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User Help Guide for RFM and RMP Solutions by Utopia for S/4HANA

Release 1909

Document History

The following tables provide an overview of the most important document changes and approvals.

Version	Date	Description	Name
1.0	13-01-2020	Initial Version	Neelima Gowni

Approval History

Version	Date	Description	Name
1.0	19-02-2020	Approved version	Lyle Snyder

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Utopia RFM Solutions for MDG

Utopia RFM Solutions for MDG can be used to request, approve, and execute changes to the following Article Master objects, as of version 1909, as well as replicate those changes to decentralized systems by means of ALE and IDOCs.

Utopia Article Master (uArticle™) for Master Data Governance is discussed in this document.

MDG Features

The management of master data usually follows the pattern below:

- You can influence the flow of this process by selecting a workflow
- You create a Change Request (see Creation of a Change Request).
- The Change Request undergoes an approval procedure. You can use the function processing of a Change Request.
- You execute the master data change (see Master Data Processing)
- You replicate the changes (see Data Replication)
- Simple field mappings with field transformations and complex transformations (SMT Mapping/Extensibility)
- Source and Target Value mapping (Key Mapping)
- Data Import Framework (DIF)
- Context Based Adaptation (CBA) for UI

Additional Enhancements

The following additional enhancements are discussed in this section:

- System/User Status
- Enhanced (additional) Search Attributes
- Enhanced Search Functionality (ALV)
- Variant Class Type and Variant Class
- New Classification: Combination of the Classification and Configuration
- New Classification: Merchandise Category/Classification System/Characteristics
- Data Import Framework (DIF)
- Search
- Copy from Search Results
- Default Characteristics Referencing from Transaction CT04 for Characteristics
- Bill of Material (BOM)
- Mass Operations: Article Import
- Purchase Info Import
- Mass Change
- File Upload and Data Import Framework
- File Upload - All

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System/User Status

The technical objects and the complete processing with notification and order are linked to SAP's General Status Management. Here, you should distinguish between the System Status and the User Status.

For certain business processes, the system sets the System Status internally and automatically as a part of its General Status Management. A System Status is a status set by the system informing the user that a certain function has been performed on an object. The user cannot influence the System Status. The user can neither delete nor change it directly.

In addition to the status of the predefined system, you can define User Status that fulfill your requirements to extend or enhance the System Status. A User Status is a status defined by the user that can be created in addition to the existing System Status. The user can define and activate as many user statuses as required. The user statuses are defined in Customizing by means of a Status Profile.

Enhanced (additional) Search Attributes

Additional Search Criteria attributes have been added for each object to enhance the Search capabilities. The additional attributes allow users more options to refine the criteria used when performing a Search.

Enhanced Search Functionality – ALV

Users can save information about column structure, sort criteria, filter conditions, various display options, and so on, in an unlimited number of views. This implies that the users can always display the ALV output with their preferred properties. However, these views are only available to the user who created them. The views are not visible to other users. This form of modification of the ALV output is referred to as 'Personalization'.

Variant Class Type and Variant Class

This is introduced for the Generic Article. It is a new Classification. According to the data model, switch from pure Classification to a combination of the Merchandise Category/Classification System/ Characteristics.

Changes for the Generic Articles and Variants

No class (KLAH, Class Type 026) are created for Generic Articles within the Merchandise Category hierarchy.

- Generic Article and Variants still have an object representation (INOB, Class Type 026) within the Merchandise Category hierarchy but they are linked directly to the Merchandise Category or Characteristic Profile (KSSK, Class Type 026) and not to a Generic Article class (KLAH, Class Type 026) Generic Articles now have an object representation in INOB table for Class Type 300 and they are linked to the configuration class (KLAH, KSSK, Class Type 300).
- Variants do not appear as objects in INOB table for Class Type 300. They are handled as configuration object instance within the IBASE.

New Classification: Combination of the Classification and Configuration

To provide more flexibility in the bundling of variant-creating characteristics, independent from the Merchandise Category hierarchy, the following tasks are performed:

- Configuration classes can be defined in a free manner compared to Characteristics Profiles.

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- Existing configuration classes can be reused by any Generic Article as long as the assigned Characteristics are fitting.
- Reassignment of Generic Articles and Variants from one Merchandise Category to another Merchandise Category.
- Reclassification becomes easier as the variant-creating Characteristics are not concerned by that reassignment anymore.
- User guidance during Master Data creation for Generic Articles is not rigid In S/4HANA, the Material, the Configurable Material and the Retail Article cannot be changed from a Master Data perspective but changed only the way of storing the Variant-creating data. The coexistence of Configuration Class and Characteristics Profiles Variant-creating Characteristics of Characteristics Profiles is hidden. Characteristics Profiles without informative Characteristics is hidden Merchandise Category Assignment, Informative Characteristics and Variants SAP Fiori theme for “classic” applications.

New Classification: Merchandise Category/Classification System/Characteristics

Adaption of the MDG data model for Articles regarding the Merchandise Categories.

- The data model is enhanced to also use Variant building and informative Characteristics during the Article creation and maintenance process which means that there is a connection to the Classification System due to this.
- In S/4HANA, the Material, the Configurable Material and the Retail Article cannot be changed from a Master Data perspective but changed only the way of storing the Variant-creating data.

Data Import Framework (DIF)

- Data Import menus are only available in the Data Exchange menu for the Specialist and Steward roles.
- The DIF feature can be used to load the data into the system along with the Classification.
- For the Data Creation with the internal number range, the upload of Classification and Article attribute data should be performed in the subsequent run of DIF.
- Data Import functionality is available to create multiple records using xml and csv files with Key Mapping or without Key Mapping and, Key Mapping and Value Mapping. Multiple options including manual and governance process are present.
- While performing Data Import, the applicable fields for each unique Object Type /Category may be entered in the input file. You cannot dynamically restrict in the Framework, so the applicable field values are provided based on the Object Type /Category in the input files that are being loaded.
    - Examples – Article Category, BOM Item Category,

Search

The Default and only Search Method supported is HANA Search. In this search type, you can search with various criteria and search operators. HANA Search supports dynamic attribute selection.

Copy from Search Results

Create a new object with the Copy functionality by using an existing object. In the Search Results List screen, select an existing object and click Copy. The values that were present in the existing object is automatically copied into a new Change Request for that object.

Note: In the pop-up window after clicking Copy.

- Article Master, Internal Number: The field should be left blank. A temporary key is provided in the new Change Request generated.
- External Number: Provide the new external number.

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Default Characteristics Referencing from Transaction CT04 for Characteristics

- Default Characteristics Referencing from Transaction CT04 for Characteristics
- The Characteristics Referencing is based on the default Characteristics in t-code CT04

Bill of Material (BOM)

For the creation of Sets, Prepacks and Displays also the creation of Bill of Materials is provided (with the known restrictions/limitations regarding BOMs and Retail systems. For example, no complex BOMs, no multiple-structured BOMs, no configurable BOMs).

Changes in assigned BOMs are possible (with the known restrictions / limitations regarding changes of BOMs in a retail system. For example, changes are not allowed if a designated Set/Prepack/Display is already used in a retail process or in any document like a Purchase Order or a Sales Order).

Mass Operations: Article Import

Supports BD10 ARTMAS IDoc xmls for Article Data (limited number of views/field). One Article in one xml file for all types of operations as in the following:

Types of Mass Operations:

- Mass Import Active Area – Limited to Basic Data, UoM, Tax, Characteristics, Descriptions only
- Mass Import Active Area with Errors in Staging Area - Supported as Single Change Request per Article limited to Basic Data Import, UoM, Tax, Characteristics and Descriptions only
- Mass Import Staging Area – Supported as Single Change Request per Article limited to Basic Data Import, UoM, Tax, Characteristics, Descriptions only
- DIF/DRF for Additionals
- DIF/DRF for Substitution
- DIF/DRF for Vendor Characteristics
- DIF/DRF for BOMMAT
- DIF/DRF for Article Hierarchy
- DIF/DRF for PIR including PO text, Info Record texts
- DIF/DRF for ARTMAS
- Supports Article Hierarchy (Object Type) For Message Type /UGI4/ARTHIER_ASST
- Supports BOMMAT (Object Type) For Message Type BOMMAT
- External Numbering Support

Purchase Info Import

Supports INFREC IDoc xmls for Purchasing Data (limited number of fields)

- Mass Import Active Area: Article should exist in active area limited to General Data (E1EINAM), Purchasing Organization Data (E1EINEM)
- Mass Import Active Area with Errors in Staging Area – Article must exist in Active Area, limited to General Data (E1EINAM), Purchasing Organization Data (E1EINEM)
- Mass Import Staging Area – Article must already exist in active area limited to General Data (E1EINAM), Purchasing Organization Data (E1EINEM), Data Replication Framework

Mass Change

Mass Change for the Article is only applicable to the changes for the Basic Data entity attributes

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File Upload and Data Import Framework

Article Master: While uploading a file, or performing Data Import with Article Master, the applicable fields for each Article Master Category only may be entered in the input file. You cannot dynamically restrict in the Framework, so the applicable field values should be provided based on the Article Master Category in the input files that are being loaded.

Based on the Article Master Category, if any field is entered which does not belong to that Category, it displays an error.

File Upload - All

- File Upload does not validate duplicate entries of the entities as standard framework does not support the same. A runtime error occurs under this circumstance.
- While uploading a file, or performing Data Import, only the applicable fields for each unique Object Type/Category may be entered in the input file. You cannot dynamically restrict the fields in the Framework, so the applicable field values should be provided based on the Object Type/Category in the input files that are being loaded.
    - Examples – Article Category, BOM Item Category.

Reference Handling

MDG-A reference handling logic is similar to the backend retail reference logic as much as possible, but there could be places where it does not match with the retail reference handling logic one to one or parts of the reference handling logic are not implemented in MDG-A.

Reference Handling are valid for following views:

- Basic Data (Except for GTIN values and GTIN categories)
- Purchase Info Record
- Listing
- Logistics DC
- Logistics Store
- Sales
- PoS

More details are available in document MDG Solution for Article Master – Reference Handling.docx. This is attached in the Reference Handling section in the Appendix of this document

Variant-Creation Data Storage within Configuration (IBASE)

The Variant-Creation Data Storage within Configuration (IBASE) feature supports the new IBASE Classification (New Classification) for the Generic Article. What has changed is the way the Variant-Creation Data storage within the Configuration (IBASE).

Now in IBASE, for the Generic Article Variant Creation Characteristics are derived from variant creation classes (as defined in Class Config) instead of getting from the Merchandise Category / Characteristics Profile (old classification).

Distribution Curve for Prepack Articles for Variants

Distribution Curve is maintained in the t-code FSH_DC_MAINTAIN.

The Component quantities for the Prepack Article for the Generic Article Variants can be distributed based on the Distribution Curve ratio which is maintained at the individual Characteristics level or at the Variant configuration class level.

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The Distribution Curves applicable for the given Generic Article will be displayed in a hierarchy and user can select or deselect the curve with checkboxes at different levels as mentioned above. Based on the selection, the Specified Total quantity will be distributed applying the ratio maintained against each Characteristic in the Distribution Curve configuration.

Lean New Classification: Classification System/Class Type and Characteristics

The data model is enhanced to assign new Classification via type 4 entities. In S/4HANA, user can add multiple Class Types, Classes and Characteristics data to the Article.
Default Characteristics Referencing from transaction CT04 for Characteristics is enabled.
The Characteristics for given Class Type is allowed by validating Characteristics via transaction CT04 configuration (referencing default characteristics, mandatory, single, multiple characteristics).

Global Data Protection Rules

Data protection is associated with numerous legal requirements and privacy concerns. In addition to compliance with general data protection acts, it is necessary to consider compliance with industry-specific legislation in different countries. Utopia Global Inc software products leverage the standard SAP framework and the underlying standard features for data protections applies to our products.

NOTE: Please be advised that it is not possible to include change request attachments within the scope of data protection and privacy. It is the responsibility of the end user to ensure that there is no personal or privacy relevant information contained in any attachment.

Please refer to the link below for documentation that describes the specific features and functions that SAP and Utopia provide to support compliance with the relevant legal requirements and data protection.

Utopia RFM Product Support Portal

Retail Mass Processing by Utopia

Retail Mass Processing (RMP) by Utopia provides an easy-to-use interactive governance platform to Create, Change and Listing of Article Master data efficiently.

