Sterling Selling and Fulfillment Suite

Documentation Supplement

Release 9.0

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IBM

Contents

Chapter 1. Sterling Selling and Fulfillment Suite Documentation Supplement

The Sterling Selling and Fulfillment Suite Documentation Supplement captures documentation changes resulting due to the following:

- Fixes or changes in any of the 9.0 Sterling Selling and Fulfillment Suite applications.
- Fixes or updates to the any of the 9.0 Sterling Selling and Fulfillment Suite guides.

Complete documentation set for Sterling Selling and Fulfillment Suite 9.0 is available at http://www-01.ibm.com/support/docview.wss?uid=swg27023866

Chapter 2. Sterling Selling and Fullfillment Foundation

Customization Basics

Customizing web.xml for Session Timeout

The default session timeout value is 6000 seconds, which is the configured value of the user in the YFS_USER table. To override the session timeout value globally, configure two parameters in your web.xml file:

- A context parameter to allow the timeout value to be set from the file.

  Note: If this value is not set, the session timeout parameter is ignored.

- A session timeout parameter to set the numeric value.

To customize session timeouts

1. Edit your EARFILE/WARFILE/WEB-INF/web.xml file to add the context parameter scui-suppress-user-level-sessiontimeout-override. Set the value to y:

   ```
   <context-param>
       <param-name>scui-suppress-user-level-sessiontimeout-override</param-name>
       <param-value>y</param-value>
   </context-param>
   ```

   This allows the session timeout to be set from the timeout value.

2. Add an entry to web.xml to set the session timeout configuration parameter, in minutes:

   ```
   <session-config>
   <session-timeout><timeout_value_in_minutes></session-timeout>
   <session-config>
   ```

Chapter 3. Sterling Business Intelligence

This chapter provides information about the changes for Sterling Business Intelligence.

The following changes required for the Sterling Business Intelligence Implementation Guide as a result of mass reconciles in Sterling Business Intelligence 9.0 are captured in this documentation supplement. Updated procedures are provided in the appropriate sections.

- Procedure for configuring Staging Project is deleted.
- Procedure for setting up Sterling Staging Data Source project is deleted.

Configure IBM Sterling Business Intelligence

You can configure Sterling Business Intelligence to restrict the data that is loaded into the data warehouse from the online transaction processing (OLTP) system.

Prior to configuring Sterling Business Intelligence, ensure that you have performed all the steps mentioned in the *Sterling Business Intelligence: Installation Guide*. For details about setting up the Adaptive Warehouse Content, refer to the *Sterling Business Intelligence: Installation Guide*.

Configure the Data Mart Project

After setting up the Adaptive Warehouse Content, perform the following configurations to restrict the data that is loaded into the data mart schema.

Configure the Install Locale
Before you begin

To configure the install locale, perform the following tasks:

Procedure

1. Launch the IBM® Cognos® Adaptive Warehouse application.
2. Open Sterling Data Source project.
3. Click the Source tab.
4. Click Parameter Maps and select Locale Code Map.

   The Parameter Map Definition screen is displayed.
5. Change the values for the Country or Region and Language keys. By default, US and en are the values respectively for the Country or Region and Language keys. For example, if your base locale is ja_JP, the Country or Region and Language values must be changed to ja and JP respectively.
6. Click the Warehouse tab.
7. Click Save.

Define a Catalog
You must determine a catalog for analytical purpose. Only items belonging to this catalog will be considered for analysis.

About this task

Note: When an item belongs to multiple categories in a catalog, the item is displayed as a part of one category only.

To define a catalog, perform the following tasks:

Procedure

1. Launch the Cognos Adaptive Warehouse application.
2. Open Sterling Data Source project.
3. Click the Source tab.
4. Navigate to Source > Product Category Hierarchy source > Product Category Hierarchy Product Category Tree Input Source.
5. Double-click Category Domain Filter.
   The Filter Definition screen is displayed.
6. Click the Parameter tab.
7. Select the required catalog code from Category Domain Map.
8. Click OK.
9. Click the Warehouse tab.
10. Double-click the Product Category Hierarchy dimension.
11. Click the Dataflow tab.
12. For each dataflow, apply the category domain filter.
13. Click Save.

