TIBCO® MDM Add-on for Global Data Synchronization

User's Guide

Version 3.0.3
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Contents

TIBCO Documentation and Support Services

How to Access TIBCO Documentation

Documentation for TIBCO products is available on the TIBCO Product Documentation website, mainly in HTML and PDF formats.

The TIBCO Product Documentation website is updated frequently and is more current than any other documentation included with the product. To access the latest documentation, visit https://docs.tibco.com.

Product-Specific Documentation

The following documentation for TIBCO® MDM Add-on for Global Data Synchronization is available at TIBCO® MDM Add-on for Global Data Synchronization Product Documentation page:

- TIBCO® MDM Add-on for Global Data Synchronization *Release Notes*

- TIBCO® MDM Add-on for Global Data Synchronization *Installation*

- TIBCO® MDM Add-on for Global Data Synchronization *User's Guide*

To access documentation for this product, go to the following location:

TIBCO_HOME/release_notes/TIB_cim-gdsn_3.0.3_docinfo.html

Here, *TIBCO_HOME* is the top-level directory in which TIBCO products are installed. On Windows, the default *TIBCO_HOME* is C:\tibco. On UNIX systems, the default *TIBCO_HOME* is /opt/tibco.

How to Contact TIBCO Support

You can contact TIBCO Support in the following ways:

- For an overview of TIBCO Support, visit http://www.tibco.com/services/support.

- For accessing the Support Knowledge Base and getting personalized content about products you are interested in, visit the TIBCO Support portal at https://support.tibco.com.

- For creating a Support case, you must have a valid maintenance or support contract with TIBCO. You also need a user name and password to log in to

https://support.tibco.com. If you do not have a user name, you can request one by clicking Register on the website.

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Global Data Synchronization Network Overview

The Global Data Synchronization Network (GDSN) was created as an industry endorsed initiative to overcome product data inaccuracies and increase efficiency among trading partners and their supply chains. GDSN is a web based, interconnected network of interoperable data pools and a global registry.

With GDSN you can capture and exchange product information in a secure environment conforming to global standards. By using GDSN you can assure that data exchanged between trading partners is accurate and compliant with universally supported standards.

GDSN consists of supplier and retailer trading partner, data pools that hold and process trading partner data and the GS1 Global Registry. A directory that helps locate data sources and keep relationships between trading partners in sync.

With GDSN, trading partners always have the latest information in their systems. Any changes made to one company's database are automatically and immediately provided to all of the other companies who do business with them.

With accurate and updated data, a supplier and a customer can do business in a smoother, quicker, and less expensive way.

Terminology Differences in the GDSN Edition

There are some differences between GDSN and MDM software editions. The default edition is MDM.

Terminology Differences in GDSN

GDSN Name	MDM Name
Repository	Repository
Synchronize	Synchronize
Trading Partner	Backend System
Record	Record

GDSN Name	MDM Name
Datapool	Integration Hub

GDSN Specific Configuration Properties

The following configuration properties are specific to GDSN:

GDSN Specific Configuration Properties

Property	Configuration Outline	Value	Description
Plugins	Advanced	GDSN	List of Plugins installed. For example, GDSN.
Software Edition >Application Usage Profile	Basic	GDSN	Defines whether the application is used for data synchronization (GDSN) or master data management (MDM)
Software Edition > Common Menus Configuration	Advanced	config/security/ allmenu.xml	The configuration file location for common menus (navigation bar)
Function > Enable Market Place	Advanced	True	Marketplace related menus is visible.
Function > Company Profile	Advanced	True	Company Profile menu is visible.
Integration Setup - External > Connector Rulebase	Advanced	standard/rulebase/ rbconnectorprotocol derivation_gdsn.xml	The rulebase to identify the protocol (for example, CIM2CIM, 1WorldSync)
Integration	Advanced	standard/rulebase/	Sync status derivation,

Property	Configuration Outline	Value	Description
Setup - External > Sync Status Rulebase		rbsyncstatus updatederivation.xml	used to identify operation and suboperation.
Integration Setup - External > Synchronization Format Specific Attributes File	Advanced	rbformatattributes_ gdsn.xml	The name of the rulebase file used to customize format specific attributes on the Synchronization profile View and Edit page.
Rule Base->Send Message Screen Rulebase File	Advanced	rbsendmessage_ gdsn.xml	The name of the rulebase file used to customize record attribute display on the SendMessage page
Integration Setup - External -->Work Item Description Rulebase File	Advanced	rbworkitemdescription_ gdsn.xml	The name of the rulebase file to customize work item messages

GDSN Specific Roles

You can access the **Roles** page by clicking **Administration** > **Roles**. It displays all available Roles and descriptions.

In addition to the standard MDM roles, the following roles are GDSN specific and visible only in the GDSN edition of MDM:

Channel Manager

Is a user responsible for business activity in a particular sales channel. Typically responsible for relationships with Datapools or a set of buying organizations.

Sales Rep

Is a member of the supplier sales organization who acts upon current items in the Inbox that pertains to their area. Sales Rep is not created for the MDM edition. If it existed

already, it is not deleted during migration.

GDSN Predefined Components

For GDSN, a set of predefined components such as maps, rulebases, workflows, and templates are shipped with the application.

All these components are located in relevant folders under `$MQ_HOME/plugins/gdsn/<version>/common/standard`

For details, see GDSN Predefined Components.

GDSN Menu Options and Pages

GDSN-specific options (that are not displayed in the standard MDM version) in the menus and pages in TIBCO MDM.

- Datapool Profiles in the Administration Menu

- All Company Profiles Page

- My Company Profiles Page

- Datapool Profiles Page

- Trading Partner Profiles Page

- View Repository Page

- Message Acknowledgments

- Inbox UI

- Event Log Search

- Customizing Workitem Descriptions

GDSN Specific Menu Items

Some menu items are available specific to GDSN version of MDM.

Datapool Profiles in the Administration Menu

The **Administration** menu includes a **Datapool Profiles** option that is specific to the GDSN version of MDM.

A *Datapool Profile* defines an electronic sales channel, datapool, or hub - where backend systems can exchange goods. Datapool Profiles and credentials are used to establish new datapools and manage the datapool activities.

A Datapool Profile correlates to a workflow associated with the datapool and you can subscribe or unsubscribe a Datapool as required. Datapool credentials are provided automatically; however, you can define additional credentials. For more details, see Datapool Profiles Page.

GDSN Specific Pages

Some pages are available specific to the GDSN version of TIBCO MDM. Also, a few menu names are also changed. For example, the Master Data menu name is changed to Item Data in the GDSN version.

All Company Profiles Page

The **All Company Profiles** page is accessed by clicking **Administration** > **All Company Profiles** > **Create** and is used by super users to create enterprises.

You can specify the **Name**, and **Internal Name** for the enterprise, the **Industry Vertical,** and the **Type**. The **Type** list contains **Supplier**, **Retailer**, and **Datapool** as options.

My Company Profiles Page

You can access the Company Profile page by clicking **Administration > My Company Profile** and displays the profile of the company that you have logged into.

This page consists of contact information and credentials for your company. The purpose of company credentials is to enable your organization to communicate with a datapool.

The following information is GDSN-specific:

Extended Credentials

Each credential can be supplemented with additional information known as extended credentials.

To create extended credentials, click the **Credentials** link in the **Datapool** section of the Company Profile page.

This data is used for authentication when communicating with the datapool. To define an extended credential, first define a basic credential.

Extended credentials are unique across enterprises. These constraints are implemented using predefined seed data and cannot be changed using the UI.

The following constraints apply to datapools:

- Basic credentials must be unique in an organization.

- Only one GLN per enterprise

To create extended credentials, click **Administration** > **MyCompany Profile** > and then click **Credentials** in the **Datapool** section. Click **Create**.

Create Credential

Company Name	supp6
Domain	GLN ▼
Identity	0040885037340 ▼
Batch User ID	
User ID	admin
Password	••••••••
Synchronize With Global Registry	☑

Save   **Cancel**

Enter the required details and click **Save**.

Datapool

The page displays the datapool the company is subscribed to. A "Not subscribed to any Datapool" message indicates that no datapool subscriptions have been made for the company.

You can subscribe to a datapool by clicking **Datapool Profiles** (see Datapool Profiles Screen). This opens the Datapool Profiles page that displays all the datapools supported by TIBCO MDM. Click **Subscribe** to subscribe to that datapool. Only datapools that the

company is subscribed to are available for participation by the backend system.

Datapool Profiles Page

This is the first page you see when you click **Administration** > **Datapool Profiles**. It displays all datapools that you can subscribe to and are supported by TIBCO MDM.

Datapool	Status	Actions
1SyncTest	Subscribed	Modify Unsubscribe
1Sync	Unsubscribed	Modify Subscribe
SA2	Unsubscribed	Modify Subscribe

View: All

Page 1 of 1   20 ▼   View 1 - 3 of 3

Use this page for the following activities:

- **Modify Datapool Profiles**To modify a datapool profile, click M**odify** in the Actions column. The Datapool Profiles - Synchronization Formats page is displayed. On this page you can:

    - **Modify supported synchronization formats**. TIBCO MDM supports formats specific to datapools, and default formats can be set for each datapool. If custom formats are required, they can be created using synchronization formats.

    - **Create Credentials**. A Datapool credential uniquely identifies a datapool or backend system within a datapool. This establishes message origination and destination for that backend system. For example, a supplier wants to do business with a backend system through a datapool such as 1WorldSync. the datapool provides User IDs and Passwords or credentials to both the supplier and backend system, and identifies itself to both using its own password and credentials.

- Subscribe or Unsubscribe to DatapoolsClick the Subscribe or Unsubscibe button in the Actions column.

- **Filter Datapools** By default, all datapools are displayed. They can be sorted based

on subscription from the **View** drop-down list.

There are two forms of Datapool profiles. The most common form is when a company wants to communicate with a Datapool. In this case, the only data elements visible are:

- Subscribe to this Datapool.

- Define any integration URL, if applicable.

- Define credentials. Here, the credentials of the Datapool are defined (and not the company as company credentials are defined in the Company Profile).

- Some preexisting credentials are displayed as read only. These credentials are global and can only be modified by a super user.

A supplier organization Datapool Profile consists of:

- Documents for communication - such as Item Add, or Item Publish.

- A document format - such as EANUCC, XML, 1WorldSync, and so on.

Trading Partner Profiles Page

You can access the page by clicking **Administration > Trading Partner Profiles**, and then clicking **Create**.

Using this page, you can create a new trading partner profile for your company. Two ways to exchange data with a trading partner are:

- Publish data to the Datapool from where the data gets synchronized with the trading partner.

- Deliver the data to the trading partner directly through FTP or email.

The **Datapool** option in this page is GDSN-specific. Select to subscribe.

When you view a trading partner profile, if not subscribed to any datapools, you see the message "Not subscribed to any datapools" in the **Datapool Participation** section.

View Repository Page

The View Repository page displays the content of a selected repository and you can access by clicking **Item Data > Repositories**. The following information is GDSN-specific:

Selected Predefined Classification Schemes

Classification schemes that are provided with the application by default are referred to as predefined classification schemes and are listed here. The schemes listed here are those selected at the time of creating the repository.

You can click the Classification Scheme name to view details; this displays the Classification Scheme Modify page. On this page, click **Show Usage** to view the Classification Scheme Usage.

Message Acknowledgments

When a message is sent from a Supplier to a Retailer, the retailer can send an acknowledgment for the message using the Send Response utility.

Enabling Message Acknowledgments

By default, message acknowledgments are not enabled. You need to enable permissions for a user to send a response.

Procedure

1. Go to **Administration > Resource Security.**

2. From the list, select **Resource Type** as **Repository** and **Resources** as <name of Repository>. Click **Show Permissions**. The **Manage Resource Security for Repositories** page is displayed.

3. On the **Manage Resource Security for Repositories** page, select **Resource Type** as **Record** and click the **Add Grantee** button.

4. You can assign a user or a role as grantee. Select the grantee and click **OK**.

5. A list of permissions is displayed in the **Permission Name** column.Click **Allow** against **Allow action - Send Response** permission and click **Save**.

Sending Message Acknowledgments

You can send a record as a response.

> 🚫 The **Send Response** option is not available in the 3.0.3 release.

Procedure
1. Click **Browse and Search**.

2. From the **Repository Name** list, select the name of the repository.

3. Click **View All**.
   A list of records is displayed.

4. Click the record ID of a record.

5. On the **View Record** page, select **Send Response**.

6. On the Send Response page, you can set the following options:

```
Send Response


Record ID                    testwwreadd0-00600000002914
Record ID Extension          testwwreadd-00600000002914-ext
SHORTDESC                    Item-add-BASE_UNIT_OR_EACH
Datapool Name                SA2
Trading Partner Name         DS-0040885021622
Current Record State         PUBLISHED
Action                       ○ REVIEW ○ ACCEPTED ○ SYNCHRONISED ○ REJECTED
Retailer Credential          GLN - 0040885022629 ▼


   [ Submit ]      [ Cancel ]
```

- Action: Select Review, Received, Synchronised, or Rejected.

- Retailer Credential: Select the retailer credential from the drop-down list.

7. Click **Submit**.

8. On the **View Record** page, click **Ok**.
   The acknowledgment is sent to the Supplier.

Inbox UI

You can access the page by clicking **Inbox** on the main menu. The Inbox shows a list of tasks or work items assigned or delegated based on the configured business process rule. The Inbox content is influenced by your Role. Work items are classified as notification (no action required) or action (action required).

You can search for items (by clicking the **Search** button) based on criteria such as:

- **State**: View work items by state - All, Canceled, Closed, Open, or Timed out work items.

- **Type**: Filter work items by type - All, Action Items, Notifications.

- **Document Type**: Filter work items by Document Type such as All, Mass Update, Record Content Notification, Record Edit, or Synchronization.

- **Action**: Filter work items by the Action performed, such as Data Change, Data Correction, MassUpdate, Record Add, Record Add Notification, and Synchronization.

- **Trading Partner**: Filter work items by trading partner.

- **Event ID**: Filter work items by entering the exact event ID.

- **From Date**/**To Date**: Filter work items created within a certain date range. It is not mandatory to specify both the start and end dates of a period that you are tracking. You can specify either of them.

- **Repository**: Filter work items by repository. It displays the list of repositories to which you have access (at least LIST access). Work items can be searched for a specific repository. To remove a filter the search needs to be cleared.

- **Record Attribute**: Filter work items based on the values of Record Attributes. For example, to search SecurityID - 00049822430355; you can either enter the complete SecurityID or enter a partial value (00049822) to get the work item.

- **Sort by Record Attribute**: Sort work items based on record attribute. Select the record attribute from the drop-down list. If you want to sort the list in the descending order of the record attribute, select the Descending check box.

- **Datapool**: Filter work items by datapool.

- **Show Action Items First**: If selected, displays action items followed by notifications.

- **Search/Sort**: Enter your search criteria and click Search/Sort to generate a list of work items matching your criteria. If you want to change the search criteria, click Clear to reset the criteria.

- **Clear**: Clears the search

- **Configure**: To configure the columns displayed in the table.

Event Log Search

You can access this page by clicking **Event Log** in the main menu and then click the **Search** option.

The Event Log page shows a list of all events in the system. You can click **Search** to search for events based on criteria such as:

- Event Status

- Event Type

- Event ID

- User ID

- Operation

- Trading Partner

- Datapool

- Event Start Date

- Event End Date

- Record ID

- RecordID Ext.

GDSN Customization

Customizing Workitem Descriptions

You can include hyperlinks to objects such as Repositories, Catalogs, Trading Partners, and so on in your workitem description. You can include only one hyperlink per object in a message by including the relevant token in the description.

For details on tokens that can be used, refer to chapter Customizing Workitem Descriptions in the *TIBCO MDM Customization Guide* .

GDSN Specific Information

For the $Catalog$ token that is used to create a hyperlink with a catalog, the name of the catalog appears in place of the token, hyperlinked to the latest version of the catalog. However, there are some exceptions applicable to the GDSN version:

- Catalogue Item Notification (CIN) message notifications received by retailers

- Catalog Item Confirmation (CIC) received by suppliers, which were not sent to the retailers using the catalog

Synchronization

The application has some GDSN-specific information in synchronization profiles and formats in TIBCO MDM.

- Synchronization Profiles

- GDSN Specific Synchronization Formats

- Using Custom Synchronization Formats

- Updating Synchronization Status

Synchronization Profiles

Synchronization Profiles provide a way of extracting information from repositories.

As part of the Synchronization Profile definition, you can choose records and attributes to be extracted, record versions, whether to apply transformation rules, and where to send the extracted data. Synchronization Profiles once created can be reused to extract data.

You can view the Synchronization Profile by clicking **Item Data > Synchronization Profiles**. Details for all available synchronization profiles can be viewed here, with related information in specific columns such as the Repository, Synchronization Format, Delivery, and so on.

Creating Synchronization Profiles

Procedure

1. Click **Item Data > Synchronization Profiles.**

2. Then click Create on the Synchronization Profiles page.

   > **ⓘ** **Note:** When creating a Synchronization Profile, some options are GDSN-specific.

Delivery

In the Delivery section of the **Create Synchronization Profile** page, you can select the entity to deliver records to. The following entities are GDSN-specific:

Delivery

Deliver To	○Trading Partner ◉Datapool ○Trading partner on datapool
Datapool	1SyncTest ▼
Output Map	1SYNC ▼
Delivery Mechanism	◉Local ○FTP ○E-mail
Destination Address	

- **Datapool**

  Datapool is the central repository. When you select **Datapool**, and click **Synchronize**, the system sends the data as a message to the Datapool. The message is sent in the XML format and the system requires an acknowledgment from the Datapool. You need to provide the name of the Datapool, the output map, and the delivery mechanism.

- **Trading Partner on Datapool**

  When you select this option, and click **Synchronize**, the message is sent to only those trading partners who are subscribed to the Datapool. The trading partner should have a valid GLN account with the Datapool. You can select multiple trading partners in this option. You need to specify both the Datapool and trading partners subscribed to the Datapool. You also need to specify the Output Map format and the delivery mechanism.

Format Specific Attributes

Format Specific Attributes vary based on where you want to deliver the records.

If **Datapool** is selected in the **Delivery** group, the following is displayed:

- **Operation**: You can select from the following operations:

- **Add**: Adds the record to the Datapool.

- **Data Correction**: If there is a discrepancy in the published record, you can select Data Correction to rectify the record. In this case, the record reverts to its original state.

- **Cancel**: If you cancel a record, you cannot publish or reinstate the same record within 24 to 48 months of cancellation.

- **Discontinue**: If you discontinue a record, you cannot publish the same record within 24 to 48 months.

- **Reinstate**: Using reinstate, you can republish a discontinued record.

- **Classification Scheme**: The classification scheme listed in the Company Profile are displayed here.

- **Supplier Credential**: The credentials listed in the Company Profile are displayed here.

- **Deliver Synchronization Profile**: Select Yes if you wish to deliver the synchronization profile to the backend system.

- **Generate Output file?**: Select the option to generate output file.

If **Trading Partner on Datapool** is selected in the **Delivery** group, the following additional fields are displayed:

- **Operation**: You can select from the following operations:

  - **Add**: Adds the record to the Datapool.

  - **Data Correction**: If there is a discrepancy in the published record, you can

select Data Correction to rectify the record. In this case, the record reverts to its original state.

- ○ **Publish**: Publishes the record to the selected backend systems.

- **Classification Scheme**: The classification scheme listed in the Company Profile are displayed here.

- **Supplier Credential**: The credentials listed in the Company Profile are displayed here.

- **Deliver Synchronization Profile**: Select Yes if you wish to deliver the synchronization profile to the backend system.

- **Generate Output file?**: Select the option to generate output file.

Synchronization Formats

The application currently provides a set of predefined synchronization formats.

You can access this page by clicking Item **Data > Synchronization Formats**.

GDSN Specific Synchronization Formats

Synchronization formats define the attributes and structure of the data required by the consumers of that data (external systems or datapools).

Output maps define mappings of repository attributes to synchronization formats. When a repository is synchronized, the synchronization format provides the structure for the output information.

For GDSN, many predefined synchronization formats are supplied which are not modified. The following are GDSN-specific synchronization formats:

- 1SYNC
- EAN.UCC
- EAN.UCC.SUBSCRIPTION
- GS1
- SA2
- TIBCO
- XML

Synchronization Formats

✖ Delete   🗐 Copy   🗗 Show Usage

	Synchronization Format Name	Description	Pre-defined	Fixed Length	Delimiter	Text Qualifier
☐	1SYNC	1SYNC Catalog Format	Yes	No	Comma	None
☐	EAN.UCC	EAN.UCC Catalog Format	Yes	No	Comma	None
☐	EAN.UCC.SUBSCRIPTION	Subscription Catalog Format	Yes	No	Comma	None
☐	GS1	GS1 Catalog Format	Yes	No	Comma	None
☐	SA2	SA2 Catalog Format	Yes	No	Comma	None
☐	TIBCO	TIBCO Catalog Format	Yes	No	Comma	None
☐	XML	XML Catalog Format	Yes	No	Comma	None

Using Custom Synchronization Formats

Procedure

1. Copy the EAN.UCC synchronization format to create the <CustomUCC> format.

   - Select the EAN.UCC format check box and click the **Copy** button.

   - Provide a name and description on the Synchronization Format copy page.

2. Create output map <CustomOutputMap>.

   - Go to **Item Data**->**Repositories**

   - Select a repository, go to the **Output Maps** tab, click **Create**.

3. Change the rulebase to select <CustomOutputMap>. For more information on creating a rulebase, refer the *TIBCO MDM Studio Rulebase Designer Guide*. The modified rulebase section will look like the following:

   ```
   <assign>        <var>OUTPUTFORMAT</var> <const
   type="string">CustomOutputMap</const> </assign>
   ```

   > **Note:** If you are not using the default EAN.UCC format, you need to make changes to the rulebase to publish an output map created for a custom synchronization format.
   >
   > Navigate to <MQ_COMMONDIR>/standard/rulebase/rbsyncstatusupdatederivation.xml to add the name of custom output map instead of "EAN.UCC" as in the following section:
   >
   > ```
   > <assign>
   > <var>OUTPUTFORMAT</var>
   > <const type="string">EAN.UCC</const>
   > </assign>
   > ```
   >
   > There may be several similar replacements required.

4. Perform **Update sync status**. For more information on updating synchronization status, see Updating Synchronization Status.

Synchronization Status

Synchronization Status (synch status) is the status of the record synchronized with Datapool.

You can update the synch status using **Updating Synchronization Status**.

Updating Synchronization Status

Records are always synchronized with Datapools.

The synchronization state (sync status) of a record can be incorrect in the following cases:

- Datapool failed to respond.

- Message(s) failed in Datapool(s) and there was no response from messages.

- Response was received but response format was not comprehensive and the processing failed.

- Record was synchronized outside the application. For instance, you migrated from MDM to another GDSN system.

When the sync status is incorrect, it affects the next message generated by the application and synchronization is not possible. To resolve this issue, the sync status needs to be updated.

You can update the sync status of the record.

Procedure
1. Click **Browse and Search**.
   A list of Repositories are displayed.

2. In the **Repository** list, select the repository.

3. Click **View All**.
   A list of records is displayed.

4. Click the record whose synch status you want to update.

5. On the **View Record** page, click **Update Sync Status**.

6. On the **Update Synch Status** page, select the values for the following fields:

- Datapool

- Trading Partner

- Operation

- Sub-Operation

Update Synch Status

Repository Name	SYNC1		
Repository Description	SYNC1		

Record ID - Ext	00001044011045	Status	CONFIRMED
Version	1		
Last Modified On	09/06/2020	Last Modified By	admin,admin
Datapool	[⌄]	Trading Partner	[⌄]
Operation	[⌄]	Sub-Operation	[⌄]
New Synch Status			

Save   **Cancel**

7. Click **Save** to update sync status.

> **ⓘ** **Note:** An out-of-the-box installation assumes that EAN.UCC is associated with the repository. If this format is not associated, the operation fails. To correct this, either associate the synchronization format or use another synchronization format in the rulebase `rbsyncstatusupatederivation.xml`.

Updating Synchronization Status Using Utility

By using the `updateSyncStatus` utility, you can correct the synchronization status of a record in TIBCO MDM. Run the utility if the synchronization status of records in

1WorldSync and TIBCO MDM is different. The `updateSyncStatus.bat` and `updateSyncStatus.sh` utility files are available in `$MQ_HOME\bin`.

Procedure

1. Navigate to `$MQ_HOME/bin/migration` and create a file named `updatesyncoperations.txt` and enter the details of a operation (in the following format) that you want to perform:

   ```
   productkeyid,operation,suboperation
   SQL command to retrieve PRODUCTKEYID
   ```

   For example,

   ```
   10004,ADD,NEW
   ```

   SQL command to retrieve `PRODUCTKEYID`

   ```
   select * from MCT_34819 to get CPRODUCTKEYID of 00005555565578 =>
   10013
   ```

2. Navigate to `$MQ_HOME\bin`.

3. Run the following command:

   ```
   updateSyncStatus.bat -cid SYNC1_CATLOG_ID -of Catalog outputmap name  -mid
   organization_ID for the market place
   ```

   - *CATLOG_ID*: selects ID from catalog where NAME=*SYNC1*

   - `Catalogoutputmap name` (outputformat): *1SYNC*

   - `organization_ID for the market place`: selects ID from ORGANIZATION where NAME=*1SYNCTEST*

   For example,

   ```
   updateSyncStatus.bat -cid 34819 -of 1SYNC -mid 32699
   ```

   The optional `tradingPartner` attribute is required if you want to publish records to a trading partner.

Result

The synchronization status is updated. You can synchronize the records.

Validations and Codelists

MDM has validations present for mandatory and optional attributes in 1WorldSync and MDM's implementation of the 1WorldSync codelists.

- 1WorldSync Validations Overview

- MDM Validation for 1WorldSync Mandatory Attributes

- MDM Validation for 1WorldSync Optional Attributes

- MDM Implementation of 1WorldSync Codelist

1WorldSync Validations Overview

While communicating to subscribers, 1WorldSync specifies certain rules to be followed to ensure that the data received is correct.

1WorldSync performs validation on different types of messages received and processed.

Supported 1WorldSync Validations

MDM supports the following 1WorldSync validations:

- When messages of type **Item Load** (Item Add, Item Modify Item Link, or Item Unlink transaction) are received

- When messages of type **Item Publish** are received

  For more details, refer MDM Validation for 1WorldSync Mandatory Attributes and MDM Validation for 1WorldSync Optional Attributes for validations implemented in MDM for mandatory and optional attributes by 1WorldSync for Item Load messages.

MDM Validation for 1WorldSync Mandatory Attributes

The following table lists validations implemented in MDM for mandatory attributes specified by 1WorldSync for Item Load messages (Item Add, Item Modify).

In the table below:

- **IM Attribute** is the attribute name in 1WorldSync.
- **1WorldSync Error Code** is the error displayed by 1WorldSync in case of validation problems.
- **MDM Repository Attribute** is corresponding name of the 1WorldSync attribute in the MDM Repository.
- **1WorldSync Catalog Output Map Attribute** is the name of an attribute created by MDM using the 1WorldSync Catalog Output Map.

Validation for 1WorldSync mandatory attributes

IM Attribute	1WorldSync Error Code	Repository Attribute	Sync Profile Attribute
Global Trade Item Number	1021, 1024, 1025	GTIN	GTIN
GTIN Name	1040	GTIN_NAME	GTIN_NAME
Product Type	1080	UOM	PRODUCT_TYPE
Target Market	1160	TARGET_MARKET_ID	TARGET_MARKET
Language	No error code available	DESCLANGUAGE	LANGUAGECODE
Information Provider (GLN)	1011 1061, 1064, 1062, 4020	INFORMATION_PROVIDER_ID	INFORMATION_PROVIDER
Brand Name	1050	ITEM_BRAND_NAME	BRAND_NAME
Item Classification Code (GPC)	1070	ADDITIONAL_CLASS_CAT_CODE	ALT_ITEM_CLASSN_CODE
Qty of Next Level Item(s)	1130	UNITS_PER_CONTAINER	PACK
Ordering Unit Indicator	1140	ORDERING_UNIT	ORDERING_UNIT_INDICATOR
Start Availability Date	1150	START_AVAILABILITY_DATE	START_AVAILABILITY_DATE
Height	1100	PRODUCTHEIGHT	HEIGHT
Height UOM	1101	HEIGHT_UOM	HEIGHT_UOM
Width	1120	PRODUCTWIDTH	WIDTH

IM Attribute	1WorldSync Error Code	Repository Attribute	Sync Profile Attribute
Width UOM	1121	WIDTH_UOM	WIDTH_UOM
Depth	1110	PRODUCTDEPTH	DEPTH
Depth UOM	1111	DEPTH_UOM	DEPTH_UOM

MDM Validation for 1WorldSync Optional Attributes

The following table lists validations implemented in MDM for optional and dependent attributes specified by 1WorldSync for Item Load messages (Item Add, Item Modify).