It can be used to request, approve, and execute changes to multiple Articles in a specific Change Request (CR).

The management of master data usually follows the pattern as listed:

- You can influence the flow of this process by selecting a workflow
- You create a Change Request
- The Change Request undergoes an approval procedure. You can use the function processing of a Change Request
- You replicate the changes (see Data Replication)
- Context Based Adaptation (CBA)

Prerequisites for RMP

Assign the RMP application standard roles to the users, depending on their roles and responsibilities within the company.

- /UGIRMP/RFM_MASS_MENU - Retail Mass Processing by Utopia

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RMP Solution Overview

Mass solution supports the following schema types:

- Mass Create of Articles
- Mass Change of Articles
- Mass Listing for Articles
- Mass create of Procurement Articles

Mass Create of Articles

The Mass Create schema allows creating multiple Articles of different types in one session under a single Change Request. This supports all types of Article creation.

There are two methods to do Mass Create of Articles:

- Using Excel Upload
  - Download the Excel template with selected tables using “Export to Excel”
  - Maintain table data in each tab
  - Upload Article data using “Import from Excel”
  - Check, Submit, Approve and Activate the Change Request
- Using UI
  - Maintain table data directly in the UI using F4 help option wherever applicable and using the context menu by right-clicking on the fields.
  - Check, Submit, Approve and Activate the Change Request

The following steps are required to create Article via file upload in RMP:

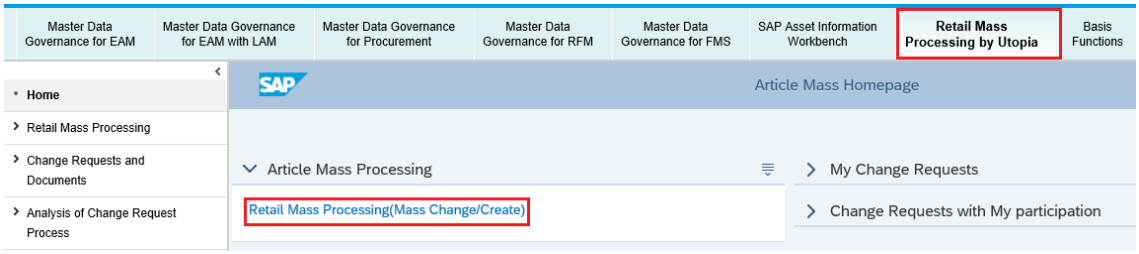
- Launch RMP
- Load Data
- Check Data
- Submit Approve and Activate

Refer Appendix A: List of Tables in Mass Create Schema for the tables supported for Mass Create.

Launch RMP

Use the following steps to launch RMP:

1. Launch the RMP application by using transaction code NWBC in the ECC system. Click on Retail Mass Processing as displayed below.



2. Select Create Mass Change Request.
3. The Change Request screen is displayed.
4. Enter Description and click on Schema ID dropdown and select the “Mass Create of Articles” option from the dropdown list.

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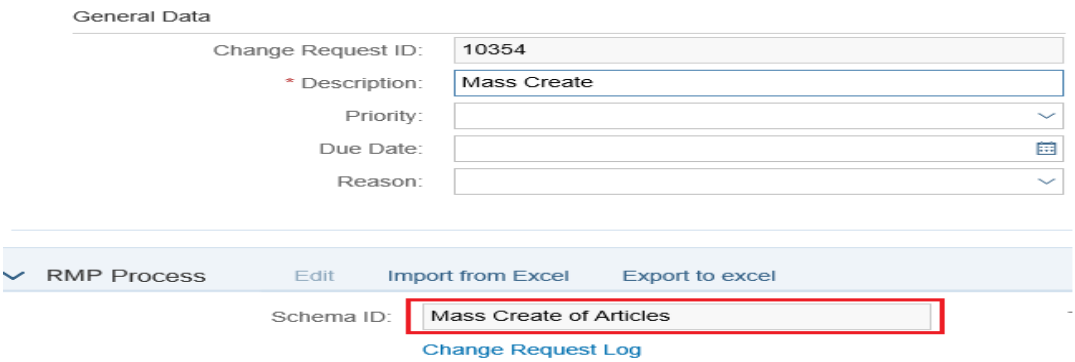


Load Data

You can enter the data manually in the UI or can load from Excel.

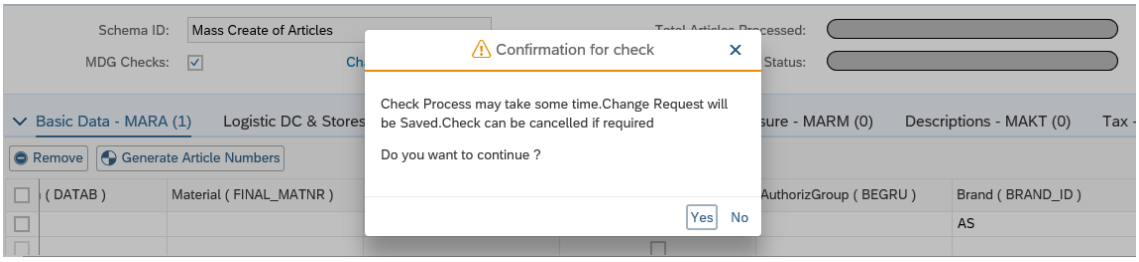
Refer Import to Excel for data upload.

Check Data

Check Data process is to validate the UI data.

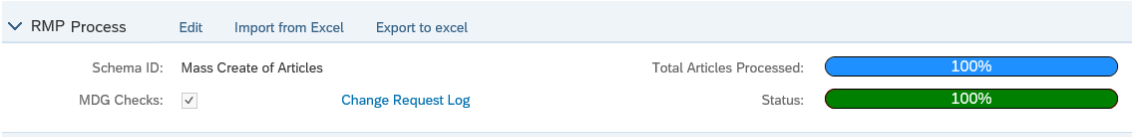
Use the following steps to check data:

1. Click on the “Check” button, the “Confirmation for check” pop-up screen is displayed.



2. Click on “Yes” and continue.

   In case of any errors, rectify the errors and check again. Total Articles processed should be 100% and the status should be in green in color with 100%.



Note

Refer to the status color code. Status Color Code (Red or Green) is displayed for the Change Request.

- Green: Data successfully processed.
- Red: Process failed, and the errors are available with the Change Request Log.

Refer Troubleshooting for error handling.

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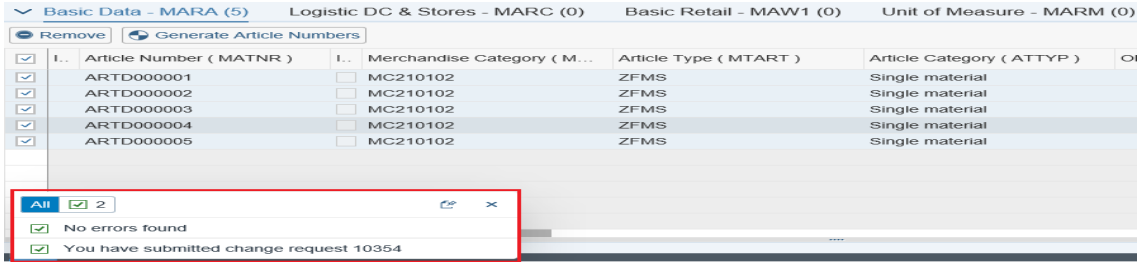
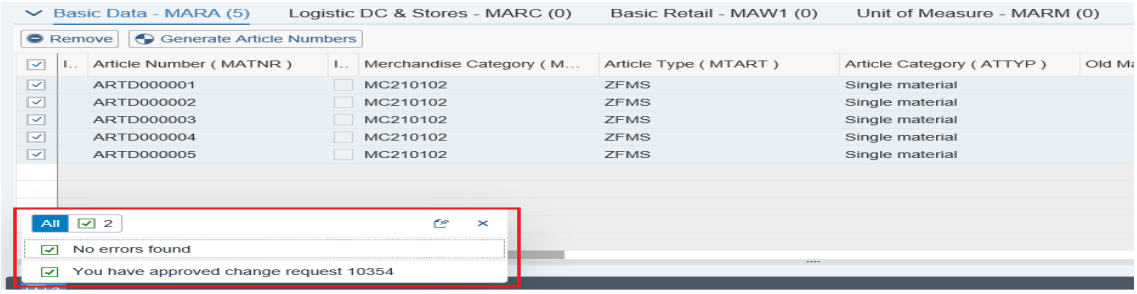
Submit Approve and Activate

Use the following steps to submit approve and activate:

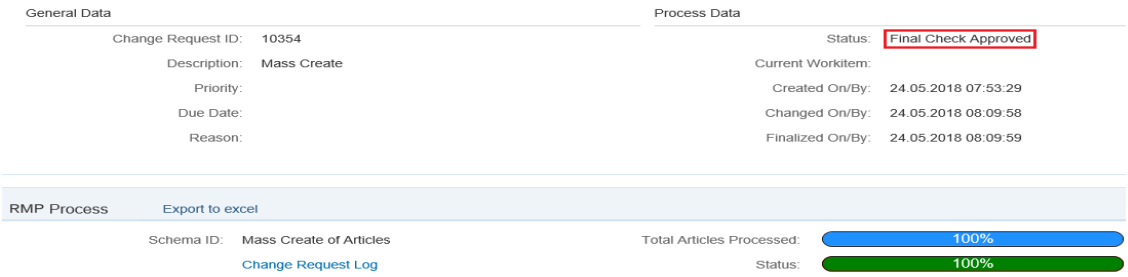
1. Submit your Change Request by clicking the “Submit” button.
2. Check the success messages as displayed in the following screen.



3. Approve the Change Request and check for success messages.



4. Click on “Activate” button.
5. Check the status changed to “Final Check Approved” and note down the Article number for future reference.



Mass Create of Prepack Articles

Following are the three different ways to populate BOM components in Mass create of Prepack Articles.

- Enter Variant Article as Components
- Generate Components via Generic Article
- Generate components via Generic Article with a Distribution Curve

Enter Variant Article as Components

Use the following steps to create prepack articles with variant articles as BOM components.

1. Launch RMP: Refer to Launch RMP.

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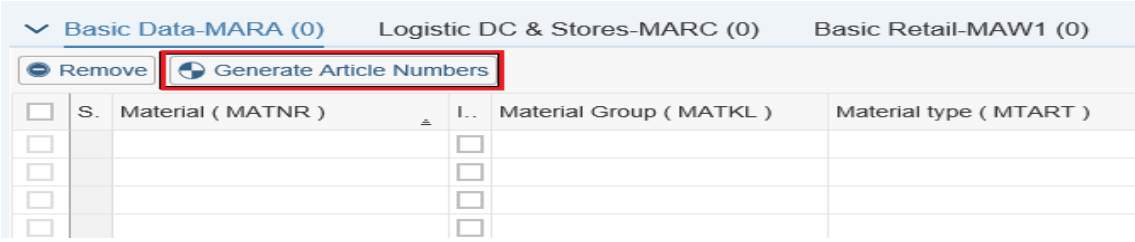
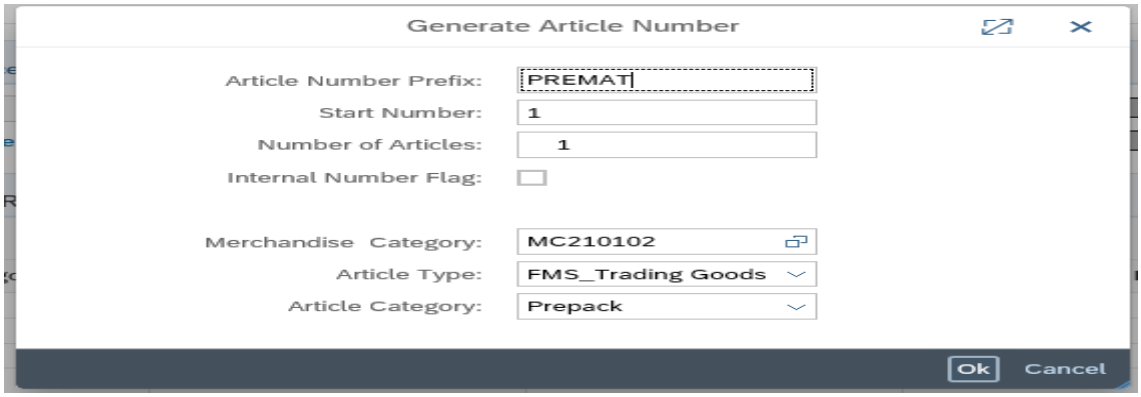
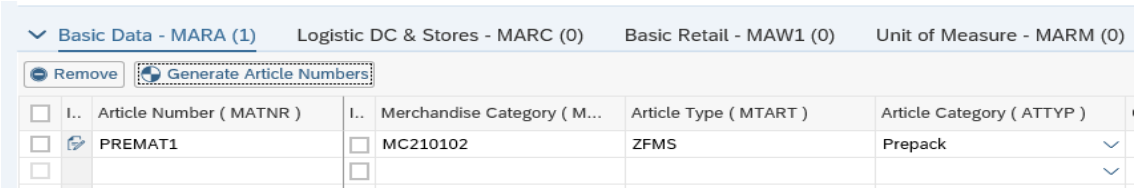
2. Navigate to MARA tab and click “Generate Article Numbers” as displayed in the following screen.