Define Hold Types for Order Hold Analysis
About this task

The model that is shipped along with Sterling Business Intelligence consists of all the hold types, including the system-specific hold types. You can exclude specific hold types and perform the analysis. To perform analysis based on specific hold types, perform the following tasks:

Procedure

1. Launch the Cognos Adaptive Warehouse application.
2. Open Sterling Data Source project.
3. Click the following folders sequentially: **Warehouse**, **Order Management**, **Sales Order**.
4. Double click **SO Hold**.
5. Click the **Dataflow** tab.
6. Double click **SO Hold Initial Load Input Source**.
7. Click the **Filters** tab.
8. Add a new filter and provide a list of hold types that have to be considered, for example,

   `[SO Hold SO Hold Initial Load Input Source].[SO Hold Initial Load Input Source].[Hold Type] in (`
9. Add the above Hold Type filter to the input query subject pertaining to **SO Hold** dataflow.
10. Click **Save**.

Define Credit Hold Types for Customer Rating
For customer rating, it is recommended that you consider only credit hold types.

Before you begin

To define credit hold types for customer rating:

Procedure

1. Launch the Cognos Adaptive Warehouse application.
2. Open Sterling Data Source project.
3. Click the Source tab.
4. Click Parameter Maps and select Credit Hold Type.
5. The Parameter Map Definition screen is displayed. In the **Value** field, enter the hold types considered for credit hold as the value of the **HOLD_TYPE** key. If there are more than one hold types, the hold types should be entered in the form of comma separated strings, for example,

   'Credit Hold Type', 'Credit Fraud Check'.
6. Click Save.

Modify Weights for Customer Rating
About this task

To modify weights for customer rating:

Procedure

1. Launch the Cognos Adaptive Warehouse application.
2. Open Sterling Data Source project.
3. Click the Source tab.
4. Click Parameter Maps and select Customer Rating Weightage.
5. In the Parameter Map Definition screen that is displayed, perform the following steps:
   a. Change the value of the Last Year Revenue Weightage key. By default, 0.6 is the value of this key.
   b. Change the value of the Lifetime Revenue Weightage key. By default, 0.4 is the value of this key.
   c. Change the value of the Current Credit Hold Revenue Weightage key. By default, 0.2 is the value of this key.
   d. Change the value of the Last Year Credit Hold Weightage key. By default, 0.05 is the value of this key.
6. Click Save.

Configure the IBM Sterling Business Intelligence Application

After setting up the Adaptive Warehouse Content, perform follow the additional configurations to restrict the data that is loaded into the staging schema.

Map Address to a Region
You must define a region schema for analytical purpose. This region schema is used to determine the region associated with the customer's address and to perform analysis based on regions.

About this task

To define a region schema for analytics purpose, perform the following tasks:

Procedure

1. Launch Application Manager.
2. From the Application Rules Side panel, select Analytics > Region Usage For Analytics.

   The Region Usage For Analytics window is displayed.
3. From the Schema for Analytics panel, select the region schema, you want to use for the data warehouse reports.
4. Click Save.

Convert Long Zip Code to Short Zip Code

Short zip code is used to obtain the best match region for a customer's address. It is a simplified format of an address' zip code. Short zip code regex expression defined for a country or region is used to convert long zip codes to a simplified format. You can also implement YCPGetShortZipCodeUE user exit to convert long zip code into short zip code.

If you have installed Sterling Selling and Fulfillment Foundation Release 9.1, in upgrade mode, you must follow the instructions provided in the section "Business Intelligence Enhancements: Best Match Region" in the . If you have installed Sterling Selling and Fulfillment Foundation, Release 9.1, in the nonupgrade mode, refer to the section "Update Best Match Region" in the *Sterling Selling and Fulfillment Foundation: Application Platform Configuration Guide*.

Configure Grades for Customer Rating

The grades for customer rating, defined in Applications Manager and stored in the YFS_CUSTOMER_GRADE table in Sterling Selling and Fulfillment Foundation, can be used by other applications. Sterling Business Intelligence imports this YFS_CUSTOMER_GRADE table from Sterling Selling and Fulfillment Foundation and maps the calculated customer's rating to the appropriate grade. For example, if a customer's rating is 1.2, the ETL looks for a grade in which the value of the grade_Code Minimum_Rating attribute is lesser than 1.2 and the value of Maximum_Rating attribute is greater than or equal to 1.2. For more information about configuring grades, refer to the *Sterling Selling and Fulfillment Foundation: Distributed Order Management Configuration Guide*.

Configure the Purge Criteria

Purge transactions determine when a record has to be purged, by determining the current date and subtracting the retention days specified in the purge criteria. If the timestamp on the table is less than or equal to the value of current days minus retention days, the record is purged.