Validation for 1WorldSync Optional Attributes

IM Attribute	1WorldSync Error Code	Repository Attribute	Sync Profile Attribute
Alternate Item Classification Scheme	1071, 1077, 3085	ADDITIONAL_CLASS_CAT_CODE	ALT_ITEM_CLASSN_CODE
		CLASSIFICATIONSCHEME	CLASSIFICATION_SCHEME
Flash Point Temperature UOM	1548, 1549	FLASHPOINT_TEMP1	FLASHPOINT_TEMP
		FLASHPOINT_UNITS1	FLASHPOINT_TEMP_UOM
Product Strength UOM	1686, 1687	PROD_STRENGTH	PROD_STRENGTH
		PROD_STRENGTH_UOM	PROD_STRENGTH_UOM
Product Strength Basis UOM	1689, 1690	PROD_STRENGTH_BASIS	PROD_STRENGTH_BASIS
		PROD_STRENGTH_BASIS_UOM	PROD_STRENGTH_BASIS_UOM
Diameter UOM	1780, 1781	DIAMETER	DIAMETER
		DIAMETER_UOM	DIAMETER_UOM
Drained Weight UOM	1783, 1784	DRAINED_WEIGHT	DRAINED_WEIGHT
		DRAINED_WEIGHT_UOM	DRAINED_WEIGHT_UOM
Gross Weight UOM	1786, 1787	GROSSWEIGHT	GROSS_WEIGHT
		GROSS_WEIGHT_UOM	GROSS_WEIGHT_UOM

IM Attribute	1WorldSync Error Code	Repository Attribute	Sync Profile Attribute
Net Weight UOM	1790, 1789	NETWEIGHT	NET_WEIGHT
		NET_WEIGHT_UOM	NET_WEIGHT_UOM
Volume UOM	1801, 1802	VOLUME	VOLUME
		VOLUME_UOM	VOLUME_UOM
Width UOM	1804, 1805	PRODUCTWIDTH	WIDTH
		WIDTH_UOM	WIDTH_UOM
Max Stacking Weight UOM (formerly Max Admissible Stacking Weight UOM)	1901, 1902	STACKING_WEIGHT_MAX	MAX_ADM_STACKING_WEIGHT
		MAX_ADM_STACKING_WEIGHT_UOM	MAX_ADM_STACKING_WEIGHT_UOM
Storage/Handling Temp UOM	6228	STORAGE_HANDL_TEMP_MIN_UOM	STORAGE_HANDL_TEMP_MIN_UOM
		STORAGE_HANDL_TEMP_MAX_UOM	STORAGE_HANDL_TEMP_MAX_UOM
Alternate Item Number	2002	ALTERNATE_ID	ALTERNATE_ITEM_ID
		ALTERNATE_ITEMID_MNT_AGENCY	ALTERNATE_ITEMID_MNT_AGENCY
Fat Content Basis of Measure UOM	2084, 2085	FAT_CONTENT_BASIS_MEASURE	FAT_CONTENT_BASISOF_MEASURE
		FAT_CONTENT_BASIS_UOM	FAT_CONTENT_BASIS_UOM
Net Content (Metric) UOM (formerly Size (Metric) UOM)	4043	BASE_UNIT	BASE_UNIT_INDICATOR
		NET_CONTENT_PRIMARY	SIZE_METRIC
		NET_CONTENT_UOM	SIZE_METRIC_UOM
Ordering Unit Indicator	3013, 3014, 3015	ORDERING_UNIT	ORDERING_UNIT_INDICATOR
Gross Weight		GROSSWEIGHT	GROSS_WEIGHT
Gross Weight UOM		GROSS_WEIGHT_UOM	GROSS_WEIGHT_UOM
Product Strength Basis	3040, 3041	PROD_STRENGTH	PROD_STRENGTH
		PROD_STRENGTH_BASIS	PROD_STRENGTH_BASIS

IM Attribute	1WorldSync Error Code	Repository Attribute	Sync Profile Attribute
Ordering Unit Indicator	3051	ORDER_INCREMENT	ORDER_QUANTITY_MULTIPLE
		ORDERING_UNIT	ORDERING_UNIT_INDICATOR
Ordering Unit Indicator	3053	MAXIMUMORDER	MAX_ORDER_QUANTITY
		ORDERING_UNIT	ORDERING_UNIT_INDICATOR
Ordering Unit Indicator	3055	MINIMUMORDER	MIN_ORDER_QUANTITY
		ORDERING_UNIT	ORDERING_UNIT_INDICATOR
Fat Content Basis of Measure	3100, 3101	FAT_PERCENT_IN_DRY_MATTER	FAT_CONTENT
		FAT_CONTENT_BASIS_MEASURE	FAT_CONTENT_BASISOF_MEASURE
Non GTIN Pallet Height UOM	3138	PACKAGEDHEIGHT	NONGTIN_PL_HEIGHT
		NONGTIN_PL_HEIGHT_UOM	NONGTIN_PL_HEIGHT_UOM
Non GTIN Pallet Gross Weight UOM	3140	NONGTIN_PL_GR_WEIGHT	NONGTIN_PL_GR_WEIGHT
		NONGTIN_PL_GR_WEIGHT_UOM	NONGTIN_PL_GR_WEIGHT_UOM
Global Item Classification Code	1072	ADDITIONAL_CLASS_CAT_CODE	ALT_ITEM_CLASSN_CODE
EAN/UCC Code	4008	EAN_UCC_CODE	EAN_UCC_CODE
EAN/UCC Type		EAN_UCC_TYPE	EAN_UCC_TYPE
EAN/UCC Code	4002, 4003	EAN_UCC_CODE	EAN_UCC_CODE
Qty of Next Level Item(s)	212, 4005, 106, 4023	UNITS_PER_CONTAINER	PACK
Brand Name	1051	ITEM_BRAND_NAME	BRAND_NAME
Sub Brand	1740	ITEM_SUB_BRAND_NAME	SUB_BRAND
Ordering Unit Indicator	655, 111	ORDERING_UNIT	ORDERING_UNIT_INDICATOR
Special Item Code	4022	SPECIAL_ITEM_CODE	SPECIAL_ITEM_CODE

IM Attribute	1WorldSync Error Code	Repository Attribute	Sync Profile Attribute
Depth UOM	3120	DEPTH_UOM	DEPTH_UOM
Width UOM		WIDTH_UOM	WIDTH_UOM
Height UOM		HEIGHT_UOM	HEIGHT_UOM
Diameter UOM		DIAMETER_UOM	DIAMETER_UOM
Peg Hole Number	6216	PEG_HORIZONTAL	PEG_HORIZONTAL
		PEG_VERTICAL	PEG_VERTICAL
		PEG_HOLE_NUMBER	PEG_HOLE_NUMBER
Peg Horizontal UOM	6216	PEG_HORIZONTAL	PEG_HORIZONTAL
		PEG_HORIZONTAL_UOM	PEG_HORIZONTAL_UOM
Peg Vertical UOM	6216	PEG_VERTICAL	PEG_VERTICAL
		PEG_VERTICAL_UOM	PEG_VERTICAL_UOM
Net Content (Metric (formerly Size Imperial UOM))	6216	NET_CONTENT_SECONDARY,	SIZE_IMPERIAL,
		NET_CONTENT_SECONDARY_UOM	SIZE_IMPERIAL_UOM
Net Content (Metric (formerly Size (Metric))	6216	NET_CONTENT_PRIMARY	SIZE_METRIC
		NET_CONTENT_UOM	SIZE_METRIC_UOM
List Price Basis UOM	6216	LIST_PRICE_BASIS_PER_UNIT	LIST_PRICE_BASISPERUNIT
		LIST_PRICE_BASISPERUNIT_UOM	LIST_PRICE_BASISPERUNIT_UOM
Product Size Code Maintenance Agency	6216	SIZE_CODE	PROD_SIZE_CODE
		SIZE_CODE_LIST_AGENCY	PROD_SIZE_CODE_MAINT_AGENCY
Storage/Handling Temp UOM	6216	STORAGE_HANDLING_TEMP_MAX,	STORAGE_HANDL_TEMP_MAX,
		STORAGE_HANDL_TEMP_MAX_UOM	STORAGE_HANDL_TEMP_MAX_UOM

IM Attribute	1WorldSync Error Code	Repository Attribute	Sync Profile Attribute
Storage/Handling Temp UOM	6216	STORAGE_HANDLING_TEMP_MIN	STORAGE_HANDL_TEMP_MIN
		STORAGE_HANDL_TEMP_MIN_UOM	STORAGE_HANDL_TEMP_MIN_UOM
Color	6216	COLOR	COLOR
Color Code Maintenance Agency		COLOR_CODE_AGENCY	COLOR_CODE_MNT_AGENCY
Organic Claim Agency	6216	ORGANIC_CLAIM_AGENCY	ORGANIC_CLAIM_AGENCY
Organic Claim Item Code		ORGANIC_CODE	ORGANIC
Material Code Agency	6216	MATERIAL_CODE_AGENCY	MATERIAL_CODE_AGENCY
Packaging Material Code		PKG_MATERIAL_CODE	PACKAGING_M ATERIAL_CODE
Packaging Material Composition		PACKAGING_WEIGHT	PACKAGING_WEIGHT
Packaging Material Composition UOM		PACKAGING_WEIGHT_UOM	PACKAGING_WEIGHT_UOM
List Price Basis Per Unit List Price Basis Per Unit UOM	6216	LIST_PRICE	LIST_PRICE
		PRICEUOMCODE	PRICEUOMCODE
		LIST_PRICE_BASISPERUNIT_UOM	LIST_PRICE_BASISPERUNIT_UOM
		LIST_PRICE_BASISPER_UNIT	LIST_PRICE_BASISPERUNIT
		LIST_PRICE_DATE_START	LIST_PRICE_DATE_START
Tax (Rate)	6216	TAX_RATE	TAX_RATE
Type Code Tax (Rate)		TAX_TYPE_CODE	TAX_TYPE
Type Description Tax (Rate)		TAX_TYPE_DESC	TAX_TYPE_DESC
Type Agency		TAX_AGENCY_CODE	TAX_AGENCY_CODE

IM Attribute	1WorldSync Error Code	Repository Attribute	Sync Profile Attribute
Tax Amount	6216	TAX_AMOUNT	TAX_AMOUNT
Tax Amount Currency		CURRENCY_CODE	CURRENCY_CODE
Tax (Amount) Type Description		TAX_AMT_TAX_TYPE_DESC	TAX_AMT_TAX_TYPE_DESC
Tax (Amount) Type Agency		TAX_AMT_TAX_AGENCY_CODE	TAX_AMT_TAX_AGENCY_CODE
Tax (Amount) Type Code		TAX_AMT_TAX_TYPE_CODE	TAX_AMT_TAX_TYPE_CODE
Alternate Item Classification Code	1078	UDEXCODE	GLOBAL_CLASSIFICATION_CODE
Information Provider (GLN)	VE-0180_VE-0190	INFORMATION_PROVIDER_ID	INFORMATION_PROVIDER
Brand Owner(formerly Owning Organization)	VE-0270	BRAND_OWNER_ID	OWNING_ORGANIZATION_GLN
Variant	VE-0320	VARIANT	VARIANT
Functional Name	VE-0330	PRODUCTNAME	PROD_NAME

MDM Implementation of 1WorldSync Codelist

Certain 1WorldSync attributes accept only values from a code list.

The following table lists the MDM implementation of the 1WorldSync code list. For a given attribute in the 'IM Attribute' column, the Repository Attribute column lists how the code list is implemented on the attribute.

MDM Implementation of 1WorldSync Codelist

IM Attribute	Repository Attribute	MDM Datasource Name
Language	DESCLANGUAGE	LANGUAGE_CODES
Storage/Handling Temp UOM	STORAGE_HANDL_TEMP_MAX_UOMSTORAGE_HANDL_TEMP_MIN_UOM	TEMP_CODES
Barcode Type	BAR_CODE_TYPE	BAR_CODE_TYPES
Alternate Item Classification Scheme	CLASSIFICATIONSCHEME	CLASSIFICATION_SCHEMES
Country of Origin	COUNTRYOFORIGINCODE	COUNTRY
Country of Assembly	TRADE_ITEM_COUNTRY_ASSEMBLY	COUNTRY

IM Attribute	Repository Attribute	MDM Datasource Name
Variable Trade Item Type	VARIABLE_TRADE_ITEM_TYPE	No Datasource.Code values are of type enumeration, contained in the rulebase XML file.
Depth UOM	DEPTH_UOM	LINEARUNIT
Width UOM	WIDTH_UOM	
Height UOM	HEIGHT_UOM	
Diameter UOM	DIAMETER_UOM	
Peg Horizontal UOM	PEG_HORIZONTAL_UOM	
Peg Vertical UOM	PEG_VERTICAL_UOM	
Size Dimension UOM	SIZE_DIMENSION_UOM	
Non GTIN Pallet Height UOM	NONGTIN_PL_HEIGHT_UOM	
Gross Weight UOM	GROSS_WEIGHT_UOM	WEIGHTUNIT
Net Weight UOM	NET_WEIGHT_UOM	
Drained Weight UOM	DRAINED_WEIGHT_UOM	
Material Weight UOM	MATERIAL_WEIGHT_UOM	
Packaging Material Composition UOM	PACKAGING_WEIGHT_UOM	
Non GTIN Pallet Gross Weight UOM	NONGTIN_PL_GR_WEIGHT_UOM	
Max Stacking Weight UOM	MAX_ADM_STACKING_WEIGHT_UOM	
Fat Content UOM,	FAT_CONTENT_UOM	PRICE_MATERIAL_UOM_CODES
Fat Content Basis of Measure UOM	FAT_CONTENT_BASIS_UOM	
Product Strength UOM	PROD_STRENGTH_UOM	
Product Strength Basis UOM	PROD_STRENGTH_BASIS_UOM	
List Price Basis Basis UOM	LIST_PRICE_BASISPERUNIT_UOM	
Suggested Retail Price Basis UOM	RECOMMEND_PRICE_PERUNIT_UOM	

IM Attribute	Repository Attribute	MDM Datasource Name
Selling UOM	SELLING_UOM	SELLING_ORDERING_UOM_CODES
Ordering UOM	ORDERING_UOM	
Price Comparison Measurement UOM	PRICE_COMP_UOM	
Order Sizing Factor UOM	ORDER_SIZING_FACTOR_UOM	
Generic Ingredient Strength Units of Measure	GENERIC_INGREDIENT_STR_UOM	GENERIC_INGR_STRGTH_UOM_CODES
Product Size Code Maintenance Agency	SIZE_CODE_LIST_AGENCY	PRODUCT_SIZE_CODE_AGENCIES
Organic Claim Agency	ORGANIC_CLAIM_AGENCY	ORGANIC_CLAIM_AGENCY_CODES
Size System	SIZE_SYSTEM	SIZE_SYSTEM_CODES
Size Group	SIZE_GROUP	SIZE_GROUP_CODES
Size Type	SIZE_TYPE	SIZE_TYPE_CODES
Composition Width UOM	TRADE_ITEM_COMPOS_WIDTH_UOM	No Datasource. Code values are of type enumeration, contained in the rulebase xml file.
Packaging Material Code	PKG_MATERIAL_CODE	PACKAGING_MATERIAL_CODES
Material Code Agency	MATERIAL_CODE_AGENCY	PACKAGING_MATERIAL_CODES
Returnable Package Deposit Amount Currency	RETURN_PKG_DEPOSIT_AMT_CURR	CURRENCY_CODES
Tax Amount Currency	CURRENCY_CODE	
List Price Currency	PRICEUOMCODE	
Retail Price On Trade Item Currency	RETAIL_PRICE_ON_ITEM_CURR	
Security Tag Location	SECURITY_TAG_LOCATION	SECURITY_TAG_LOCATIONS
Security Tag Type	SECURITY_TAG_TYPE	SECURITY_TAG_TYPES
Packaging Marked Expiration Date Type	PKG_MARKED_EXPIRE_DATE_TYPE	No Datasource. Code values is of type enumeration, contained in the rulebase xml file.
Package Marks Diet Allergen	PACKAGE_MARKS_DIET_ALLERGEN	PACKAGE_MARKS_DIET_ALLERGEN

IM Attribute	Repository Attribute	MDM Datasource Name
Package Marks Free From	PACKAGE_MARKS_FREE_FROM	PACKAGE_MARKS_FREE_FROM_LIST
Package Marks Ethical	PACKAGE_MARKS_ETHICAL	No Datasource.Code values are of type enumeration, contained in the rulebase xml file.
Pallet Code	PALLET_TYPE_CODE	PALLET_TYPE_CODES
Pallet Terms and Conditions	PALLET_HANDL_ONEWAY_REUSE	PALLET_TERMS_AND_CONDITIONS
Import Classification Type	IMPORT_CLASS_TYPE	IMPORT_CLASSIFICATION_TYPES
Min Storage Humidity UOM	STORAGE_HUMIDITY_MIN_UOM	No Datasource.Code values are of type enumeration, contained in the rulebase xml file.
Max Storage Humidity UOM	STORAGE_HUMIDITY_MAX_UOM	
Min DC Delivery Temp UOM	DELIVERY_DC_TEMP_UOM	TEMP_CODES
Max DC Delivery Temp UOM		
Min Market Delivery Temp UOM	DELIVERY_MARKET_TEMP_UOM	
Max Market Delivery Temp UOM		
Flash Point Temperature UOM	FLASHPOINT_UNITS1	
Storage/Handling Temp UOM	STORAGE_HANDL_TEMP_MAX_UOM STORAGE_HANDL_TEMP_MIN_UOM	
Compliance Regulation Code	CLASS_COMPLIANCE_REG_CODE	CLASS_COMPLIANCE_REG_CODES
Goods Pick Up Lead Time UOM	GOODS_PICKUP_LEAD_TIME_UOM	No Datasource.Code values are of type enumeration, contained in the rulebase xml file.
Price Comparison Content Type	PRICE_COMP_CONTENT_TYPE	PRICECOMPARISIONCONTENTTYPES
Price By Measure Type	PRICE_BY_MEASURE_TYPE	PRICE_BY_MEASURE_TYPES
Target Consumer Gender	TARGET_CONSUMER_GENDER	No Datasource. Code values are of type enumeration, contained in the rulebase xml file.
Season Parameter	SEASON_PARAMETER	SEASON_PARAMETERS
Dangerous Goods Regulation Code	HAZMAT_CLASSCODE1	DANGER_GOODS_REGULATION_CODES
Color Code Maintenance Agency	COLOR_CODE_AGENCY	COLOR_CODE_AGENCIES_1SYNC

IM Attribute	Repository Attribute	MDM Datasource Name
Handling Instruction Code	SPECIAL_HANDLING_CODE	SPECIAL_HANDLING_CODES
Lead Time UOM	LEADTIMEUOMCODE	No Datasource.
Organic Trade Item Code	ORGANIC_CODE	ORGANIC_TRADE_ITEM_CODES
Packaging Terms And Condition	PACKAGING_TERMS_CONDITIONS	PKG_TERMS_CONDITIONS_CODES
Packaging Type Code	PACKAGING_TYPE_CODE	PACKAGING_TYPE_CODES
Primary Delivery Methods	PRIMARY_DELIVERY_METHOD	PRIMARY_DELIVERY_METHOD_CODES
GTIN Variation Registry	GTIN_VARIATION_REGISTRY	No Datasource.Code values are of type enumeration, contained in the rulebase xml file.

IM Attribute	Repository Attribute	MDM Datasource Name
Base Unit Indicator	BASE_UNIT	No Datasource.
Consumer Unit Indicator	CONSUMER_UNIT	Code values are of type enumeration, contained in the rulebase xml file.
Dangerous Goods Indicator	DANGEROUS_GOODS	
Dispatch Unit Indicator	DESPATCH_UNIT	
Has Batch Number	HAS_BATCH_NUMBER	
Invoice Unit Indicator	INVOICE_UNIT	
Is Trade Item Reorderable	IS_REORDERABLE	
Is Size Based Pricing	IS_TRADEITEM_SIZE_BASED_PRIC	
Net Content Declared	NET_CONTENT_DEC_INDICATED	
Ordering Unit Indicator	ORDERING_UNIT	
Packaging Marked Returnable	PACKAGE_MARKED_RETURNABLE	
Pricing On Product	PRICE_ON_PACKAGE	
Pricing Item Indicator	PRICING_ITEM	
Is Private	PRIVATE	
Private Label	PRIVATE_LABEL	
Product Marked Recyclable	PROD_MARKED_RECYCLABLE	
Right of Return for Non-Sold Trade Item	RIGHT_RETURN_NONSOLD_TRADE	
Variable Weight Trade Item	VARIABLE_UNIT	
Product Marked with Ingredients	WITH_INGREDIENTS	
Is Barcode Symbology Derivable	ISBARCODEDERIVABLE	
EANUCC Type	EAN_UCC_TYPE	EANUCCTYPE
Volume UOM	VOLUME_UOM	VOLUMEUNIT

IM Attribute	Repository Attribute	MDM Datasource Name
Net Content UOM	NET_CONTENT_UOM	NETCONTENTUNIT
Product Type	UOM	UNITDESCRIPTOR
Target Market	TARGET_MARKET_ID	COUNTRY
Alternate Item Identification Maintenance Agency	ALTERNATE_ITEMID_MNT_AGENCY	ALTERNATEITEMIDMAINTAINAGENCY
Special Item Code	SPECIAL_ITEM_CODE	SPECIALITEMCODE
Is Ingredient Irradiated	INGREDIENT_IRRADIATED	No Datasource. Code values are of type enumeration, contained in the rulebase xml file.
Is Raw Material Irradiated	RAW_MATERIAL_IRRADIATED	
Is Trade Item Irradiated	IRRADIATED	
Genetically Modified	GENETICALLY_MODIFIED	
Is Product Subject To A Manufacturer Take Back Program	TAKE_BACK_PROGRAM	
Is Hazardous Component Brokendown Easily For Recycling	HAZARDOUS_COMP_REMOVABLE	
Is Product Disassembly By Recycling Facility Completed Using Standard Tools	DESIGN_FOR_EASY_DISASSMBLY	
Product RoHS Compliance Code	IS_RIGID_PLASTIC_PACKAGING	

IM Attribute	Repository Attribute	MDM Datasource Name
Does Product Contain SCCPs	CONTAINS_SCCP	No Datasource.
Does Product Contain PVC	CONTAINS_PVC	Code values are of type enumeration, contained in the rulebase xml file.
Can Product Be Easily Upgraded Or Maintained By Consumer	IS_UPGRADEABLE_OR_MAINTAIN	
Is TradeItem Auto Powered Down Enabled When Shipped To Customer	POWER_DOWN_ENABLED	
Is Product Chemical Not Intended For Human Consumption	CHEMICAL_FOR_HUMAN_CONSUME	
Is Product A Pesticide	CONTAINS_PESTICIDE	
Is Product Aerosol	CONTAINS_PROPELLANT	
Is Product Considered Universal Waste	IS_UNIVERSAL_WASTE	
Is Product RPPC Compliant In TargetMarket	IS_ROHS_COMPLIANT	
Is TradeItem Packed Irregularly	IS_ITEM_PACKED_IRREGULARLY	
Has Display Ready Packaging	HAS_DISPLAY_READY_PKG	

Maintaining Validations and Codelists

Validations and codelists can be maintained by updating codelists and adding validations.

Updating Codelists

Certain attribute values are from a list of values only, called the code list.

Values not in the list are not accepted. In MDM, code lists are implemented using a rulebase and in most cases, populated using a predefined datasource created for the tibcocim/tadmin (enterprise/user) super user.

If datapool has released an update to the code list, first establish whether the code list was implemented using a **datasource** or **enumeration**.

Updating a Codelist Implemented Using Datasource

Procedure
1. Find the name of the datasource used for the code list. See MDM Implementation of 1WordSync Codelist.

2. Create a CSV file of the updated codelist.

3. Log in to the super user enterprise.

4. Click **Item Data > Data Sources**.

5. Modify the datasource as obtained in step 1.

6. Expand the Attribute tab on the Data Source Modify page. Ensure the attribute name in the datasource definition on the UI and the CSV file's (created in step 2) header are the same.

7. Provide the CSV file created in step 2 to the **File to Upload** field.

8. Click **Save** and **Upload**.

9. Check the Event Log to ensure the event completes successfully, and all rows of the CSV file import successfully.

Updating a Codelist Implemented Using Enumeration

Procedure

1. Edit the `$MQ_COMMON_DIR/standard/rulebase/_XX_mastercatalog_validation.xml` file. Here XX is the name of datapool for which you want to update the code list.

2. Find the name of the MDM attribute for which the enumeration is defined.

3. In the validation file, search for the constraint with the attribute name. For example, to update the code list for MATERIAL_WEIGHT_UOM for 1WorldSync, update the following constraint in the `_1sync_mastercatalog_validation.xml` validation file.

```
<constraint>
        <name>Drop down for  MATERIAL_WEIGHT_UOM</name>
        <description>Valid value list for  MATERIAL_WEIGHT_UOM</description>
        <usefor>
                <var>MATERIAL_WEIGHT_UOM</var>
        </usefor>
        <action>
                <select novalue="default">
                <enum header="yes" col="2">
                <const type="string">UOM<sep/>Description</const>
                <const type="string">ON<sep/>Ounces per square yard</const>
                <const type="string">GM<sep/>Grams per square meter</const>
                </enum>
                </select>
        </action>
</constraint>
```

For more details on rulebase constraints, refer to the *TIBCO MDM Studio Rulebase Designer* guide.

Updating Validations

You can add a new validation by adding a new constraint with the new attribute name in the relevant rulebase.

Example

New Attribute to Add

Consider a new mandatory attribute **Target Region** to be added to 1WorldSync. And presume that **TARGET_REGION** is the attribute name added to both the 1WorldSync catalog format and TIBCO format.

Files to Add Constraint to

The constraint should be added to both the files listed below, both in the `$MQ_COMMON_DIR/standard/rulebase` folder.

`_1sync_mastercatalog_catalogvalidation.xml_1sync_catalogvalidation.xml`

Constraint to Add

```
<constraint>
      <name>Mandatory validation for TARGET_REGION </name>
      <description>This attribute is mandatory.</description>
      <usefor>
         <var> TARGET_REGION </var>
      </usefor>
      <action>
         <check>
       <explanation>This attribute is mandatory.</explanation>
            <defined>
               <var />
            </defined>
         </check>
      </action>
</constraint>
```

Message Choreography

Message choreography, in this context, refers to the information flow between a specific datapool (1WorldSync for instance) and the GS1 Global Registry.

GDSN supports trading partners to use the (certified) datapool of their choice to synchronize data with other trading partners in GDSN. GDSN certified datapools help in continued synchronization of data, and registered trading partners are assured of updated and accurate data in their systems.

MDM Message Choreography for 1WorldSync

MDM currently supports 1WorldSync datapool. For MDM to work with this datapool, some specific changes are required.

Validation takes place in 2 instances: on the record ID when entering the records and when synchronizing data. GS1 and 1WorldSync specify certain rules which must be followed to ensure that the quality of data received is correct.

1WorldSync Attribute Mapping

> **Note:** In the following table, "Sync Profile Attribute" refers to the 1WorldSync Output map attribute. Sync is the abbreviated form of Synchronization.

The following table lists how attributes in 1WorldSync map to attributes in MDM.