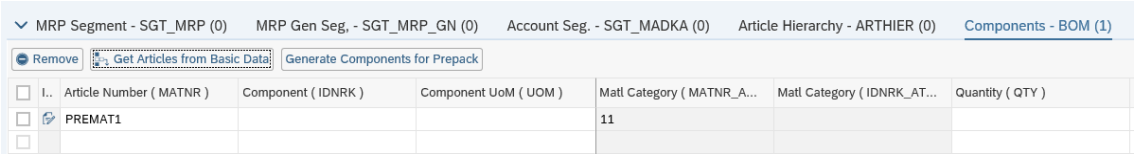
3. For Prepack Article, enter the Article Number Prefix, Start Number, Number of Articles, Merchandise Category, Article type and Article Category as displayed in the following screen.



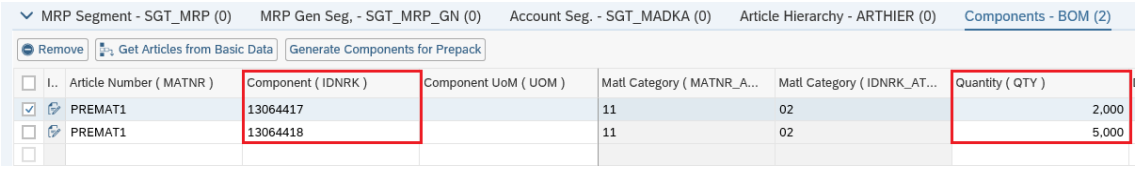
4. Verify the Article generated in MARA tab with the basic data.



5. Navigate to BOM tab. Click “Get Articles from Basic Data” and verify the populated Article.



6. Enter variant articles as components (Field-IDNRK) and provide the quantity(Field-QTY) as displayed in the following screen.



7. Click “Check” to validate the Article data.

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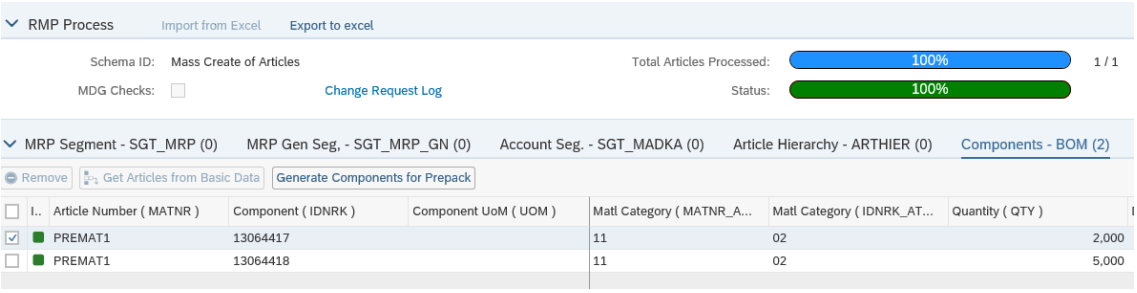
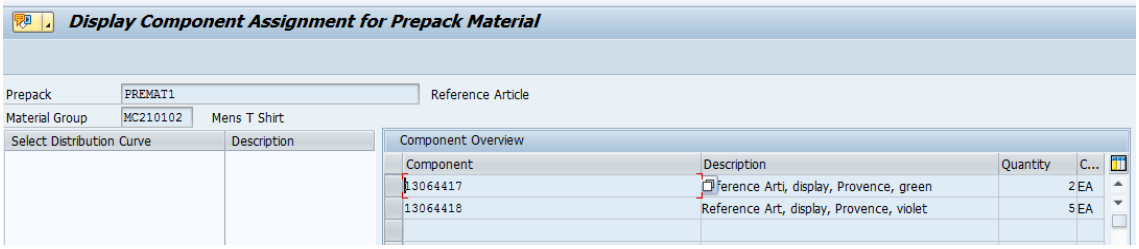


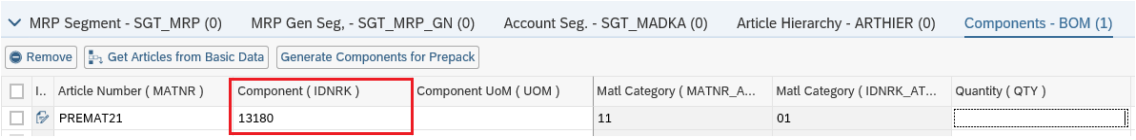
8. Submit, Approve and Activate: Refer Submit Approve and Activate.
9. Run t-code MM43 and validate whether the Variant Articles are added as components, as displayed in the following screen.



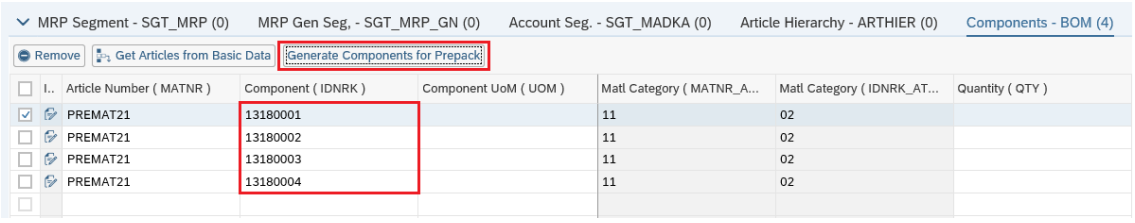
Generate Components via Generic Article

Use the following steps to create prepack articles with generate components via Generic Article.

1. Launch RMP: Refer to Launch RMP.
2. Navigate to MARA tab and Generate the Article Numbers. Refer Step2.
3. For Prepack Article, enter the Article Number Prefix, Start Number, Number of Articles, Merchandise Category, Article type and Article Category as displayed in the following screen. Refer Step3.
4. Verify the Article generated in MARA tab with the basic data. Refer Step4.
5. Navigate to BOM tab. Click “Get Articles from Basic Data” and verify the populated Article. Refer Step5.
6. Enter Generic article as components in the field ‘IDNRK’, as displayed in the following screen.



7. Click “Generate Components for Prepack” and verify that the Generic Article Number is replaced with the corresponding variant articles in the ‘IDNRK’ field.



8. Enter the quantity as displayed in the following screen.

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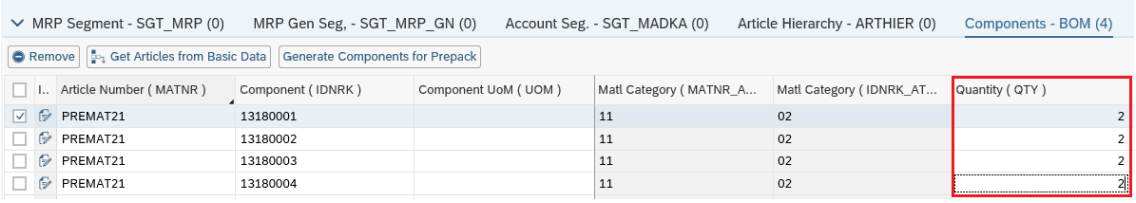
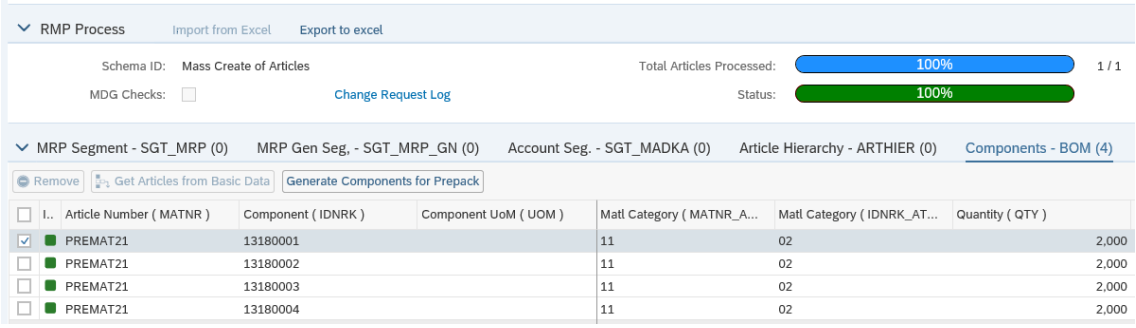
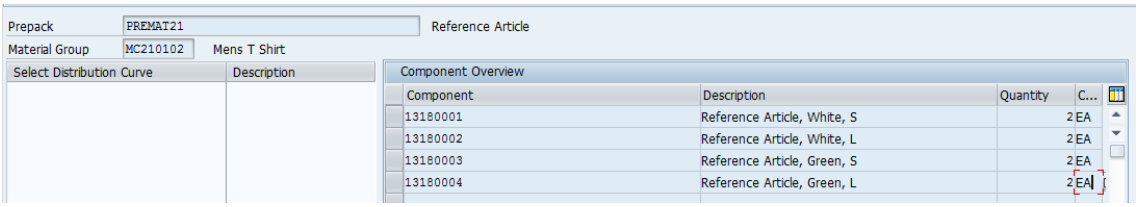


9. Click on the “Check” button to validate the Article data.



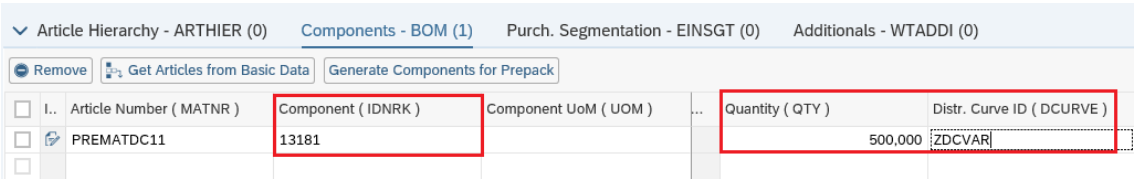
10. Submit, Approve and Activate: Refer Submit Approve and Activate.
11. Run t-code MM43 and validate whether the Variant Articles are added as components as displayed in the following screen.



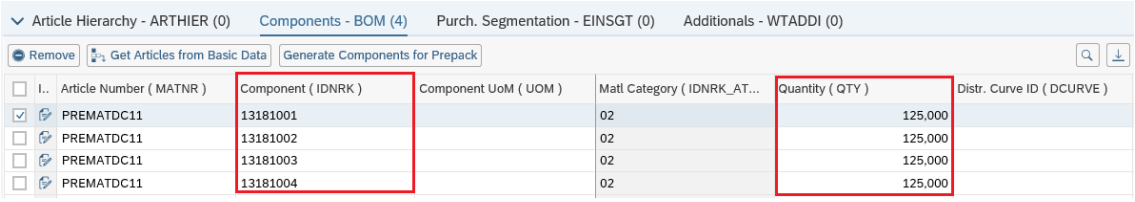
Generate Components via Generic Article with a Distribution Curve

Use the following steps to create prepack articles with generate components via generic Article with a distribution curve.

