SAP NetWeaver Master Data Management
GDS Data Migration Based on the MDM Syndication Tool and Import Manager
## Typographic Conventions

<table>
<thead>
<tr>
<th>Type Style</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Example</strong></td>
<td>Words or characters quoted from the screen. These include field names, screen titles, pushbuttons labels, menu names, menu paths, and menu options. Textual cross-references to other documents.</td>
</tr>
<tr>
<td><strong>Example</strong></td>
<td>Emphasized words or expressions.</td>
</tr>
<tr>
<td><strong>EXAMPLE</strong></td>
<td>Technical names of system objects. These include report names, program names, transaction codes, table names, and key concepts of a programming language when they are surrounded by body text, for example, SELECT and INCLUDE.</td>
</tr>
<tr>
<td><strong>Example</strong></td>
<td>Output on the screen. This includes file and directory names and their paths, messages, names of variables and parameters, source text, and names of installation, upgrade and database tools.</td>
</tr>
<tr>
<td><strong>Example</strong></td>
<td>Exact user entry. These are words or characters that you enter in the system exactly as they appear in the documentation.</td>
</tr>
<tr>
<td><code>&lt;Example&gt;</code></td>
<td>Variable user entry. Angle brackets indicate that you replace these words and characters with appropriate entries to make entries in the system.</td>
</tr>
<tr>
<td><strong>EXAMPLE</strong></td>
<td>Keys on the keyboard, for example, F2 or ENTER.</td>
</tr>
</tbody>
</table>
Caution

Before you start the implementation, make sure you have the latest version of this document. You can find the latest version at the following location http://service.sap.com/instguides.

The following table provides an overview of the most important document changes.

<table>
<thead>
<tr>
<th>Version</th>
<th>Date</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.04</td>
<td>2015-11-12</td>
<td>Initial version.</td>
</tr>
</tbody>
</table>
Contents

1 Introduction ........................................................................................................................................... 5
  1.1 Attributes to be Migrated .................................................................................................................. 5
  1.2 Prepare the Destination Data Structures in the Repository ............................................................... 5

2 Export Existing Data .............................................................................................................................. 6
  2.1 Exporting Lookup Tables with a Remote Key ..................................................................................... 7
  2.2 Exporting with the Syndicator Tool from the Source Repository ...................................................... 8

3 Import Data ........................................................................................................................................... 11
  3.1 Copy Mode: Copying all Full Trade Items ......................................................................................... 12
  3.2 Copy Mode: Delta Changes Only ....................................................................................................... 13
  3.3 Import Multilingual Fields .................................................................................................................. 14
  3.4 Importing Lookup Tables .................................................................................................................. 15
  3.5 Define Key Fields .............................................................................................................................. 15
  3.6 Actions on Match ............................................................................................................................... 16

4 Frequently Asked Questions - FAQs .................................................................................................... 17

5 Non-Flex to Flex Data Transport Use Case – Field: Stacking Factor ................................................. 18
  5.1 Existing Source from the MDM Console ............................................................................................. 18
  5.2 Destination Structure from the IWS Datasource Guide ...................................................................... 18
  5.3 Copy Plan Stacking Factor ............................................................................................................... 19
  5.4 Copy Plan Maximum Stacking Weight ............................................................................................. 19

6 Import to Stacking Factor ..................................................................................................................... 20

7 Non-Flex to Flex Data Transport Use Case – Field: EANUCC ............................................................. 21
  7.1 Existing Source from MDM Console .................................................................................................... 21
  7.2 Destination Structure from the IWS Datasource Guide .................................................................... 22
  7.3 Copy Plan EANUCC Fields .............................................................................................................. 23

8 Import EANUCC ..................................................................................................................................... 24

9 Flex AQ to Flex AQM Data Transport Use Case – Field: Pieces Per Trade Item to Units Per Trade Item .......................................................................................................................... 25
  9.1 Existing Source from the MDM Console ............................................................................................ 25
  9.2 Destination Structure from the IWS Datasource Guide ................................................................... 26
  9.3 Copy Plan PiecesPerTradeItem/UnitsPerTradeItem Fields .............................................................. 28

10 Import UnitsPerTradeItem AQM ......................................................................................................... 29
1 Introduction

This guide outlines the required steps for moving data from a source MDM repository to a destination MDM repository using the following MDM standard tools:

- MDM Console (at least SP10)
- MDM Syndicator Tool (at least SP10)
- MDM Import Manager (at least SP10).