1WorldSync Attribute Mapping

1WorldSync Attribute	MDM Data Type	Sync Profile Attribute	Repository Attribute	Xpath in 1WorldSync message
Global Trade Item Number	String	GTIN	GTIN	os:envelope/catalogueRequest/ document/item/gtin
Information Provider	String	INFORMATION_PROVIDER	INFORMATION_PROVIDER_ID	os:envelope/catalogueRequest/ document/item/information ProviderGLN
Effective Date	Date	TDC_PRODUCTION_DATE	TDC_PRODUCTION_DATE	os:envelope/catalogueRequest/ document/item/effectiveDate
GTIN Name	String	GTIN_NAME	GTIN_NAME	os:envelope/catalogueRequest/ document/item/globalAttributes/ gtinName
NA	String	LANGUAGECODE	DESCLANGUAGE	"This is a common attribute, which is being used in many elements of the 1WorldSync message, for example: os:envelope/catalogueRequest/ document/item/targetMarket Attributes/productDescription [@lang]; os:envelope/catalogue Request/document/item/ targetMarketAttributes/ shortDescription[@lang]"
Product Type	String	PRODUCT_TYPE	UOM	os:envelope/catalogueRequest/ document/item/globalAttributes/ productType
Brand Name	String	BRAND_NAME	ITEM_BRAND_NAME	os:envelope/catalogueRequest/ document/item/globalAttributes/ brandName
Brand Owner GLN	String	OWNING_ORGANIZATION_GLN	BRAND_OWNER_ID	os:envelope/catalogueRequest/ document/item/globalAttributes/ brandOwnerGLN

1WorldSync Attribute	MDM Data Type	Sync Profile Attribute	Repository Attribute	Xpath in 1WorldSync message
Net Content	Decimal	SIZE_METRIC	NET_CONTENT_PRIMARY	os:envelope/catalogueRequest/ document/item/globalAttributes/ netContent[@uom]
Net Content UOM	String	SIZE_METRIC_UOM	NET_CONTENT_UOM	os:envelope/catalogueRequest/ document/item/globalAttributes/ netContent[@uom]
Alternate Item Classification Code	String	GLOBAL_CLASSIFICATION_ CODE	UDEXCODE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/alternateClassification/ code
Packaging Type	String	PACKAGING_TYPE	PACKAGING_TYPE_CODE	os:envelope/catalogueRequest/ document/item/globalAttributes/ packagingInformation/packaging TypeCode
Qty of Next Level Item(s)	String	PACK	UNITS_PER_CONTAINER	os:envelope/catalogueRequest/ document/item/globalAttributes/ totalQuantityOfNextLower TradeItem
Packaging Information Height	Float	PACKAGING_HEIGHT	PACKAGING_HEIGHT	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/packagingInformation/ height
Packaging Information Height UOM	Varchar	PACKAGING_HEIGHT_ UOM	PACKAGING_HEIGHT_ UOM	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/packagingInformation/ height
Packaging Information Depth	Float	PACKAGING_DEPTH	PACKAGING_DEPTH	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/packagingInformation/ depth
Packaging Information Depth UOM	Varchar	PACKAGING_DEPTH_UOM	PACKAGING_DEPTH_UOM	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/packagingInformation/ depth
Packaging Information Width	Float	PACKAGING_WIDTH	PACKAGING_WIDTH	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/packagingInformation/ width

1WorldSync Attribute	MDM Data Type	Sync Profile Attribute	Repository Attribute	Xpath in 1WorldSync message
Packaging Information Width UOM	Varchar	PACKAGING_WIDTH_UOM	PACKAGING_WIDTH_UOM	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/packagingInformation/ width
Inner Pack	String	INNER_PACK	UNITS_PER_INNER_ CONTAINER	os:envelope/catalogueRequest/ document/item/globalAttributes/ innerPack
Product Form	String	PRODUCT_FORM	FORM_DESCRIPTION	os:envelope/catalogueRequest/ document/item/globalAttributes/ ProductForm
Base Unit Indicator	Boolean	BASE_UNIT_INDICATOR	BASE_UNIT	os:envelope/catalogueRequest/ document/item/globalAttributes/ isBaseUnit
Consumer Unit Indicator	Boolean	IS_TRADE_ITEM_CONSUMER_ UNIT	CONSUMER_UNIT	os:envelope/catalogueRequest/ document/item/globalAttributes/ isConsumerUnit
Variable Weight Trade Item	Boolean	VARIABLE_WEIGHT_TRADE_ ITEM	VARIABLE_UNIT	os:envelope/catalogueRequest/ document/item/globalAttributes/ isVariableWeightItem
Num of Complete Layers Cont in Item/GTIN Pallet Hi	Integer	HI	HI	os:envelope/catalogueRequest/ document/item/globalAttributes/hi
Num of Items in a Complete Layer/GTIN Pallet Ti	Integer	TI	TI	os:envelope/catalogueRequest/ document/item/globalAttributes/ti
Storage/Handling Temp Max	Decimal	STORAGE_HANDL_TEMP_MAX	STORAGE_HANDLING_TEMP_ MAX	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/tradeItemTemperature Information/maximumTemperature
Storage/Handling Temp UOM	String	STORAGE_HANDL_TEMP_MAX_ UOM	STORAGE_HANDL_TEMP_MAX_ UOM	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/storageHandling TempMax[@uom]
Storage/Handling Temp Min	Decimal	STORAGE_HANDL_TEMP_MIN	STORAGE_HANDLING_TEMP_ MIN	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/tradeItemTemperature Information/minimumTemperature
Storage/Handling Temp UOM	String	STORAGE_HANDL_TEMP_MIN_	STORAGE_HANDL_TEMP_MIN_	os:envelope/catalogueRequest/

1WorldSync Attribute	MDM Data Type	Sync Profile Attribute	Repository Attribute	Xpath in 1WorldSync message
		UOM	UOM	document/item/targetMarket Attributes/storageHandling TempMin[@uom]
Own Label/Private Label	Boolean	OWN_LABEL_PRIVATE_LABEL	PRIVATE_LABEL	os:envelope/catalogueRequest/ document/item/globalAttributes/ brandDistributionTradeItemType
Number of Items/Pallet	Integer	NUM_OF_ITEMS_PER_PALLET	PALLET_QUANTITY	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/numberOfItems PerPallet
Target Market	String	TARGET_MARKET	TARGET_MARKET_ID	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/targetMarket
Target Market Description	String	TARGET_MARKET_DESC	TARGET_MARKET_DESC	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/targetMarketName
NA	String	MARKET_GROUP	MARKET_GROUP	os:envelope/catalogueRequest/ document/publication/ marketGroup
EANUCC Code	String	EAN_UCC_CODE	EAN_UCC_CODE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/gs1TradeItem IdentificationKey/value
EANUCC Type	String	EAN_UCC_TYPE	EAN_UCC_TYPE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/gs1TradeItem IdentificationKey/code
Manufacturer GLN	String	MANUFACTURER_GLN	null	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/manufacturer/gln
Sub Brand	String	SUB_BRAND	ITEM_SUB_BRAND_NAME	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/subBrand
Functional Name	String	PROD_NAME	PRODUCTNAME	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/functionalName[@lang]

1WorldSync Attribute	MDM Data Type	Sync Profile Attribute	Repository Attribute	Xpath in 1WorldSync message
Variant	String	VARIANT	VARIANT	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/flex/attrGroupMany [@name='variants']/row/attr QualMany[@name='variant]/ value
Country of Origin	String	COUNTRY_OF_ORIGIN	COUNTRYOFORIGINCODE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/countryOfOrigin/ countryCode
Is Private	Boolean	IS_PRIVATE	PRIVATE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/isPrivate
Primary Delivery Method	String	PRIMARY_DELIVERY_METHOD	PRIMARY_DELIVERY_METHOD	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/distributionDetails/ distributionMethodCode
Coupon Family Code	Integer	COUPON_FAMILY_CODE	COUPON_FAMILY_CODE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/couponFamilyCode
Has Batch Number	Boolean	HAS_BATCH_NUMBER	HAS_BATCH_NUMBER	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/hasBatchNumber
Net Content Declared	Boolean	NET_CONTENT_DEC_ INDICATED	NET_CONTENT_DEC_ INDICATED	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/isNetContentDeclaration
Product Strength	Decimal	PROD_STRENGTH	PROD_STRENGTH	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/nonFoodIngredient/ ingredientStrength/ingredient Strength
Product Strength UOM	String	PROD_STRENGTH_UOM	PROD_STRENGTH_UOM	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/productStrength[@uom]
Product Strength Basis	Decimal	PROD_STRENGTH_BASIS	PROD_STRENGTH_BASIS	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/nonFoodIngredient/ ingredientStrength/ingredient

1WorldSync Attribute	MDM Data Type	Sync Profile Attribute	Repository Attribute	Xpath in 1WorldSync message
				StrengthBasis
Product Strength Basis UOM	String	PROD_STRENGTH_BASIS_UOM	PROD_STRENGTH_BASIS_UOM	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/productStrength Basis[@uom]
Product Size Code	String	PROD_SIZE_CODE	PROD_SIZE_CODE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/productSize/code
Product Size Code Maintenance Agency	String	PROD_SIZE_CODE_MAINT_ AGENCY	SIZE_CODE_LIST_AGENCY	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/productSize/ maintenanceAgency
Product Description	String	PROD_DESC	SHORTDESC	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/productDescription [@lang]; os:envelope/catalogue Request/document/item/ targetMarketAttributes/ shortDescription[@lang]
Product Color Description	String	PROD_COLOR_DESC	PROD_COLOR_DESC	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/color/description
Min Product Lifespan from Arrival	Integer	MIN_PROD_LIFE_SPAN	LIFESPAN_FROM_ARRIVAL_ MIN	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/minimumTradeItem LifespanFromArrival
Additional Description	String	ADDITIONAL_DESCRIPTION	ADDITIONAL_DESCRIPTION	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/additionalDescription
Order Sizing Factor	String	ORDER_SIZING_FACTOR	ORDER_SIZING_FACTOR	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/orderSizingFactor
Lead Time	Integer	LEAD_TIME	LEADTIME	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/distributionDetails/ orderingLeadTime
Order Quantity Multiple	Integer	ORDER_QUANTITY_MULTIPLE	ORDER_INCREMENT	os:envelope/catalogueRequest/

1WorldSync Attribute	MDM Data Type	Sync Profile Attribute	Repository Attribute	Xpath in 1WorldSync message
				document/item/targetMarket Attributes/orderQuantityMultiple
Min Order Quantity	Integer	MIN_ORDER_QUANTITY	MINIMUMORDER	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/minimumOrderQuantity
Max Order Quantity	Integer	MAX_ORDER_QUANTITY	MAXIMUMORDER	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/maximumOrderQuantity
Start Availability Date	Date	START_AVAILABILITY_DATE	START_AVAILABILITY_DATE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/startAvailabilityDate
End Availability Date	Date	END_AVAILABILITY_DATE	END_AVAILABILITY_DATE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/endAvailabilityDate
First Ship Date	Date	FIRST_SHIP_DATE	FIRST_SHIP_DATE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/firstShipDate
Last Ship Date	Date	LAST_SHIP_DATE	LAST_SHIP_DATE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/lastShipDate
Height	Decimal	HEIGHT	PRODUCTHEIGHT	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/height
Height UOM	String	HEIGHT_UOM	HEIGHT_UOM	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/height[@uom]
Width	Decimal	WIDTH	PRODUCTWIDTH	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/width
Width UOM	String	WIDTH_UOM	WIDTH_UOM	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/width[@uom]
Depth	Decimal	DEPTH	PRODUCTDEPTH	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/depth

1WorldSync Attribute	MDM Data Type	Sync Profile Attribute	Repository Attribute	Xpath in 1WorldSync message
Depth UOM	String	DEPTH_UOM	DEPTH_UOM	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/depth[@uom]
Non GTIN Pallet Height	Decimal	NGTIN_PL_HEIGHT	PACKAGEDHEIGHT	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/nonGTINPalletHeight
Non GTIN Pallet Height UOM	String	NGTIN_PL_HEIGHT_UOM	NGTIN_PL_HEIGHT_UOM	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/nonGTINPalletHeight[@uom]
Diameter	Decimal	DIAMETER	DIAMETER	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/diameter
Diameter UOM	String	DIAMETER_UOM	DIAMETER_UOM	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/diameter[@uom]
Drained Weight	Decimal	DRAINED_WEIGHT	DRAINED_WEIGHT	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/drainedWeight
Drained Weight UOM	String	DRAINED_WEIGHT_UOM	DRAINED_WEIGHT_UOM	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/drainedWeight[@uom]
Gross Weight	Decimal	GROSS_WEIGHT	GROSSWEIGHT	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/grossWeight
Gross Weight UOM	String	GROSS_WEIGHT_UOM	GROSS_WEIGHT_UOM	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/grossWeight[@uom]
Non GTIN Pallet Gross Weight	Decimal	NGTIN_PL_GR_WEIGHT	NGTIN_PL_GR_WEIGHT	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/nonGTINPallet GrossWeight
Non GTIN Pallet Gross Weight UOM	String	NGTIN_PL_GR_WEIGHT_UOM	NGTIN_PL_GR_WEIGHT_UOM	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/nonGTINPallet GrossWeight[@uom]
Net Weight	Decimal	NET_WEIGHT	NETWEIGHT	os:envelope/catalogueRequest/

1WorldSync Attribute	MDM Data Type	Sync Profile Attribute	Repository Attribute	Xpath in 1WorldSync message
				document/item/targetMarket Attributes/netWeight
Net Weight UOM	String	NET_WEIGHT_UOM	NET_WEIGHT_UOM	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/netWeight[@uom]
Packaging Material Composition	String	PACKAGING_WEIGHT	PACKAGING_WEIGHT	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/packagingMaterial [@uom]
Packaging Material Composition UOM	String	PACKAGING_WEIGHT_UOM	PACKAGING_WEIGHT_UOM	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/packagingMaterial [@uom]
Peg Horizontal	Decimal	PEG_HORIZONTAL	PEG_HORIZONTAL	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/pegMeasurements/ pegHorizontal
Peg Horizontal UOM	String	PEG_HORIZONTAL_UOM	PEG_HORIZONTAL_UOM	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/pegMeasurements/ pegHorizontal[@uom]
Peg Vertical	Decimal	PEG_VERTICAL	PEG_VERTICAL	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/pegMeasurements/ pegVertical
Peg Vertical UOM	String	PEG_VERTICAL_UOM	PEG_VERTICAL_UOM	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/pegMeasurements/ pegVertical[@uom]
Volume	Decimal	VOLUME	VOLUME	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/volume
Volume UOM	String	VOLUME_UOM	VOLUME_UOM	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/volume[@uom]
Percentage of Alcohol per Volume	Decimal	PERCENT_ALCOHOL_PER_VOL	PERCENT_ALCOHOL	os:envelope/catalogueRequest/ document/item/targetMarket

1WorldSync Attribute	MDM Data Type	Sync Profile Attribute	Repository Attribute	Xpath in 1WorldSync message
				Attributes/percentageOf AlcoholPerVolume
Packaging Material Code	String	PACKAGING_MATERIAL_CODE	PKG_MATERIAL_CODE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/packagingMaterial/ packagingInformation/packaging Material/packagingMaterial TypeCode
Product Marked with Ingredients	Boolean	PROD_MARKEDWITH_ INGREDIENTS	WITH_INGREDIENTS	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/productMarked WithIngredients
Product Marked Recyclable	Boolean	PROD_MARKED_RECYCLABLE	PROD_MARKED_RECYCLABLE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/productMarked Recyclable
Packaging Marked Returnable	Boolean	PACKAGE_MARKED_ RETURNABLE	PACKAGE_MARKED_ RETURNABLE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/packagingMarked Returnable
Dispatch Unit Indicator	Boolean	DISPATCH_UNIT_INDICATOR	DESPATCH_UNIT	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/isDispatchUnit
Invoice Unit Indicator	Boolean	INVOICE_UNIT_INDICATOR	INVOICE_UNIT	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/isInvoiceUnit
Ordering Unit Indicator	Boolean	ORDERING_UNIT_INDICATOR	ORDERING_UNIT	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/isOrderableUnit
Handling Instruction Code	String	PROD_HANDLING_ INSTRUCTION	SPECIAL_HANDLING_CODE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/handlingInstructions/ handlingInstructionCode
Max Stacking Weight	Decimal	MAX_ADM_STACKING_WEIGHT	STACKING_WEIGHT_MAX	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/tradeItemStacking/ stackingWeightMaximum

1WorldSync Attribute	MDM Data Type	Sync Profile Attribute	Repository Attribute	Xpath in 1WorldSync message
Max Stacking Weight UOM	String	MAX_ADM_STACKING_ WEIGHT_UOM	MAX_ADM_STACKING_ WEIGHT_UOM	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/maximumStacking Weight[@uom]
Stacking Factor	Integer	STACKING_FACTOR	STACKING_FACTOR	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/tradeItemStacking/ stackingFactor
Pallet Code	String	PALLET_CODE	PALLET_TYPE_CODE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/packagingInformation/ platformTypeCode
Pallet Terms and Conditions	String	PALLET_HANDL_ONEWAY_ REUSE	PALLET_HANDL_ONEWAY_ REUSE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/packagingInformation/ platformTermsAnd ConditionsCode
Dangerous Goods Hazardous Code	String	HAZARD_CODE	HAZMAT_CODE1	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/hazardousMaterial/ dangerousGoods/transportation Classification/regulated TransportationMode/hazardous InformationHeader/hazardous InformationDetail/dangerous GoodsHazardousCode
Dangerous Goods Class Code	String	HAZMAT_CLASS_CODE	HAZMAT_CLASSCODE1	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/hazardousMaterial/ dangerousGoods/transportation Classification/regulated TransportationMode/hazardous InformationHeader/hazardous InformationDetail/classOf DangerousGoods
Dangerous Goods Regulation Code	String	HAZARD_TYPE_CLASS_ SYSTEM	HAZARD_TYPE_CLASS_ SYSTEM	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/hazardousMaterial/ transportationClassification/ regulatedTransportationMode/ hazardousInformationHeader/ dangerousGoods

1WorldSync Attribute	MDM Data Type	Sync Profile Attribute	Repository Attribute	Xpath in 1WorldSync message
				RegulationCode
U.N. Dangerous Goods Number	String	DANGEROUS_GOODS_SUB_ID	DANGEROUS_GOODS_HAZARD_CODE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/hazardousMaterial/ dangerousGoods/transportation Classification/regulated TransportationMode/hazardous InformationHeader/hazardous InformationDetail/unitedNations DangerousGoodsNumber
Dangerous Goods Packing Group	String	DANGEROUS_GOODS_PACK_GROUP	DANGEROUS_GOODS_PACK_GROUP	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/hazardousMaterial/ dangerousGoods/transportation Classification/regulated TransportationMode/ hazardousInformationHeader/ hazardousInformationDetail/ dangerousGoodsPackingGroup
Dangerous Goods Shipping Name	String	DANGEROUS_GOODS_SHIP_NAME	DANGEROUS_GOODS_SHIP_NAME	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/hazardousMaterial/ dangerousGoods/transportation Classification/regulated TransportationMode/ hazardousInformationHeader/ hazardousInformationDetail/ dangerousGoodsShippingName
Dangerous Goods Technical Name	String	DANGEROUS_GOODS_TECH_NAME	DANGEROUS_GOODS_TECH_NAME	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/hazardousMaterial/ dangerousGoods/transportation Classification/regulated TransportationMode/ hazardousInformationHeader/ hazardousInformationDetail/ dangerousGoodsTechnicalName
Flash Point Temperature	Decimal	FLASHPOINT_TEMP	FLASHPOINT_TEMP1	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/hazardousMaterial/ transportationClassification/ regulatedTransportationMode/ hazardousInformationHeader/

1WorldSync Attribute	MDM Data Type	Sync Profile Attribute	Repository Attribute	Xpath in 1WorldSync message
				flashPointTemperature
Flash Point Temperature UOM	String	FLASHPOINT_TEMP_UOM	FLASHPOINT_UNITS1	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/transportation Classification/hazardous InformationHeader/flashPoint Temperature
Hazmat Special Instructions	String	HAZMAT_SPECIAL_ INSTRUCTIONS	HAZMAT_SPECIAL_ INSTRUCTIONS	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/hazardousMaterial/ dangerousGoods/ specialInstructions
Trade Item Group Code	String	TRADEITEM_GROUP_CODE	TRADEITEM_GROUP_CODE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/tradeItemGroup Identification/tradeItemGroup IdentificationCodeReference
Trade Item Group Description	String	TRADEITEM_GROUP_DESC	TRADEITEM_GROUP_DESC	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/tradeItemGroup Identification/tradeItemGroup IdentificationCodeDescription
Pricing On Product	Boolean	PRICING_ON_PRODUCT	PRICE_ON_PACKAGE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/pricingOnProduct
Material Safety Data Sheet Number	String	MAT_SAFETY_DATASHEET_ NUM	MAT_SAFETY_DATASHEET_ NUM	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/safetyDataSheet Information/sDSSheetNumber
Number of Layers Per Pallet/Non GTIN Pallet Hi	Integer	N_GTIN_PALLET_HI	N_GTIN_PALLET_HI	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/nonGTINPalletHi
Number of Trade Items Per Pallet Layer/Non GTIN Pallet Ti	Integer	N_GTIN_PALLET_TI	N_GTIN_PALLET_TI	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/nonGTINPalletTi
Alternate Item Classification Scheme	String	CLASSIFICATION_SCHEME	CLASSIFICATIONSCHEME	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/alternateClassification/scheme

1WorldSync Attribute	MDM Data Type	Sync Profile Attribute	Repository Attribute	Xpath in 1WorldSync message
Color	String	COLOR	COLOR	os:envelope/catalogueRequest/document/item/targetMarketAttributes/color
Color Code Maintenance Agency	String	COLOR_CODE_MNT_AGENCY	COLOR_CODE_AGENCY	os:envelope/catalogueRequest/document/item/targetMarketAttributes/color/agency
List Price	Decimal	LIST_PRICE	LIST_PRICE	os:envelope/catalogueRequest/document/item/targetMarketAttributes/cataloguePrice/price
List Price Currency	String	LIST_PRICE_CURRENCY	PRICEUOMCODE	os:envelope/catalogueRequest/document/item/targetMarketAttributes/cataloguePrice/price[@currency]
List Price Basis Per Unit	Decimal	LIST_PRICE_BASISPERUNIT	LIST_PRICE_BASIS_PER_UNIT	os:envelope/catalogueRequest/document/item/targetMarketAttributes/cataloguePrice/basisPerUnit
List Price Basis Per Unit UOM	String	LIST_PRICE_BASISPERUNIT_UOM	LIST_PRICE_BASISPERUNIT_UOM	os:envelope/catalogueRequest/document/item/targetMarketAttributes/cataloguePrice/basisPerUnit[@uom]
Suggested Retail Price	Amount	RECOMMEND_SALES_PRICE	SUGGESTED_RETAIL_PRICE	os:envelope/catalogueRequest/document/item/targetMarketAttributes/suggestedRetail/price[@currency]
Suggested Retail Price Currency	String	RECOMMEND_PRICE_CURRENCY	RECOMMEND_PRICE_CURRENCY	os:envelope/catalogueRequest/document/item/targetMarketAttributes/suggestedRetail/price[@currency]
Suggested Retail Price Basis Per Unit	Decimal	RECOMMEND_PRICE_PERUNIT	RECOMMEND_PRICE_PERUNIT	os:envelope/catalogueRequest/document/item/targetMarketAttributes/suggestedRetail/basisPerUnit[@uom]
Suggested Retail Price Basis Per Unit UOM	String	RECOMMEND_PRICE_PERUNIT_UOM	RECOMMEND_PRICE_PERUNIT_UOM	os:envelope/catalogueRequest/document/item/targetMarketAttributes/suggestedRetail/basisPerUnit[@uom]

1WorldSync Attribute	MDM Data Type	Sync Profile Attribute	Repository Attribute	Xpath in 1WorldSync message
Right of Return for Non-Sold Trade Item	Boolean	RIGHT_RETURN_NSOLD_ TRADE	RIGHT_RETURN_NSOLD_ TRADE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/rightOfReturn ForNonSoldTradeItem
Tax Rate	Decimal	TAX_RATE	TAX_RATE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/taxRate/rate
Tax (Rate) Type Code	String	TAX_TYPE	TAX_TYPE_CODE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/taxRate/typeCode
Alternate Item Number	String	ALTERNATE_ITEM_ID	ALTERNATE_ID	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/alternateItem Identification/id
Alternate Item Identification Maintenance Agency	String	ALTERNATE_ITEMID_MNT_ AGENCY	ALTERNATE_ITEMID_MNT_ AGENCY	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/alternateItem Identification/agency
Replaced by GTIN	String	REPLACED_ITEM_GTIN	REPLACED_BY_GTIN	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/referencedTradeItem/ referencedTradeItemGTIN/ referencedTradeItem/referenced TradeItemTypeCode= REPLACED_BY
Organic Trade Item Code	String	ORGANIC	ORGANIC_CODE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/organic/organicClaim/ organicTradeItemCode
Degree of Original Wort	String	DEGREE_OF_ORIGINAL_WORT	DEGREE_OF_ORIGINAL_WORT	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/degreeOfOriginalWort
Fat Content UOM	String	FAT_CONTENT_UOM	FAT_CONTENT_UOM	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/fatContent[@uom]
Fat Content Basis of Measure UOM	String	FAT_CONTENT_BASIS_UOM	FAT_CONTENT_BASIS_UOM	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/fatContentBasisOf

1WorldSync Attribute	MDM Data Type	Sync Profile Attribute	Repository Attribute	Xpath in 1WorldSync message
				Measure[@uom]
Units Per Consumer Unit	Integer	UNITS_PER_CONSUMER_UNIT	UNITS_PER_CONSUMER_UNIT	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/unitsPerConsumerUnit
Total Units per Case	Integer	TOTAL_UNITS_PER_CASE	UNITS_PER_CASE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/totalUnitsPerCase
Pricing Item Indicator	Boolean	PRICING_ITEM_INDICATOR	PRICING_ITEM	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/pricingItemIndicator
NA	Date	PUBLISH_DATE	PUBLISH_DATE	os:envelope/catalogueRequest/ document/publication/publishDate
First Order Date	Date	FIRST_ORDER_DATE	FIRST_ORDER_DATE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/firstOrderDate
Last Order Date	Date	LAST_ORDER_DATE	LAST_ORDER_DATE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/lastOrderDate
Global Classification Code	String	ALT_ITEM_CLASSN_CODE	ADDITIONAL_CLASS_CAT_ CODE	os:envelope/catalogueRequest/ document/item/globalAttributes/ globalClassificationCategory/code
Pricing Pack	Decimal	PRICING_PACK	PRICING_PACK	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/pricingPack
List Price Effective Start Date	Date	LIST_PRICE_DATE_START	LIST_PRICE_DATE_START	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/cataloguePrice/ effectiveStartDate
List Price Effective End Date	Date	LIST_PRICE_DATE_END	LIST_PRICE_DATE_END	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/cataloguePrice/ effectiveEndDate
Special Item Code	String	SPECIAL_ITEM_CODE	SPECIAL_ITEM_CODE	os:envelope/catalogueRequest/ document/item/globalAttributes/ marketingInformation/ specialItemCode

1WorldSync Attribute	MDM Data Type	Sync Profile Attribute	Repository Attribute	Xpath in 1WorldSync message
Feature Benefit	String	FEATURED_PRODUCT_DESC	FEATURED_PRODUCT_DESC	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/tradeItemFeatureBenefit
Is Raw Material Irradiated	String	RAW_MATERIAL_IRRADIATED	RAW_MATERIAL_IRRADIATED	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/isRawMaterialIrradiated
Is Ingredient Irradiated	String	INGREDIENT_IRRADIATED	INGREDIENT_IRRADIATED	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/isIngredientIrradiated
Peg Hole Number	Integer	PEG_HOLE_NUMBER	PEG_HOLE_NUMBER	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/pegMeasurements/ pegHoleNumber
Barcode Type	String	BAR_CODE_TYPE	BAR_CODE_TYPE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/dataCarrierTypeCode
Country of Assembly	String	TRADE_ITEM_COUNTRY_ ASSEMBLY	TRADE_ITEM_COUNTRY_ ASSEMBLY	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/tradeItemCountry OfAssembly
Variable Trade Item Type	String	VARIABLE_TRADE_ITEM_ TYPE	VARIABLE_TRADE_ITEM_ TYPE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/variableTradeItemType
Campaign End Date	Date	CAMPAIGN_END_DATE	CAMPAIGN_END_DATE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/campaignEndDate
Campaign Name	String	CAMPAIGN_NAME	CAMPAIGN_NAME	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/productActivityDetails/ countryOfActivity/countryCode
Campaign Start Date	Date	CAMPAIGN_START_DATE	CAMPAIGN_START_DATE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/campaignStartDate
Marketing Message	String	TRADE_ITEM_MARKETING_ MESSAGE	TRADE_ITEM_MARKETING_ MESSAGE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/tradeItem MarketingMessage

1WorldSync Attribute	MDM Data Type	Sync Profile Attribute	Repository Attribute	Xpath in 1WorldSync message
Season Calendar Year	Integer	SEASON_CALENDAR_YEAR	SEASON_CALENDAR_YEAR	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/season/ seasonCalendarYear
Season Name	String	SEASON_NAME	SEASON_NAME	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/season/seasonName
Season Parameter	String	SEASON_PARAMETER	SEASON_PARAMETER	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/season/ seasonParameter
Seasonal Start Date	Date	SEASON_AVAIL_START_DATE	SEASON_AVAIL_START_DATE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/season/seasonal AvailabilityStartDate
Seasonal End Date	Date	SEASON_AVAIL_END_DATE	SEASON_AVAIL_END_DATE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/season/seasonal AvailabilityEndDate
Target Consumer Age	String	TARGET_CONSUMER_AGE	TARGET_CONSUMER_AGE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/targetConsumerAge
Target Consumer Gender	String	TARGET_CONSUMER_GENDER	TARGET_CONSUMER_GENDER	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/targetConsumerGender
Feature Benefit	String	TRADE_ITEM_FEATURE_ BENEFIT	TRADE_ITEM_FEATURE_ BENEFIT	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/tradeItemFeatureBenefit
Compliance Regulation Code	String	CLASS_COMPLIANCE_REG_ CODE	CLASS_COMPLIANCE_REG_ CODE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/regulatoryInformation/ regulationTypeCode
Import Classification Type	String	IMPORT_CLASS_TYPE	IMPORT_CLASS_TYPE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/importIdentification/ importClassification/import ClassificationTypeCode

1WorldSync Attribute	MDM Data Type	Sync Profile Attribute	Repository Attribute	Xpath in 1WorldSync message
Import Classification Value	String	IMPORT_CLASS_VALUE	IMPORT_CLASS_VALUE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/importClassification/ importClassificationValue
Max DC Delivery Temp	Decimal	DELIVERY_DC_TEMP_MAX	DELIVERY_DC_TEMP_MAX	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/tradeItemTemperature Information/maximumTemperature
Max DC Delivery Temp UOM	String	DELIVERY_DC_TEMP_UOM	DELIVERY_DC_TEMP_UOM	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/deliveryToDC TemperatureMaximum[@uom]
Max Market Delivery Temp	Decimal	DELIVERY_MARKET_TEMP_ MAX	DELIVERY_MARKET_TEMP_ MAX	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/tradeItemTemperature Information/maximumTemperature
Max Market Delivery Temp UOM	String	DELIVERY_MARKET_TEMP_ UOM	DELIVERY_MARKET_TEMP_ UOM	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/deliveryToMarket TemperatureMaximum[@uom]
Max Storage Humidity	Decimal	STORAGE_HUMIDITY_MAX	STORAGE_HUMIDITY_MAX	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/tradeItemHumidity Information/maximumHumidity Percentage
Min DC Delivery Temp	Decimal	DELIVERY_DC_TEMP_MIN	DELIVERY_DC_TEMP_MIN	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/tradeItemTemperature Information/minimumTemperature
Min Market Delivery Temp	Decimal	DELIVERY_MARKET_TEMP_ MIN	DELIVERY_MARKET_TEMP_ MIN	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/tradeItemTemperature Information/minimumTemperature
Min Storage Humidity	Decimal	STORAGE_HUMIDITY_MIN	STORAGE_HUMIDITY_MIN	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/tradeItemHumidity Information/minimumHumidity Percentage

1WorldSync Attribute	MDM Data Type	Sync Profile Attribute	Repository Attribute	Xpath in 1WorldSync message
Product Range	String	PRODUCT_RANGE	PRODUCT_RANGE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/productRange
Inner Pack	String	QUANTITY_OF_INNER_PACK	QUANTITY_OF_INNER_PACK	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/innerPack
Composition Width	Decimal	TRADE_ITEM_COMPOS_WIDTH	TRADE_ITEM_COMPOS_WIDTH	os:envelope/catalogueRequest/ document/item/globalAttributes/ tradeItemCompositionWidth
Composition Width UOM	String	TRADE_ITEM_COMPOS_ WIDTH_UOM	TRADE_ITEM_COMPOS_ WIDTH_UOM	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/tradeItemComposition Width[@uom]
Descriptive Size Dim	String	DESCRIPTIVE_SIZE_ DIMENSION	DESCRIPTIVE_SIZE_ DIMENSION	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/nonPackageDimensions/ nonPackageSizeDimension/ nonPackagedSizeDimension/ descriptiveSizeDimension
Material Code	String	MATERIAL_CODE	MATERIAL_CODE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/materialComposition/ textileMaterial/textileMaterial Composition/materialCode
Material Content	String	MATERIAL_CONTENT	MATERIAL_CONTENT	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/materialComposition/ materialComposition/ materialContent
Material Percentage	Decimal	MATERIAL_PERCENTAGE	MATERIAL_PERCENTAGE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/materialComposition/ textileMaterial/textileMaterial Composition/materialPercentage
Material Weight	Integer	MATERIAL_WEIGHT	MATERIAL_WEIGHT	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/textileMaterial/ textileMaterialComposition/ materialWeight