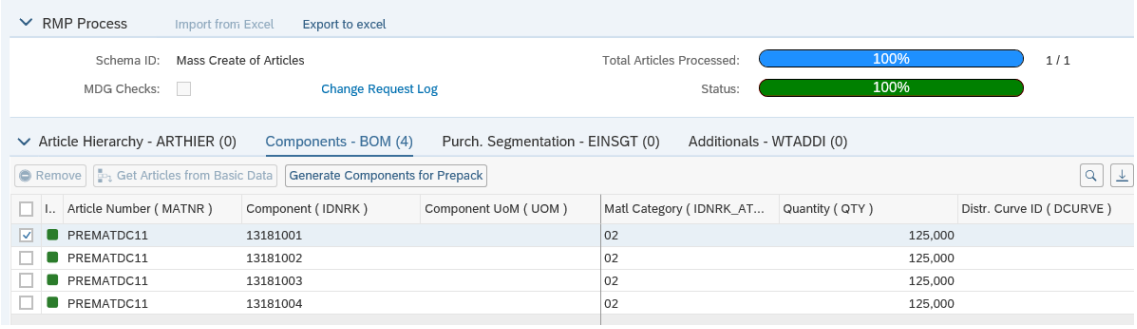
1. Launch RMP: Refer to Launch RMP.
2. Navigate to MARA tab and Generate the Article Numbers. Refer Step2.
3. For Prepack Article, enter the Article Number Prefix, Start Number, Number of Articles, Merchandise Category, Article type and Article Category as displayed in the following screen. Refer Step3.
4. Verify the Article generated in MARA tab with the basic data. Refer Step4.
5. Navigate to BOM tab. Click on “Get Articles from Basic Data” and verify the populated Article. Refer Step5.
6. Enter Generic article as component (Field – IDNRK), Quantity (Field – QTY) and Distribution Curve(Field – DCURVE) as displayed in the following screen.



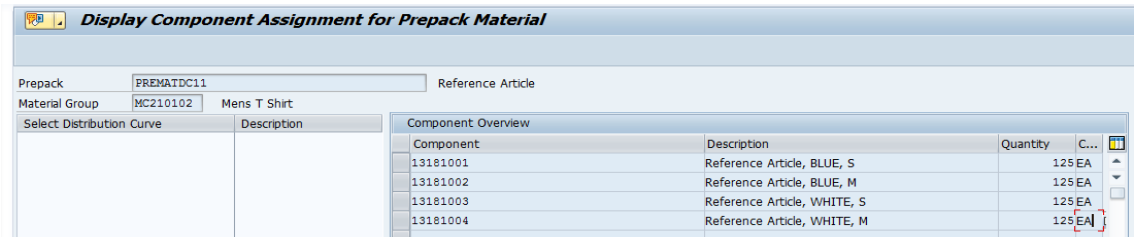
7. Click on “Generate Components for Prepack”. Verify that the Generic Article Number is replaced with the corresponding variant articles in the ‘IDNRK’ field and the total quantity is distributed amongst the different variants.



8. Click “Check” to validate the Article data.



9. Submit Approve and Activate: Refer [Submit Approve and Activate].
10. Run t-code MM43 and validate whether the Variant Articles are added as components with the distributed quantity as displayed in the following screen.



Mass Change of Articles

The Mass Change schema allows changing multiple Article records of different types in one session under a single Change Request.

There are two methods to do Mass Change of Articles:

- Using Excel Upload
  - Select the Articles to be changed by using “Add Articles for Mass Change”
  - Download the Article data/template with selected tables using “Export to Excel”
  - Maintain table data in each tab
  - Upload Article data using “Import from Excel”
  - Check, Submit, Approve and Activate the Change Request
- Using UI
  - Select the Articles to process by using “Add Articles for Mass Change”
  - Modify table data directly in the UI using F4 help option wherever applicable and using the context menu by right-clicking on the fields
  - Check, Submit, Approve and Activate the Change Request

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The following steps are required to change Article via file upload in RMP:

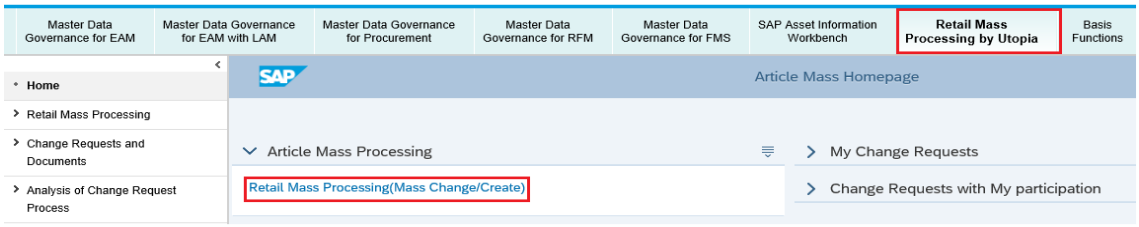
- Launch RMP
- Add Articles for Mass Change
- Load Data
- Check Data
- Submit Approve and Activate

Refer Appendix A: List of Tables in Mass Change Schema for the tables supported for Mass Change.

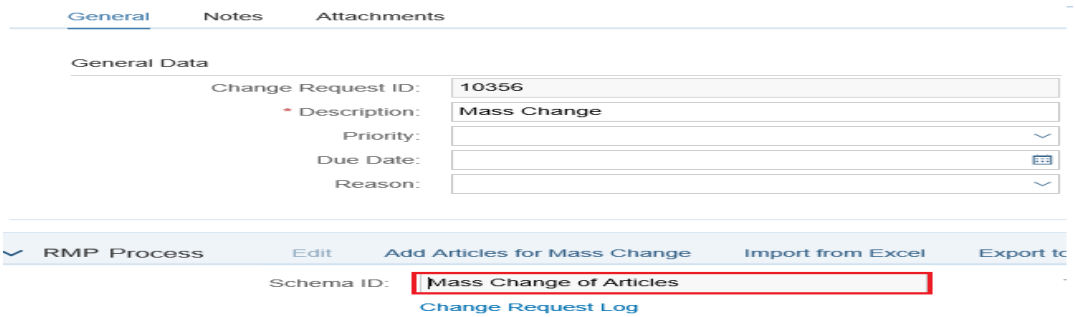
Launch RMP

Use the following steps to launch RMP:

1. Launch the RMP application by using transaction code NWBC in the ECC system. Click on Retail Mass Processing as displayed below.



2. Enter Description and select the “Mass Change of Articles” option from the Schema ID dropdown list.



Add Articles for Mass Change

In Mass Change, you can search and select the Articles to process by using “Add Articles for Mass Change” option.

Use the following steps to add Articles for Mass Change.

1. Click on the “Add Articles for Mass Change” button as shown in the following screen.

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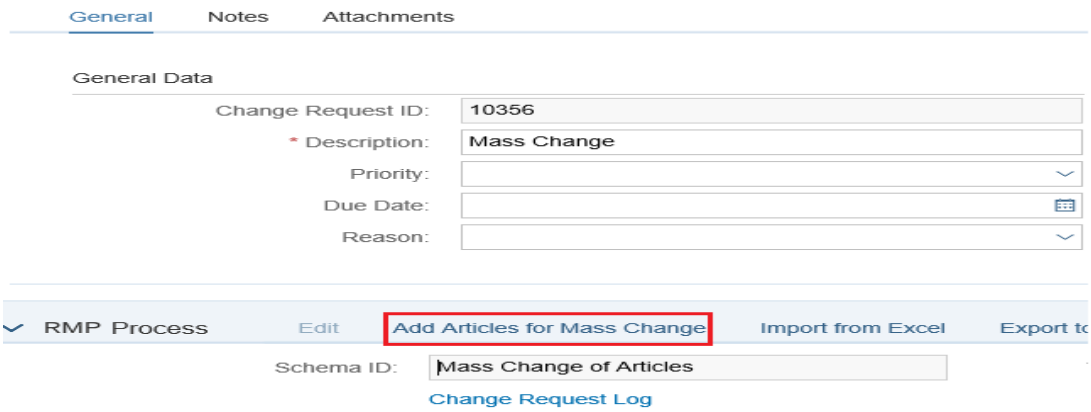
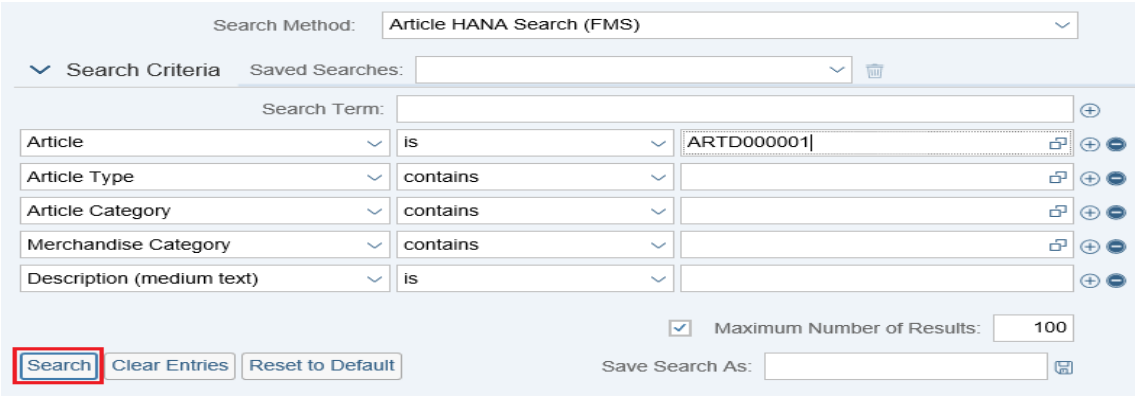
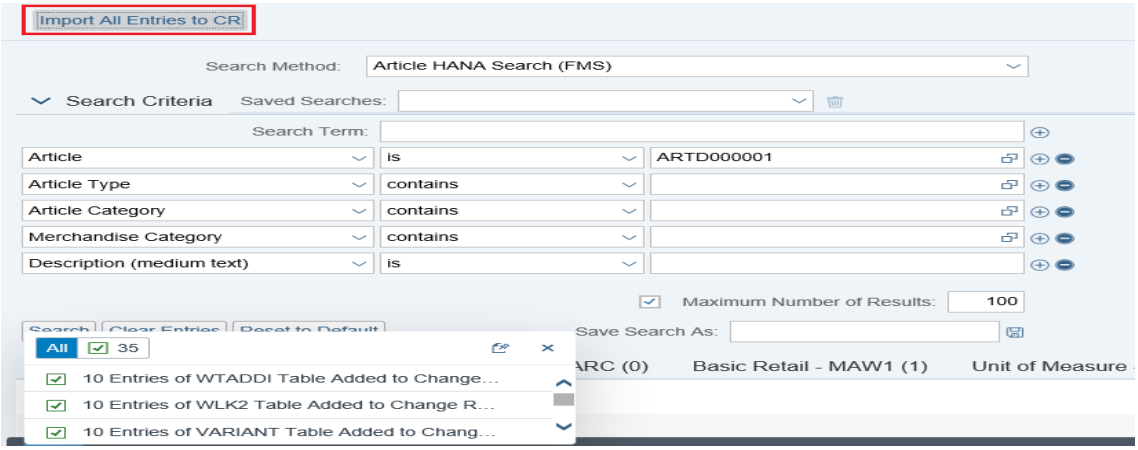


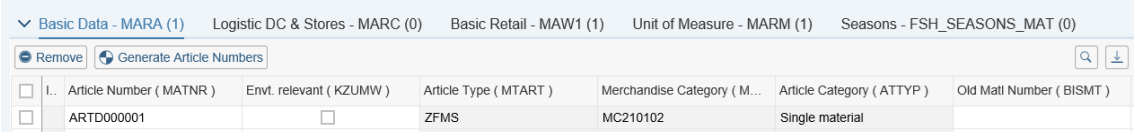
2. Enter Article number and click “Search”.



3. Click on “Import All Entries to CR” and Done.



4. Mass Change Schema screen is displayed with imported records.



5. Click on the Export to Excel button and save the file or you can modify the records in UI.
6. Make the changes in the file. Change the old material number for the Article in the MARA tab and Save.

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	A	B	C	D	E	F	G
1	MATNR	KZUMW	MTART	MATKL	ATTYP	BISMT	BWSCL
2	Material	Envt. relevant	Material type	Material Group	Matl Category	Old Matl Numbe	Supply source
3	ARTD000001		ZFMS	MC210102	00		
4							

7. Enter the Old Material Number as displayed in the following screen.

	A	B	C	D	E	F
1	MATNR	KZUMW	MTART	MATKL	ATTYP	BISMT
2	Material	Envt. relevant	Material type	Material Group	Matl Category	Old Matl Numbe
3	ARTD000001		ZFMS	MC210102	00	ABCD123

Load Datasheet

Click on Import from Excel button to upload the file with changed Article data.