More Information

See the following guides:

- MDM Syndicator Reference Guide
- MDM Import Manager Reference Guide.

1.1 Attributes to be Migrated

Prepare a list of attributes to be migrated to a new structure. This list depends on the modules that you want to implement in the system. After the migration is confirmed to be successful and the data is in the destination structure, it is recommended that you remove the source attribute.

1.2 Prepare the Destination Data Structures in the Repository

Deploy the modules to create the data structures in the MDM repository. This step is necessary for data migration. Note that we consider the source and the destination to be the same in the MDM repository. For new customers the source is the initial repository.

After this step, data is available in the existing old structure and the new data structures are deployed but empty.
2 Export Existing Data

A definition .xsd is necessary for the MDM Syndicator Tool to export data in a structured way. It can be generated from the repository definition through MDM Java API or can be created manually. As for the Java API, see the MDM Java API documentation at http://help.sap.com/javadocs/mdm71/.

For simple cases manual creation is recommended.

The .xsd should list the attributes that are affected by the migration in the following syntax:

```xml
<element name="FieldCode" type="string"/>
```

For complex types it is (please see example in TMData.xsd attached):

```xml
<element name="ComplexFieldCode" minOccurs="0" maxOccurs="unbounded">
    <complexType>
        <sequence>
            <element name="FieldCode1" type="string"/>
            <element name="FieldCode2" type="string"/>
            <element name="ComplexFieldCode2">
                <complexType>
                    <sequence>
                        <element name="SubFieldCode1" type="string"/>
                        <element name="SubFieldCode2" type="string"/>
                    </sequence>
                </complexType>
            </element>
        </sequence>
    </complexType>
</element>
```

For multi-language fields:

```xml
<element name="MultiLangFieldCode" minOccurs="0" maxOccurs="unbounded">
    <complexType>
        <sequence>
            <element name="Value" type="string"/>
            <element name="Language" type="string"/>
        </sequence>
    </complexType>
</element>
```
MDM Syndicator Tool – Split Field by Value

The data will be moved to the xsd/xml structure. See the TMData.xsd file in SAP Note 2228174.

2.1 Exporting Lookup Tables with a Remote Key

You must have a remote key element in the xml schema file. See the Parties.xsd file in SAP Note 2228174. You can select the remote key values for exporting.
2.2 Exporting with the Syndicator Tool from the Source Repository

Procedure

1. Start the MDM Syndicator Tool.
2. Choose File→New.
3. Select the xml schema file and specify the xml definition (.xsd). The following illustration shows an example of the MDM_MappingStacking.xsd:
4. You must identify the trade item under the GTIN, Target Market, and Information Provider fields (these three values represent the key to uniquely identify a trade item). This is the minimal set of information required.

5. You must also decide what should be exported from the source repository. Use the Syndicator Tool for item mapping.

Example of Syndicator Tool Key-Based Mapping

The use of a single export file is recommended because it simplifies the import process later on. The single file contains all of the MDM entries that can be handled by a single import process.

You can perform this task multiple times. If at a later date any further data migration is necessary, then you can execute this step again. You can enter the starting characters of an attribute and the tool will select the attribute in Item Mapping.
MDM Syndicator Tool – Output to One File
3 Import Data

Prerequisites

- You have imported the xsd schema to the repository from the MDM Console. For example, TMData.xsd.