1WorldSync Attribute	MDM Data Type	Sync Profile Attribute	Repository Attribute	Xpath in 1WorldSync message
Material Weight UOM	String	MATERIAL_WEIGHT_UOM	MATERIAL_WEIGHT_UOM	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/materialWeight[@uom]
Organic Claim Agency	String	ORGANIC_CLAIM_AGENCY	ORGANIC_CLAIM_AGENCY	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/organic/organicClaim/ organicClaimAgencyCode
Size Dimension	Decimal	SIZE_DIMENSION	SIZE_DIMENSION	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/nonPackageDimensions/ nonPackageSizeDimension/non PackagedSizeDimension/ sizeDimension
Size Dimension UOM	String	SIZE_DIMENSION_UOM	SIZE_DIMENSION_UOM	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/nonPackageDimensions/ nonPackageSizeDimension/size Dimension[@uom]
Size Group	String	SIZE_GROUP	SIZE_GROUP	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/nonPackageDimensions/ sizeGroupCode
Size System	String	SIZE_SYSTEM	SIZE_SYSTEM	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/nonPackageDimensions/ nonPackageSizeDimension/size SystemCode
Size Type	String	SIZE_TYPE	SIZE_TYPE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/nonPackageDimensions/ nonPackageSizeDimension/size TypeCode
Thread Count	String	THREAD_COUNT	THREAD_COUNT	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/textileMaterial/ textileMaterialComposition/ materialThreadCount
Consumer Availability Date	Date	CONSUMER_UNIT_AVAIL_ DATE	CONSUMER_UNIT_AVAIL_ DATE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/consumerAvailability

1WorldSync Attribute	MDM Data Type	Sync Profile Attribute	Repository Attribute	Xpath in 1WorldSync message
				`DateTime`
End Date of Exclusivity	Date	`END_DATE_OF_EXCLUSIVITY`	`END_DATE_OF_EXCLUSIVITY`	`os:envelope/catalogueRequest/` `document/item/targetMarket` `Attributes/endDate` `TimeOfExclusivity`
End Date of Max Buying Qty	Date	`END_DATE_MAX_BUYING`	`END_DATE_MAX_BUYING`	`os:envelope/catalogueRequest/` `document/item/targetMarket` `Attributes/endDateMaximum` `BuyingQuantity`
End Date of Min Buying Qty	Date	`END_DATE_MIN_BUYING`	`END_DATE_MIN_BUYING`	`os:envelope/catalogueRequest/` `document/item/targetMarket` `Attributes/endDateMinimumvBuyingQuantity`
First Delivery Date	Date	`FIRST_DELIVERY_DATE_TIME`	`FIRST_DELIVERY_DATE_TIME`	`os:envelope/catalogueRequest/` `document/item/targetMarket` `Attributes/firstDeliveryDateTime`
Start Date of Max Buying Qty	Date	`START_DATE_MAX_BUYING_QTY`	`START_DATE_MAX_BUYING_QTY`	`os:envelope/catalogueRequest/` `document/item/targetMarket` `Attributes/startDateMaximum` `BuyingQuantity`
Start Date of Min Buying Qty	Date	`START_DATE_MIN_BUYING_QTY`	`START_DATE_MIN_BUYING_QTY`	`os:envelope/catalogueRequest/` `document/item/targetMarket` `Attributes/startDateMinimum` `BuyingQuantity`
Deposit Value End Date	Date	`DEPOSIT_VAL_END_DATE`	`DEPOSIT_VAL_END_DATE`	`os:envelope/catalogueRequest/` `document/item/targetMarket` `Attributes/packagingMaterial/` `packagingInformation/package` `deposit/returnablePackage` `DepositAmount`
Deposit Value Start Date	Date	`DEPOSIT_VAL_EFF_DATE`	`DEPOSIT_VAL_EFF_DATE`	`os:envelope/catalogueRequest/` `document/item/targetMarket` `Attributes/packagingMaterial/` `packagingInformation/package` `deposit/depositValueEffectiveDate`
Offer On Pack	String	`OFFER_ON_PACK`	`OFFER_ON_PACK`	`os:envelope/catalogueRequest/` `document/item/targetMarket` `Attributes/offerOnPack`

1WorldSync Attribute	MDM Data Type	Sync Profile Attribute	Repository Attribute	Xpath in 1WorldSync message
Package Marks Diet Allergen	String	PACKAGE_MARKS_DIET_ALLERGEN	PACKAGE_MARKS_DIET_ALLERGEN	os:envelope/catalogueRequest/document/item/targetMarket Attributes/packageMarks DietAllergen
Package Marks Environment	String	PACKAGE_MARKS_ENVIRONMENT	PACKAGE_MARKS_ENVIRONMENT	os:envelope/catalogueRequest/document/item/targetMarket Attributes/packaging MarkedLabelAccreditationCode
Package Marks Ethical	String	PACKAGE_MARKS_ETHICAL	PACKAGE_MARKS_ETHICAL	os:envelope/catalogueRequest/document/item/targetMarket Attributes/packaging MarkedLabelAccreditationCode
Package Marks Free From	String	PACKAGE_MARKS_FREE_FROM	PACKAGE_MARKS_FREE_FROM	os:envelope/catalogueRequest/document/item/targetMarket Attributes/packageMarksFreeFrom
Packaging Marked Expiration Date Type	String	PKG_MARKED_EXPIRE_DATE_TYPE	PKG_MARKED_EXPIRE_DATE_TYPE	os:envelope/catalogueRequest/document/item/targetMarket Attributes/packagingDate/tradeItemDateOnPackaging TypeCode
Packaging Marked Recyclable Scheme	String	PKG_MARKED_RECYCLE_SCHEME	PKG_MARKED_RECYCLE_SCHEME	os:envelope/catalogueRequest/document/item/targetMarket Attributes/packagingMarked RecyclableScheme
Returnable Package Deposit Amount	Amount	RETURNABLE_PKG_DEPOSIT_AMT	RETURNABLE_PKG_DEPOSIT_AMT	os:envelope/catalogueRequest/document/item/targetMarket Attributes/packagingMaterial/packagingInformation/package deposit/returnablePackage DepositAmount
Returnable Package Deposit Code	String	RETURNABLE_PKG_DEPOSIT_CODE	RETURNABLE_PKG_DEPOSIT_CODE	os:envelope/catalogueRequest/document/item/targetMarket Attributes/packagingMaterial/packagingInformation/package deposit/returnablePackage DepositAmount
Security Tag Location	String	SECURITY_TAG_LOCATION	SECURITY_TAG_LOCATION	os:envelope/catalogueRequest/document/item/targetMarket Attributes/securityTagInformation/securityTagLocationCode

1WorldSync Attribute	MDM Data Type	Sync Profile Attribute	Repository Attribute	Xpath in 1WorldSync message
Security Tag Type	String	SECURITY_TAG_TYPE	SECURITY_TAG_TYPE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/securityTagInformation/ securityTagTypeCode
Terms or Conditions Code	Varchar	PACKAGING_TERMS_ CONDITIONS	PACKAGING_TERMS_ CONDITIONS	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/packagingMaterial/ packagingInformation/packaging TermsAndConditionsCode
Generic Ingredient	String	GENERIC_INGREDIENT	GENERIC_INGREDIENT	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/nonFoodIngredient/ nonFoodIngredientName
Generic Ingredient Strength	String	GENERIC_INGREDIENT_ STRENGTH	GENERIC_INGREDIENT_ STRENGTH	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/nonFoodIngredient/ ingredientStrength/ ingredientStrength
Generic Ingredient Strength UOM	String	GENERIC_INGREDIENT_STR_ UOM	GENERIC_INGREDIENT_STR_ UOM	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/genericIngredient Strength[@uom]
Goods Pick Up Lead Time	Decimal	GOODS_PICKUP_LEAD_TIME	GOODS_PICKUP_LEAD_TIME	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/goodsPickUpLeadTime
Goods Pick Up Lead Time UOM	String	GOODS_PICKUP_LEAD_TIME_ UOM	GOODS_PICKUP_LEAD_TIME_ UOM	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/goodsPickUpLeadTime[@uom]
Invoice Name	String	INVOICE_NAME	INVOICE_NAME	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/invoiceName
Is Size Based Pricing	Boolean	IS_TRADEITEM_SIZE_ BASED_PRIC	IS_TRADEITEM_SIZE_ BASED_PRIC	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/isTradeItemSize BasedPricing
Is Trade Item Reorderable	Boolean	IS_REORDERABLE	IS_REORDERABLE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/isTradeItemReorderable

1WorldSync Attribute	MDM Data Type	Sync Profile Attribute	Repository Attribute	Xpath in 1WorldSync message
Ordering UOM	String	ORDERING_UOM	ORDERING_UOM	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/orderingUnitOfMeasure
Selling UOM	String	SELLING_UOM	SELLING_UOM	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/sellingUnitOfMeasure
Max Buying Quantity	Integer	AGREED_MAX_BUYING_ QUANTITY	AGREED_MAX_BUYING_ QUANTITY	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/agreedMaximum BuyingQuantity
Min Buying Quantity	Integer	AGREED_MIN_BUYING_ QUANTITY	AGREED_MIN_BUYING_ QUANTITY	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/agreedMinimum BuyingQuantity
Price By Measure Type	String	PRICE_BY_MEASURE_TYPE	PRICE_BY_MEASURE_TYPE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/priceByMeasureType
Price Comparison Measurement	Decimal	PRICE_COMP_MEASUREMENT	PRICE_COMP_MEASUREMENT	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/priceComparison Measurement
Price Comparison Measurement UOM	String	PRICE_COMP_UOM	PRICE_COMP_UOM	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/priceComparison Measurement[@uom]
Retail Price On Trade Item	Amount	RETAIL_PRICE_ON_ITEM	RETAIL_PRICE_ON_ITEM	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/additionalTradeItem Price/tradeItemPrice
Price Comparison Content Type	String	PRICE_COMP_CONTENT_TYPE	PRICE_COMP_CONTENT_TYPE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/priceComparison ContentType
Suggested Retail Price Effective End Date	Date	EFFECTIVE_END_DATE	EFFECTIVE_END_DATE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/suggestedRetail/ effectiveEndDate

1WorldSync Attribute	MDM Data Type	Sync Profile Attribute	Repository Attribute	Xpath in 1WorldSync message
Suggested Retail Price Effective Start Date	Date	EFFECTIVE_START_DATE	EFFECTIVE_START_DATE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/suggestedRetail/ effectiveStartDate
Tax Amount	Amount	TAX_AMOUNT	TAX_AMOUNT	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/taxAmount/duty FeeTaxInformation/dutyFeeTax/ dutyFeeTaxAmount
Tax Amount Currency	String	CURRENCY_CODE	CURRENCY_CODE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/taxAmount/currency
Tax (Rate) Type Agency	String	TAX_AGENCY_CODE	TAX_AGENCY_CODE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/taxRate/agencyCode
Tax (Rate) Type Description	String	TAX_TYPE_DESC	TAX_TYPE_DESC	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/taxRate/typeDescription
Finish Description	String	TRADE_ITEM_FINISH_DESC	TRADE_ITEM_FINISH_DESC	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/tradeItemFinishDescription
Min Product Lifespan from Production	String	MINLIFE_SPAN_FROM_ PRODUCTION	MIN_LIFE_SPAN_TIME_OF_ PUB	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/minimum TradeItemLifespanFromProduction
Retail Price On Trade Item Currency	String	RETAIL_PRICE_ON_ITEM_ CURR	RETAIL_PRICE_ON_ITEM_ CURR	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/retailPriceOn TradeItem[@currency]
Returnable Package Deposit Currency	String	RETURN_PKG_DEPOSIT_AMT_ CURR	RETURN_PKG_DEPOSIT_AMT_ CURR	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/packagingMaterial/ returnablePackageDeposit Amount[@currency]
Tax (Amount) Type Description	String	TAX_AMT_TAX_TYPE_DESC	TAX_AMT_TAX_TYPE_DESC	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/taxAmount/dutyFee TaxInformation/dutyFeeTax

1WorldSync Attribute	MDM Data Type	Sync Profile Attribute	Repository Attribute	Xpath in 1WorldSync message
				TypeDescription
Tax (Amount) Type Agency	String	TAX_AMT_TAX_AGENCY_CODE	TAX_AMT_TAX_AGENCY_CODE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/taxAmount/dutyFee TaxInformation/dutyFeeTax Agency/AgencyCode
Tax (Amount) Type Code	String	TAX_AMT_TAX_TYPE_CODE	TAX_AMT_TAX_TYPE_CODE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/taxAmount/dutyFee TaxInformation/dutyFeeTax TypeCode
Material Agency Code	String	MATERIAL_AGENCY_CODE	MATERIAL_AGENCY_CODE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/materialComposition/ textileMaterial/material AgencyCode
Is Barcode Symbology Derivable	Boolean	ISBARCODEDERIVABLE	ISBARCODEDERIVABLE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/gs1TradeItem IdentificationKey/isBarcode SymbologyDerivable
Lead Time UOM	String	LEADTIMEUOM	LEADTIMEUOMCODE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/leadTime[@uom]
TM Subdivision	String	TARGET_MARKET_ SUBDIVISION	TARGET_MARKET_ SUBDIVISION	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/targetMarket SubdivisionCode
Party Receiving Private Data	String	PARTY_RECEIVING_ PRIVATE_DATA	PARTY_RECEIVING_ PRIVATE_DATA	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/partyReceivingP rivateDataGLN
GTIN Variation Registry	Boolean	GTIN_VARIATION_REGISTRY	GTIN_VARIATION_REGISTRY	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/gtinVariationRegistry
Manufacturer Name	String	MANUFACTURER_NAME	MANUFACTURER_NAME	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/manufacturer/name

1WorldSync Attribute	MDM Data Type	Sync Profile Attribute	Repository Attribute	Xpath in 1WorldSync message
Green Dot Indicator	Boolean	GREEN_DOT_INDICATOR	PACKAGE_MARKED_GREEN_DOT	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/greenDotIndicator
Order Sizing Factor UOM	String	ORDER_SIZING_FACTOR_UOM	ORDER_SIZING_FACTOR_UOM	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/orderSizingFactor[@uom]
GLN Of Ship From Party	String	SHIP_LOCATION_GLN	SHIP_LOCATION_GLN	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/flex/partyInRole/ gln with partyRoleCode = SHIP_FROM
Name Of Ship From Party	String	SHIP_LOCATION_NAME	SHIP_LOCATION_NAME	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/flex/partyInRole/ name with partyRoleCode = SHIP_FROM
Uniform Resource Identifier	String	URI	URI	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/flex/attrGroupMany [@name='externalFileLink']/row/ attr[@name='uniformResource Identifier']
Link File Name	String	FILE_NAME_EXT	FILE_NAME_EXT	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/flex/attrGroupMany [@name='externalFileLink']/row/ attr[@name='externalFile LinkFileName']
File Format Name	String	FILE_FORMAT_NAME	FILE_FORMAT_NAME	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/flex/attrGroupMany [@name='externalFileLink']/row/ attr[@name='fileFormatName']
File Effective Start Date	Date	FILE_EFFECTIVE_START_DATE	FILE_EFFECTIVE_START_DATE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/flex/attrGroupMany [@name='externalFileLink']/row/ attr[@name='fileEffective StartDateTime']
File Effective End Date	Date	FILE_EFFECTIVE_END_DATE	FILE_EFFECTIVE_END_DATE	os:envelope/catalogueRequest/ document/item/targetMarket

1WorldSync Attribute	MDM Data Type	Sync Profile Attribute	Repository Attribute	Xpath in 1WorldSync message
				Attributes/flex/attrGroupMany [@name='externalFileLink']/row/ attr[@name='fileEffective EndDateTime']
Link Content Description	String	CONTENT_DESC	CONTENT_DESC	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/flex/attrGroup Many/row/attrQualMany [@name='externalFileLink ContentDescription']/value
File Format Description	String	FILE_FORMAT_DESC	FILE_FORMAT_DESC	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/flex/attrGroup Many/row/attrQualMany [@name='fileFormat Description']/value
Consumer Usage Storage Instructions	String	STORAGE_INSTRUCTION	STORAGE_INSTRUCTION	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/flex/attrQualMany [@name='consumerUsage StorageInstructions']/value
Layer Height	Decimal	LAYER_HEIGHT	LAYER_HEIGHT	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/flex/attrQual [@name='layerHeight']
Layer Height UOM	String	LAYER_HEIGHT_UOM	LAYER_HEIGHT_UOM	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/flex/attrQual [@name='layerHeight'][@qual]
Type Of Information	String	TYPE_INFORMATION	TYPE_INFORMATION	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/flex/attrGroupMany [@name='externalFileLink']/row/attr [@name='typeOfInformation']
Is Trade Item Packed Irregularly?	String	IS_ITEM_PACKED_ IRREGULARLY	SHIP_LOCATION_NAME	os:envelope/catalogueRequest/ document/item/globalAttributes/ isTradeItemPackedIrregularly
Item Composition Depth	Decimal	ITEM_COMPOSITION_DEPTH	ITEM_COMPOSITION_DEPTH	os:envelope/catalogueRequest/ document/item/globalAttributes/ tradeItemCompositionDepth

1WorldSync Attribute	MDM Data Type	Sync Profile Attribute	Repository Attribute	Xpath in 1WorldSync message
Item Composition Depth UOM	Varchar	ITEM_COMPOSITION_DEPTH_UOM	ITEM_COMPOSITION_DEPTH_UOM	os:envelope/catalogueRequest/document/item/globalAttributes/tradeItemCompositionDepth/@uom
Package Marks Hygienic	String	PKG_MARKED_HYGIENIC	PKG_MARKED_HYGIENIC	os:envelope/catalogueRequest/document/item/targetMarketAttributes/flex/packagingMarkedLabelAccreditationCode
Tax Rate Applicability Code	String	TAX_RATE_APPLICABILITY_CODE	TAX_RATE_APPLICABILITY_CODE	os:envelope/catalogueRequest/document/item/targetMarketAttributes/taxRate/taxRateApplicabilityCode
Tax Amount Applicability Code	String	TAX_AMT_APPLICABILITY_CODE	TAX_AMT_APPLICABILITY_CODE	os:envelope/catalogueRequest/document/item/targetMarketAttributes/taxAmount/taxAmountApplicabilityCode
Clamp Pressure	Decimal	CLAMP_PRESSURE	CLAMP_PRESSURE	os:envelope/catalogueRequest/document/item/targetMarketAttributes/flex/attrQual[@name='clampPressure']
Clamp Pressure UOM	String	CLAMP_PRESSURE_UOM	CLAMP_PRESSURE_UOM	os:envelope/catalogueRequest/document/item/targetMarketAttributes/flex/attrQual[@name='clampPressure'][@qual]
Orientation Type	String	ORIENTATION_TYPE	ORIENTATION_TYPE	os:envelope/catalogueRequest/document/item/targetMarketAttributes/flex/attrGroupMany[@name='tradeItemOrientation']/row/attr[@name='orientationType']
Orientation Preference Sequence	Integer	ORIENTATION_PREF_SEQ	ORIENTATION_PREF_SEQ	os:envelope/catalogueRequest/document/item/targetMarketAttributes/flex/attrGroupMany[@name='tradeItemOrientation']/row/attr[@name='orientationPreferenceSequence']
Nesting Direction	String	NESTING_DIRECTION	NESTING_DIRECTION	os:envelope/catalogueRequest/document/item/targetMarketAttributes/flex/tradeItemNesting/nestingTypeCode

1WorldSync Attribute	MDM Data Type	Sync Profile Attribute	Repository Attribute	Xpath in 1WorldSync message
Nesting Type	String	NESTING_TYPE	NESTING_TYPE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/flex/tradeItemNesting/ nestingDirectionCode
Has Display Ready Packaging?	String	HAS_DISPLAY_READY_PKG	HAS_DISPLAY_READY_PKG	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/flex/attr [@name='hasDisplayReadyPackaging']
Electrical Usage Trade Item Classification Agency	String	ELEC_USAGE_CLASS_AGENCY	ELEC_USAGE_CLASS_AGENCY	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/flex/physical ResourceUsageInformation/ physicalResourceUsageTrade ItemClassification/physical ResourceUsageClassification Agency
Electrical Usage Trade Item Classification Name	String	ELEC_USAGE_CLASS_NAME	ELEC_USAGE_CLASS_NAME	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/flex/physical ResourceUsageInformation/ physicalResourceUsageTrade ItemClassification/physical ResourceUsageClassificationName
Electrical Usage Subclassification Name	String	ELEC_USAGE_SUBCLASS_ NAME	ELEC_USAGE_SUBCLASS_ NAME	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/flex/physicalResource UsageInformation/physicalResource UsageTradeItemClassification/ physicalResourceUsage SubclassificationAgency
Display Dimension Type Code	String	DISPLAY_DIMENSION_CODE	DISPLAY_DIMENSION_CODE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/flex/attrGroupMany [@name='displayDimensions']/ row/attr[@name='display DimensionTypeCode']
Dimension Depth	Integer	DISPLAY_DIMENSION_DEPTH	DISPLAY_DIMENSION_DEPTH	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/flex/attrGroupMany [@name='displayDimensions']/ row/attrQual[@name='dimension Depth']

1WorldSync Attribute	MDM Data Type	Sync Profile Attribute	Repository Attribute	Xpath in 1WorldSync message
Dimension Depth UOM	String	DISPLAY_DIMENSION_DEPTH_UOM	DISPLAY_DIMENSION_DEPTH_UOM	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/flex/attrGroupMany [@name='displayDimensions']/ row/attrQual[@name='dimension Depth'][@qual]
Dimension Width	Integer	DISPLAY_DIMENSION_WIDTH	DISPLAY_DIMENSION_WIDTH	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/flex/attrGroupMany [@name='displayDimensions']/ row/attrQual[@name='dimension Width']
Dimension Width UOM	String	DISPLAY_DIMENSION_WIDTH_UOM	DISPLAY_DIMENSION_WIDTH_UOM	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/flex/attrGroupMany [@name='displayDimensions']/ row/attrQual[@name='dimension Width'][@qual]
Dimension Height	Integer	DISPLAY_DIMENSION_HEIGHT	DISPLAY_DIMENSION_HEIGHT	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/flex/attrGroupMany [@name='displayDimensions']/ row/attrQual[@name='dimension Height']
Dimension Height UOM	String	DISPLAY_DIMENSION_HEIGHT_UOM	DISPLAY_DIMENSION_HEIGHT_UOM	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/flex/attrGroupMany [@name='displayDimensions']/ row/attrQual[@name='dimension Height'][@qual]
Warranty Effective Date Type	String	WARRANTY_EFF_DATE_TYPE	WARRANTY_EFF_DATE_TYPE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/flex/warranty Information/warranty EffectiveDateType
Warranty Type	String	WARANTY_TYPE	WARANTY_TYPE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/flex/warranty Information/warrantyType
Warranty Constraint	String	WARRANTY_CONSTRAINT	WARRANTY_CONSTRAINT	os:envelope/catalogueRequest/ document/item/targetMarket

1WorldSync Attribute	MDM Data Type	Sync Profile Attribute	Repository Attribute	Xpath in 1WorldSync message
				Attributes/flex/warranty Information/warrantyConditions/ warrantyConstraint
Warranty Period	Integer	WARRANTY_DURATION	WARRANTY_DURATION	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/flex/warranty Information/warrantyConditions/ warrantyDuration
Warranty Information Description	String	WARRANTY_DESC	WARRANTY_DESC	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/flex/warranty Information/warrantyDescription
Is Product A Pesticide?	String	CONTAINS_PESTICIDE	CONTAINS_PESTICIDE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/flex/doesTrade ItemContainPesticide
Is Product Aerosol?	String	CONTAINS_PROPELLANT	CONTAINS_PROPELLANT	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/flex/attr [@name='isProductAerosol']
Is Product Chemical Not Intended For Human Consumption?	String	CHEMICAL_FOR_HUMAN_ CONSUME	CHEMICAL_FOR_HUMAN_ CONSUME	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/flex/attr [@name='isProductChemicalNot IntendedForHumanConsumption']
Percentage Of Plastic Components Made From a Plant Based Material	Integer	RENEWABLE_PLASTIC_ PERCENT	RENEWABLE_PLASTIC_ PERCENT	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/flex/renewablePlant BasedPlasticComponentsPercent
Is Product Subject To A Manufacturer Take Back Program?	String	TAKE_BACK_PROGRAM	TAKE_BACK_PROGRAM	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/flex/doesManufacturer HaveTakeBackProgram
Manufacturer Take Back Program Fee	Integer	TAKE_BACK_PROGRAM_FEE	TAKE_BACK_PROGRAM_FEE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/flex/attrQualMany [@name='manufacturer TakeBackProgramFee']/value

1WorldSync Attribute	MDM Data Type	Sync Profile Attribute	Repository Attribute	Xpath in 1WorldSync message
Packaging Marked Recyclable Scheme	String	PKG_MARKED_RECYCLABLE	PKG_MARKED_RECYCLABLE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/packagingMarked RecyclableScheme
Trade Item Default Time Limit Of Auto Power Down Function Value	Date	POWER_DOWN_DEF_TIME	POWER_DOWN_DEF_TIME	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/flex/attr [@name='tradeItemDefaultTime LimitOfAutoPowerDown FunctionValue']
Trade Item Default Time Limit Of Auto Power Down Function UOM	String	POWER_DOWN_DEF_TIME_UOM	POWER_DOWN_DEF_TIME_UOM	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/flex/attr [@name='tradeItemDefaultTime LimitOfAutoPowerDown FunctionUOM']
Electrical Usage Agency Code	String	ELE_USAGE_AGENCY_CODE	ELE_USAGE_AGENCY_CODE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/flex/attrMany [@name='electricalUsageAgency Code']/value
Is Trade Item Auto Powered Down Enabled When Shipped To Customer	String	POWER_DOWN_ENABLED	POWER_DOWN_ENABLED	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/flex/isTradeItem AutomaticPowerDownEnabled
Electrical Usage Class Code	String	ELEC_USAGE_CLASS_CODE	ELEC_USAGE_CLASS_CODE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/flex/physical ResourceUsageInformation/ physicalResourceUsageTrade ItemClassification/physical ResourceUsageClassification Code
Electrical Usage Sub Class Code	String	ELEC_USAGE_SUBCLASS_ CODE	ELEC_USAGE_SUBCLASS_ CODE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/flex/physical ResourceUsageInformation/ physicalResourceUsage TradeItemClassification/ physicalResourceUsageSub classificationCode

1WorldSync Attribute	MDM Data Type	Sync Profile Attribute	Repository Attribute	Xpath in 1WorldSync message
Maximum Energy Usage Time Period	Decimal	MAX_ENERGY_USAGE	MAX_ENERGY_USAGE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/flex/physical ResourceUsageInformation/ physicalResourceUsage/physical ResourceUsage
Maximum Energy Usage Time Period UOM	String	MAX_ENERGY_USAGE_UOM	MAX_ENERGY_USAGE_UOM	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/flex/attrGroupMany [@name='electricalUsage']/row/ attrQual[@name='maximum EnergyUsageTimePeriod'] [@qual]
Electrical Usage Class Screen Area Value	String	TOTAL_SCREEN_AREA	TOTAL_SCREEN_AREA	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/flex/totalScreenArea
Electrical Usage Class Screen Area UOM	String	TOTAL_SCREEN_AREA_UOM	TOTAL_SCREEN_AREA_UOM	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/flex/attrQualMany [@name='electricalUsageClass ScreenAreaValue']/value[@qual]
Electrical Usage Class Resolution Code	String	DISPLAY_RESOLUTION	DISPLAY_RESOLUTION	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/flex/displayResolution Code
Electrical Usage Class Mode Code	String	RUN_MODE	RUN_MODE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/flex/physical ResourceUsageInformation/ physicalResourceUsage/ runModeCode
Manufacturer Take Back Program Currency	String	TAKE_BACK_PROGRAM_FEE_ CURR	TAKE_BACK_PROGRAM_FEE_ CURR	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/flex/attrQualMany [@name='manufacturerTakeBack ProgramFee']/value[@qual]
Warranty Condition Effective Date Type	String	WARRANTY_CON_EFF_DATE_ TYPE	WARRANTY_CON_EFF_DATE_ TYPE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/flex/warranty Information/warranty EffectiveDateType

1WorldSync Attribute	MDM Data Type	Sync Profile Attribute	Repository Attribute	Xpath in 1WorldSync message
Warranty Period UOM	String	WARRANTY_DURATION_UOM	WARRANTY_DURATION_UOM	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/flex/attrGroupMany [@name='warrantyConditionInfo']/ row/attr[@name=warranty Period']
Country of Last Provenance/Processing	String	COUNTRY_LAST_PROVENANCE	COUNTRY_OF_LAST_ PROCESSING	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/flex/productActivity Details/countryOfActivity/ countryCode productActivityType Code=LAST_PROCESSING
Trade Channel	String	TRADE_CHANNEL	TRADE_CHANNEL	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/flex/attrMany [@name='tradeChannel']/value
Is Hazardous Component Broken Down Easily For Recycling	String	HAZARDOUS_COMP_ REMOVABLE	HAZARDOUS_COMP_ REMOVABLE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/flex/areHazardous ComponentsRemovable
Percent Of Product Components Labeled For Disassembly And Recycling	Decimal	DISASSEMBLY_RECYCLE_ PERCENT	DISASSEMBLY_RECYCLE_ PERCENT	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/flex/components LabeledForDisassembly RecyclingPercen
Is Product Disassembly By Recycling Facility Completed Using Standard Tools	String	DESIGN_FOR_EASY_ DISASSMBLY	DESIGN_FOR_EASY_ DISASSMBLY	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/flex/attr [@name='isProductDisassembly ByRecyclingFacilityCompleted UsingStandardTools']
Is Product RPPC Compliant in Target Market	String	IS_RIGID_PLASTIC_ PACKAGING	IS_RIGID_PLASTIC_ PACKAGING	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/flex/isTradeItem RigidPlasticPackagingContainer
Product RoHS Compliance Code	String	IS_ROHS_COMPLIANT	IS_ROHS_COMPLIANT	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/flex/isTrade ItemROHSCompliant

1WorldSync Attribute	MDM Data Type	Sync Profile Attribute	Repository Attribute	Xpath in 1WorldSync message
Is Product Considered Universal Waste?	String	IS_UNIVERSAL_WASTE	IS_UNIVERSAL_WASTE	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/flex/isTrade ItemUniversalWaste
Can Product Be Easily Upgraded Or Maintained By Consumer	String	IS_UPGRADEABLE_OR_ MAINTAIN	IS_UPGRADEABLE_OR_ MAINTAIN	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/flex/isTradeItem ConsumerUpgradeableOr Maintainable
Materials That Fail RoHS Compliance	String	ROHS_COMPL_FAILURE_ MATERIAL	ROHS_COMPL_FAILURE_ MATERIAL	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/flex/rOHSCompliance FailureMaterial
Link File Name	String	EXT_FILE_LINK_FILE_NAME	EXT_FILE_LINK_FILE_NAME	os:envelope/catalogueRequest/ document/item/targetMarket Attributes/flex/attr[@name= 'externalFileLinkFileName']

MDM Operations for 1WorldSync Messages

The following is a list of 1WorldSync messages and corresponding operations selected by MDM for these messages.

