None.

- **198691** - The *Selling and Fulfillment Foundation: Performance Management Guide* should specify that precompiling JSPs as normal for each application server will precompile the JSPs for both the Console and the Business Center. No extra step is needed.

  **Solution / Workaround:** None.

- **199157** - Section 2.7, Creating and Modifying Custom Error Codes, of the *Selling and Fulfillment Foundation: Customizing the Swing Interface Guide* points the user to the <INSTALL_DIR>/xapidocs/code_examples/pwcrypt directory for a sample implementation of password validation user exits. The sample code shows an incorrect code prefix for failure reasons that are thrown by the password validation user exits. The prefix should be EXTN.

  **Solution / Workaround:** None.

- **199998 -** Context-sensitive help is not available for the following screens:
  - Inbound-Unreceive
  - Inspect Inbound Receipt
  - Inspect Return Receipt
  - Derive Labor Standards Console
  - User Timesheet Search
  - User Timesheet Console

  **Solution / Workaround:** None.

- **200365** - The *Selling and Fulfillment Foundation: System Manangement and Administration Guide* discusses how to add database pools and colonies, but is missing a cross reference to information about generating tables and views.

  **Solution / Workaround:** The *Selling and Fulfillment Foundation: Multitenant Enterprise Guide* explains how to generate tables, and the *Selling and Fulfillment Foundation: Installation Guide* explains how to run DBverify and generate views.

- **200620 -** Appendix A of the *Selling and Fulfillment Foundation: Application Platform Configuration Guide* requires the following edits:
  - Table A-5, Case Insensitive Data Loader Criteria Parameters: The description for the **Number of Records To Buffer** parameter should be replaced with the following:

    Optional: Number of records to retrieve and process at one time. If left blank, the default value is 5000.
  - Table A-188, PersonInfo Purge Criteria Parameters: In the description for the **Number of Records To Buffer** parameter, the first bullet should be replaced with the following:

    If left blank or the number specified is less than 10000, it defaults to 10000.
  - Table A-191, PersonInfo History Purge Criteria Parameters: In the description for the **Number of Records To Buffe**r parameter, the first bullet should be replaced with the following:

    If left blank or the number specified is less than 10000, it defaults to 10000.

  **Solution / Workaround:** None.
- **200776 -** Section 3.8, Enabling Case Insensitive Searches, in the *Selling and Fulfillment Foundation: Extending the Database Guide* requires the following edits:
  - In step 2, the first sentence should be replaced with the following:

    If the agent is being run in a production environment, specify the configuration mode for the entity or column in the `CaseInsensitiveSearch.Mode` property in the `customer_overrides.properties` file.
  - In step 3, "or column" should be removed from the first sentence and the note.
  - In step 5, a note needs to be added stating that this step can be skipped if step 2 is skipped.
  - In step 6, a note needs to be added informing the user to enable audit if it was disabled in step 3.

  **Solution / Workaround:** None.

- **201040 -** An error message is displayed if you try to view the *Selling and Fulfillment Foundation: Performance Management Guide* from the Online Library.

  **Solution / Workaround:** Open the *Selling and Fulfillment Foundation: Performance Management Guide* from your Local Library.

- **201443 / 201176** - The name "Item Concepts" has been changed to "Catalog Management Concepts" throughout the documentation. However, the Online Help continues to display the *Selling and Fulfillment Foundation: Item Concepts Guide* name.

  **Solution / Workaround:** None.

- **201571** - You will see that the document template differs between the documents in the Selling and Fulfillment Foundation, Release 8.5, documentation set. This is because we are in the process of migrating to a new template.

  **Solution / Workaround:** None.

- **201764** - The *Selling and Fulfillment Foundation: Extending the Database Guide* has three Chapter 4s.

  **Solution / Workaround:** This is simply a numbering problem; the chapters do contain correct content for chapters 4, 5, and 6.

- **201995** - The copyright notice is missing in the following two guides:

  - *Selling and Fulfillment Foundation: Customizing the Web UI Framework*
  - *Selling and Fulfillment Foundation: Localizing the Web UI Framework*

  **Solution / Workaround:** This release note serves as the copyright notice for these guides.

- **202006 -** Chapter 4, Reports for Sterling Analytics, of the *Selling and Fulfillment Foundation: Business Intelligence Guide* should specify that the following Selling and Fulfillment Foundation Cognos reports are processing-intensive and are not expected to run more than once per day. Collect timing on these reports and plan accordingly.

  - Backlog Summary Report
  - Business Volume Report

- Days of Supply Report
- Exception Aging Report
- Open Order Report
- Order Detail Report
- Returned Products Report
- Top 10 Products Report

**Solution / Workaround:** None.

- **202969** - The example in Section 22.1.2, Log Files, of the *Selling and Fulfillment Foundation: Performance Management Guide* shows an incorrect setting for LogFilePages. It should be 65535 instead of 65536.

  **Solution / Workaround:** The example should display LogFilePages=65535.

- **203270** - Table 2-3 of the *Selling and Fulfillment Foundation: Installation Guide* incorrectly indicates that Oracle RAC is supported on 3-node configurations. Oracle 10g and 11g RAC is supported only on 2-node configurations.

  **Solution / Workaround:** None.

# 3

# Deprecated and Deleted Components, Functionalities, and Reports

This chapter provides a list of components, functionalities, and reports that have been deprecated or deleted from the Selling and Fulfillment Foundation, Release 8.5.

## 3.1 Deprecated or Deleted Components

This section provides a list of components that have been either deprecated or deleted in Selling and Fulfillment Foundation, Release 8.5.

### 3.1.1 Deprecated Components

- For information about deprecated components, refer to the *Selling and Fulfillment Foundation: Upgrade Guide*.
- The DOM-DCS integration has been deprecated in Selling and Fulfillment Foundation, Release 8.5. For more information, refer to the *Selling and Fulfillment Foundation: Integration Guide*.

### 3.1.2 Deleted Components

For information about deleted components, refer to the *Selling and Fulfillment Foundation: Upgrade Guide*.

## 3.2 Deprecated or Deleted Functionalities

This section provides a list of functionalities that have been either deprecated or deleted.

### 3.2.1 Deprecated Functionalities

For information about deprecated functionalities, refer to the *Selling and Fulfillment Foundation: Upgrade Guide*.

### 3.2.2 Deleted Functionalities

No functionalities have been deleted in Selling and Fulfillment Foundation, Release 8.5.

## 3.3 Deprecated or Deleted Business Intelligence Reports

This section provides a list of Business Intelligence reports that have been either deprecated or deleted.

### 3.3.1 Deprecated Reports

The Exception Aging report and Order Details report are deprecated in Release 8.5.

For information about operational and analytical reporting capabilities using Business Intelligence, refer to the *Selling and Fulfillment Foundation: Business Intelligence Guide*.

### 3.3.2 Deleted Reports

No reports have been deleted in Selling and Fulfillment Foundation, Release 8.5.