MDM Console – Add xml Schema

![MDM Console screenshot]

Procedure

1. In the MDM Console, configure the XML Schema Name. For example, TradeItem Stacking factor migration.
2. Start the MDM Import Manager.
3. Select the xml schema with the same name as the one in the MDM Console. For example, TradeItem Stacking factor migration. The source file in the File Name field is the output of the Syndicator Tool that you exported at the end of the export process.
MDM Import Manager – New Import Source

4. Select the source and the destination tables. In most cases you will use TM Data.

MDM Import Manager – Destination Table Selection in the Repository

3.1 Copy Mode: Copying all Full Trade Items

Procedure

1. Copy all trade items and attributes to a new, empty repository.
2. On the Configuration menu, choose Options. Change the Find Matching Field Type to Normalized.
MDM Import Manager – Type Must be Normalized

When you import all of the attributes, then you can use the auto map feature of MDM Import Manager. Configure the following:

1. Select the Map Fields/Values tab and choose AutoMap as the initial mapping. The Qualified tables may have invalid mapping. Review as required.

MDM Import Manager – Mapping Fields

3.2 Copy Mode: Delta Changes Only

When you only want to copy some fields to a new destination, map the delta changes only.

Note

For mapping lookup values each single value must be mapped.
3.3 Import Multilingual Fields

MDM Import Manager – Configuration: Multilingual Text Fields as Repeating Structures
MDM Import Manager – Mapping Multilingual Fields

3.4 Importing Lookup Tables

Select the destination lookup table and create mapping for values and lookups.

MDM Import Manager – Lookup Tables

3.5 Define Key Fields

TMData uses a combined key consisting of GTIN, Information Provider, and Target Market; lookup tables use a simple key that can be a remote key or a name.
MDM Import Manager – Key Fields for Identifying Records

3.6 Actions on Match

MDM Import Manager – Match Records

Procedure

1. In Copying All Trade Items mode, use None, Match, and Create.
2. In Delta Changes Only mode, use Exact, Match, and Update (all mapped fields).
3. Execute the import after the above steps.
4. After the successful and confirmed migration of data to the destination data structure, it is highly recommended that you remove the source attribute.
4 Frequently Asked Questions - FAQs

- You cannot execute the import
  The Import Status tab displays the message Action Items.... It describes the blocking point in the import. Check the following:
  o the qualified lookup mapping (qualifiers and qualified fields mapped in two different mapping nodes)
  o the lookup value mapping.
  Import Manager – Action Items to Finish the Import

- What should I do with the old unused source data fields?
  o After the successful and confirmed migration of data to the destination data structure, it is highly recommended that you remove the source attribute.
5 Non-Flex to Flex Data Transport Use Case – Field: Stacking Factor

Prerequisites

- See sections 2 Export Existing Data and 3 Import Data above.

5.1 Existing Source from the MDM Console

TMDaTStackingFactor

MDM Console – Current (Source) Stacking Factor Field

5.2 Destination Structure from the 1WS Datasource Guide

TMDaT – TradeItemStacking: StackingFactor
5.3 Copy Plan Stacking Factor

Source: TMDdata→StackingFactor

Destination: TMDdata→TradeItemStacking→Stacking Factor

5.4 Copy Plan Maximum Stacking Weight

Source: TMDdata→MaxStackingWeight & MaxStackingWeightUOM

Destination: TMDdata→TradeItemStacking→StackingWeightMaximum→Value & Qualifier

Export (Mapping in Syndicator Tool)

Syndicator Tool - Mapping

- You can execute the export after the steps in the StackingFactor.xml file. See the StackingFactor.xsd file in SAP Note 2228174.
- Save the mapping in the Syndicator Tool Output.
6 Import to Stacking Factor

Prerequisites

- See section 3 Import Data.

Procedure

1. Create the import field and value mapping for the fields.

   Import Manager – Import Mapping to the Destination Structure

2. Execute the import.

3. Verify the data in the destination structure.
7 Non-Flex to Flex Data Transport Use Case – Field: EANUCC

Prerequisites

- See sections 2 Export Existing Data and 3 Import Data
- See the TMData.xsd file in SAP Note 2228174.
  - TMData definition for Eanucc codes.