Supplier Operations

MDM Operations for 1WorldSync Messages (Supplier Operations)

1WorldSync message type	Operation selected on Synchronization Profile			Corresponding Operation and sub-operation selected in synchronization event
ITEM ADD	Incremental	Deliver To	Operation	Add: New
	Yes	Datapool	Add	
ITEM MODIFY/CORRECT	Incremental	Deliver To	Operation	
	Yes/No	Datapool	Data Correction/	ADD:CORRECT
			Cancel/ Discontinue/ Reinstate	Beside this ADD:CANCEL, ADD:DISCONTINUE and ADD:REINSTATE are also handled with this message.

1WorldSync message type	Operation selected on Synchronization Profile			Corresponding Operation and sub-operation selected in synchronization event
LINK ADD	Incremental	Deliver To	Operation	LINK:NONE
	Yes /No	Datapool	Add/ Data Correction	
LINK DELETE	Incremental	Deliver To	Operation	LINK:UNLINK
	Yes/No	Datapool	Add/ Data Correction	
PUBLICATION ADD	Incremental	Deliver To	Operation	PUBLISH:NEW
	Yes /No	Trading Partner on Datapool	Add/ Publish SubOperation for Add/Publish: New SubOperations Only applicable to Publish operation: For RELOAD-COPY: Initial Load For RELOAD-ORIGINAL- Initial Load+ Include Rejected Records	PUBLISH:IMPLICIT PUBLISH: RELOAD-COPY PUBLISH: RELOAD-ORIGINAL

Retailer Operations

MDM Operations for 1WorldSync Messages (Retailer Operations)

Message Type	Incoming/ Outgoing	Description
1WorldSync Catalogue Item Notification (CIN)	Incoming	This new or initial or correction load message is received from Datapool when the supplier publishes the record for the retailer.
1WorldSync Catalogue Item Confirmation (CIC)	Outgoing	Catalog Item Confirmation message of the Received, Rejected, Review, and Synchronize type sent by the retailer in receipt of the CIN message received. For the steps to specify this message, refer Specifying Catalogue Item Confirmation Response.
1WorldSync Request For Catalogue Item Notification (RFCIN)	Outgoing	The RFCIN message sent by the retailer with isReload set as true/false. For the steps to specify this message, refer to Specifying Request For Catalogue Item Notification Message.
1WorldSync Catalogue Item Notification Response (CINR)	Outgoing	This response message is sent by MDM in response to CIN.
1WorldSync Catalogue Item Confirmation Response	Incoming	The Catalog Item Confirmation response (CICR) received from Datapool in response to CIC messages.

Message Type	Incoming/ Outgoing	Description
1WorldSync Request For Catalogue Item Notification Response	Incoming	The Request For Catalog Item Notification Response (RFCINR) received from Datapool in response to RFCIN messages.

Specifying Catalogue Item Confirmation Response

Procedure

1. Log in to the user's enterprise with user credentials.

2. Click **Browse and Search.**

3. Select a repository and click **View All**.

4. Select the record for which the CIC message is to be specified.

5. On the View Record page, select **Send Response**.

6. Select the required Action.

   - **Review**: Select the Confirmation Status Code and Corrective Action.

   - **Received**: Select the Retailer Credential.

   - **Synchronised**: Select the Retailer Credential.

   - **Rejected**: Select the Confirmation Status Code and Corrective Action.

7. Click **Submit**.

Specifying Request For Catalogue Item Notification Message

Procedure

1. Log in to the user's enterprise with user credentials.

2. Click **Browse and Search.**

3. Select a repository and click **View All**.

4. Select the record for which message is to be specified.

5. On the View Record page, select **Send Message**.

6. Select the **Action** as **RFCIN - Generate RFCIN Message**.

7. Select the **Datapool**.

8. Select **Trading Partner**.

> ℹ **Note: Verify the Company Credential and Trading Partner Credential details.**

9. Click **Submit**.

Correction Versus Modify

Based on GS1 Standards and Global Data Synchronization Network (GDSN) standards, changes to some attributes require a new GTIN.

Information regarding the GS1 Standards is available at GS1 documentation site.

For these attributes, MDM generates a **Correct** message. For changes to all other attributes, MDM generates a **Modify** message.

MDM sends Item correction for the following 1WorldSync attributes:

- Alternate Item Classification Code
- Alternate Item Classification Scheme
- Brand Name
- Brand Owner GLN
- Canceled Date
- Depth (if change > 20%)
- Depth UOM
- Discontinued Date
- EANUCC Code
- EANUCC Type
- Global Item Classification Code
- Gross Weight (if change > 20%)
- Gross Weight UOM
- Height (if change > 20%)
- Height UOM
- Net Content

- Net Content UOM

- Net Weight

- Net Weight UOM

- Product Type

- Qty of Next Level Item(s)

- Volume (if change > 20%)

- Volume UOM

- Width (if change > 20%)

- Width UOM

Supported 1WorldSync Responses

MDM supports the following 1WorldSync responses:

- Catalogue Response

```
ITEM MAINTENANCE CATALOGUE RESPONSE
ITEM LINK CATALOGUE RESPONSE
ITEM PUBLICATION CATALOGUE RESPONSE
MESSAGE EXCEPTION RESPONSE
1SYNC GDSN ITEM REGISTRY RESPONSE
```

- Item Synchronization Response

- Item Authorization Response

- 1SYNC Catalogue Item Notification (1SYNC CIN)

- 1SYNC Catalogue Item Notification Response (1SYNC CINR)

- 1SYNC Catalogue Item Confirmation (1SYNC CIC)

- 1SYNC Catalogue Item Confirmation Response (1SYNC CICR)

- 1SYNC Request For Catalogue Item Notification (1SYNC RFCIN)

- 1SYNC Request For Catalogue Item Notification Response (1SYNC RFCINR)

Changing Message Choreography

You can use MDM to work with specific datapools.

Procedure

1. Update Rulebase to support New Message Type. For MDM to support a new message type, the first step is to update the `rbformatattributes_gdsn.xml` rulebase file so the new synchronization format is detected in the synchronization profile UI.

   - Update the `$MQ_COMMON_DIR/standard/rulebase/rbformatattributes_gdsn.xml` file.

2. Update Map file to support New Message Type. The next step is to update the map file to support the new message type.

   - Update the datapool specific map file from the `$MQ_COMMON_DIR/standard/maps` folder.

   - For more details on datapool specific map files for different message types, refer to GDSN-Specific Maps.

3. Update Sync Operation Identifier Rulebase. Next, update the datapool specific sync operation identifier rulebase to identify datapool specific sync operations.

   - Update the appropriate file in:`$MQ_COMMON_DIR/standard/rulebase`.

   - For 1WorldSync, the rulebase name is `rbtransorasupplier.xml`

4. Status Derivation. When a datapool receives a message from the MDM supplier or retailer applications, a response is sent to the appropriate application. Based on the response, MDM updates the status of the record. For example, if an "Item add" message is sent, the record is internally updated based on the response received from the datapool. You can update the status derivation.

   - To add or to update an operation from the UI on the supplier or retailer applications, change the constraints from the following file `$MQ_COMMON_DIR/standard/rulebase/rbsyncstatusupdatederivation.xml`.

   - To update from the UI, change the constraints in the `$MQ_COMMON_DIR/standard/rulebase/rbsyncstatusupdatederivation.xml` update statusderivation.xml file.

   - To update record status derivation on receiving a response from the datapool, change the constraints in the `$MQ_COMMON_DIR/standard/rulebase/statusderivation.xml` file.

5. Message Handler Selection. To change the message handler selection, properties similar to the following should be updated in `$MQ_HOME/config/gdsn.config`

   - `com.tibco.cim.connector.plugin.mapping.handlemessaging.supplier.*1sync*=com.tibco.cim.init.connector.plugin.handlemessaging.supplier.1Sync`

   - `com.tibco.cim.init.connector.plugin.handlemessaging.supplier.1Sync.class=com.tibco.mdm.gdsn.integration.connector.TransoraMessagingHandler`

Configurable Components

Record Validation on UI

To enable record validation through the UI, depending on your datapool, copy the appropriate rulebase from the standard rulebase folder to your enterprise specific repository location:

File to copy For 1WorldSync: `_1sync_mastercatalog_catalogvalidation.xml`

Copy from `$MQ_HOME/plugins/gdsn/<version>/common/standard/rulebase`

Copy to `$MQ_COMMON_DIR/<ENTERPRISE_INTERNALNAME>/catalog/master/<REPOSITORYID>`

Rename it to `catalogvalidation.xml`.

Synchronization Profile Validation

Out-of-the-box catalog synchronization is provided through datapool specific rulebase files which declare validation rules.

File to copy For 1WorldSync: `_1Sync_catalogvalidation.xml`

Copy from `$MQ_HOME/plugins/gdsn/<version>/common/standard/rulebase`

Copy to `$MQ_COMMON_DIR/standard/rulebase`

Rulebase for Protocol Selection

This rulebase decides the protocol to be used by the messaging handler for outgoing messages or the response handler for incoming messages.

`$MQ_COMMON_DIR/standard/rulebase/rbconnectorprotocolderivation_gdsn.xml`

GDSN Impact on Workflows and Rulebase

GDSN impacts the workflows and rulebase in TIBCO MDM.

- GDSN Impact on Rulebase

- GDSN Impact on Workflows

GDSN Impact on Rulebase

Modifying Business Process Rules

In the Rule List page, click the repository name to modify the rule. Use this page to modify the existing conditions, actions, and defaults used in workflow processing. If a backend system is part of the rule template, only Datapools associated with that backend system are displayed.

SyncOperationAttribute

This function is used to find the operation date. The function gets the latest sync date for the given Operation (only ADD is supported) from a Datapool or Trading Partner.

Syntax

```
<var>OPERATION_DATE</var>
<op func="SyncOperationAttribute">
<const type="string">ADD</const>
<const type="string">1Sync</const>
<!--const type="string">Trading Partner Name</const-->
</op>
```

For this function, three parameters can be specified.

The second parameter is the marketplace or datapool name. This is optional; if not specified, the rulebase evaluates it.

The third parameter is the trading partner name and is optional. If not specified, it looks for all trading partners; if specified, it looks for the operation for the given trading partner.

GDSN Impact on Workflows

GDSN Specific Workflows

The following table lists the various GDSN processes along with supported Document Type, Document Sub Type, Repository, and so on.

GDSN Processes

Document Type	Document Sub Type	Repository	Sync Profile	Default Sender	Default Receiver	Org Type	Software Edition	Doc Format	Process Definition Name	Default
Record Authorization Notification	Any	Any	Any	1Sync	Any	Any	Any	Any	wfout1sync62cic26v1.xml - 1sync CIC Process	No
RecordAuthorization Notification	Any	Any	Any	1SyncTest	Any	Any	Any	Any	wfout1sync62cic26v1.xml - 1sync CIC Process	No
RecordPublication Notification	Any	Any	Any	1Sync	Any	Any	Any	Any	wfout1sync62cic26v1.xml - 1sync CIC Process	No
RecordPublication Request	Any	Any	Any	1Sync	Any	Any	Any	Any	wfout1sync62cic26v1.xml - 1sync CIC Process	No
RecordPublication Notification	Any	Any	Any	1SyncTest	Any	Any	Any	Any	wfout1sync62cic26v1.xml - 1sync CIC Process	No
RecordPublication Request	Any	Any	Any	1SyncTest	Any	Any	Any	Any	wfout1sync62cic26v1.xml - 1sync CIC Process	No
Request for CIN Notification	Any	Any	Any	1SyncTest	Any	Any	Any	Any	wfout1sync62cic26v1.xml - 1sync CIC Process	No
Request for CIN Notification	Any	Any	Any	1Sync	Any	Any	Any	Any	wfout1sync62cic26v1.xml - 1sync CIC Process	No
Any	Any	Any	Any	Any	Any	Any	Any	cim2cim document	wfoutveloselcin26v2.xml - CIN Process for CIM2CIM	No
Request for CIN Notification	Any	Any	Any	Any	Any	Any	Any	Any	wfin26rfcinv2.xml - Receive RFCIN Process	No
RFCIN Notification	Any	Any	Any	Any	Any	Any	Any	Any	wfin26catactionRFCINv2.xml - RFCIN Retailer Process	No
RecordPublication	Publication Delivery	Any	Any	Any	Any	Any	Any	Any	wfin26prodnotifv2.xml - Response	No

Document Type	Document Sub Type	Repository	Sync Profile	Default Sender	Default Receiver	Org Type	Software Edition	Doc Format	Process Definition Name	Default
Notification	Notification								Notification process	
RecordPublication Notification	Any	Any	Any	Any	Any	Any	Any	Any	wfin26prodnotifretailerv4.xml - Record Notification process	No
RecordContent Notification	Datapool Response Notification	Any	Any	Any	Any	Any	Any	Any	wfin26prodnotifv2.xml - Response Notification process	No
RecordContent Notification	Registry Response Notification	Any	Any	Any	Any	Any	Any	Any	wfin26prodnotifv2.xml - Response Notification process	No
RecordContent Notification	Internal Error Notification	Any	Any	Any	Any	Any	Any	Any	wfin26prodnotifv2.xml - Response Notification process	No
RecordContent Notification	Record Add Notification	Any	Any	Any	Any	Retailer	Any	Any	wfin26prodnotifretailerv4.xml - Record Notification process	No
RecordContent Notification	Data Change	Any	Any	Any	Any	Retailer	Any	Any	wfin26prodnotifretailerv4.xml - Record Notification process	No
RecordContent Notification	Delete	Any	Any	Any	Any	Retailer	Any	Any	wfin26prodnotifretailerv4.xml - Record Notification process	No
RecordContent Notification	Discontinue	Any	Any	Any	Any	Retailer	Any	Any	wfin26prodnotifretailerv4.xml - Record Notification process	No
RecordContent Notification	Cancel	Any	Any	Any	Any	Retailer	Any	Any	wfin26prodnotifretailerv4.xml - Record Notification process	No
RecordContent Notification	Data Correction	Any	Any	Any	Any	Retailer	Any	Any	wfin26prodnotifretailerv4.xml - Record Notification process	No
RecordContent Notification	Record Add Notification	Any	Any	Any	Any	Any	Any	Any	wfin26prodnotifprocessv2.xml - Record data notification Process	No
RecordContent Notification	Data Change	Any	Any	Any	Any	Any	Any	Any	wfin26prodnotifprocessv2.xml - Record data notification Process	No
RecordContent Notification	Data Correction	Any	Any	Any	Any	Any	Any	Any	wfin26prodnotifprocessv2.xml - Record data notification Process	No
RecordContent Notification	Delete	Any	Any	Any	Any	Any	Any	Any	wfin26prodnotifprocessv2.xml - Record data notification Process	No

Document Type	Document Sub Type	Repository	Sync Profile	Default Sender	Default Receiver	Org Type	Software Edition	Doc Format	Process Definition Name	Default
RecordContent Notification	Cancel	Any	Any	Any	Any	Any	Any	Any	wfin26prodnotifprocessv2.xml - Record data notification Process	No
RecordContent Notification	Discontinue	Any	Any	Any	Any	Any	Any	Any	wfin26prodnotifprocessv2.xml - Record data notification Process	No
RecordAuthorization Notification	Any	Any	Any	Any	Any	Any	Any	Any	wfin26prodnotifbasicv3.xml - Incoming Message processing Process	No
Purge Historical Data	Any	Any	Any	Any	Any	Any	Any	Any	wfin26purgev3.xml - Purge process	No
Any	Any	Any	Any	Any	Any	Any	Any	Any	wfoutagentrics50cin26v2.xml - Agentrics CIN Process	No
Any	Any	Any	Any	1SyncTest	Any	Retailer	Any	1Sync document	wfout1sync65cin26v1.xml - 1Sync CIN process	No
Any	Any	Any	Any	1Sync	Any	Retailer	Any	1Sync document	wfout1sync65cin26v1.xml - 1Sync CIN process	No
Any	Any	Any	Any	1SyncTest	Any	Any	Any	Any	wfout1sync62cic26v1.xml - 1sync CIC Process	No
Any	Any	Any	Any	1Sync	Any	Any	Any	Any	wfout1sync62cic26v1.xml - 1sync CIC Process	No

Setting up CIM to CIM

Two MDM applications can be connected. The full setup for testing the CIM to CIM Synchronization capability is mentioned later. As an administrator, you can connect and synchronize two MDM environments.

Need for Synchronization

TIBCO MDM supports organizations to communicate with trading partners through datapools. For example, a supplier can do business with a trading partner through a datapool like 1WorldSync.

However, an organization may sometimes want to communicate privately with its trading partners without a third party datapool. Also, companies in different locations may need to internally synchronize data in their systems, involving datapools.

In such cases, organizations can deploy instances of CIM per location and synchronize as required. To do this, TIBCO provides an out-of-the-box functionality to connect and sync two or more CIM instances. Instances from different entities can communicate with each other directly, without involving a third party datapool.

Types of Synchronization

Synchronization can occur between any of the two types:

- Two or more enterprises on a single TIBCO MDM instance

- Two different TIBCO MDM instances

How it Works

Process in which four different enterprises are created on a single CIM instance.

- **BrandOwner**, **VeloselMarketPlace**, **Bottler1**, and **Bottler2** are four enterprises created.

- **BrandOwner** is the main enterprise of type Supplier. The BrandOwner subscribes to the **VeloselMarketplace** enterprise (to which it synchronizes all updates). It has **Bottler1** and **Bottler2** as trading partners.

- **VeloselMarketplace** is an enterprise of type Marketplace. Consider this as the central location to which data is synchronized and from where updates are received (by the subscribed suppliers). It has **BrandOwner, Bottler1** and **Bottler2** as trading partners.

- **Bottler1** and **Bottler2** are enterprises of type Supplier. They are both subscribed to the **VeloselMarketplace** enterprise (to receive BrandOwner's updates) and have **BrandOwner** as a trading partner.

In the scenario, whenever **Brandowner** has information to synchronize, for example a record, it is synchronized to **VeloselMarketplace,** from where **Bottler1** and **Bottler2** receive the update (record) because of their subscription.

> **ℹ** **Note:** You can synchronize by creating a special enterprise of type 'Marketplace' with the name as VeloselMarketplace. The name of the enterprise has to be VeloselMarketplace for the application to work as provided out-of-the-box.

Synchronizing Two CIM Instances

The following steps are involved in synchronizing two CIM instances. Each step is explained in detail in the following sections.

Procedure

1. Setting up Queue Configuration
   Make the required queue configuration changes.

2. Creating Enterprise and Prepopulating Data
   Run the required database scripts.

3. Configuring Database Changes
   Run the application server. Create three or more enterprises. Populate the enterprises with data by running XML packs.

4. Company Profile and GLN credentials
   Create company profiles and GLN credentials for each enterprise.

5. Trading Partner Profile
   Define trading partners for each enterprise and input GLNs.

6. Changing Rulebase
   Make the required rulebase changes.

7. Datasource and Input Map for BrandOwner
   Create Datasource and InputMap for BrandOwner enterprise.

8. Processing Reverse Relationships (Optional Step)
   Only required if you need reverse relationships processed.

9. Testing your CIM to CIM Setup
   Test your setup.

Setting up Queue Configuration

Before you begin

If you are in the process of synchronizing 1WorldSync datapool, do not follow the steps listed here for queue setup; instead use the out-of-the-box queue configuration.

Procedure

1. Queue Setup for CIM to CIM Integration Messages:

    -   For communication between two enterprises, you need gateways to transport messages across two firewalls and from the Q_ECM_INTGR_STD_OUTBOUND_ INTGR_MSG queue of the sender instance to Q_ECM_INTGR_STD_INBOUND_ INTGR_MSG queue of the receiver instance. These gateways cannot be used for testing, but a simple trick can be used to simulate it.

    -   Because the messaging framework helps in mapping the logical and physical queue names and supports connectivity to multiple JMS servers from the same instance, you can use the Q_ECM_INTGR_STD_INBOUND_INTGR_MSG physical queue hosted on one of the JMS servers (the one connected to VeloselMarketplace) and map it to:

        -   the StandardOutboundIntgrMsg logical queue used to send outbound integration messages from the BrandOwner instance.

        -   the StandardInboundIntgrMsg logical queue used to receive inbound integration messages in the VeloselMarketplace instance.

2. The following changes need to be done in `ConfigValues.xml`. To connect to two different queue managers, BrandOwner will need two different clusters. If BrandOwner uses TIBCO EMS, add the following lines to `ConfigValues.xml` after the TIBCO Messaging Cluster section.

    -   Change 1, search for <Category name="TIBCO EMS" visibility="Advanced">.Add the following lines:

        ```
        <!- V2V ENTRIES ->
        <ConfValue
        description="com.tibco.cim.queue.cluster.TIBCOCluster2 - added
        for v2v" name="com.tibco.cim.queue.cluster.TIBCOCluster2"
        propname="com.tibco.cim.queue.cluster.TIBCOCluster2"
        readonly="false" sinceVersion="7.1" visibility="Basic">
        ```

```
  <ConfString
default="inherit:com.tibco.cim.queue.cluster.DefCluster"
  value="inherit:com.tibco.cim.queue.cluster.DefCluster"/>
</ConfValue>
<ConfValue
description="com.tibco.cim.queue.cluster.TIBCOCluster2.clusterL
iaison.class - added for v2v"
name="com.tibco.cim.queue.cluster.TIBCOCluster2.clusterLiaison.
class"
propname="com.tibco.cim.queue.cluster.TIBCOCluster2.clusterLiai
son.class" readonly="false" sinceVersion="7.1"
visibility="Basic">
  <ConfString default =
  "com.tibco.mdm.integration.messaging.queue.tibco.TIBCOCluster
Liaison"   value =
  "com.tibco.mdm.integration.messaging.queue.tibco.TIBCOCluster
Liaison"/>
</ConfValue>
<ConfValue description =
"com.tibco.cim.queue.cluster.TIBCOCluster2.defUser - added for
v2v" name = "com.tibco.cim.queue.cluster.TIBCOCluster2.defUser"
propname = "com.tibco.cim.queue.cluster.TIBCOCluster2.defUser"
readonly = "false" sinceVersion = "7.1" visibility = "Basic">
  <ConfString default = "admin" value = "admin"/>
</ConfValue>
<ConfValue description =
"com.tibco.cim.queue.cluster.TIBCOCluster2.defPassword - added
for v2v" name =
"com.tibco.cim.queue.cluster.TIBCOCluster2.defPassword" propname
= "com.tibco.cim.queue.cluster.TIBCOCluster2.defPassword"
readonly = "false" sinceVersion = "7.1" visibility = "Basic">
  <ConfString default = "" value = ""/>
</ConfValue>
<ConfValue description =
"com.tibco.cim.queue.cluster.TIBCOCluster2.defClientID - added
for v2v" name =
"com.tibco.cim.queue.cluster.TIBCOCluster2.defClientID" propname
= "com.tibco.cim.queue.cluster.TIBCOCluster2.defClientID"
readonly = "false" sinceVersion = "7.1" visibility = "Basic">
  <ConfString default = "null" value = "null"/>
</ConfValue>
<ConfValue description =
```

```
"com.tibco.cim.queue.cluster.TIBCOCluster2.clusterLiaison.clust
eredServers" name =
"com.tibco.cim.queue.cluster.TIBCOCluster2.clusterLiaison.clust
eredServers" propname =
"com.tibco.cim.queue.cluster.TIBCOCluster2.clusterLiaison.clust
eredServers" readonly = "false" sinceVersion = "7.1" visibility
= "Basic">
  <ConfString default = "LocalhostServer" value =
"LocalhostServer"/>
</ConfValue>
<ConfValue description =
"com.tibco.cim.queue.cluster.TIBCOCluster2.clusterLiaison.clust
eredServer.LocalhostServer" name =
"com.tibco.cim.queue.cluster.TIBCOCluster2.clusterLiaison.clust
eredServer.LocalhostServer" propname =
"com.tibco.cim.queue.cluster.TIBCOCluster2.clusterLiaison.clust
eredServer.LocalhostServer" readonly = "false" sinceVersion =
"7.1" visibility = "Basic">
  <ConfString default = "tcp://localhost:7222" value =
"tcp://localhost:7222"/>
</ConfValue>
<ConfValue description =
"com.tibco.cim.queue.cluster.TIBCOCluster2.clusterLiaison.clust
eredServer.encoding.LocalhostServer – added for v2v" name =
"com.tibco.cim.queue.cluster.TIBCOCluster2.clusterLiaison.clust
eredServer.encoding.LocalhostServer" propname =
"com.tibco.cim.queue.cluster.TIBCOCluster2.clusterLiaison.clust
eredServer.encoding.LocalhostServer" readonly = "false"
sinceVersion = "7.1" visibility = "Basic">
  <ConfString default = "UTF-8" value = "UTF-8"/>
</ConfValue>
<ConfValue description =
"com.tibco.cim.queue.queue.StandardOutboundIntgrMsg.cluster –
added for v2v" name =
"com.tibco.cim.queue.queue.StandardOutboundIntgrMsg.cluster"
propname =
"com.tibco.cim.queue.queue.StandardOutboundIntgrMsg.cluster"
readonly = "false" sinceVersion = "7.1" visibility = "Basic">
  <ConfString default = "TIBCOCluster2" value =
"TIBCOCluster2"/>
</ConfValue>
<ConfValue description =
"com.tibco.cim.queue.queue.StandardOutboundIntgrMsg.addToJNDI –
```

```
added for v2v" name =
"com.tibco.cim.queue.queue.StandardOutboundIntgrMsg.addToJNDI"
propname =
"com.tibco.cim.queue.queue.StandardOutboundIntgrMsg.addToJNDI"
readonly = "false" sinceVersion = "7.1" visibility = "Basic">
  <ConfBool default = "false" value = "false"/>
</ConfValue>
<ConfValue description =
"com.tibco.cim.queue.queue.StandardInboundIntgrMsg.cluster -
added for v2v" name =
"com.tibco.cim.queue.queue.StandardInboundIntgrMsg.cluster"
propname =
"com.tibco.cim.queue.queue.StandardInboundIntgrMsg.cluster"
readonly = "false" sinceVersion = "7.1" visibility = "Basic">
  <ConfString default = "TIBCOCluster2" value =
"TIBCOCluster2"/>
</ConfValue>
```

- Change 2, search for <Category name="StandardOutboundIntgrMsg" visibility="Advanced">. Add the following lines:

```
<!- V2V ENTRIES ->
<ConfValue description = "" isHotDeployable = "false" name =
"EMS Queue Name" propname =
"com.tibco.cim.queue.queue.StandardOutboundIntgrMsg.cluster.TIB
COCluster2.queue" sinceVersion = "7.0" visibility = "Advanced">
  <ConfString default = "Q_ECM_INTGR_STD_OUTBOUND_INTGR_MSG"
    value =   "Q_ECM_INTGR_STD_OUTBOUND_INTGR_MSG"/>
</ConfValue>
```

- Change 3, search for <Category name="StandardInboundIntgrMsg" visibility="Advanced">. Add the following lines:

```
<!- V2V ENTRIES ->
 <ConfValue description="" isHotDeployable="false" name="EMS
Queue  Name"
 propname="com.tibco.cim.queue.queue.StandardInboundIntgrMsg.cl
ust er.TIBCOCluster2.queue" sinceVersion="7.0"
visibility="Advanced">
  <ConfString default="Q_ECM_INTGR_STD_ OUTBOUND _INTGR_MSG"
    value="Q_ECM_INTGR_STD_ OUTBOUND_INTGR_MSG"/>
</ConfValue>
```

Creating Enterprise and Prepopulating Data

Before you begin

Ensure that the Application Server is running.

Procedure

1. Create four or more enterprises.

Enterprise	Type
BrandOwner	Supplier
VeloselMarketplace	Marketplace
Bottler1	Supplier
Bottler2	Supplier

2. Create BrandOwner Enterprise:

   - Create a **BrandOwner** Enterprise of type **Supplier** with Internal Name as **bowner**

Attribute	Value
Enterprise	BrandOwner
Enterprise Type	Supplier
Internal Name	bowner

   - Create a user **admin** with first name **admin** and last name **admin**. Assign the **Work Supervisor** and **Admin** roles to this user.

Attribute	Value
User Name	admin
First/Middle/Last	admin//admin
Roles	Work Supervisor/Admin

- **Import XML Pack for BrandOwner Enterprise**, you can import an XML pack to prepopulate the enterprise with some data.

    - Log in to the **BrandOwner** enterprise.

    - Select **System Operations** > **Import Metadata**.

    - Provide the path to the following xml file:`$MQ_COMMON_DIR/common/standard/samples/cim2cimmetadata/Brandowner/BrandOwner-MetaData.jar`.

    - Refer to Step 6 to view the data generated through XML pack import.

3. Create VeloselMarketplace Enterprise (This is just for subscription purposes. The real Velosel Marketplace Enterprise resides on Instance 2):

    - Create an Enterprise **VeloselMarketplace** of type **Marketplace** with Internal Name as **Veloselm**.

Attribute	Value
Enterprise	VeloselMarketplace
Enterprise Type	Marketplace
Internal Name	Veloselm

- Create a user **admin** with first name **admin** and last name **user**. Assign the **Work Supervisor** and **Admin** roles to this user.