Check Data

Click on the “Check” button to validate the Article data.

RMP Process | Edit | Add Articles for Mass Change | Import from Excel | Export to excel

Schema ID: Mass Change of Articles | Total Articles Processed: 100% | 1 / 1

Change Request Log | Status: 100%

Basic Data - MARA (1) | Logistic DC & Stores - MARC (0) | Basic Retail - MAW1 (1) | Unit of Measure - MARM (1) | Seasons - FSH_SEASONS_MAT (0

Remove | Generate Article Numbers

I..	Article Number (MATNR)	Envt. relevant (KZUMW)	Article Type (MTART)	Merchandise Category (M...	Article Category (ATTYP)	Old Matl Number (B
	ARTD000001		ZFMS	MC210102	Single material	ABCD123

Submit Approve and Activate

Refer Submit Approve and Activate.

Mass Listing for Articles

The Mass Listing for Articles schema allows listing multiple Articles across multiple assortments/sites in a single Change Request.

There are two methods to do Mass Listing:

- Using Excel Upload
  - Select the Articles to process by using “Add Articles for Mass Change”
  - Download the Article data/template with selected tables using “Export to Excel”
  - Upload Article data using “Import from Excel”
  - Select the Article and click on the Generate Assortments button to get the Assortments listed
  - Check, Submit, Approve and Activate the Change Request
- Using UI
  - Select the Articles to process by using “Add Articles for Mass Change”
  - Select the Article and click on the Generate Assortments button to get the Assortments listed
  - Check, Submit, Approve and Activate the Change Request

The table available in this schema is “Listing”.

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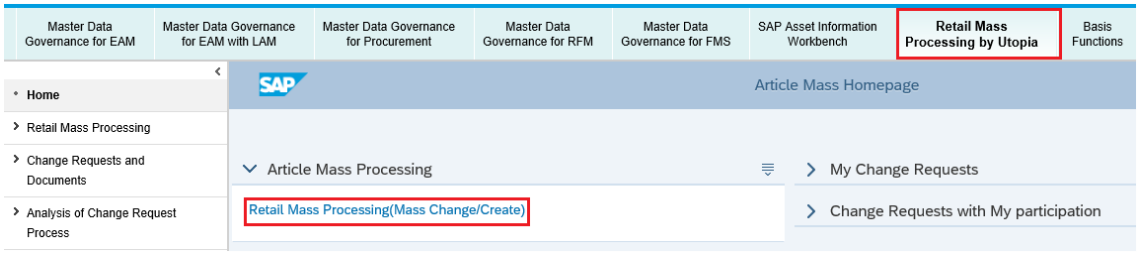
The following are the steps required for Mass Listing of Articles.

- Launch RMP
- Add Articles for Mass Listing for Articles
- Check Data
- Submit Approve and Activate

Launch RMP

Use the following steps to launch RMP:

1. Launch the RMP application by using transaction code NWBC in the ECC system. Click on Retail Mass Processing as displayed below.



2. The Change Request screen is displayed.

   Enter Description and select the “Mass Listing for Articles” option from the Schema ID dropdown list.

Add Articles for Mass Listing

Use the following steps to Add Article for Mass Listing.

1. Follow the Add Articles for Mass Change steps to retrieve the Articles for Mass Listing.

   Alternatively, you can retrieve the Articles using “Import from Excel” option or by entering the Article Number directly as displayed in the following screen.

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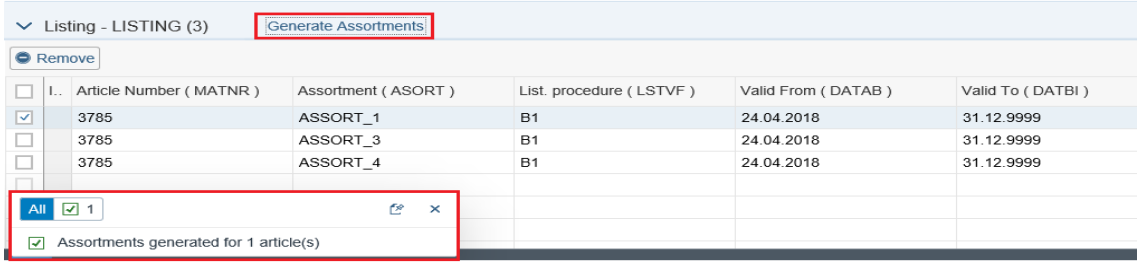
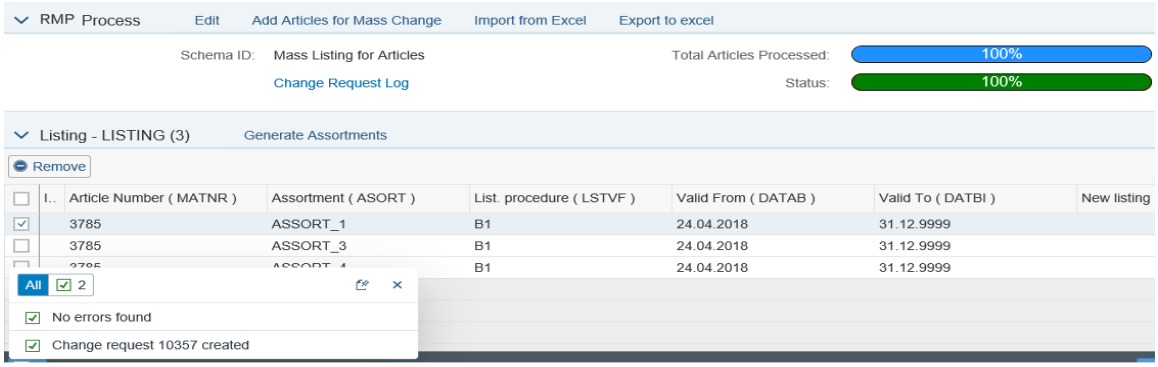
2. Select the Article and click on “Generate Assortments” button.
3. Verify the Assortments generated as in the following screen.



Check Data

Click on the “Check” button to validate the assortment data.



Submit Approve and Activate

Refer Submit Approve and Activate.

Mass create of Procurement Articles

The Mass create of Procurement Articles schema allows to create multiple procurement articles. Procurement article can create for only single articles.

Steps to create mass procurement articles:

There are two methods to create mass procurement articles:

- Using Excel Upload
  - Select the Articles to process by using “Add Articles for Mass Change”
  - Download the Article data/template with selected tables using “Export to Excel”
  - Change the procurement data in excel file
  - Upload Article data using “Import from Excel”
  - Check, Submit, Approve and Activate the Change Request
- Using UI
  - Select the Articles to process by using “Add Articles for Mass Change”
  - Change the procurement data
  - Check, Submit, Approve and Activate the Change Request

The following are the steps required for Mass Listing of Articles.

- Launch RMP

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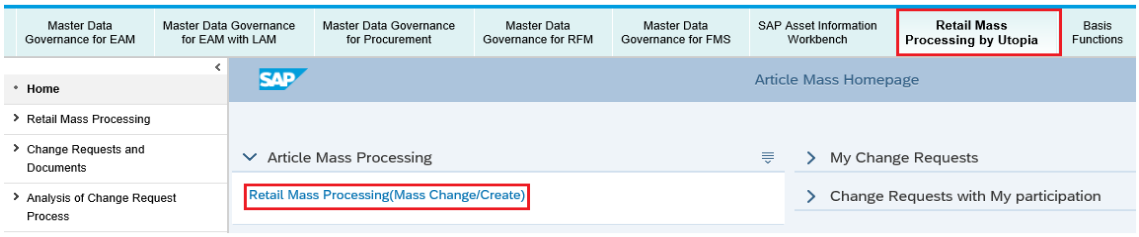
- Add Articles for Mass creation of Procurement Articles
- Check Data
- Submit Approve and Activate

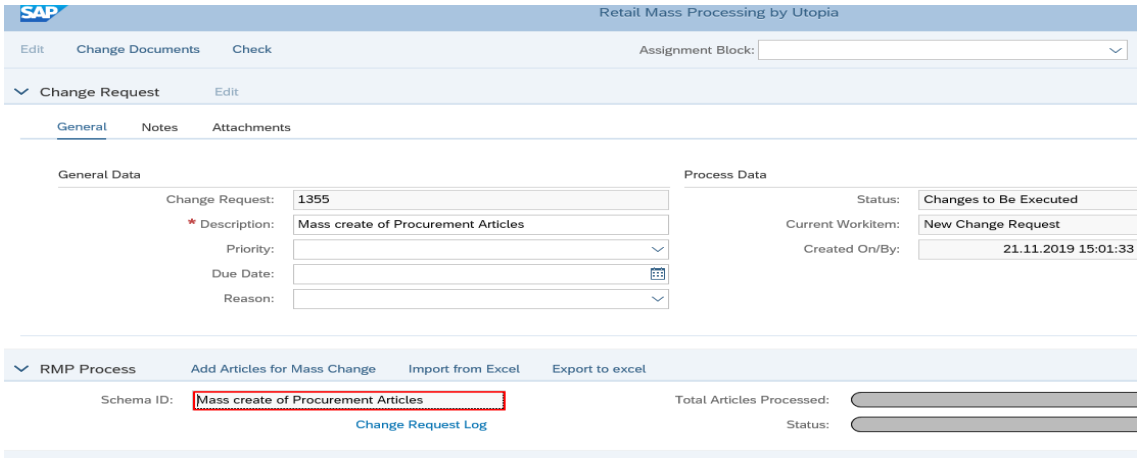
Launch RMP

Use the following steps to launch RMP:

1. Launch the RMP application by using transaction code NWBC in the ECC system. Click on Retail Mass Processing as displayed below.



2. The Change Request screen is displayed.
3. Enter Description and select the “Mass create of Procurement Articles” option from the Schema ID dropdown list.



Add Articles for Mass creation of Procurement Articles

Use the following steps to Add Article for Mass creation of Procurement Articles.