7.1 Existing Source from MDM Console

TMData – EANUCCodes

MDM Console – Current (Source) EANUCC Fields
7.2 Destination Structure from the 1WS Datasource Guide

TMDa – GS1TradeItemIdentificationKey – Code.Type isBarcodeSymbologyDerivable

IWS Datasource Guide – EANUCC Fields

<table>
<thead>
<tr>
<th>IWS Catalogue Request Attribute</th>
<th>IWS XML Structure Type</th>
<th>IWS Item M/O/D</th>
<th>IWS Item Data Type</th>
<th>IWS Item Data Length (Min)</th>
<th>IWS Item Data Length (Max)</th>
<th>Qualifier</th>
<th>Module</th>
<th>FLX</th>
</tr>
</thead>
<tbody>
<tr>
<td>alternateClassification/additionalProperty/propertyMeasurement</td>
<td>AQ</td>
<td>O</td>
<td>ufloat</td>
<td>1</td>
<td>10</td>
<td>uom</td>
<td>Core Attributes</td>
<td>Y</td>
</tr>
<tr>
<td>alternateClassification/additionalProperty/propertyString</td>
<td>A</td>
<td>O</td>
<td>string</td>
<td>1</td>
<td>1000</td>
<td></td>
<td>Core Attributes</td>
<td>Y</td>
</tr>
<tr>
<td>GS1TradeItemIdentificationKey</td>
<td>AGM</td>
<td>O</td>
<td>string</td>
<td>1</td>
<td>80</td>
<td></td>
<td>tradeItemDataCarrierAndId</td>
<td>Y</td>
</tr>
<tr>
<td>GS1TradeItemIdentificationKey/type</td>
<td>A</td>
<td>O</td>
<td>string</td>
<td>1</td>
<td>70</td>
<td></td>
<td>tradeItemDataCarrierAndId</td>
<td>Y</td>
</tr>
<tr>
<td>GS1TradeItemIdentificationKey/code</td>
<td>A</td>
<td>O</td>
<td>boolean</td>
<td></td>
<td></td>
<td></td>
<td>tradeItemDataCarrierAndId</td>
<td>Y</td>
</tr>
<tr>
<td>GS1TradeItemIdentificationKey/isBarcodeSymbologyDerivable</td>
<td>A</td>
<td>O</td>
<td>boolean</td>
<td></td>
<td></td>
<td></td>
<td>tradeItemDataCarrierAndId</td>
<td>Y</td>
</tr>
<tr>
<td>GS1TradeItemIdentificationKey/isBarCodeOn</td>
<td>A</td>
<td>O</td>
<td>boolean</td>
<td></td>
<td></td>
<td></td>
<td>tradeItemDataCarrierAndId</td>
<td>Y</td>
</tr>
</tbody>
</table>

MDM Console – Destination Structure
7.3 Copy Plan EANUCC Fields

Source: TMData→EANUCCCodes→Code,Type isBarcodeSymbologyDerivable
Destination: TMData→GS1TradeItemIdentificationKey→Code,Type isBarcodeSymbologyDerivable

Export (Mapping in Syndicator Tool)

Syndicator Tool - Mapping

- Execute the export after the steps in the ExportEanucc.xml file. See the ExportEanucc.xml file in SAP Note 2228174
- Save the mapping in the Syndicator Tool Output.
8 Import EANUCC

Prerequisites

- See section 3 Import Data.

Procedure

1. Create the import fields and value mappings for the fields.
   
   **Import Manager – Import Mapping to the Destination Structure**

   ![Import Manager – Import Mapping to the Destination Structure](image1)

   **Import Manager – Mapping of Lookup Values**

   ![Import Manager – Mapping of Lookup Values](image2)

2. Execute the import.
3. Verify the data in the destination structure.
9 Flex AQ to Flex AQM Data Transport Use Case – Field: Pieces Per Trade Item to Units Per Trade Item

Prerequisites

- See sections 2 Export Existing Data and 3 Import Data
- See the TMData.xsd file in SAP Note 2228174.
  - TMData definition for Units Per Trade Item.