Attribute	Value
User Name	admin
First/Middle/Last	admin//admin
Roles	Work Supervisor/Admin

- Import XML Pack for VeloselMarketplace Enterprise, you can import an XML pack to prepopulate the enterprise with some data.

    - Log in to the **VeloselMarketplace** enterprise.

    - Select **System Operations** > **Import Meta Data**.

    - Provide the path to the following xml file:`$MQ_COMMON_ DIR/standard/samples/cim2cimmetadata/VeloselMarketplace/VeloselM arketplace-MetaData.jar`

    - Refer to Step 6 to view the data generated through XML pack import.

4. Create Bottler1 Enterprise:

- Create an Enterprise **Bottler1** of type **Supplier** with Internal Name as **Bottler1**.

Attribute	Value
Enterprise	Bottler1

Attribute	Value
Enterprise Type	Supplier
Internal Name	Bottler1

- Create a user **admin** with first name **admin** and last name **user**. Assign the Work Supervisor and **Admin** roles to this user.

Attribute	Value
User Name	admin
First/Middle/Last	admin//admin
Roles	Work Supervisor/Admin

- Import XML Pack for Bottler1 Enterprise, you can import an XML pack to prepopulate the enterprise with some data.

  - Log in to the **Bottler1** enterprise.

  - Select **System Operations** > **Import Meta Data**.

  - Provide the path to the following xml file:`$MQ_COMMON_ DIR/standard/samples/cim2cimmetadata/Bottler1/Bottler1- MetaData.jar.`

  - Refer to Step 6 to view the data generated through XML pack import.

5. Create Bottler2 Enterprise:

   - Create an Enterprise **Bottler2** of type **Supplier** with Internal Name as **Bottler2**

Attribute	Value
Enterprise	Bottler2
Enterprise Name	Supplier
Internal Name	Bottler2

- Create a user **admin** with first name **admin** and last name **user**. Assign the **Work Supervisor** and **Admin** roles to this user.

Attribute	Value
User Name	admin
First/Middle/Last	admin//admin
Roles	Work Supervisor/Admin

- Import XML Pack for Bottler2 Enterprise, you can import an XML pack to prepopulate the enterprise with some data.

  - Log in to the **Bottler2** enterprise.

  - Select **System Operations** > **Import Meta Data**.

  - Provide the path to the following XML file:`$MQ_COMMON_DIR/standard/samples/cim2cimmetadata/Bottler2/Bottler2-MetaData.ja`

  - Refer to Step 6 to view the data generated through XML pack import.

6. Data generated through XML Pack Import: By importing the various XML packs, the respective enterprises are populated with the following: **Repository**: For example, MC_V2VITEMMASTER

Attributes: some custom attributes in repository MC_V2VITEMMASTER

Output Maps: an output map OM_V2VOUTPUT based on the EANUCCExt Output format created in repository MC_V2VITEMMASTER

Synchronization Format: EANUCCEXT synchronization format with some custom attributes

The following **Business Process rules** are created:

- **Brandowner** enterprise: Custom Protocol Selection and Rulebase Selection

- **VeloselMarketplace** enterprise: Custom Protocol Selection, Rulebase Selection, and Repository Selection for Received Records

- **Bottler1** and **Bottler2** enterprises: Custom Protocol Selection and Repository Selection for Received Records

Configuring Database Changes

Procedure

1. Navigate to the database.

2. Run the following scripts from the database.

Result

> ℹ **Note:** Use the OrgID of your organization and replace it in the SQL below where it displays <Org ID Here>.

- Bottler Subscription Rulebase

```
insert into ConfigurationDefinition (ID, TYPE, OWNERID, GLOBAL, NAME,
SELECTOR, DESCRIPTION, DEFINITIONTYPE, DEFINITION, ACTIVE,
MODMEMBERID, MODDATE, MODVERSION)
VALUES (Mq_Sequence_1.nextval, 'Rulebase', <Brandowner's Org ID
Here>, 'N', 'Bottler Subscription', 'SUBSCRIPTION', 'Select
Subscription.', 'File', 'bottler/rulebase/rbsynchtradingpartner.xml',
'Y', 1, SYSDATE, 1);
COMMIT;
```

- BrandOwner Translation Map

```
insert into ConfigurationDefinition
(ID, TYPE, OWNERID, GLOBAL, NAME, SELECTOR, DESCRIPTION,
DEFINITIONTYPE, DEFINITION,
 ACTIVE, MODMEMBERID, MODDATE, MODVERSION)
VALUES (Mq_Sequence_1.nextval, 'XSLT', <Brandowner's Org ID Here>,
'N', 'Custom Map', 'CONNECTOR',
'Message Translation.', 'File',
'standard/maps/mpfromcatact26toveloselcinv1.xsl', 'Y', 1, SYSDATE,
1);
COMMIT;
```

- VeloselMarketplace Translation Map

```
insert into ConfigurationDefinition
(ID, TYPE, OWNERID, GLOBAL, NAME, SELECTOR, DESCRIPTION,
DEFINITIONTYPE, DEFINITION,
ACTIVE, MODMEMBERID, MODDATE, MODVERSION)
VALUES (Mq_Sequence_1.nextval, 'XSLT', <VeloselMarketplace's Org ID
Here>, 'N', 'Custom Map', 'CONNECTOR', 'Message Translation.',
'File', 'standard/maps/mpfromcatact26toveloselcinv1.xsl', 'Y', 1,
SYSDATE, 1);
COMMIT;
insert into ConfigurationDefinition
(ID, TYPE, OWNERID, GLOBAL, NAME, SELECTOR, DESCRIPTION,
```

```
DEFINITIONTYPE, DEFINITION,
 ACTIVE, MODMEMBERID, MODDATE, MODVERSION)
VALUES (Mq_Sequence_1.nextval, 'XSLT', <VeloselMarketplace's Org ID
Here>, 'N', 'Custom Map', 'CONNECTOR',
'Message Translation to create Response.', 'File',
'standard/maps/mpfromveloselcintoveloselcinrv1.xsl', 'Y', 1, SYSDATE,
1);
COMMIT;
```

- **VeloselMarketplace Subscription Rulebase**

```
insert into ConfigurationDefinition (ID, TYPE, OWNERID, GLOBAL, NAME,
SELECTOR, DESCRIPTION, DEFINITIONTYPE, DEFINITION, ACTIVE,
MODMEMBERID, MODDATE, MODVERSION) VALUES (mq_sequence_1. nextval,
'Rulebase', <VeloselMarketplace's Org ID Here>, 'N', 'Bottler
Subscription', 'SUBSCRIPTION', 'Select Subscription.', 'File',
'bottler/rulebase/rbsynchveloselmarketplace.xml', 'Y', 1, SYSDATE, 1)
COMMIT;
```

- **VeloselMarketplace Translation Maps (Instance 2)**

  - XSL Map for translating CIM CIN to mlXML: mpfromveloseltomlxml26v1.xsl

  - XSL Map for translating CIM CIN to CIM CIN Response: mpfromveloselcintoveloselcinrv1.xsl

---

Note: For simplicity, you can make all the above Subscription Rulebase and Translation Map files globally available as follows:

- Enter a value '**1**' instead of <Brandowner's OR VeloselMarketplace's Org ID Here> for column OWNERID

- Enter a value '**Y**' instead of '**N**' for column GLOBAL.

Company Profile and GLN credentials

Create GLN credentials for each enterprise. These credentials are used to uniquely identify the enterprise to communicate with.

Creating GLN for BrandOwner Enterprise

1. Log in to the **BrandOwner** enterprise.

2. Subscribe to **VeloselMarketplace**.

   1. Select **Administration > Datapool Profiles** and click **Subscribe** (in the Actions column) against **VeloselMarketplace**.

   2. Click **Modify** against **VeloselMarketplace**, click **Modify** in the **Supported Synchronization Formats** section and select the **EANUCC** synchronization format. Click **Save**.

3. Create a Company Profile called **BrandOwner** and create a GLN for it.

   1. Select **Administration > My > Company Profile.**

   2. Create a valid credential by clicking the **Create** link in the **Credential** section.

   3. On the **Create Credential** page, provide **Domain** as **GLN** and **ID** as <GLN> and click **Save**.

Creating GLN for VeloselMarketplace Enterprise

Procedure

1. Log in to the **VeloselMarketplace** enterprise.

2. Subscribe to **VeloselMarketplace**.

a. Select **Administration > Datapool Profiles** and click **Subscribe** (in the Actions column) against **VeloselMarketplace**.

b. Click **Modify** against **VeloselMarketplace**, click **Modify** in the **Supported Synchronization Formats** section and select the **EANUCC** synchronization format. Click **Save**.

3. Create a Company Profile **VeloselMarketplace** and create a GLN for it.

a. Select **Administration > Company Profile**

b. Create a valid GLN by clicking the **Create** link in the **Credential** section.

c. On the **Create Credential** page, provide **Domain** as **GLN** and **ID** as <GLN>. Click **Save**.

Creating GLN for Bottler1 Enterprise

Procedure

1. Log in to the **Bottler1** enterprise.

2. Subscribe to **VeloselMarketplace**

a. Select **Administration > Datapool Profiles** and click **Subscribe** (in the Actions column) against **VeloselMarketplace**.

b. Click **Modify** against **VeloselMarketplace**, click **Modify** in the **Supported Synchronization Formats** section and select the **EANUCC** synchronization format. Click **Save**.

3. Create a Company Profile called **Bottler1** and create a GLN for it.

a. Select **Administration > Company Profile**.

b. Create a valid GLN by clicking the **Create** link in the **Credential** section.

c. On the **Create Credential** page, provide **Domain** as **GLN** and **ID** as <GLN>. Click **Save**.

Creating GLN for Bottler2 Enterprise

Procedure

1. Log in to the **Bottler2** enterprise.

2. Subscribe to **VeloselMarketplace**

    a. Select **Administration > Datapool Profiles** and click **Subscribe** (in the Actions column) against **VeloselMarketplace**.

    b. Click **Modify** against **VeloselMarketplace**, click **Modify** in the **Supported Synchronization Formats** section and select the **EANUCC** synchronization format. Click **Save**.

3. Create a Company Profile called **Bottler2** and create a GLN for it.

    a. Select **Administration > Company Profile**.

    b. Create a valid GLN by clicking the **Create** link in the **Credential** section.

    c. On the **Create Credential** page, provide **Domain** as **GLN** and **ID** as <GLN>. Click **Save**.

Trading Partner Profile

Define trading partners for each enterprise and provide the GLN credentials of those trading partners.

> ⓘ **Note:** The GLN credentials provided here for trading partners should be the same ones defined in Company Profile and GLN credentials for each enterprise.

Creating Trading Partner Profile for BrandOwner Enterprise

Procedure

1. Log in to the BrandOwner enterprise and define **Bottler1** and **Bottler2** as trading partners.

2. Create a Trading Partner Profile: **Bottler1**.

    a. Select **Administration > Trading Partner Profiles.**

    b. Create a Trading Partner with name as **Bottler1**; select **VeloselMarketplace** under the **Datapool** section; select the **EANUCCEXT** Synchronization format. Click **Save**.

    c. Once the **Bottler1** Trading Partner Profile is created, click **Bottler1** in the Trading Partner Profiles List.

    d. Click **Extended Credentials** against **VeloselMarketplace** in the **Datapool Participation** section.

    e. Click **Create** to create a Credential for **Bottler1.**

    f. Select Domain as **GLN**, and provide the <**GLN** as the **Identity**. Click **Save**. The GLN you provide here should be the one defined in Creating GLN for Bottler1 Enterprise.

3. Follow the same steps to create a Trading Partner Profile: **Bottler2 and** provide extended credentials listing the GLN**.**

Creating Trading Partner Profile for VeloselMarketplace Enterprise

Procedure

1. Log in to the **VeloselMarketplace** enterprise and define **BrandOwner, Bottler1** and **Bottler2** as trading partners.

2. Create a Trading Partner Profile: **BrandOwner**.

    a. Select **Administration > Trading Partner Profiles.**

    b. Create a Trading Partner with the name **BrandOwner**; From the **Datapool** section, select **VeloselMarketplace**. Now select the **EANUCCEXT** Synchronization format. Click **Save**.

    c. After you create the **BrandOwner** Trading Partner Profile, click **BrandOwner** in the Trading Partner Profiles List.

    d. Click **Extended Credentials** against **VeloselMarketplace** in the **Datapool Participation** section.

    e. Click **Create** to create a Credential for **BrandOwner.**

    f. Select Domain as **GLN**, and provide the <**GLN** as the **Identity**. Click **Save**. The GLD you provide here should be the one defined in Creating GLN for Bottler1 Enterprise.

3. Follow the same steps to define **Bottler1** and **Bottler2** as trading partners and provide extended credentials listing their respective GLN IDs.

Creating Trading Partner Profile for Bottler1 and Bottler2

Procedure

1. Log in to the **Bottler1** and **Bottler2** enterprises respectively and define **BrandOwner** as a trading partner for each.

2. Provide extended credentials listing the **BrandOwner** GLN.

Changing Rulebase

You need to make some changes to the `rbsynchtradingpartner.xml` rulebase file through which marketplaces and trading partners are specified.

Procedure

1. In `$MQ_COMMON_DIR/bottler/rulebase`, open the `rbsynchtradingpartner.xml` rulebase file.

2. Make the following changes in this file for variable declaration.

   - Declare Variables for Enterprises

     ○ Search for the following section:
     ```
     <!-- Convenience variables to hold GLN number to use. -->
     ```

     ○ Provide the following as the first four variable declarations: **BO_GLN, VM_GLN**, **TP1GLN**, **TP2GLN**.

     ○ Your code should read as follows:

```
<declare usage="local">
  <var>BO_GLN</var>
</declare>
<declare usage="local">
  <var>VM_GLN</var>
</declare>
<declare usage="local">
  <var>TP1GLN</var>
</declare>
<declare usage="local">
  <var>TP2GLN</var>
</declare>
```

- Assign Credential Variables and Values

  - Search for the following section:
    ```
    <name>AssignCredentials</name>
    ```

  - Provide the appropriate GLN variables (**BO_GLN, VM_GLN**, **TP1GLN**, **TP2GLN**) and the GLNs. Ensure that the GLNs match what you have defined in the UI.

  - Your code should read as follows:

```
<action>
 <assign>
   <var>BO_GLN</var>
     <const type="string">0044444447786</const>
 </assign>
 <assign>
   <var>VM_GLN</var>
     <const type="string">0044444447779</const>
 </assign>
 <assign>
   <var>TP1GLN</var>
     <const type="string">0044444447793</const>
 </assign>
 <assign>
   <var>TP2GLN</var>
     <const type="string">0044444447700</const>
 </assign>
</action>
```

- Define Marketplaces for each Product

  - Search for:`<description>Marketplaces for Each Products</description>`

  - Search for the following variable:`<var>SenderArray</var>`

  - Assign the following variables to SenderArray:`<var>BO_GLN</var>` `<var>BO_GLN</var>`

  - Search for the following variable:`<var>ChannelArray</var>`

  - Assign the following variables to ChannelArray:`<var>VM_GLN</var>` `<var>VM_GLN</var>`

  - Search for the following variable:`<var>TradingPartnerArray</var>`

  - Assign the following variables to TradingPartnerArray:`<var>TP1GLN</var>` `<var>TP2GLN<`

> **ℹ Note:** Two variables are added to the Sender Array and Channel Array sections respectively, for two trading partners. You need as many variables in these sections as trading partners.

Datasource and Input Map for BrandOwner

Create a datasource and input map for the BrandOwner enterprise.

Creating Datasource

Procedure

1. Log in to the **BrandOwner** enterprise.

2. Select **Item Data > Data Sources**

   a. Create Datasource DS_V2VItems.

   b. Provide some data as input to the datasource.

Creating Inputmap

Procedure

1. Create an input map between the DS_V2VItems datasource and the MC_ V2VItemMaster repository.

2. Select **Item Data > Repositories**

   a. Select the check box against the **MC_V2VITEMMASTER** repository and click the **Manage Input Maps** button.

   Repositories
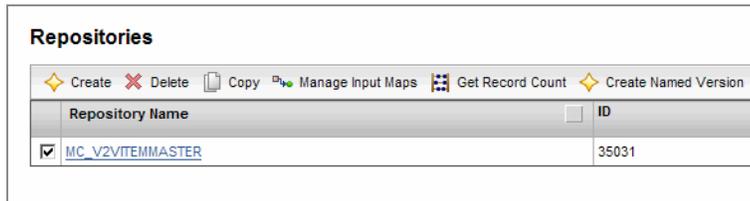
	Create Delete Copy Manage Input Maps Get Record Count Create Named Version		
	Repository Name		**ID**
☑	MC_V2VITEMMASTER		35031

   b. Click **Create** to create a new input map.

   c. On the **Create Input Map** page:

   d. Provide an Input Map **Name** and Input Map **Description**. Select **Split/Approval Required**.

   e. Select **DS_V2VItems** check box and click **Next.**

   f. Map the required attributes. The following are required:

   - Record ID
   - Record ID Extension
   - Related Records
   - SupplierID
   - GTIN
   - Brand_Owner_ID
   - Brand_Owner_ID
   - Content_Owner_IDContent_Owner_ID
   - Name_Of_Brand_Owner
   - Name_of_Datapool

- Name_Of_Info_Provider

- Source_Data_Pool_ID

- Target_Market_ID

Name	Type	Data Source Attribute	Expression
Record ID	String		@FRESH.ID
Record ID Extension	String		@FRESH.EXT
Related Records	String		@FRESH.CONTAINS

▼ Unassigned
* Checking the box will not merge empty data fields

g. Click **Save**.

Processing Reverse Relationships (Optional Step)

By default, the workflows are set up to process forward relationships (for example: A contains B, B contains C, C contains D).

In case you have reverse relationship hierarchies (for example, A contained by B, B contained by C, and so on), you need to make some changes to process reverse relationships so that data is propagated correctly from BrandOwner to Marketplace and Bottlers.

Procedure

1. Change to the wfin26cim2cimsyncV1.xml Workflow. You can use this workflow for CIM to CIM synchronization.

   a. Open the `$MQ_COMMON_DIR/standard/workflow/wfin26cim2cimsyncV1.xml` file.

   ```
   Search for the following section:<!--  Sample transition to flip
   the root of bundles -->  <!-- Transition
     FromActivity="HandleRecordCollectionForFlipDecision"
     ToActivity="ManageRecordCollectionForFlip">
       <Description>If the Rulebase Selection Business Process
   Rule     is set, only then transition to ApplySynchRuleBase and
   Spawn     Publish Workflow</Description>      <Rule>
         <Parameter name="Rulebase" type="string" eval="rule"
         source="Rulebase Selection"
         direction="in">inDoc</Parameter>
   ```

```
            <Parameter name="result" type="boolean"
  direction="out"/>
            <Condition format="bsh"><![CDATA[
                result =  (Rulebase != null && !Rulebase.equals
  (""));
            </Condition>
        </Rule>
    </Transition>
    <Transition FromActivity="ManageRecordCollectionForFlip"
  ToActivity="ApplySynchRuleBase"/
    -->
```

   b. Uncomment this section (commented out by default) to process reverse relationships.

2. Change to the wfin26catsourceimportv2.xml Workflow. You can use this workflow for import/load and import events.

   a. Open the $MQ_COMMON_DIR/standard/workflow/wfin26catsourceimportv2.xml file.

   b. Search for:<Activity Name="ManageRecordCollection">

   c. Search for the RelationshipName parameter:

   d. Change this from **Contains** to **ContainedBy** to process reverse relationships.

3. Change to the wfin26catsourcev5.xml Workflow. You can use this workflow for datasource loads and import of records.

   a. Open the $MQ_COMMON_DIR/standard/workflow/wfin26catsourcev5.xml file.

   b. Search for:<Activity Name="ManageRecordCollection">

   c. Search for the RelationshipName parameter:

   d. Change this from **Contains** to **ContainedBy** to process reverse relationships.

4. Change to the wfin26prodnotifprocessv2.xml Workflow. You can use this workflow to process the incoming record messages and to save data.

   a. Open the $MQ_COMMON_DIR/standard/workflow/wfin26prodnotifprocessv2.xml

file.

b. Search for the following activities:

- <Activity Name="GetProductInfo">

- <Activity Name="GetProductInfo2">

c. Add the following parameter:

```
<Parameter direction="in" name="RelationshipName" type="string"
eval="constant">Contains</Parameter>.
```

Testing your CIM to CIM Setup

After completing all the outlined steps, you can test your CIM to CIM setup.

Procedure

1. Log in to the **BrandOwner** enterprise and add a record.

2. This record is synchronized to **VeloselMarketPlace** and to **Bottler1** and **Bottler2**.

3. You can login to **VeloselMarketPlace**, **Bottler1**, and **Bottler2** to verify the synchronization.

Troubleshooting CIM to CIM

Issue	Solution
In a CIM to CIM setup, when attempting to import over 100 records, you may get a "No data to read from socket" error. DB Error code: 17410.	This problem may be seen if you are on an Oracle 11 version lower than 11.1.0.7 (for example, 11.1.0.6). Try updating to 11.1.0.7.

Supplier and Retailer Setups

You can use Supplier and Retailer side setups to create Supplier and Retailer Enterprise in TIBCO MDM.

Supplier Setup

You can use this setup to create and define an enterprise.

You can also select and define a repository for messages.

Creating Supplier Enterprise

Procedure

1. Log in to the **tibcocim** enterprise with superuser credentials.

2. Select **Administration > All Company > Profiles.**

    a. Click **Create** and create a new Profile with Type as **Supplier**.

    b. Create a user for the enterprise with **Administrator** and **Work Supervisor** Roles.

3. Log out of the enterprise.

Defining Supplier Enterprise

You can define credentials, subscribe to the datapool, define the Synchronization Format, and set up trading partners. 1Sync is used as an example here.

Procedure

1. Log in to the newly created enterprise with the created user credentials.

2. Select **Administration > My Company Profile**.

    a. Click the **Create** link in the **Credentials** section.

    b. Create a Credential with Domain as **GLN** and provide your *Supplier GLN* as the Identity.

3. Select **Administration > Datapool Profiles**.

    a. Subscribe to **1Sync** by clicking the **Subscribe** link in the **Actions** column.

    b. Click **Modify** in the Actions column.

    c. Click **Modify** again under **Supported Synchronization Formats.**

    d. Select **1Sync** from the list of Synchronization Formats. Click **Save**.

4. Select **Administration > Trading Partner Profiles**.

    a. Click **Create** to create a new Trading Partner.

    b. Provide details to create the Trading Partner and select **1Sync** as the **Default Synchronization Format**. Click **Save**.

    c. In newly created Trading Partner Profiles, click on **Modify**.

    d. Select **1Sync** as the Datapool. Click **Save**.

    e. Click the newly created trading partner in the trading partner list.

    f. Click the **Extended Credentials** link against the 1Sync in the **Datapool Participation** section.

    g. Click **Create** to create a credential.

    h. Select Domain as **GLN** and provide the GLN of the trading partner as the Identity.

    i. Click **Save.**

5. Select **Administration > My Company Profiles**.

    a. Click the **Credentials** link against 1Sync in the **Datapool Participation** section.

    b. Click **Create** to create a credential.

    c. Select Domain as **GLN**. The Supplier GLN is populated in the **Identity** drop-down list.

    d. Specify the **Batch User ID**, **User ID**, and **Password** for the Supplier GLN.

    e. Click **Save**.

> **Note:** TIBCO MDM supports more than one GLN in an enterprise. You can create more than one GLN in an enterprise.

Defining Repository for Outgoing Messages

You can create or define the repository that messages will go out from.

Procedure

1. Deploy repository model from TIBCO MDM Studio containing the **1Sync** output map and **UDEX** and **GPC** classification schemes.
   For more information about creating repositories, see TIBCO MDM Studio *Repository User's Guide*.

2. (Optional step) Perform this step to use out-of-the-box catalog validation file of TIBCO MDM. The file contains some predefined validations associated with datapool validations.

   a. Navigate to `$MQ_COMMON_DIR/standard/rulebase`.

   b. Copy the `_1sync_mastercatalog_catalogvalidation.xml` rulebase file and place it into the `$MQ_COMMON_DIR/`*enterprise*`/catalog/master/`*repositoryID* folder.

   c. Rename the file as `catalogvalidation.xml`.

Selecting Repository for Incoming Messages

You can select the repository to which messages from the retailer side should be directed.

Procedure

1. Log in with the Supplier credentials.

2. Create a Business Process Rule to select the repository for the Add Notification event. To create a Business Process Rule, follow these steps:

   a. Click **Business Processes**, then click the **Repository Selection** rule**.**

   b. Click the **Default** business process template and click **Create**.

   c. Select **Conditions > the trading partner name is,** and then select your trading

partner (specify the trading partner name only if you want messages from different trading partners to be added to partner specific repositories).

d. Select **Conditions > The UDEX Code is,** and then select your defined **UDEX** code or select **Any**.

e. Select **Actions > The repository to add the record to,** and then select your repository.

f. Select **Actions > Treat new CINs as 'data change' messages,** and then select **Yes, consider it as changes**.

g. Click **Save**.

Retailer Setup

You can use this setup to create and define an enterprise.

You can also select repository, approvers, and editors for records.

Creating the Retailer Enterprise

Procedure

1. Log in to the **tibcocim** enterprise with superuser credentials.

2. Select **Administration > All Company Profiles.**

   a. Click **Create** and create a new Profile with Type as **Retailer**.

   b. Create a user for that enterprise with **Administrator** and **Work Supervisor** Roles.

3. Log out of the enterprise.

Define the Retailer Enterprise

The Retailer side setup is similar to the Supplier setup. See Supplier Setup.

The only difference is the GLN definition. For example:

Case 1

If the Supplier and Retailer is TIBCOCIM, then on the Retailer side, follow these steps:

- When defining the GLN in the Company Profile, provide the Trading Partner GLN of the Supplier.

- When defining the Trading partner GLN, provide the Supplier GLN defined in the Company Profile.

Case 2

If the Supplier is not TIBCOCIM, then on the Retailer side, follow these steps:

- Define the GLN of the Retailer in the Company Profile.

- Define the Supplier GLN in the Trading Partner's GLN.

> **Note:** TIBCO MDM supports more than one GLN in an enterprise. You can create more than one GLN in an enterprise.

Selecting Repository for Incoming Messages

You can select the repository to which messages from the supplier side should be directed.

Procedure

1. Log in with the Retailer credentials.

2. Create a Business Process Rule to select the repository for the Add Notification event. To create a Business Process Rule, follow these steps:

   a. Click **Business Processes**, then click the **Repository Selection** rule**.**

   b. Click the **Default** business process template and click **Create**.

   c. Select **Conditions > the trading partner name is,** and then select your trading partner (specify the trading partner name only if you want messages from different trading partners to be added to partner specific repositories).

   d. Select **Conditions > The UDEX Code is,** and then select your defined **UDEX** code or select **Any**.

   e. Select **Actions > The repository to add the record to,** and then select your

repository.

    f. Select **Actions > Treat new CINs as 'data change' messages,** and then select **Yes, consider it as changes**.

    g. Click **Save**.

Selecting Approvers for Received Records

You can set up a rule for approvers of received records.

Procedure

1. Click **Business Processes**, then click the **Approvers for Received Records** rule**.**

2. Click the **Default** Business Process Template. Click **Create** to create a new rule.

3. Under **Conditions > the trading partner name is,** and then select the defined trading partner.

4. Select **Actions > Set the participant user to**, and then provide the user information.

5. Select **Actions > Set the next work item state to,** and the define the next state of the workitem. For example, you can set the workitem state to **Final Step**.

6. Click **Save**.

Selecting Editors for Received Records

You can set up a rule for editors of received records.

Procedure

1. Click **Business Processes**, then click the **Editors for Received Records** rule**.**

2. Click the **Default** Business Process Template. Click **Create** to create a new rule.

3. Select **Conditions > the trading partner name is**, and then select the defined trading partner.

4. Select **Actions > Set the participant user to**, and then provide the user information.

5. Select **Actions > Set the next work item state to**, and then define the next state of the workitem. For example, you can set the workitem state to **Final Step/Done**.

6. Click **Save.**

Detecting New Backend Systems

You can set up a rule to define the user or role to notify when a new backend system is detected.

Procedure

1. Click **Business Processes**, then click **Unknown Trading Partner Alert.**

2. Click the **Default** Business Process Template. Click **Create** to create a new rule.

3. Select **Actions > Set the participant user to,** and then provide the user information.

4. Click **Save**.

Setting up GPC Classification Scheme Data Load

Setting up the data load for the Global Product Classification scheme includes configuring GPC Classification Scheme Loading and configuring Support for GPC Code.

Configuring GPC Classification Scheme Loading

The GPC data source is provided as out-of-the-box set up in the TIBCOCIM enterprise.

You can upload new GPC codes into CIM.

Procedure

1. Add the following dataset to the `filewatcher.xml` catalog.

```
<DataSet type="single">
<!--
There should be no MasterCatalog Element when importing a Standard
Classification Scheme such as GPC, UDEX.
-->
<Name>DataSetS2</Name>
<Credential domain="ZZ">
<!-- This is a pre-defined credential-->
<Identity>GLOBAL</Identity>
</Credential>
<Action>ImportClassificationScheme</Action>
<URIInfo scheme="local">
<Relative>MQ_COMMON_DIR</Relative>
<!-- This directory is created outOfBox -->
<URI>velosel/GPC</URI>
</URIInfo>
<Incremental>Yes</Incremental>
<DataSource>
<RevisionID>
<!-- This a pre-defined data source in Velosel enterprise -->
<BaseName>GPC</BaseName>
</RevisionID>
</DataSource>
<ClassificationScheme>
```

```
<RevisionID>
<!-- This a pre-defined classification scheme -->
<BaseName>GPC</BaseName>
</RevisionID>
</ClassificationScheme>
</DataSet>
```

2. Ensure that the following subdirectories exist under the `$MQ_COMMON_DIR/velosel/GPC/` directory.

```
incoming
rejected
done
```

3. Place the data file (.csv) in the `$MQ_COMMON_DIR/velosel/GPC/incoming` directory. The .csv file is used to upload when the FileWatcher polling interval time is over. All the rows from the .csv file are uploaded into the GPC data source. If the upload is successful, the .csv file is copied into the done directory.