1. Follow the Add Articles for Mass Change steps to retrieve the Articles to create mass procurement articles.

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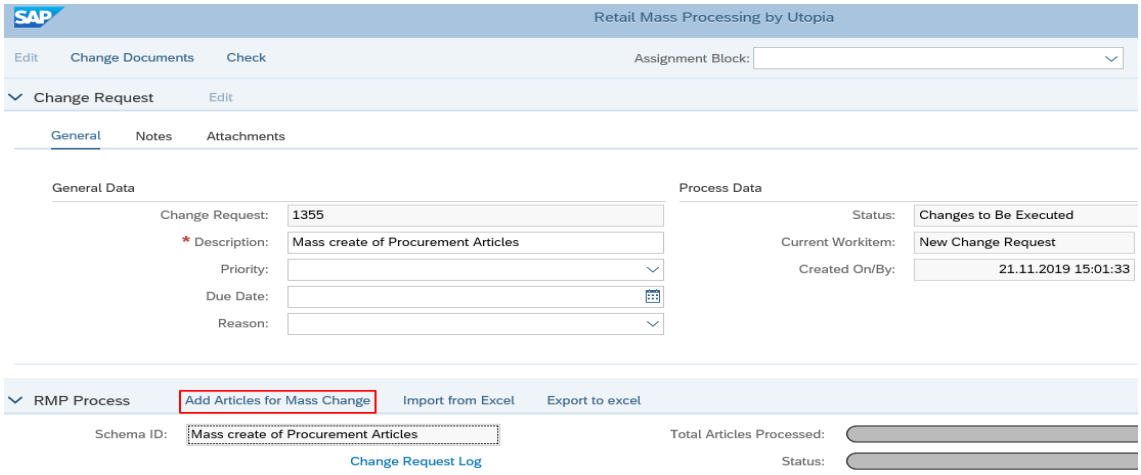
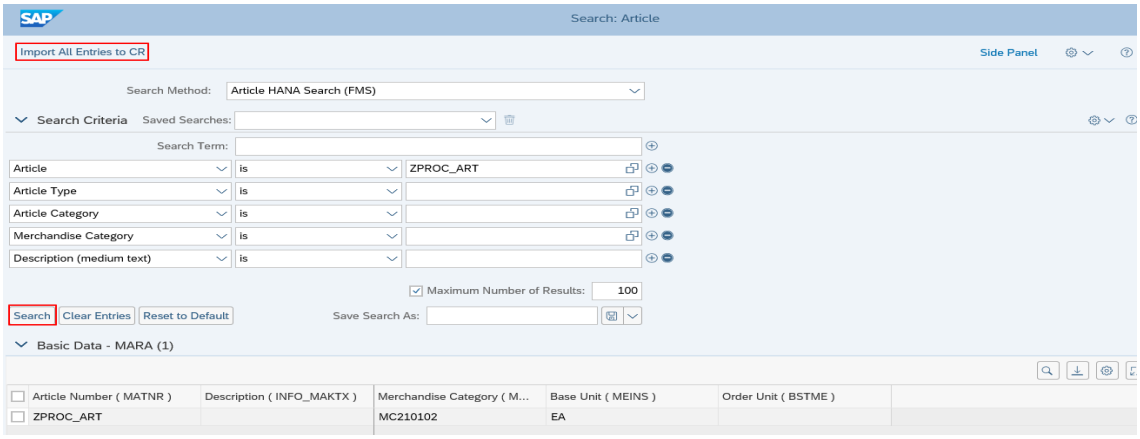
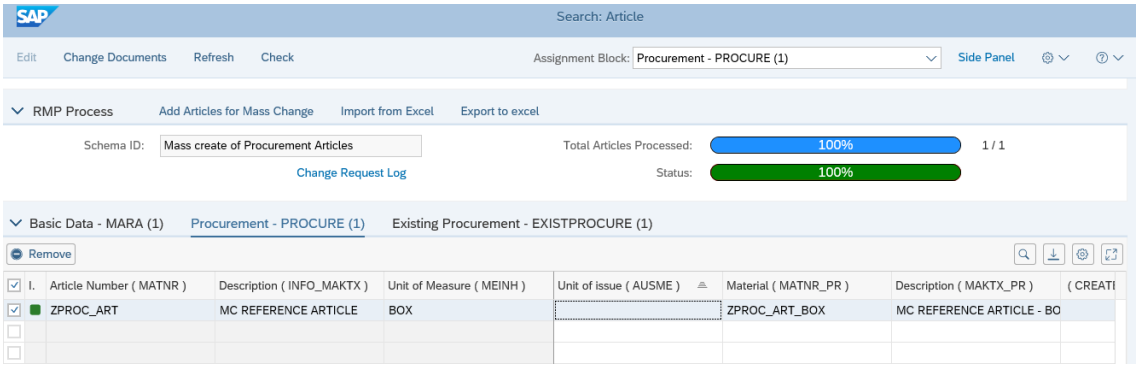


2. Enter search criteria and click on Search button and click on import all entries to CR button.



3. Procurement Details will display on the following screen.



4. Enter the values for following fields in Procurement (PROCURE) tab.
   a. Unit of Issue (AUSME)
   b. Material (MATNR_PR)

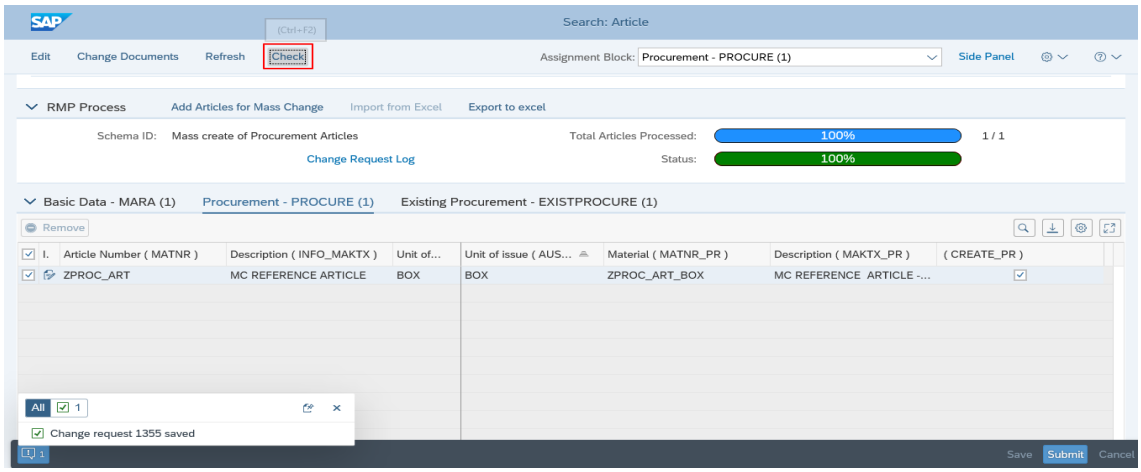
      For Internal number case, no need to provide any value for material field as material numbers will create after activation of change request.

      For External Case, we are providing by default as combination of article number (ZPROC_ART) and base unit of article (BAG) like ZPROC_ART_BAG. This is optional if you don't want to change anything then system will create same number and it will allow to change external number if you want to change.
   c. CREATION CHECK BOX(CREATE_PR)

By default, all procurement combinations will display. Based on check box (CREATE_PR) selection procurement articles will be created at activation.

Check Data

Click on the “Check” button to validate procurement data.



Submit Approve and Activate

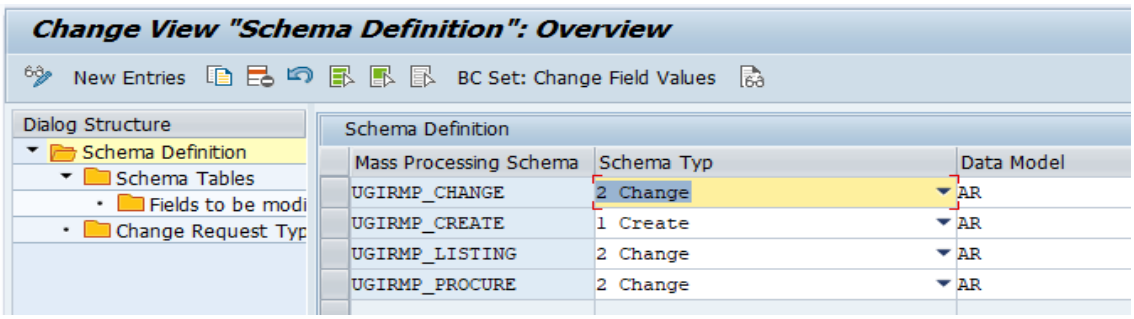
Refer Submit Approve and Activate.

MDG Check Functionality

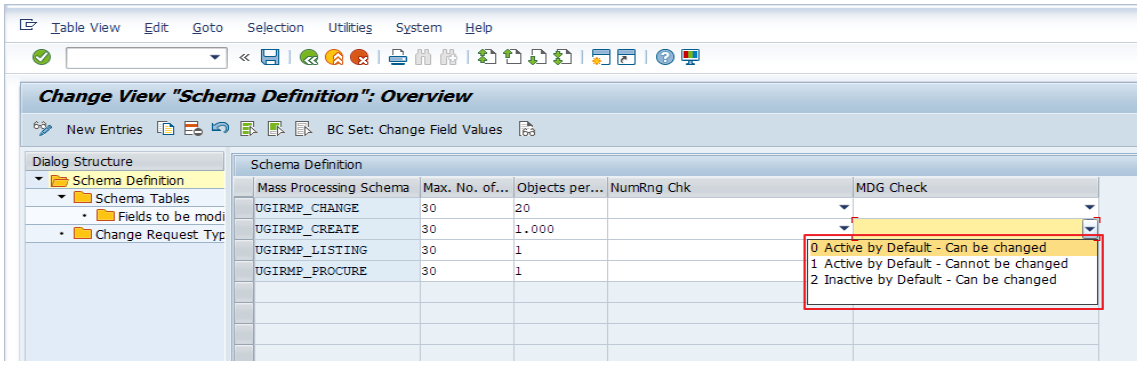
MDG Check functionality is to validate the UI data. This check includes validations based on BRF+ rules, customer-specific BAdi checks along with API checks.

This feature is configurable in the backend.

5. Run t-code MDGIMG.
6. Navigate to Retail Mass Processing by Utopia > Process Modeling > Schema Definition. RMP Schema Types are displayed as in the following screen.



7. Select the “Schema type” as UGIRMP_CREATE.
   MDG Check available options are displayed in the following screen.



- "0-Active by Default – Can be changed": MDG Check is done by default.
  This feature enables the user to check/uncheck the checkbox in the UI.

- "1-Active by Default – Cannot be changed": MDG Check is done by default.
  User is not allowed to uncheck the box. The checkbox is greyed out as displayed in the following screen.

- "2-Inactive by Default – Can be changed": MDG Check is unchecked by default.
  This feature enables the user to check/uncheck the checkbox in the UI.

- Blank – MDG Checkbox is hidden in the UI as displayed in the following screen.

RMP Features

The mass solution includes various features as in the following list.

- Export to Excel
- Import from Excel
- Delete DB Records
- Select Rows with Identical Value

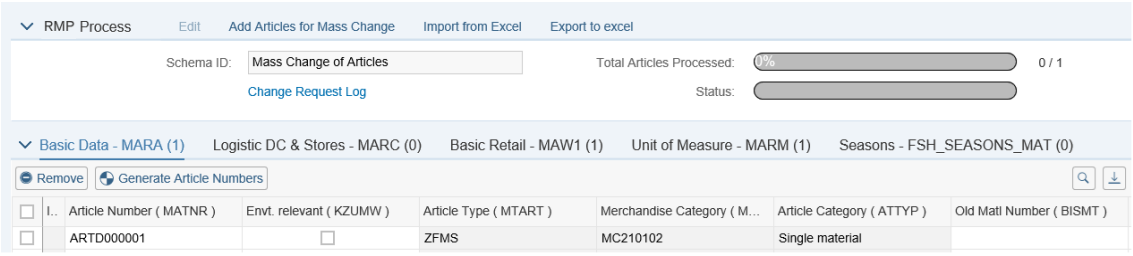
- Copy Value to Selected Rows
- Copy Row Template
- Copy Row
- Remove Row
- Change Request Check Process
- Cancel Check
- Auto Generate Features
- Error handling with Change Request Log

Export to Excel

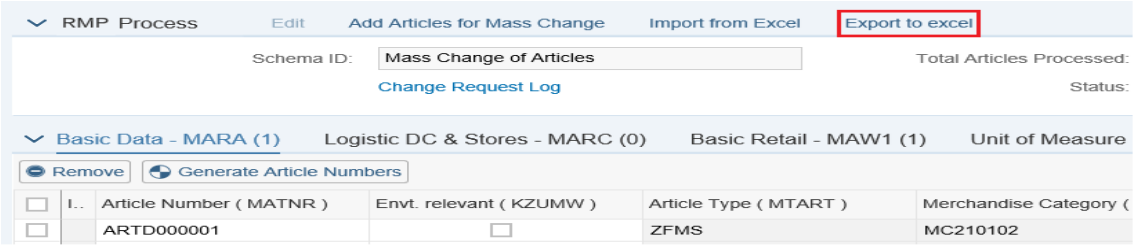
Export to Excel feature is to download the Template or UI Data with selected Table(s) at any point of time in the CR process.

Use the following steps to export Excel from UI. It is explained with Schema type- Mass Change of Articles as an example.

1. Launch RMP: Refer to Launch RMP.
2. Enter or get the List of Articles using the Article Search function as displayed in the following screen.



3. Click on the “Export to Excel” button.



List of tables in Mass Change schema is displayed in a dialog box with an option to select/deselect tables.