9.1 Existing Source from the MDM Console

TMData – Pieces Per Trade Item, UOM

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Type</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>E</td>
<td>Percentage of Alcohol per Volume</td>
<td>Real</td>
<td>None</td>
</tr>
<tr>
<td>[E]</td>
<td>Pieces Per Trade Item</td>
<td>Integer</td>
<td>None</td>
</tr>
<tr>
<td>[E]</td>
<td>Pieces Per Trade Item UOM</td>
<td>Lookup [Int]</td>
<td>None</td>
</tr>
<tr>
<td>[E]</td>
<td>Pieces Per Trade Item (UOM)</td>
<td>Text [Int]</td>
<td>None</td>
</tr>
</tbody>
</table>

MDM Console – Current (Source) Pieces Per Trade Item fields
9.2 Destination Structure from the 1WS Datasource Guide

TMDATA – Units Per Trade Item - AQM

1WS Data Source Guide – Units Per Trade Item

<table>
<thead>
<tr>
<th>1WS Catalogue Request Attribute</th>
<th>1WS XML Structure Type</th>
<th>1WS Item M/O/D</th>
<th>1WS Item Type</th>
<th>1WS Item Data Length (Min)</th>
<th>1WS Item Data Length (Max)</th>
<th>Qualifier</th>
<th>Module</th>
<th>FLX</th>
</tr>
</thead>
<tbody>
<tr>
<td>foodAndBev/DietTypeInfo/certification/refere ncedFileInformation/fileOptimalViewerName</td>
<td>AM</td>
<td>O</td>
<td>string</td>
<td>1</td>
<td>200</td>
<td>DietInformation</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>foodAndBev/DietTypeInfo/certification/refere ncedFileInformation/fileOriginCountryCode</td>
<td>AM</td>
<td>O</td>
<td>string</td>
<td>1</td>
<td>80</td>
<td>DietInformation</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>foodAndBev/DietTypeInfo/certification/refere ncedFileInformation/fileVersion</td>
<td>A</td>
<td>O</td>
<td>string</td>
<td>1</td>
<td>70</td>
<td>DietInformation</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>foodAndBev/DietTypeInfo/certification/refere ncedFileInformation/uniformResourceId</td>
<td>A</td>
<td>O</td>
<td>string</td>
<td>1</td>
<td>2500</td>
<td>DietInformation</td>
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<tr>
<td>regulatoryInformation</td>
<td>AGM</td>
<td>O</td>
<td></td>
<td></td>
<td></td>
<td>RegulatedTradeItem</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>regulatoryInformation/regulationTypeCode</td>
<td>AM</td>
<td>O</td>
<td>string</td>
<td>1</td>
<td>80</td>
<td>RegulatedTradeItem</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>regulatoryInformation/regulatoryAct</td>
<td>A</td>
<td>O</td>
<td>string</td>
<td>1</td>
<td>80</td>
<td>RegulatedTradeItem</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>regulatoryInformation/regulatoryAgency</td>
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<td>O</td>
<td>string</td>
<td>1</td>
<td>80</td>
<td>RegulatedTradeItem</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>regulatoryInformation/permitIdentification</td>
<td>AGM</td>
<td>O</td>
<td></td>
<td></td>
<td></td>
<td>RegulatedTradeItem</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>regulatoryInformation/permitIdentification/permitEndDate</td>
<td>A</td>
<td>O</td>
<td>dateTime</td>
<td></td>
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<td>RegulatedTradeItem</td>
<td>Y</td>
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</tr>
<tr>
<td>regulatoryInformation/permitIdentification/permitStartDate</td>
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<td>O</td>
<td>dateTime</td>
<td></td>
<td></td>
<td>RegulatedTradeItem</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>regulatoryInformation/permitIdentification/permitNum</td>
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<td>M</td>
<td>string</td>
<td>1</td>
<td>200</td>
<td>RegulatedTradeItem</td>
<td>Y</td>
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</tr>
<tr>
<td>isNonGTINLogisticUnitPackedIrregularly</td>
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<td>O</td>
<td></td>
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<td>TradeItemHierarchy</td>
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<tr>
<td>layerHeight</td>
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<td>unitsPerTradeItem</td>
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<td>Trade Item</td>
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</table>
MDM Console – Destination Structure