Configuring Support for GPC Code

Procedure

1. You can add GPC Dropdowns for Editing Records in a Repository.

2. For dependent drop-downs, add the following section to your catalog validation rulebase:

```
<declare>
<var>GPC_classification</var>
        <link type="datasource">
                <literal>GPC</literal>
        </link>
</declare>
<constraint>
        <name>GPC CODE</name>
        <description>GPC CODE dropdown</description>
        <usefor>
                <var>GPC_SEGMENT_CODE</var>
        </usefor>
        <action>
```

```
                    <select novalue="option">
                    <table source="classification">
                    <literal>GPC_classification/SEGMENT_CODE</literal>
                    <literal>GPC_classification/SEGMENT_DESC</literal>
                    </table>
                    </select>
        </action>
</constraint>
<constraint>
        <name>FAMILY CODE</name>
        <description>GPC Hierarchy Level 2 dropdown</description>
        <usefor>
                <var>GPC_FAMILY_CODE</var>
        </usefor>
        <condition>
                <defined>
                        <var>GPC_SEGMENT_CODE</var>
                </defined>
        </condition>
        <action>
                <select novalue="default">
                        <table source="datasource">
                                <literal>GPC</literal>
                                <literal>FAMILY_CODE</literal>
                                <literal>FAMILY_DESC</literal>
                                <where>
                                        <sql>
                                        <eq>
                                        <literal>SEGMENT_CODE</literal>
                                        <const type="string">?</const>
                                        </eq>
                                        </sql>
                                        <var>GPC_SEGMENT_CODE</var>
                                </where>
                        </table>
                </select>
        </action>
</constraint>
<constraint>
        <name>CLASS CODE</name>
        <description>GPC Hierarchy Level 3 dropdown</description>
        <usefor>
                <var>GPC_CLASS_CODE</var>
        </usefor>
```

```
<condition>
        <defined>
                <var>GPC_FAMILY_CODE</var>
        </defined>
</condition>
<action>
        <select novalue="default">
                <table source="datasource">
                        <literal>GPC</literal>
                        <literal>CLASS_CODE</literal>
                        <literal>CLASS_DESC</literal>
                        <where>
                                <sql>
                                <and>
                                <eq>
                                <literal>SEGMENT_CODE</literal>
                                <const type="string">?</const>
                                </eq>
                                <eq>
                                <literal>FAMILY_CODE</literal>
                                <const type="string">?</const>
                                        </eq>
                                        </and>
                                </sql>
                                <var>GPC_SEGMENT_CODE</var>
                                <var>GPC_FAMILY_CODE</var>
                        </where>
                </table>
        </select>
</action>
</constraint>
<constraint>
        <name>BRICK CODE</name>
        <description>GPC Hierarchy Level 4</description>
        <usefor>
                <var>ADDITIONAL_CLASS_CAT_CODE</var>
        </usefor>
        <condition>
                <defined>
                        <var>GPC_CLASS_CODE</var>
                </defined>
        </condition>
        <action>
                <select novalue="default">
```

```
                        <table source="datasource">
                                <literal>GPC</literal>
                                <literal>BRICK_CODE</literal>
                                <literal>BRICK_DESC</literal>
                                <where>
                                        <sql>
                                        <and>
                                        <eq>
                                        <literal>SEGMENT_CODE</literal>
                                        <const type="string">?</const>
                                        </eq>
                                        <eq>
                                        <literal>FAMILY_CODE</literal>
                                        <const type="string">?</const>
                                        </eq>
                                        <eq>
                                        <literal>CLASS_CODE</literal>
                                        <const type="string">?</const>
                                        </eq>
                                        </and>
                                        </sql>
                                        <var>GPC_SEGMENT_CODE</var>
                                        <var>GPC_FAMILY_CODE</var>
                                        <var>GPC_CLASS_CODE</var>
                                </where>
                        </table>
                </select>
        </action>
</constraint>
```

Configure TIBCO BusinessConnect and TIBCO BusinessWorks

You can configure TIBCO BusinessConnect for sending documents to and receiving documents from different data pools.

Details for configuring only TIBCO BusinessConnect to work with the application are provided. Refer to the appropriate documentation if you want to use any other AS2 Gateway.

TIBCO BusinessConnect 5.x supports JMS, however the TIBCO BusinessWorks plug-in for BusinessConnect 5.x is still required.

Prerequisites for configuring TIBCO BusinessConnect

- TIBCO BusinessConnect 5.3.0 must be installed on the system. See *TIBCO Business Connect documentation* for details.

- A database must be installed. BusinessConnect 5.x supports Oracle, DB2, MySQL, and SQL Server.

- TRA 5.6.1, Business Works 5.7.2, TIBCO Administrator 5.4.0, TIBCO EMS 5.1.2 must be installed on the system.

- UserID and password to access the TIBCO BusinessConnect Admin console.

- Port 4080 or any other port on which TIBCO BusinessConnect is listening needs to be opened.

Setting up TIBCO Administrator

Procedure
1. Install TIBCO Administrator in console mode and read the installation guide.

2. For Linux/UNIX setup, create Domain using the domain utility TIBCO_TRA_ HOME/bin/domainutility.

    - Set defaults settings, give domain names as: <<DOMAIN_NAME>>/, choose UTF-

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> 8 for character set, default ports -> http port=9090, AJP 1.3 port =8009, shutdown port =8005, username=admin, password=admin
>
> - If UTF-8 does not work, change the characters to another character set
>
> - Change the owner to vsadmin and give all the rights to the **tibco** folder as -

```
sudo chown -R vsadmin:vsadmin /home/tibco/
sudo chmod -R 777 /home/tibco
```

3. On Windows, you can create a new domain using **Programs - > TIBCO - > TIBCO Runtime Agent & Adapter SDK 5.5 - > Domain Utility.**

4. After successfully configuring TIBCO Administrator, start TIBCO Administrator by executing the following on Linux/UNIX platform: <<TIBCO_HOME>>/administrator/domain/<<DOMAIN_NAME>>/bin/tibcoadmin_<<DOMAIN_NAME>>/&

5. Start TIBCO Hawk Agent by executing the following on Linux/UNIX platform: <<TIBCO_HOME>>/tra/domain/<<DOMAIN_NAME>>/hawkagent_<<DOMAIN_NAME>>/&

6. For Windows installations, start TIBCO Hawk Agent as an NT service.

7. On Windows, set up TIBCO Administrator as an NT service.

8. Access the Administrator URL as:
   http://<machinename>:9090/administrator/servlet/tibco_administrator

Setting up BusinessConnect

You can configure BusinessConnect by:

- Configuring BusinessConnect (new configuration)

- Importing an existing setup from another installation and customizing the imported BusinessConnect configuration

The following criteria should be met before configuring BusinessConnect:

Procedure

1. **Database and Database user**. A Database (which can be used by the BusinessConnect setup) should be configured.

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2. **TIBCO EMS** 5.1.2 should be installed and started as an NT service on Windows; on Linux it should be started on root.

3. **Install Unlimited Strength JCE Policy Files**To use BusinessConnect security features, download and install JavaTM Cryptography Extension (JCE) Unlimited Strength Jurisdiction Policy Files 1.5.0. To download and install the policy files, follow these steps:

   - Download the required files for Windows, Sun Solaris, HP-UX, Linux, and IBM AIX.

   - Unzip `jce_policy-1_5_0.zip`

   - Copy `US_export_policy.jar` and `local_policy.jar` to TIBCO_ home\jre\1.5.0\lib\security

4. **TIBCO Administrator and TIBCO Hawk** should be started.

Configuring New BusinessConnect

Procedure

1. Start TIBCO Administrator**http://<machinename>:9090/administrator/servlet/tibco_ administrator**Login as admin/admin.

2. Check if the BusinessConnect link appears in left side panel. If not, click **Application management - > All service instance - > machine name - > Plug-Ins - > Add -** and browse to the bcwebadmin.war file of BusinessConnect. The .war file can be found on:<<TIBCO_HOME>>/bc/5.3/admin-plugins/ bcwebadmin.warAdding the .war file takes some time.

3. In the left side panel, BusinessConnect is available. Click **BusinessConnect - > Manage Installation.**

4. Provide database details for installation and test connection for Oracle. Sample database details:JDBC Driver: tibcosoftwareinc.jdbc.oracle.OracleDriver JDBC URL: jdbc:tibcosoftwareinc:oracle://<oracleservername>:1521;SID=<<DATABASE_NAME>>
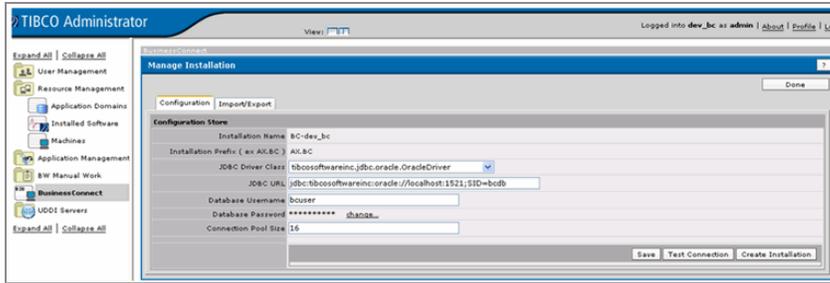
Creating Participants

Procedure

1. Creating participant of type Partner

   a. Click **BusinessConnect - > Participants**

   b. Select type of participant as Partner and create and provide a name to the participant.

   c. Provide all relevant details, click the **Active** check box to activate the participant.
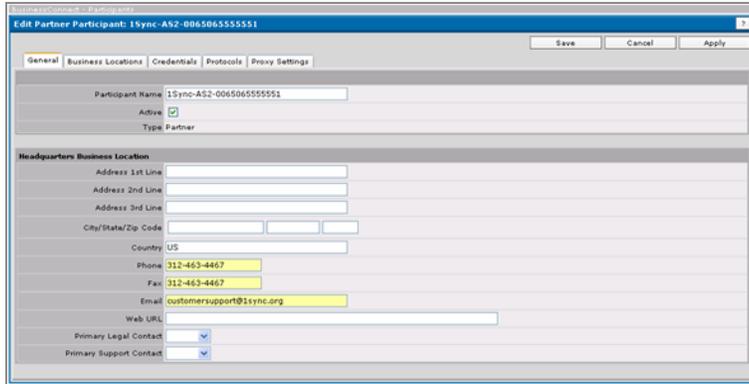
d. Click the **Credentials** tab.

e. Click the **New Certificate** tab. Provide the alias name and upload the certificate provided by the Trading partner (Data pool in case of MDM) followed by **Save**.
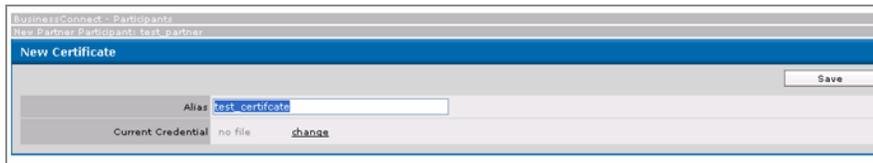
f. Click the **Protocols** -**Enable** tab.

g. Select the **EZComm** protocol check box and click **OK**.

h. Click the newly enabled protocol EZcomm as in the following page.
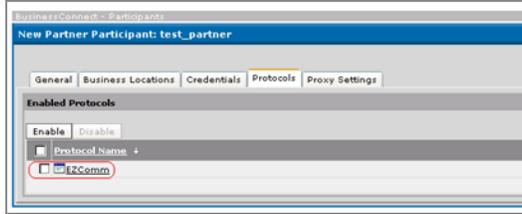
i. Click the **Add New** link to create a new AS2 ID.
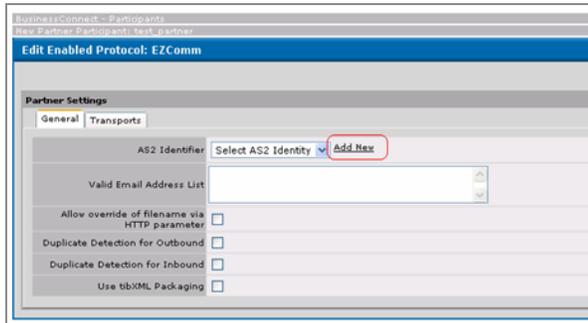
j. Click the **Add New** tab to create a new AS2 ID.

k. Create new AS2 ID.
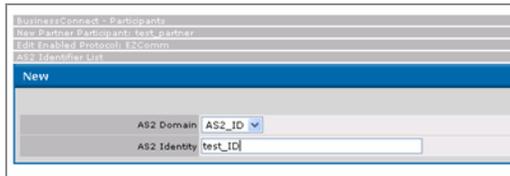
l. Select the newly created AS2 ID and click **OK**.
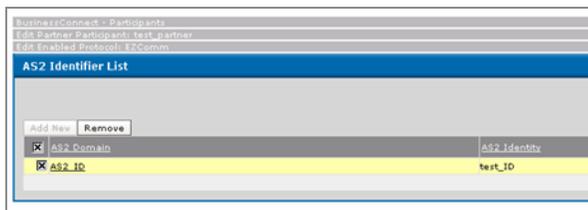
m. Click **Transports** -**Add** tab.
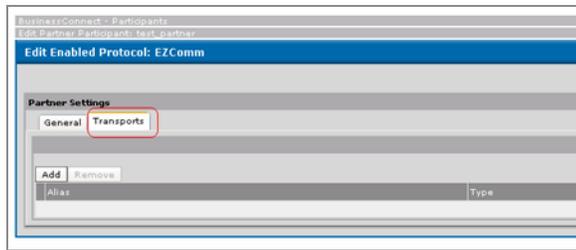
n. Add details to Transport; select the Transport Type as AS2_HTTP, click **OK**.

o. Provide details for the newly created Transport.
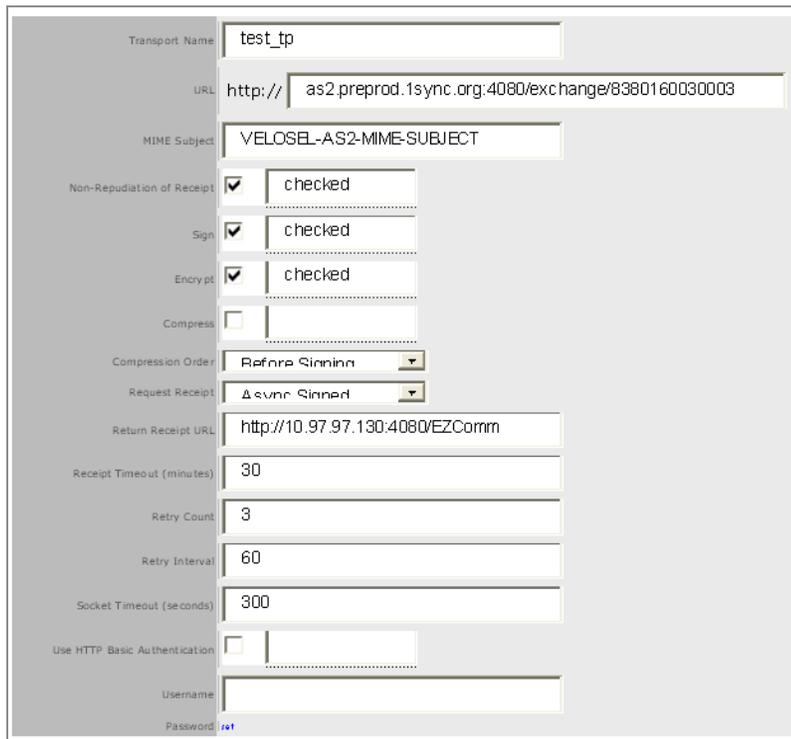
p. Change the URL as per the trading partner specification.

q. Keep the default proxy settings.

r. Click **Save** to save the participant.

2. Creating participant of type Host

a. Click **BusinessConnect - > Participant**.

b. Select the type of participant as Host and create and provide a name to the participant.

c. Click the **Active** check box to activate the participant.
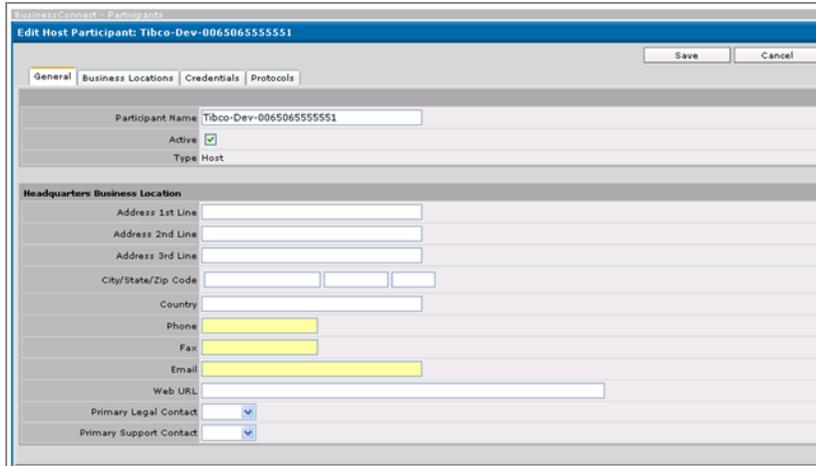
d. Click the **Credentials** tab - **New Private Key**.
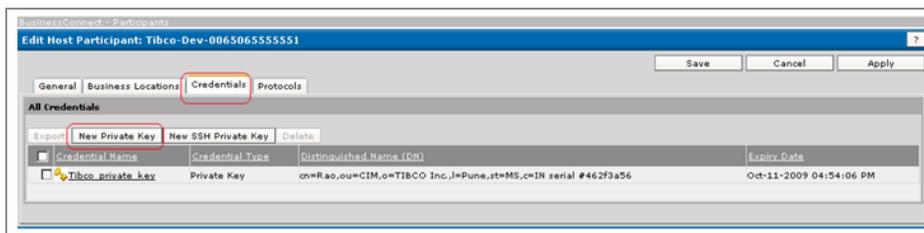
e. Provide the alias of the key, upload the private key (public key of which has
    sent to Partner) and click **Save**.
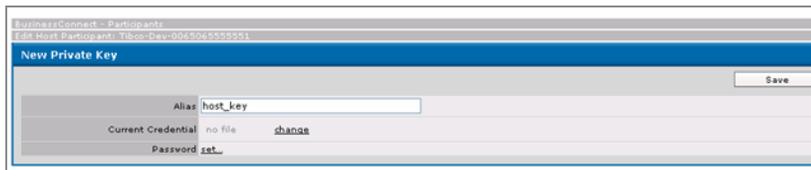
f. Click the **Protocols** tab and enable EZcomm protocol as enabled earlier to
    create Partner Participant.

g. Create a new AS2 ID, clicking on the newly enabled protocol **EZcomm - > AS2
    Identifier - > Add new** link. In AS2 Identity, provide GLN on data pool.
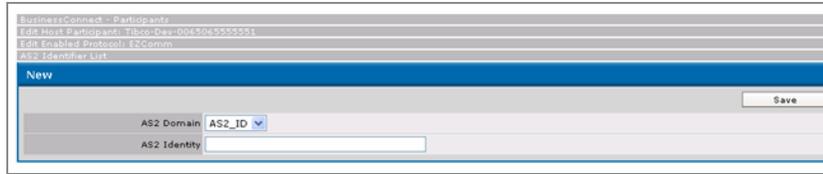
h. Click **Save** to save the participant.

Creating New Operations

Procedure

1. Click **Business Connect - > Operation Editor**.

2. Click the **Edit** button in the right pane for Protocol EZComm.
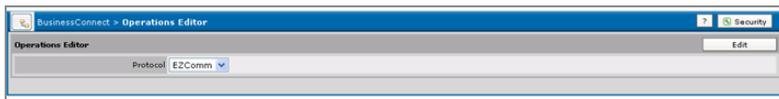
3. Click the radio button for EZComm protocol and then click the **New > Category** button.

4. Save the new category.
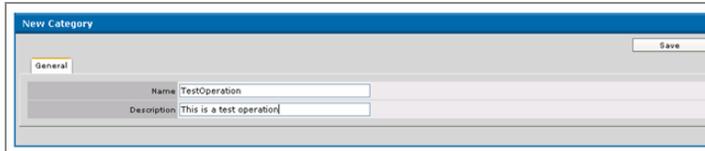
5. Click the **new versio**n button to create a new version for the new category. Provide details and **Save** the version.
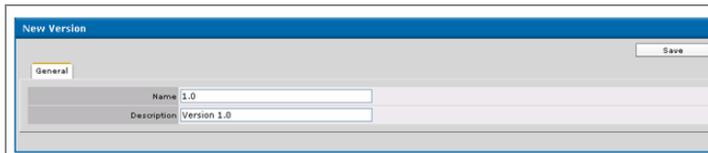
6. Click the **New Operation** button to create a new operation for this version.
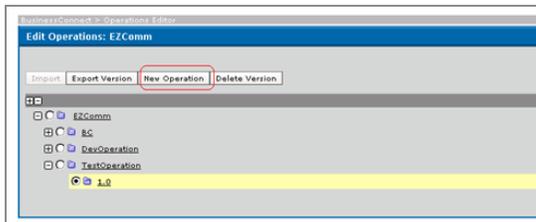
7. Select the operation type as Asynchronous Request-Response and click **OK**.

8. On the next page, enter a name for the new operation.
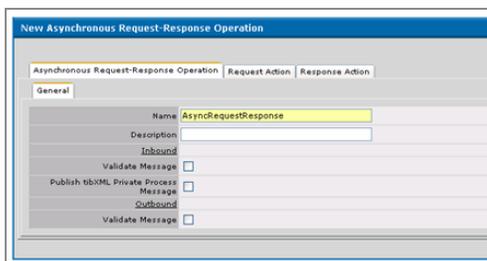
9. Click the **Request Action** tab and select the **Require Digital Signature** and **Require Content Encryption** check boxes.
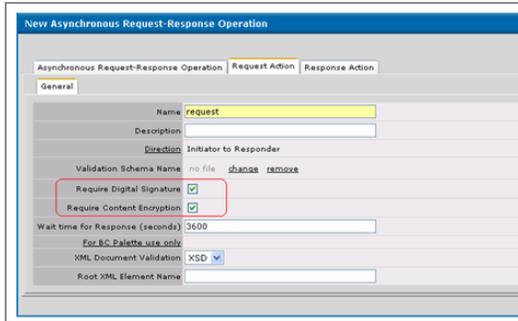
10. Click the **Response Action** tab and select the check boxes as previously mentioned.

11. Click the **Save** button to save the newly created operation.

12. Create this operation once for all participants.

Configuring System Settings

Procedure

1. Click the **BusinessConnect - > System settings** menu in the left panel.
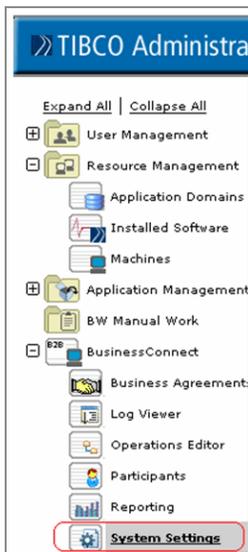
2. Click **JDBC Configuration** in the right pane.
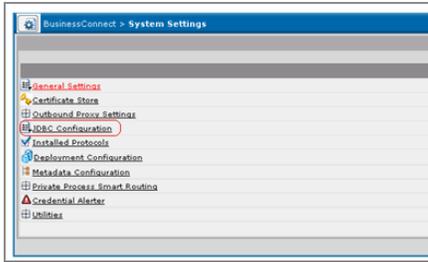
3. Click **JDBC Configuration** to create new JDBC connection details for BusinessConnect.
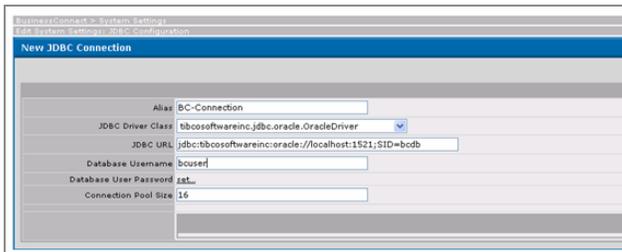
Sample database details are as follows:JDBC Driver Class: tibcosoftwareinc.jdbc.oracle.OracleDriverJDBC URL: jdbc:tibcosoftwareinc:oracle://localhost:1521;SID=bcdbDatabase User: bcuser Password: bcuser

4. Click **Test Connection**, if the connection is successful, click **Save**.

5. Select the newly created BusinessConnect connection in Audit Logs, Non Repudiation Logs, Runtime Data Store, and click **Done**.

Defining Business Agreement

Procedure

1. Click **BusinessConnect- > Business Agreement** in the left panel.

2. Click the **New** tab to create a new agreement.
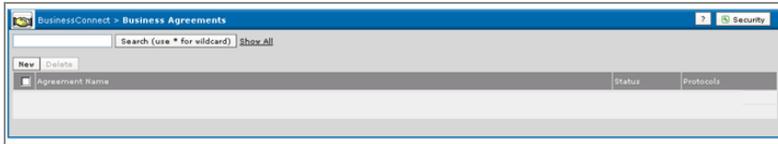
3. Select the **Host party** and **Partner party** radio buttons for which you want to make an agreement as shown in the following page and click **OK**.
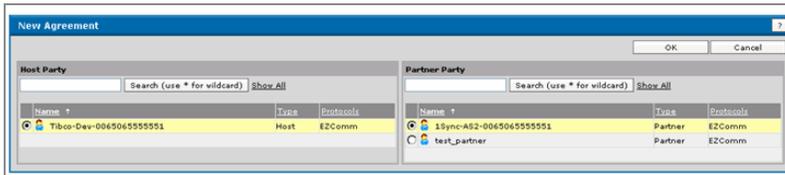
4. Click the newly created Agreement.
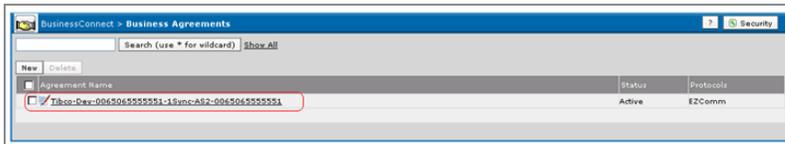
5. Click the **Valid** check box on the next page and provide dates for start and end of the agreement.
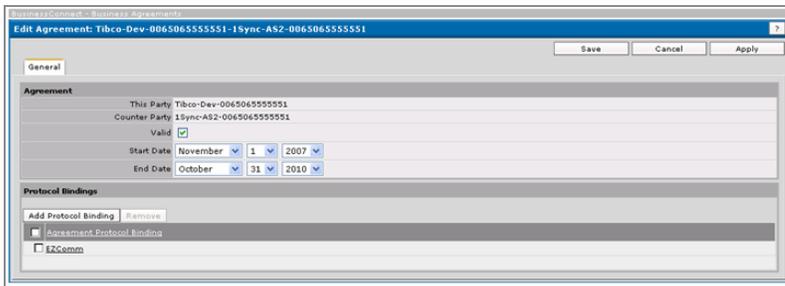
6. Click the **Add Protocol Binding** tab, to add new protocol binding. Select EZComm from available protocols.

7. Click the **EZComm** protocol link and provide details.

8. Click the **Document Security** tab and select values.
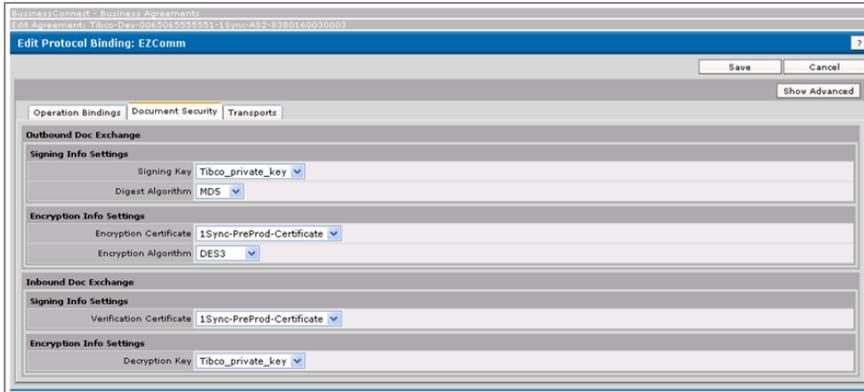
Here the values should be defined as follows:Signing Key: Name of the TIBCO's private certificate.Digest Algorithm: MD5Encryption Certificate: Name of Trading Partner CertificateEncryption Algorithm: Encryption algorithm used by Trading PartnerVerification Certificate: Name of Trading Partner CertificateDecryption Key: Name of the TIBCO's private certificate

9. Click the **Transports** tab and select values.
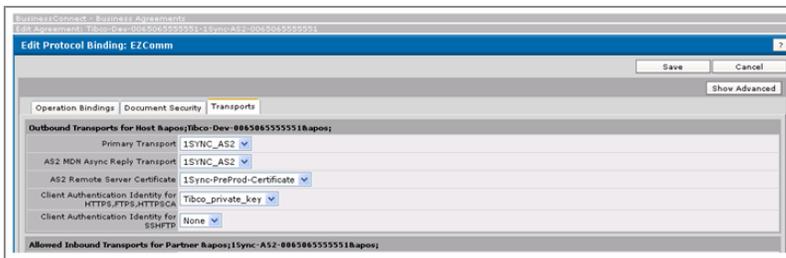
Deploying the BusinessConnect configuration (Single Server Mode)

Procedure

1. Deploy the configuration, click **Administrator - > Business Connect - > System Settings - > Deployment Configuration** -click **Create deployment Configuration**. The Business Connect link in Application Management is displayed.

2. Select a machine to deploy the Business Connect installation. Click **Application Management - > Business Connect - > Configuration - > Single Server.par.** Select the machine name. If you do not see the machine name, it may be due to the hawk agent.

3. Select **Application Management > BusinessConnect > Configuration >**

BusinessConnect > Configuration and click **Save**.