4. Click on the “OK to Export” button.

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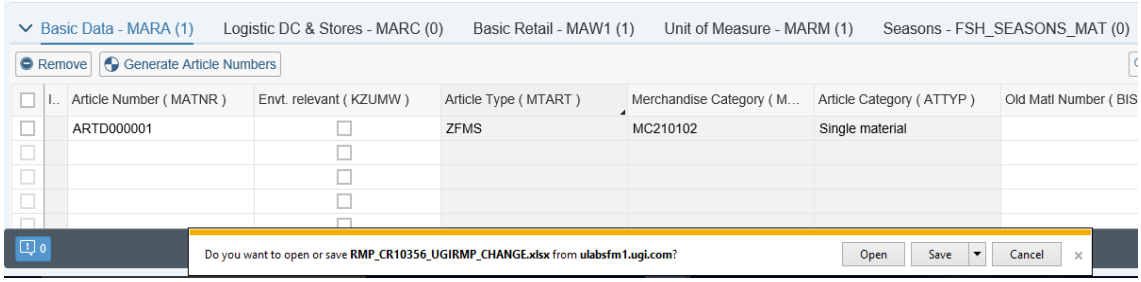
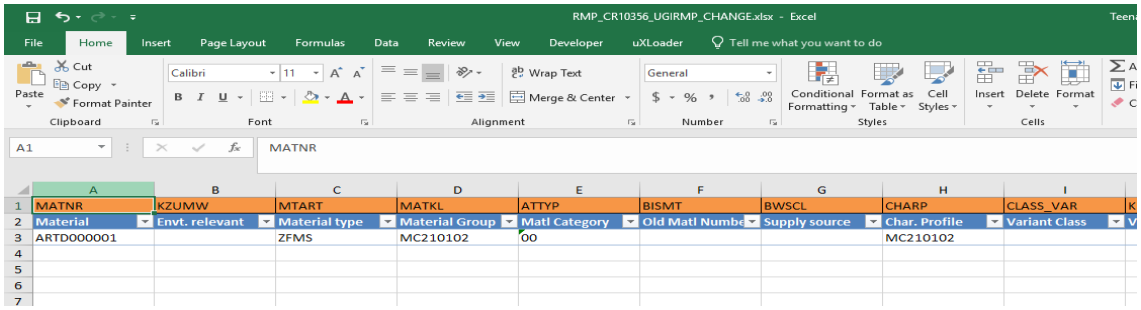
The Excel spreadsheet is generated as displayed in the following screen.





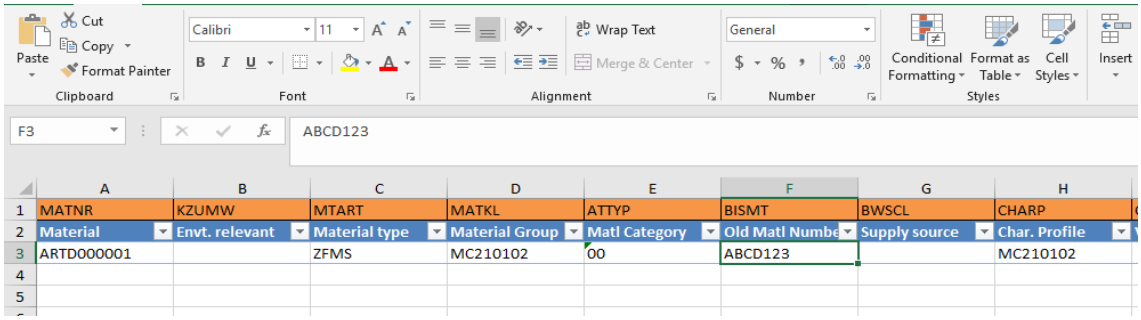
This Excel sheet can be modified and uploaded back to process further. Refer Import from Excel to upload the sheet.

Import from Excel

This feature is to Upload data from Excel Spreadsheet for multiple tables in a single file.

Use the following steps to import Excel to UI. It is explained with Schema type- Mass Change of Articles as an example.

1. Launch RMP: Refer Launch RMP.
2. Get the Excel template downloaded: Refer Export to Excel
3. Fill the template with Article data in the respective tabs as displayed in the following screen.



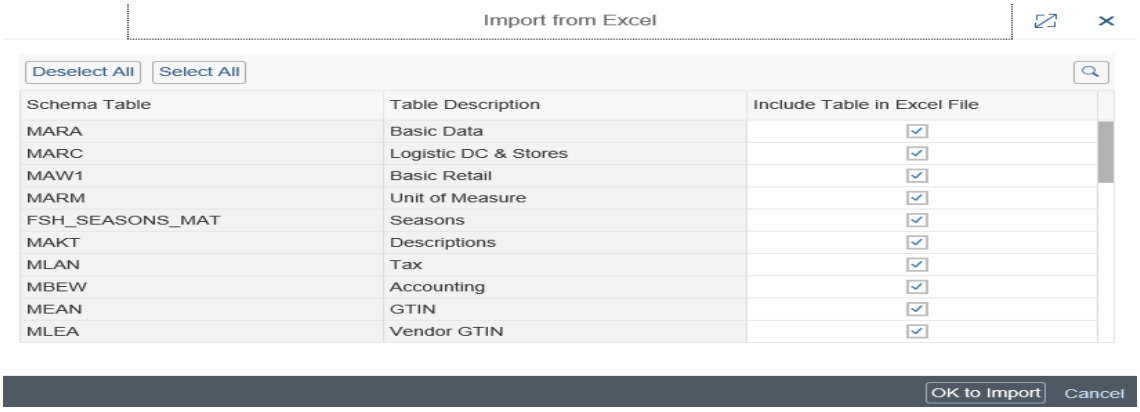
Note

The data file (Excel) should be ready with multiple records for MARA, MARC, MAW1, MARM, FSH_SEASONS_MAT, MAKT and MLAN entities, etc.,

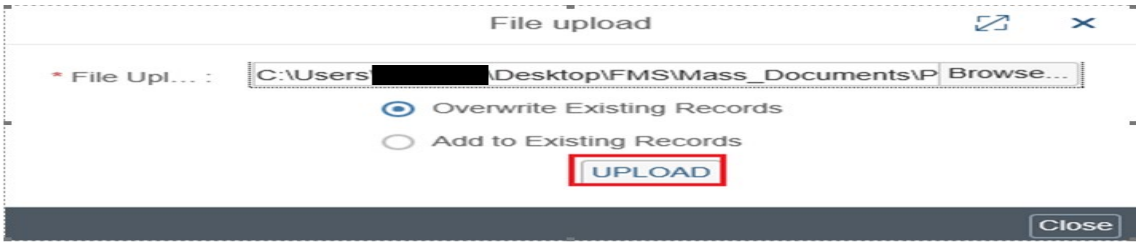
4. Click on the “Import from Excel” button as shown in the following screen.

List of tables in Mass Create Schema is displayed in a dialog box with an option to select the required tables.

5. Select the required tables.



6. Click “OK to Import”.
7. Click on “Browse” button and then select the data file (Excel) with Article records.
8. Click on “Upload” button and the data are uploaded to the different entities like MARA, MARC, MAW1, MARM, MAKT, FSH_SEASONS_MAT, and MLAN, etc. as displayed in the following screen.



Delete DB Records

Delete functionality has “Deletion Indicator” flag for selected tables in “Mass Change of Articles” schema. It allows deleting an existing record from the database table.

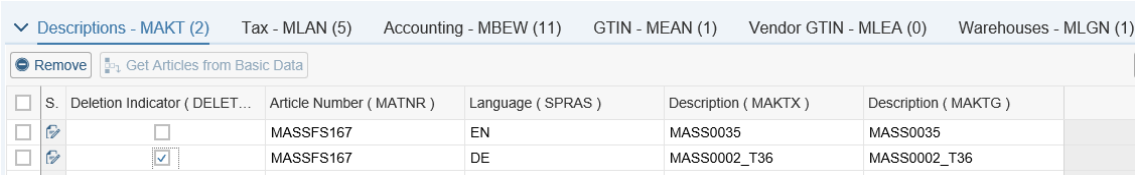
This is available in the change schema for the tables:

1. Descriptions (MAKT)
2. Components (BOM)
3. Layout Modules (MALG)
4. GTIN (MEAN)
5. Vendor GTIN (MLEA)
6. Seasons (FSH_SEASONS_MAT)
7. Substitution (SUBSTN)
8. Tax (MLAN)
9. Additional (WTADDI)

It is explained with the “MAKT” table as an example.

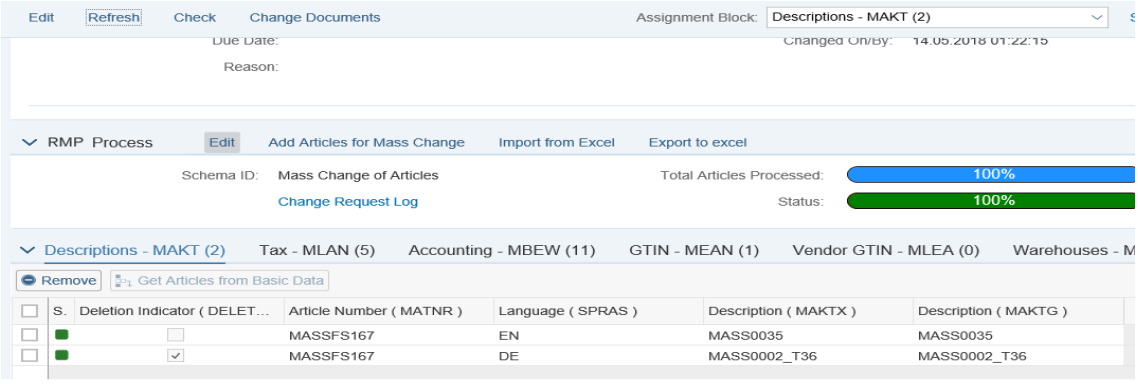
Use the following steps to Delete a row in MAKT table.

1. Launch RMP: Refer Launch RMP
2. Add Articles for Mass Change.
3. Navigate to MAKT tab and select the “Deletion Indicator” checkbox as displayed in the following screen.



Check Data

Click on the “Check” button to validate the Article data.



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Submit Approve and Activate

Refer Submit Approve and Activate.

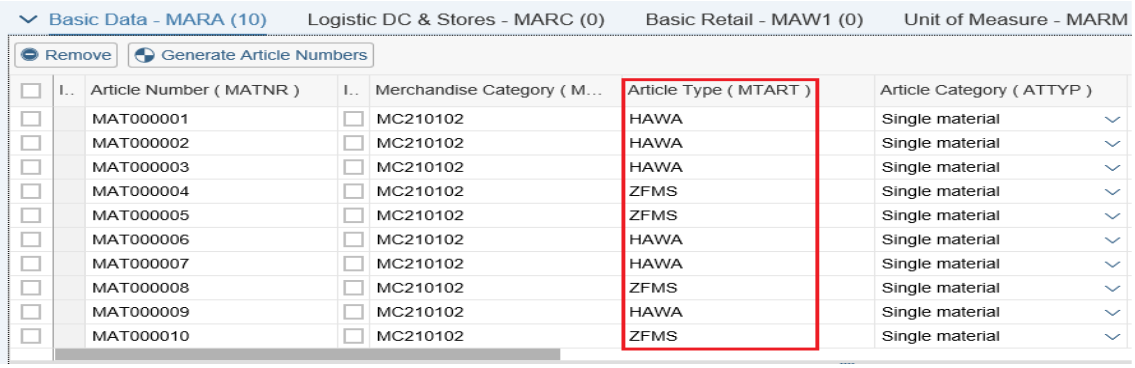
Select Rows with Identical Value

“Select Rows with Identical Value” feature is to select the rows with the same set of data. It is available for all the tables in the Create and Change schemas. It is used for mass maintenance for fields with similar values. This is available in the context menu.

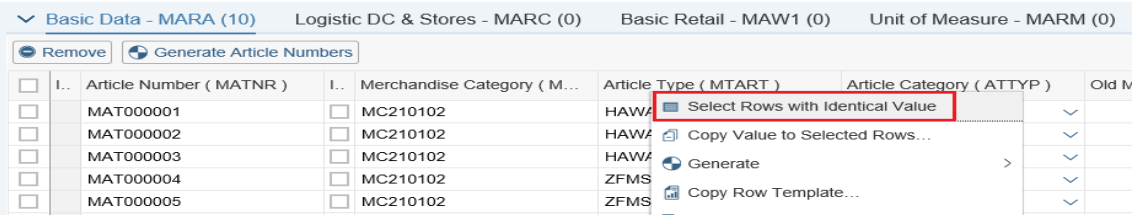
It is explained with “HAWA” Material Type as an example.

Use the following steps to select rows with an identical value.

1. Launch RMP: Refer Launch RMP.
2. Load Datasheet: Refer Load Data.
3. Verify the multiple Articles of Type “HAWA” as listed.