<table>
<thead>
<tr>
<th>Console Hierarchy</th>
<th>Member Fields</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Purchase Order Receivers</td>
<td></td>
</tr>
<tr>
<td>- Assortment Codes</td>
<td></td>
</tr>
<tr>
<td>- Tax Amounts</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>- Image Variables</td>
<td></td>
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<tr>
<td>- Sounds</td>
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<td></td>
</tr>
<tr>
<td>- Videos</td>
<td></td>
</tr>
<tr>
<td>- Binary Objects</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>- Text Blocks</td>
<td></td>
</tr>
<tr>
<td>- Copy Blocks</td>
<td></td>
</tr>
<tr>
<td>- Text HTMLs</td>
<td></td>
</tr>
<tr>
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<td>- PDFs</td>
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<td>- Maps</td>
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<tr>
<td>- Relationships</td>
<td></td>
</tr>
<tr>
<td>- Workflow</td>
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</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>- Types</td>
<td></td>
</tr>
<tr>
<td>- [6] Application Identifier Type Code</td>
<td></td>
</tr>
<tr>
<td>- [7] Bracket Qualifier</td>
<td></td>
</tr>
<tr>
<td>- [8] Data Carrier</td>
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<tr>
<td>- [9] Effective Date</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>- [10] External File Links</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>- [12] Key Trade Item Identification Key</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>- [13] Product Class</td>
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</tr>
<tr>
<td>- [14] Layer Images</td>
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<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>- [15] Linear KOMUALREC</td>
<td></td>
</tr>
<tr>
<td>- Packaging</td>
<td></td>
</tr>
<tr>
<td>- [16] Performance Requirement</td>
<td></td>
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<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>- [17] Price Conditions Extensible Generic Fields</td>
<td></td>
</tr>
<tr>
<td>- [18] Price Description Extensible Generic Fields</td>
<td></td>
</tr>
<tr>
<td>- [19] Price Information Extensible Generic Fields</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>- [20] Reference Document Information</td>
<td></td>
</tr>
<tr>
<td>- [21] Special Item Code</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>- [22] Subversion Code</td>
<td></td>
</tr>
<tr>
<td>- [23] Units Per Trade Item</td>
<td></td>
</tr>
</tbody>
</table>

**Member Field Details**

<table>
<thead>
<tr>
<th>Name</th>
<th>Qualifier</th>
<th>Lookup [Flat]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code</td>
<td>Qualifier</td>
<td>Lookup [Flat]</td>
</tr>
</tbody>
</table>

**Description**

- **Type**: Lookup [Flat]
- **Multi-lingual**: Yes
- **Keyword**: None
- **Display Field**: Yes
- **Sort Index**: Normal
- **Calculated**: No
- **Search Tab**: Yes
- **Multi-valued**: No
- **Lookups**: Hardlines Linear LCHs
9.3 Copy Plan PiecesPerTradeItem/UnitsPerTradeItem Fields

Source: TMData→PiecesPerTradeItem,UOM
Destination: TMData→UnitsPerTradeItem→Value,Qualifier

Export (Mapping in Syndicator Tool)

Syndicator Tool - Mapping

- Execute the export after the steps in the ExportUnitsPerTradeItems.xml file in SAP Note 2228174
- Save the mapping in the Syndicator Tool Output.
10 Import UnitsPerTradeItem AQM

Prerequisites

- See section 3 Import Data.

Procedure

1. Create the import field and value mappings for the fields.

   Import Manager – Import Mapping to the Destination Structure
2. Execute the import.
3. Verify the data in the destination structure.
MDM Data Manager – Data is Copied to the Destination