You can define purge criteria rules for data purges not related to specific document types. Purge is the process by which old data is removed from the system database. A purge minimizes the number of unused database records to increase search efficiency and reduce the size of the required physical disk.

For more information about configuring a document's purge criteria, refer to the *Sterling Selling and Fulfillment Foundation: Distributed Order Management Configuration Guide*.

Order Timestamp Tag Purge

The Order Timestamp Tag (YFS_ORDER_TS_TAG) table maintains a record of each order and quote that is added or updated in the online transaction processing (OLTP) system. The ETL_TS column of this table is used as a Change Data Capture

filter for all the order-related and quote-related dataflows. Based on the data volumes, this table can grow rapidly. To avoid this, a purge agent is provided to purge the records that are older than the configured retention days. The records are purged only if the data has been loaded into the staging system.

Purge Criteria

The following table displays the purge rule for the Order Timestamp Tag Purge:

Rule	Description	Retention Days
SBIORDERTAGTS	Order Tag Timestamp Purge	7

Attributes

The following table displays the attributes for the Order Timestamp Tag Purge transaction:

Attribute
>   **Value**

Base Transaction ID
>   ORDER_TS_TAG_PRG

Agent Criteria ID
>   ORDERTSTAGPRG

Base Document Type
>   General

Base Process Type
>   General

Abstract Transaction
>   No

APIs Called
>   None

User Exits Called
>   YFSBeforePurgeUE

Criteria Parameters

The following table displays the criteria parameters for the Order Timestamp Tag Purge transaction:

Criteria Parameter
>   **Description**

Action
>   Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.

CollectPendingJobs

If this parameter is set to N, the agent does not collect information about the pending jobs for this monitor. This pending job information is used for monitoring the monitor in the System Management Console.

Number of Records To Buffer

Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.

EnterpriseCode

Optional. The organization for which the Alert Purge has to be run. If it is not passed, all the enterprises are monitored.

Live

Optional. Mode in which to run. Valid values are:

Y - Deletes qualifying records from the YFS_ORDER_TS_TAG table.

N - Determines the rows that are deleted from the YFS_ORDER_TS_TAG table.

PurgeCode

Required. Cannot be modified. Used for internal calculations, such as determining retention days.Corresponds with the PurgeCode used in Business Rules Purge Criteria. Purge code is SBIORDERTAGTS.

Statistics Tracked

None.

Events Raised

None.

Tables Purged

YFS_ORDER_TS_TAG.

Shipment Timestamp Tag Purge

The Shipment Timestamp Tag (YFS_SHIPMENT_TS_TAG) table maintains a record of the orders that are shipped. The ETL_TS column of this table is used as a CDC filter for all the shipment-related dataflows. Based on the data volumes, this table can grow rapidly.

Attributes

The following table displays the attributes for the Shipment Timestamp Tag Purge transaction:

Attribute
    Value

Base Transaction ID

    SHIPMENT_TS_TAG_PRG

Agent Criteria ID

    SHIPMENTTSTAGPRG

Base Document Type

General

Base Process Type

General

Abstract Transaction

No

APIs Called

None

User Exits Called

YFSBeforePurgeUE

Purge Criteria

The following table displays the purge rule for the Shipment Tag Timestamp Purge:

Rule	Description	Retention Days
SBISHIPMENTTAGTS	Shipment Tag Timestamp Purge	7

Criteria Parameters

The following table displays the criteria parameters for the Shipment Timestamp Tag Purge transaction:

Criteria Parameter
Description

Action

Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.

CollectPendingJobs

If this parameter is set to N, the agent does not collect information on the pending jobs for this monitor. This pending job information is used for monitoring the System Management Console.

Number of RecordsTo Buffer

Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.

EnterpriseCode

Optional. The organization for which the Alert Purge has to be run. If it is not passed, all the enterprises are monitored.

Live

Optional. Mode in which to run. Valid values are:

Y - Default value. Moves qualifying records from the regular tables listed under Tables Purged to the corresponding history tables.

N - Test mode. Determines the rows that are being purged without actually purging them.

PurgeCode

Required. Cannot be modified. Used for internal calculations, such as determining retention days. Corresponds with the PurgeCode used in Business Rules Purge Criteria. Purge Code is SBISHIPMENTTAGTS.

Statistics Tracked

None

Events Raised

None.