4. Click **Application Management - > BusinessConnect - > Configuration - > Business Connect - > HTTP**
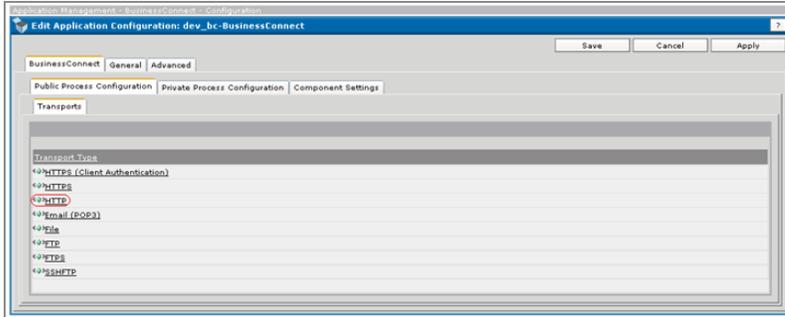
5. Ensure the port is enabled and a proper value is provided.

6. Click **Application Management - > BusinessConnect - > Configuration - > BusinessConnect.**
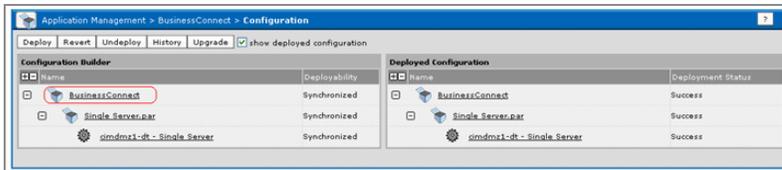
7. Click the **Private Process Configuration** tab and select the **JMS** radio button.
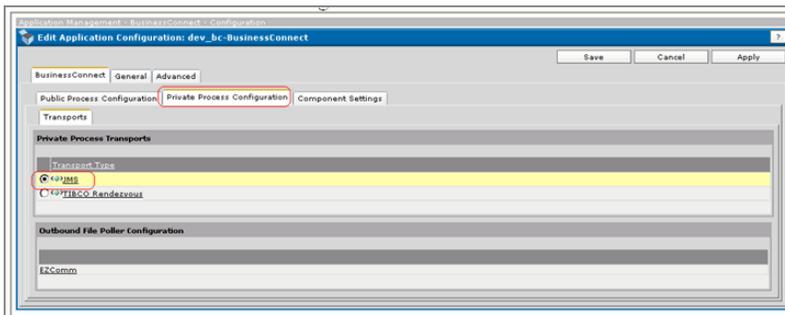
8. Click the **JMS** link and provide the JMS details. After completing all the details click **Test connection** to test the JMS connection. Save the details, if the test connection

is successful.Sample details are as follows:JNDI Context Factory:
com.tibco.tibjms.naming.TibjmsInitialContextFactoryJNDI Context URL:
tcp://localhost:7222Topic Connection Factory: TopicConnectionFactoryQueue
Connection Factory: QueueConnectionFactory
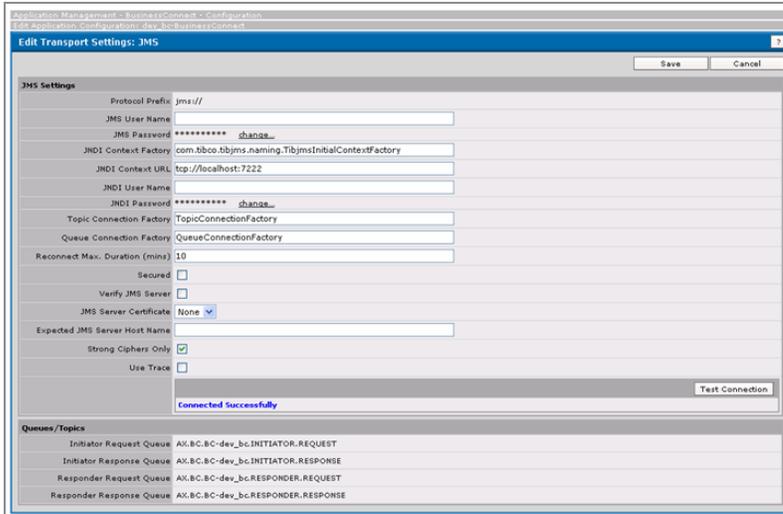
9. Click **Application Management - > BusinessConnect - > Configuration - > Business Connect - > Deploy.**
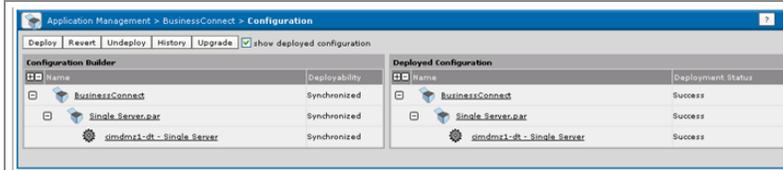
10. Click the **Deploy** Tab. Ensure the **Start successfully deployed services** check box is selected.
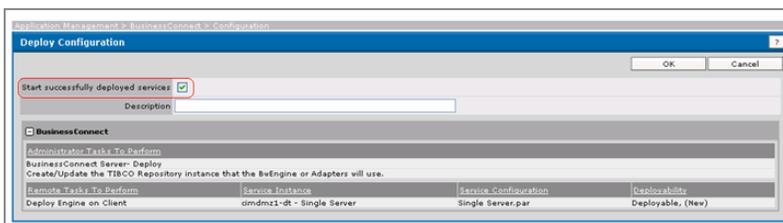
11. Check the status of BusinessConnect availability. Click the **Application Management - > BusinessConnect - > Service Instance**. The BusinessConnect instance status displays as either stand by or running.

12. If after the deployment, the BusinessConnect instance is not started, click **Application Management - > BusinessConnect - > Service Instance - > BusinessConnect > Instance** check box and click **Start**.

13. If all the actions are successful, the BusinessConnect instance should be in running state. If the BusinessConnect instance cannot be started successfully, check the TIBCO Administrator logs (<<TIBCO_HOME>>administrator\domain\<<DOMAIN_NAME>>\logs\audit.txt) to find the cause.

Setting up Business Works

Prerequisites

- Before you start a BW project, create a directory as follows: `<<TIBCO_HOME>>\fsjndi\designerExtendedJars`

- Add the following JAR to this location: `fscontext.jarjndi.jarproviderutil.jar`

- Edit the `designer.tra` file located in `<<TIBCO_HOME>>\designer\5.5\bin`.

- Add the following entry to this file:`tibco.class.path.extended %CUSTOM_CP_EXT%%PSP%%STD_CP_EXT%:<<TIBCO_HOME>>/fsjndi/designerExtendedJars`

Procedure

1. Start TIBCO Designer.

2. Click **New empty project**.
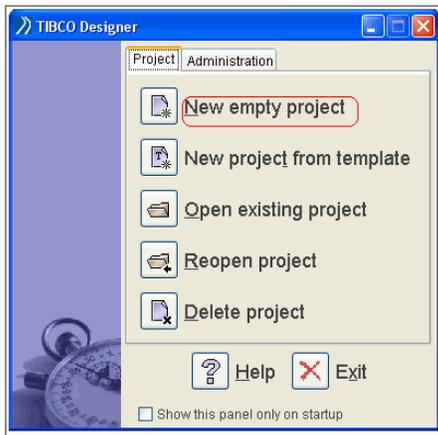
3. Specify the project directory and encoding.
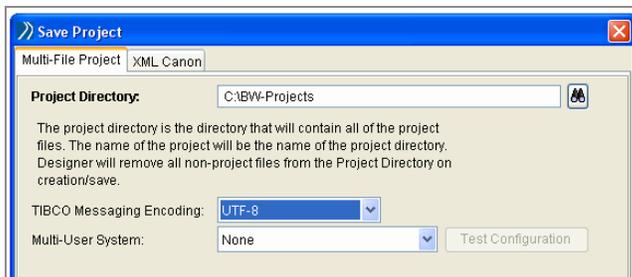
4. Click **Project** –**Import Full Project**.

5. Import vcrepo.dat from the existing BW project directory (directory of the same name as your existing BW configuration).

6. Alternately, if you don't want to import the existing project, copy the existing BW

project directory with another name. This is similar to importing the existing BW project.

7. Edit the project as imported and copied above.

8. Change the following Global variables per the project requirement:

    - bindingFile: Provide the directory location where you want to place your binding file for this project.

    - receiveFile: Provide the directory location where you want the received messages to be saved.

    - hostName: Provide the name of the participant which you configured in BC as Participant of type Host.

    - tpName: Provide the name of the participant which you configured in BC as Participant of type Partner.

    The Sample values are as follows:
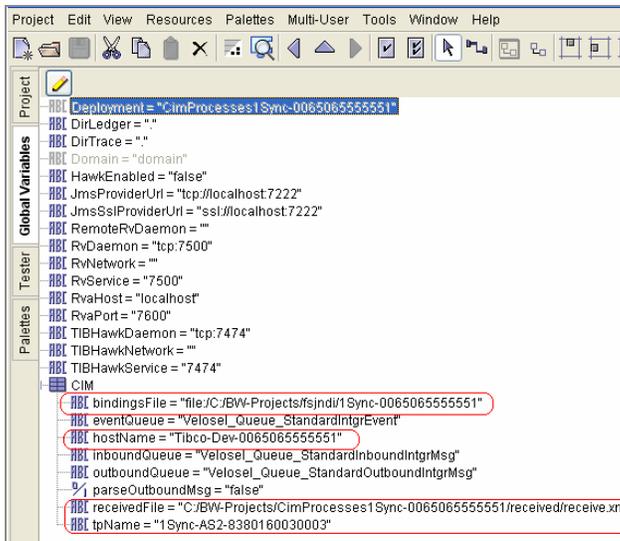
9. Click Project Tab -Shared Connection.

10. If you already have a BusinessConnect connection configured, update the connection.

11. Click the 'Update from Configuration stores' button.
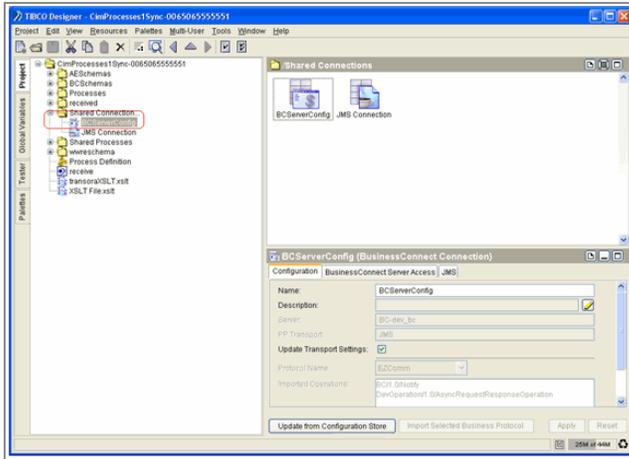
12. Select the **Select operations** check box; click **OK** on the next page.
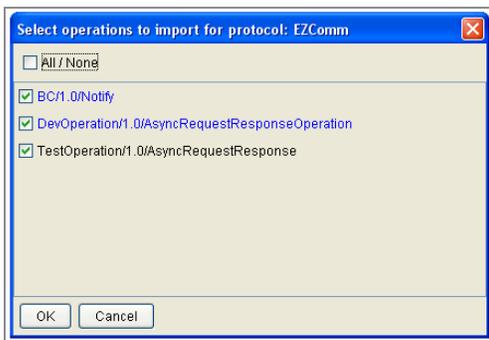
13. Click the **Import selected Business Protocol** button.

14. Click the **BusinessConnect Server Access** tab.
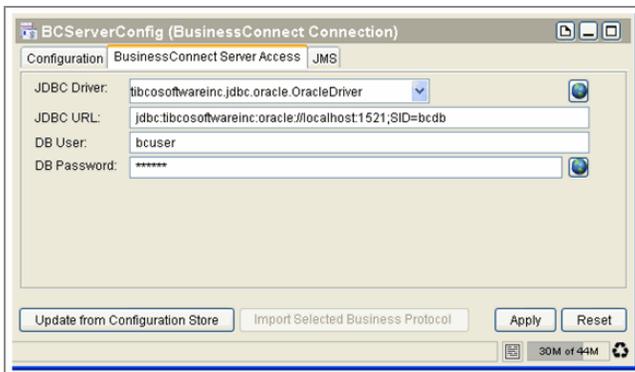
15. Click **Update from Configuration Store** followed by the **Import Selected Business Protocol** button.

16. Click the **JMS** tab of the previous page.

17. Click **Update from Configuration Store** followed by the **Import Selected Business Protocol** button.

18. If you have created a new BusinessConnect connection, ensure the property 'Server Details' of all the activities point to a valid BC connection. A sample activity 'Send Request to TP' of process 'Send to TP Process' is as follows:
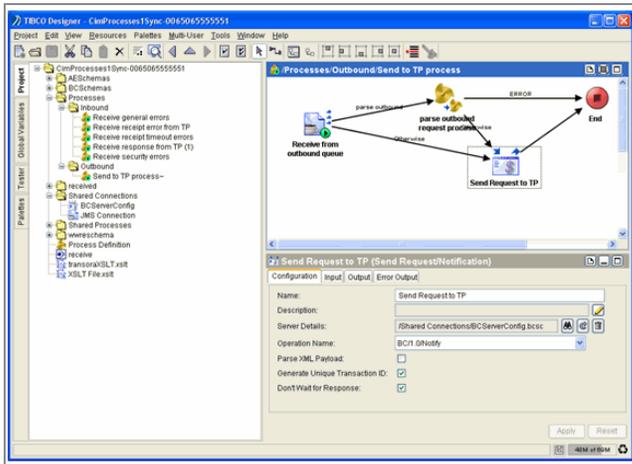
19. Start the test engine by clicking the **Tester** tab on the left followed by a green start signal.
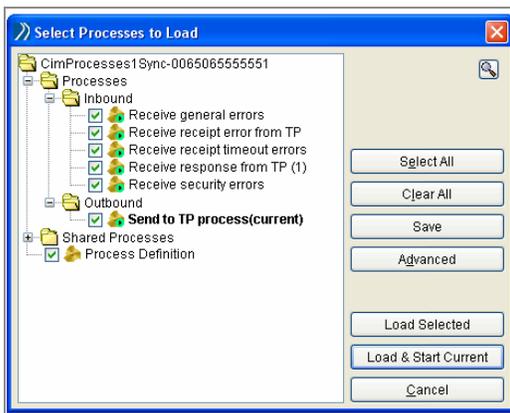
20. Click **Load selected**.

21. After a successful start, all processes should be visible.
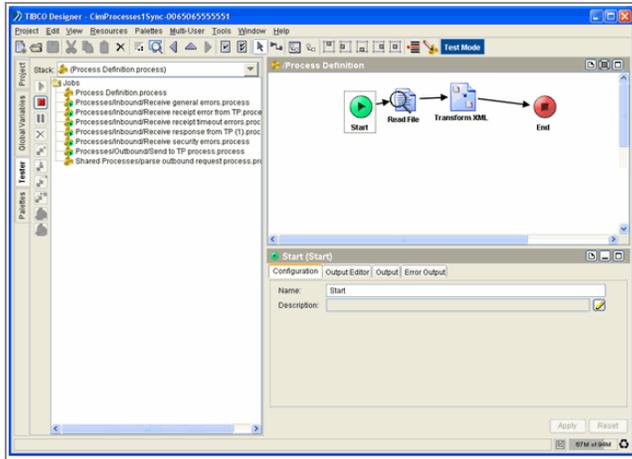
Testing the MDM-BusinessWorks-BusinessConnect Connectivity

Procedure

1. Have a ready-to-publish catalog in MDM.

2. In TIBCO Designer, ensure the BW tester is running, check for Processes\Outbound\Send To TP Process, and all setup done.

3. The Binding file accessed by the BW setup should have the IP of the machine from where testing has to be done.

4. The BC engine should be running and all setups should be done. Open TIBCO Administrator.

5. Publish the product from MDM.

6. Check BW for Processes\Outbound\Send To TP Process, whether the message received, as the activities flow shows green.

7. Check TIBCO Administrator for BusinessConnect, in Log Viewer, for a Audit Logs, for selected time range, whether the message reached and whether the message went out to the trading partner.

8. Check for acknowledgment from the datapool.

9. Check for response in BusinessConnect, BusinessWorks and MDM eventLog.

10. TIBCO BusinessConnect EZComm Protocol does not record advisory messages, such

as the Responder Acknowledgment, in the audit log.

GDSN Predefined Components - An Overview

The out-of-the-box GDSN components are provided in the `$MQ_HOME/plugins/gdsn/`*version*`/common/standard` folder. You can see these components if you have the GDSN plug-in installed. The available components are maps, rulebases, workflows, and templates.

> **ℹ** **Note:** Do not modify the GDSN components supplied in this directory. If a modification is required, maintain the modified file in an enterprise-specific directory.

GDSN-Specific Rulebases

This section introduces you to rulebases specific to GDSN provided in the `$MQ_HOME/plugins/gdsn/`*version*`/common/standard/rulebase` folder.

GDSN-Specific Rulebases

File	Description
`_1sync_catalogvalidation.xml`	This rulebase declares validation rules for out-of-the-box catalog synchronization for 1Sync datapool.
`_1sync_mastercatalog_catalogvalidation.xml`	This rulebase declares validation rules for the master catalog used in synchronization having 1SYNC catalog output map.
`rbapprover.xml`	This is an empty rulebase which is used in the workflow `wfin26prodnotifretailerv4.xml` to flag any errors or warnings in the incoming message data. This rulebase should be customized as per your business process needs.
`rbconnectorprotocolderivation_gdsn.xml`	This rulebase decides the protocol to be used by the message handler for outgoing messages or the response handler for incoming messages.
`rbconnectorrolederivation.xml`	This rulebase decides the protocol to be used by the

File	Description
	message handler for outgoing messages or the response handler for incoming messages.
`rbduplicate.xml`	This rulebase provides a sample duplicate check constraint for incoming messages. The sample rulebase is used to implement a duplicate check for GDSN incoming messages.
`rbeditor.xml`	This is an empty rulebase which is used in workflow `wfin26prodnotifretailerv4.xml` and other incoming message processing workflows to flag any errors or warnings in the incoming message data. This rulebase should be customized as per your business process needs.
`rbformatattributes_gdsn.xml`	Format specific attributes to be used for a marketplace.
`rbgdsnrelationship.xml`	This rulebase is used to identify the relationship to be used in the GDSN edition.
`rbGPCClassificationscheme.xml`	This rulebase drives the classification codes for the GPC predefined classification scheme.
`rbresponsehandlerprotocolderivation_gdsn.xml`	This rulebase is used to identify the protocol used for message processing.
`rbretailerval.xml`	This is a sample retailer validation rulebase.
`rbsendmessage_gdsn.xml`	The generic page is available from the Product View page, where there is an actions link for SendMessage based on the user privileges (Role). The UI that opens on clicking this link is completely customizable based on the underlined rulebase `rbsendMessage.xml`. Currently, it is used to send an RFCIN message and generate a fact sheet. The following customizations are possible: - Customize the product attributes that can be displayed. - Customize actions that can be performed. - Customize the MarketPlace and TradingPartner

File	Description
	Credentials. • Customize the user defined attributes.
`rbsyncstatusupdatederivation.xml`	This sample rulebase is used to customize the manual synchronization status update action.
`rbtolerance.xml`	Permissible values for attributes are defined in this rulebase.
`rbtransorasupplier.xml`	This rulebase identifies different sync operations for the 1SYNC datapool.
`rbUDEXClassificationscheme.xml`	This rulebase derives the classification codes for the UDEX predefined classification scheme.
`rbworkitemdescription_gdsn.xml`	This rulebase derives out-of-the-box workitem descriptions for the GDSN edition.
`rbcim2cimsupplier.xml`	This rulebase identifies the operation state machine for CIM to CIM supply side.

GDSN-Specific Forms

This section introduces you to forms specific to GDSN provided in the `$MQ_HOME/plugins/gdsn/`*version*`/common/standard/forms` folder.

GDSN-Specific Forms

File	Description
`fmretailer.xml`	Used to populate retailer information on retailer side

GDSN-Specific Workflows

This section introduces you to workflows specific to GDSN provided in the `$MQ_HOME/plugins/gdsn/`*version*`/common/standard/workflow` folder

GDSN-Specific Workflows

File	Description
`wfin26RFCINv2.xml`	The workflow to receive and process publication request (RFCIN) for suppliers.
`wfin26catsynchv7_gdsn.xml`	The workflow to initiate synchronization with datapool or custom channel.
`wfin26cim2cimsyncV1.xml`	CIM to CIM synchronization workflow.
`wfin26proddatanotifbasicv2.xml`	The incoming record notification workflow for, primarily, data add/change messages. Recommended for GDSN retailers and similar usage where the received data needs to be processed and saved.
`wfin26prodnotifbasicv3.xml`	The incoming record notification workflow, primarily, for data publication messages. It is a variation of wfin26proddatanotifbasicv2.
`wfin26prodnotifprocessv2.xml`	The workflow to process the incoming record message and save data.
`wfin26prodnotifretailerv4.xml`	The workflow to process the incoming record message and save data. It is a variation of wfin26prodnotifprocessv2 targeted towards datapools and integration hubs.
`wfin26prodnotifv2.xml`	The workflow to receive a notification of a response for a previous synchronization request sent. The notification is issued by CIM when a response is received and processed.
`wfin26catactionRFCINv2.xml`	The workflow to implement initiation of publication request (RFCIN) for retailers.
`wfout1sync62cic26v1.xml`	The workflow to translate the incoming 1Sync CIC message to an mlXML format.
`wfoutveloselcin26v2.xml`	The workflow to translate the incoming CIM2CIM message to an mlXML format.
wfout1sync65cin26v1.xml	The workflow to translate the incoming 1Sync CIN message to an mlXML format.

GDSN-Specific Maps

This section introduces you to translation maps specific to GDSN provided in the `$MQ_HOME/plugins/gdsn/`*version*`/common/standard/maps` folder.

GDSN-Specific Maps

File	Description
`mpfrom1sync62cicwlto26v1.xsl`	This XSLT translates an incoming CIC message (1SYNC Item Authorization Response) to the mlXML format.
`mpfromcatact26to1sync65v1.xsl`	This XSLT translates an outgoing mlXML message to the 1Sync Catalog Request message format (1SYNC Item Maintenance message).
`mpfromcatact26tononebxml70v1.xsl`	This sample map file generates a non-ebxml outbound message.
`mpfromcatact26toveloselcinv1.xsl`	This file translates the outgoing mlXML messages to a message format used in CIM-to-CIM synchronization.
`mpfromcatact26toveloselcinv1_all_Attributes.xsl`	This file translates the outgoing mlXML messages to the message format used in CIM-to-CIM synchronization. It maps all the catalog attributes rather than filtering out EAN.UCC format specific attributes.
`mpfromveloselcintoveloselcinrv1.xsl`	This file is used in CIM-to-CIM synchronization to generate a response for an incoming message.
`mpfromveloseltomlxml26v1.xsl`	This file translates an incoming message to the mlXML format during CIM-to-CIM synchronization.

GDSN Samples

The GDSN samples are located in the `$MQ_HOME/plugins/gdsn/`*`version`*`/common/standard/samples` folder.

WorldSync Samples

The GDSN-specific 1WorldSync samples are:

- mlxml indoc (supplier)

- sync messages (retailer)

- sync messages (supplier)

mlxml indoc (supplier)

These samples are located in the `$MQ_`
`HOME/plugins/gdsn/`*version*`/common/standard/samples/1Sync/mlxml indoc/Supplier`
folder:

```
Add_Cancel.xmlAdd_Correct.xmlAdd_Discontinue.xmlAdd_New.xmlAdd-
Reinstate.xmlLink.xmlLink-UnLink.xmlPublish_New.xmlPublish-Reload-copy.xmlPublish-
Reload-original.xml
```

These internal MDM messages are converted to 1WorldSync datapool format.

These are MDM specific internal formats for the corresponding sync operation/suboperation selected in the synchronization profile/workitem or send response/message pages.

The naming convention for the sample files is `OPER_SUBOPER.xml`, where OPER is the operation selected in synchronization event, SUBOPER is the suboperation selected in synchronization event. For details of operation and suboperation, see MDM Operations for 1WorldSync Messages (Supplier Operations).

sync messages (retailer)

These samples are located in the `$MQ_`
`HOME/plugins/gdsn/`*version*`/common/standard/samples/1Sync/sync messages/Retailer`
folder.

1WorldSync Samples: Sync Messages (Retailer)

File name	Description
CICR.xml	Catalog Item Confirmation Response (CICR) received from Datapool in response to CIC messages.
CINR.xml	This message is sent by CIM in response to CIN.
CIN-Hierarchy-New.xml	This new or initial load message is received from Datapool when the supplier publishes the hierarchy for the retailer.
CIN-Hierarchy-Correction.xml	This correction message is received from Datapool when the supplier publishes the hierarchy for the retailer.
CIN-singleRecord-New.xml	This new or initial load message is received from Datapool when the supplier publishes single record for the retailer.
CIC_RECEIVED.xml	The CIC message with status as RECEIVED sent by retailer in receipt of CIN. By default, this is sent by CIM or by the retailer on clicking the send response link on the Record View page.
CIC_REJECTED.xml	The CIC message with status as REJECTED sent by retailer in receipt of CIN. This message is sent when a user takes action on authorization work item and selects Reject Notification or by the retailer on clicking the send response link on the Record View page.
CIC_REVIEW.xml	The CIC message with status as REVIEW sent by retailer in receipt of CIN. This message is sent when user takes action on authorization work item and selects Review Notification or by the retailer on clicking the send response link on the Record View page.
CIC_SYNCHRONISED.xml	The CIC message with status as SYNCHRONISED sent by retailer in receipt of CIN. This message is sent by the retailer on clicking the send response link on the Record View page.
Item Cancel.xml	When the supplier publishes the hierarchy for the retailer with CancelDate populated, this correction message is received from Datapool.
Item Delete.xml	This delete message is received from Datapool when the supplier publishes the delete operation for the retailer.
Item Discontinue.xml	When the supplier publishes the hierarchy for the retailer with DiscontinueDate populated, this correction message is received from Datapool.

File name	Description
RFCIN.xml	The RFCIN message sent by the retailer with isReload set as true or false. This message is sent on selecting the Send Message link on the Record View page. The Include Rejected Record option should be selected or cleared.
RFCINR.xml	Request For Catalog Item Notification Response (RFCINR) received from Datapool in response to RFCIN messages.

sync messages (supplier)

These samples are located in the $MQ_ HOME/plugins/gdsn/*version*/common/standard/samples/1Sync/sync messages/Supplier folder.

1WorldSync Samples: Sync Messages (Supplier)

File name	Description	Operation Selected on Synchronization Profile		
Add_New.xml	ITEM ADD message is sent for the new records added but not synchronized to the datapool.	**Incremental** Yes	**Deliver To** Datapool	**Operation** Add
Add_Correct.xml	ITEM CORRECTION message having values for the modified records.	**Incremental** Yes/No	**Deliver To** Datapool	**Operation** Data Correction
Add_ Discontinue.xml	ITEM CORRECTION message having discontinueDate populated for the records, which have to be discontinued.	**Incremental** Yes/No	**Deliver To** Datapool	**Operation** Data Correction/ Discontinue
Add_Cancel.xml	ITEM CORRECTION message having cancelDate populated for the records, which have to be	**Incremental** Yes/No	**Deliver To**	**Operation** Data

File name	Description	Operation Selected on Synchronization Profile		
	canceled.		Datapool	Correction/ Cancel
Add-Reinstate.xml	ITEM CORRECTION message not having cancelDate or discontinueDate for the records that were canceled or discontinued.	**Incremental** Yes/No	**Deliver To** Datapool	**Operation** Data Correction/ Reinstate
Link.xml	ITEM LINK ADD message sent to 1WorldSync if a new relationship for the parent record or change in relationship of parent record is detected.	**Incremental** Yes/No	**Deliver To** Datapool	**Operation** Add/Data Correction
Link-UnLink.xml	ITEM LINK DELETE message sent to 1WorldSync when a relationship change of parent record is detected.	**Incremental** Yes/No	**Deliver To** Datapool	**Operation** Add/ Data Correction
Publish_New.xml	PUBLICATION ADD message of New type sent to the retailer, for example, Trading Partner.	**Incremental** Yes/No	**Deliver To** Trading Partner on Datapool	**Operation** Add/ Publish
Publish-Reload-original.xml	PUBLICATION ADD message of New type, sent to the retailer, for example, Trading Partner.	**Incremental** Yes/No	**Deliver To** Trading Partner on Datapool	**Operation** For RELOAD-ORIGINAL-Initial Load+ Include Rejected Records
Publish-Reload-copy.xml	PUBLICATION ADD message of	**Incremental**	**Deliver**	**Operation**

File name	Description	Operation Selected on Synchronization Profile		
	InitialLoad type, sent to the retailer, for example, Trading Partner.	Yes/No	**To** Trading Partner on Datapool	For RELOAD-COPY: Initial Load
CIC_REVIEW.xml	Catalog Item Confirmation message of the Review type received from Datapool initiated by retailer or Trading Partner. This is an incoming message.	None	None	None
CIC_RECEIVED.xml	Catalog Item Confirmation message of the Received type received from Datapool initiated by retailer or Trading Partner. This is an incoming message.	None	None	None
CIC_REJECTED.xml	Catalog Item Confirmation message of the Rejected type received from Datapool initiated by retailer or Trading Partner. This is an incoming message.	None	None	None
CIC_ SYNCHRONISED.xml	Catalog Item Confirmation message of the Synchronised type received from Datapool initiated by retailer or Trading Partner. This is an incoming message.	None	None	None

cim2cim metadata

This section contains the details of GDSN-specific cim2cim metadata samples located in the $MQ_HOME/plugins/gdsn/*version*/common/standard/samples/cim2cim metadata folder.

cim2cim Metadata Samples

File name	Description
Bottler1-MetaData.jar	Bottler1-specific repository and Business Process Rules are created.
Bottler2-MetaData.jar	Bottler2-specific repository and Business Process Rules are created.
BrandOwner-MetaData.jar	Brandowner-specific repository and Business Process Rules are created.
VeloselMarketplace-MetaData.jar	VeloselMarketplace-specific repository and Business Process Rules are created.

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