Tables Purged

YFS_SHIPMENT_TS_TAG

Opportunity Timestamp Tag Purge

The Opportunity Timestamp Tag (YFS_OPPORTUNITY_TS_TAG) table maintains a record of each opportunity that is added or updated in the online transaction processing (OLTP) system. The ETL_TS column of this table is used as a Change Data Capture filter for all the opportunity-related dataflows. Based on the data volumes, this table can grow rapidly. To avoid this, a purge agent is provided to purge the records that are older than the configured retention days. The records are purged only if the data has been loaded into the staging system.

Purge Criteria

The following table displays the purge rule for the Opportunity Timestamp Tag Purge:

Rule	Description	Retention Days
SBIOPPORTUNITYTAGTS	Opportunity Tag Timestamp Purge	7

Attributes

The following table displays the attributes for the Opportunity Timestamp Tag Purge transaction:

Attribute
    Value

Base Transaction ID

    OPPORTUNITY_TS_TAG_PRG

Agent Criteria ID

    OPPORTUNITYTSTAGPRG

Base Document Type

    General

Base Process Type

    General

Abstract Transaction

    No

APIs Called

> None

User Exits Called

> YFSBeforePurgeUE

Criteria Parameters

The following table displays the criteria parameters for the Opportunity Timestamp Tag Purge transaction:

Criteria Parameter
> **Description**

Action

> Required. Triggers the transaction. If left blank, it defaults to Get, the only valid value.

CollectPendingJobs

> If this parameter is set to N, the agent does not collect information about the pending jobs for this monitor. This pending job information is used for monitoring the monitor in the System Management Console.

Number of Records To Buffer

> Optional. Number of records to retrieve and process at one time. If left blank or specified as 0 (zero), it defaults to 5000.

EnterpriseCode

> Optional.

Live

> Optional. Mode in which to run. Valid values are:

> Y - Deletes qualifying records from the YFS_OPPORTUNITY_TS_TAG table.

> N - Determines the rows that are deleted from the YFS_OPPORTUNITY_TS_TAG table.

PurgeCode

> Required. Cannot be modified. Used for internal calculations, such as determining retention days.Corresponds with the PurgeCode used in Business Rules Purge Criteria. Purge code is SBIOPPORTUNITYTAGTS.

Statistics Tracked

None.

Events Raised

None.

Tables Purged

YFS_OPPORTUNITY_TS_TAG.

Chapter 4. Sterling Warehouse Management System

This chapter provides information about the changes for Sterling Warehouse Management System.

The changes required for the Sterling Warehouse Management User Guide are captured in this documentation supplement. Updated procedures are provided in the appropriate sections.

- The # Containers action is added to the Pack Details, Scan table.

Pack Details Screen

This screen enables you to pack cartons and/or pallets after picking the items. The inner pack quantity breakup for the selected item also displays. You can add or modify the inner pack quantity and the inner packs packaged into the container.

Note: To extend the Pack HSDE functionality in the Applications Manager, under HSDE_Pack (exuipack) in the application rules side panel, right-click Pack_Details resource, and select the Save As option. In the Resource Details: Pack Details dialog box that is displayed, enter a prefix in the Resource Prefix field, and click the **Save** icon. In the Resource Details: Pack Details window, in the Detail View panel, the following attribute is displayed in the Java™ Server Page field:

`exuipack_pack_container.jsp?AutoDetectInventoryAttributes=`

- If you set the value of this attribute to "N", in the Pack HSDE screen of the Console, a dialog box is displayed depending on the type of item you are packing. Enter the appropriate inventory attributes in the corresponding fields.
- If you set the value of this attribute to "Y", the inventory attributes are automatically copied based on the location inventory information available with the Sterling Warehouse Management System.

For more information about setting the attributes, refer to the information provided in the table, "Pack Details, Attributes."

Table 1. Pack Details, Scan

Actions	
Close Shipment	This action allows you to manually close the shipment after the packing process is complete. You can also press `Alt+S` to close the shipment.
Close Container	This action allows you to manually close the container after the packing process is complete. You can also press `Alt+C` to close the container.
# Containers	This action allows you to view the number of cases and pallets as suggested by the system. You can also press `Alt+T` to view and modify the number of containers based on your requirement. When you click the # Containers action, the Expected Containers In Shipment window is displayed. You can perform the following tasks: • Enter the expected number of cases. • Enter the expected number of pallets. • Click Save to save the changes. • Click Close to close the window.

Table 1. Pack Details, Scan (continued)

Weigh	This action enables you to enter the actual weight of the container. You can also press Alt+W to record the container's weight.
Fields	
Location	Select the pack location. The pack station uniquely identifies devices including printers and weighing scales that are attached.
Scan Identifier	Enter or scan the container SCM, shipment number, batch number, LPN identifier, serial number, or item identifier. In the Instructions panel, shipment or container level instructions displays. For more information, see the Instructions table. In situations where containerization is performed by the system during wave release, scanning of the container SCM identifies the shipment. During post-pick containerization, the shipment number and the container SCM identifying the container must be scanned. The information entered above is used to populate the Items panel to indicate item and quantities to be packed into the container.
New Case	Click this button to generate a new container SCM for the case, if applicable.
New Pallet	Click this button to generate a new container SCM for the pallet, if applicable.

Table 2. Pack Details, Products

Fields	
SKU	Enter or scan barcode that identifies the item to be packed into the container for the shipment. In the Instructions panel, item level instructions displays. For more information, see the Instructions table. The "Last Scanned Item Id" field populates with the item ID.
Scan Quantity	The item quantity scanned during the pack process is automatically populated by the system.
UOM	Select the appropriate item's unit of measure, if applicable. This value is automatically populated when UPC code, UPC Case Code, case with LPN is scanned in the SKU field.
Add Quantity	Enter the quantity to add to the container, if applicable. In the SKU field, when you scan the UPC Code, UPC Case Code or a case LPN, the system automatically populates the "Add Quantity" value, which is editable.
Inventory Status	Select the appropriate inventory status.
Remove Quantity	Enter the quantity to remove from the container. This field is used to correct errors, if any, during the packing process.
Last Scanned Item Id	The item's Id that was last packed is automatically populated.

Table 2. Pack Details, Products (continued)

Fields	
UOM	The item's unit of measure corresponding to the item Id is automatically populated.
Quantity	The item quantity that was last packed is automatically populated.

Table 3. Pack Details, Container Properties

Actions	
View Details	This action takes you to the Container Details screen where you can view the inner pack details.
Unpack Container	This action takes you to the Container Contents screen where you can remove contents for the selected item from the shipment container.
Fields	
Shipment #	The shipment number is automatically populated by the system from the values scanned into the scan identifier field.
Container #	The container number is automatically populated by the system from the values scanned into the scan identifier field. This number uniquely identifies a container in a warehouse. Typically, this is different from the SCM number.
Enterprise	The enterprise associated with the shipment.
Ship Mode	The shipment mode for the shipment. Values include 'LTL', 'TL', 'PARCEL'
Container SCM	The container SCM is automatically populated by the system from the values scanned into the scan identifier field. SCM is an industry standard which identifies the container and the enterprise.
Container Size	Select the size to be associated with the container. This value is automatically populated, if containerization is performed by the system
Computed Weight	The computed weight is automatically populated by the system, if containerization is performed by the system.
Actual Weight	Click on the Weigh button or press Alt+W to capture the actual weight of the container. Select the unit of measure from the list.

Table 4. Pack Details, Items

Fields	
Show Items Containing	Enter search criteria to search for specific items, if applicable.
Item ID	The item to be packaged in the container.
Description	The item description.
Product Class	The product class of the line item packaged in the container.
UOM	The unit of measure of the line item packaged in the container.
Inventory Status	The item quantity that is currently available.

Table 4. Pack Details, Items (continued)

Fields	
Quantity To Pack	The quantity to be packed into the container.
Pack Quantity	Enter the actual quantity that can be packed into the container.
Requested Tag	The item's tag details, such as lot number or batch number associated with the tag displays. You can view the tag details only if the node that is performing the pack operations is configured to capture the tag attributes in all operations performed within the node, or if the buyer on the shipment mandates it as a part of the inbound compliance. For more information about capturing the tag attributes, see the *Sterling Selling and Fulfillment Foundation: Application Platform Configuration Guide*.

Table 5. Instructions

This panel displays the shipment, container, or item level instructions.

Table 6. Packing Notes

Actions	
Delete	This action allows you to delete selected packing notes that you captured during the packing process.
Fields	
Notes	Displays additional notes being captured during the packing process.

Table 7. Container Routing Information

Fields	
Activity	The next activity associated with the container packed is automatically populated by the system. For example, special packaging done for the container as a VAS activity.
Description	The activity description is automatically populated by the system.

Table 8. Pack Details, Barcode Types

Fields	
Scan Identifier	Pack Scan Initiation
SKU	Pack SKU Initiation

Table 9. Pack Details, Attributes

AutoDetectInventory Attributes	Behavior
Y	Inventory attributes will be automatically copied based on the location inventory information available with the Sterling Warehouse Management System.
N	Inventory attributes must be entered during packing.

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