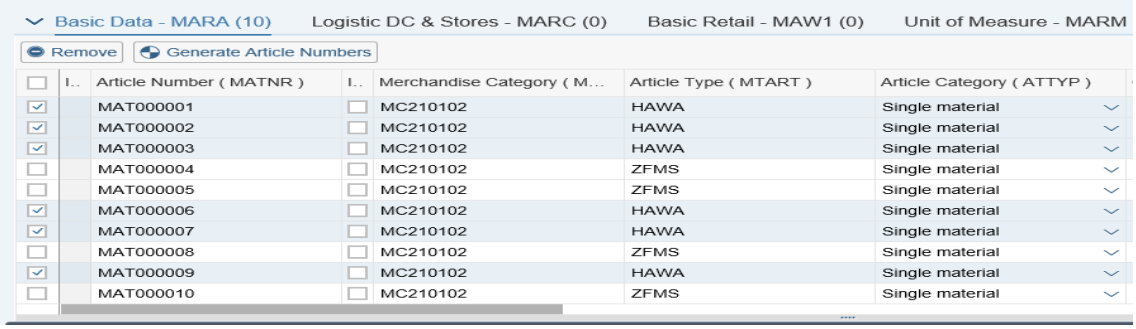


4. Right-click on the “Material Type” column and select the “Select Rows with Identical Value” option.



5. Check the selected rows with “HAWA” Material Type.

   The records can be further processed according to the different requirements. Refer Copy Value to Selected Rows as an example.



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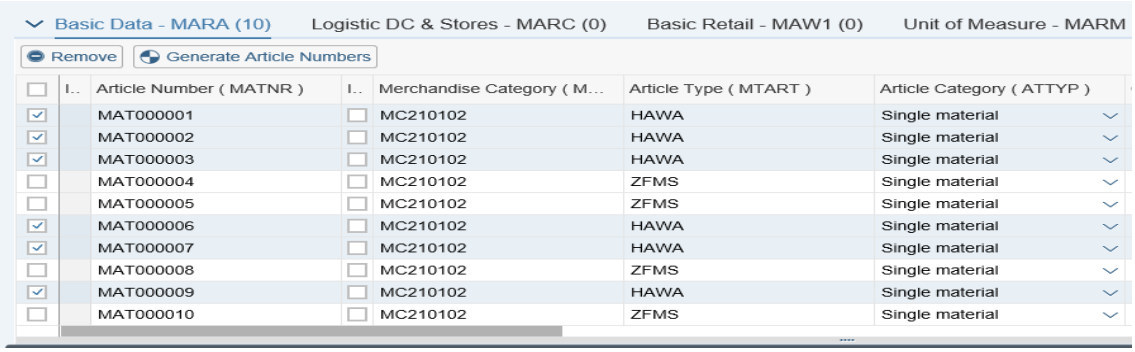
Copy Value to Selected Rows

“Copy Value to Selected Rows” allows copying the required value to selected rows. This feature is available for all the tables in the Create and Change schemas. It is for mass maintenance for fields with similar values. This is available in the context menu.

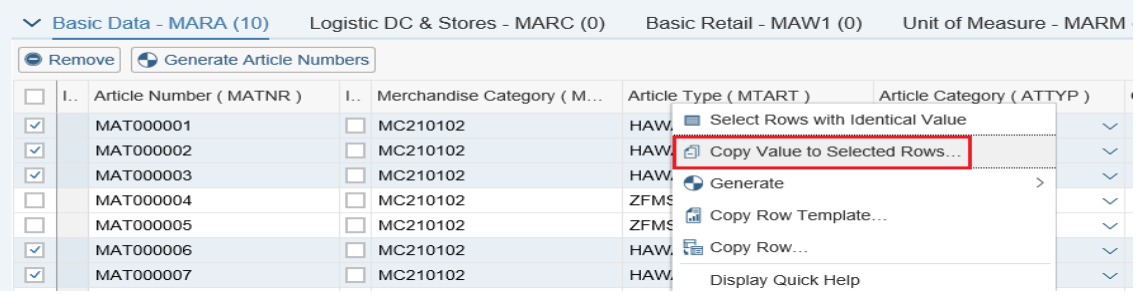
This feature is explained with “HAWA” Material Type as an example.

Use the following steps to copy the value to the selected rows.

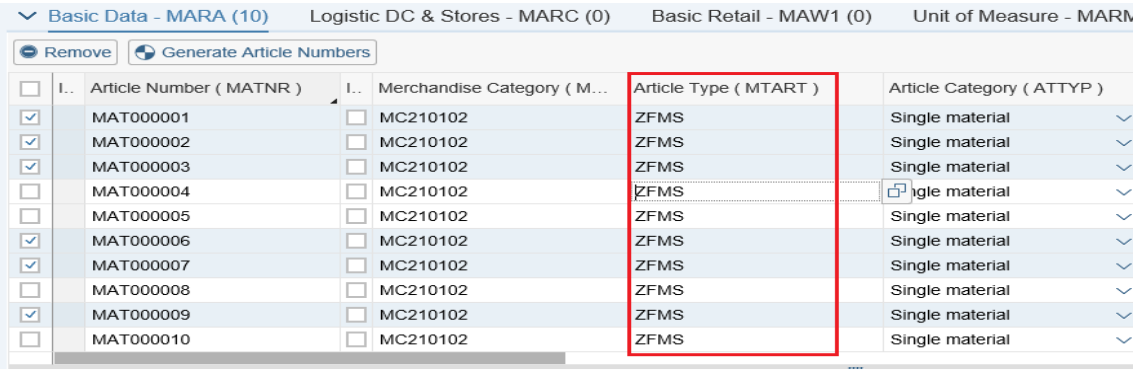
1. Launch RMP: Refer Launch RMP.
2. Load Datasheet: Refer Load Data.
3. Select all the Articles with the “HAWA” Material Type as displayed in the following screen. Refer Select Rows with Identical Value.



4. Right-click on the column with Material Type “ZFMS” and select the “Copy Value to Selected Rows” option.



5. Check if the selected rows are updated with the “ZFMS” value as displayed in the following screen.



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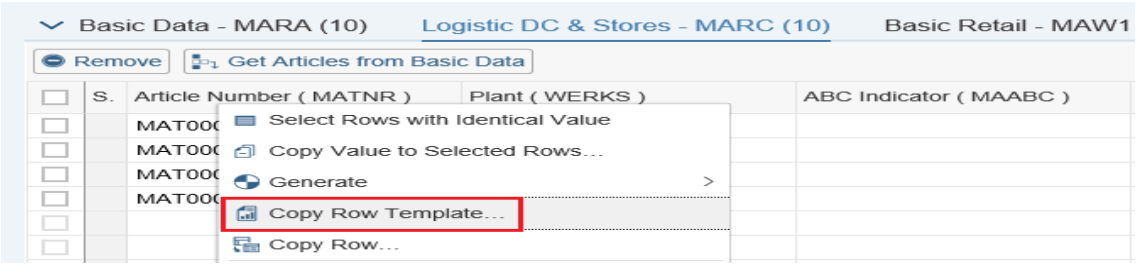
Copy Row Template

“Copy Row Template” feature is to copy selected row to a new row with only the Article number. This functionality is available for all the tables in the Create and Change schemas. This is available in the context menu.

Use the following steps to copy the row template.

1. Launch RMP: Refer Launch RMP.
2. Load Datasheet: Refer Load Data.
3. Right-click on the Article to be copied and select the “Copy Row Template” option.



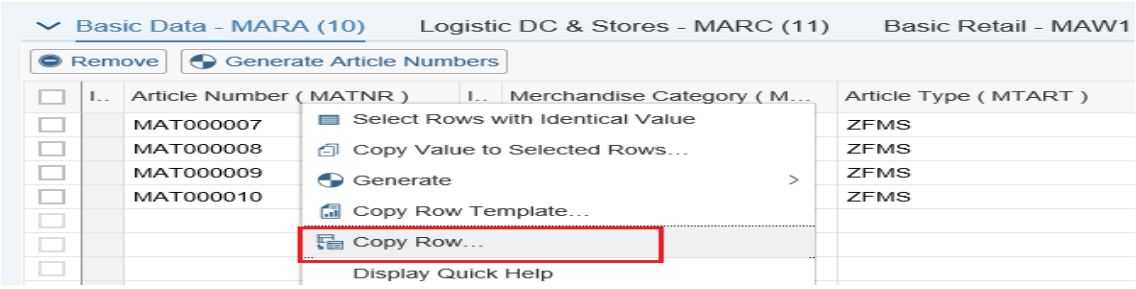
4. Check id the Material Number (MATNR) is copied to the next row.

Copy Row

“Copy Row” feature is to copy the entire table row to next line. This functionality copies the column values to the next row. It is available for all the tables in the Create and Change schemas. This is available in the context menu.

Use the following steps to copy row.

1. Launch RMP: Refer Launch RMP.
2. Load Datasheet: Refer Load Data.
3. Right-click on the Article to be copied and choose the option “Copy Row”.



4. Check if the selected Article with all the columns is copied to the next row.

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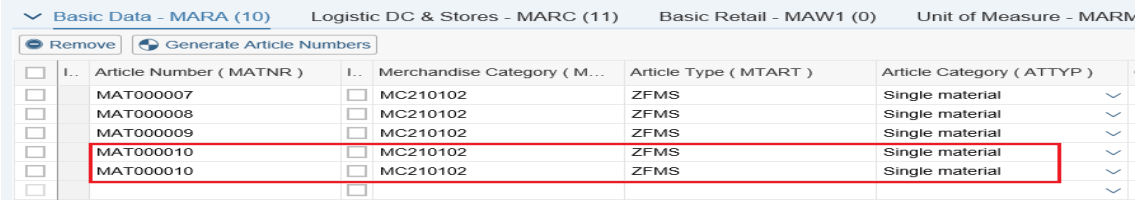
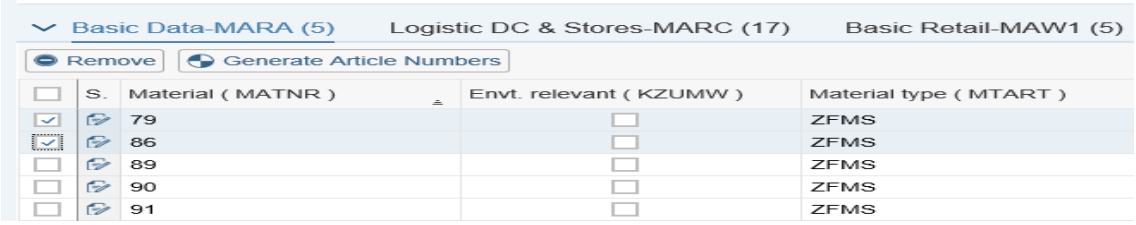


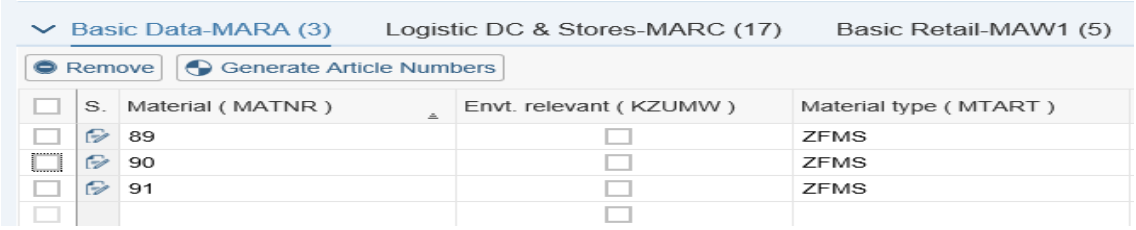
Remove Row

"Remove" feature is to remove records from UI. It is feature is available for all the tables in the Create, Change, and Listing schemas.

Use the following steps to remove records from UI.

1. Launch RMP: Refer Launch RMP.
2. Load Datasheet: Refer Load Data.
3. Select the Articles to be removed and choose the option "Remove".





Change Request Check Process

Check process starts with a confirmation message to indicate that the process would take some time. It has a UI Progress bar with automatic refresh which displays Articles processed versus total number of Articles and a Status bar with automatic refresh which shows the success and error percentage against the processed articles. This feature also has an automatic alerting and removal of locked articles.

Cancel Check

You can stop the check process at any point of time by using "Cancel Check" while the check is in progress.

Use the following steps to cancel the check process while running.

1. Launch RMP: Refer Launch RMP.
2. Load Datasheet: Refer Load Data.
3. Check Data: Refer Check Data
4. Click on the "Cancel Check" button.
   The confirmation for cancel check pop up is displayed.
5. Click on "Yes" and continue.

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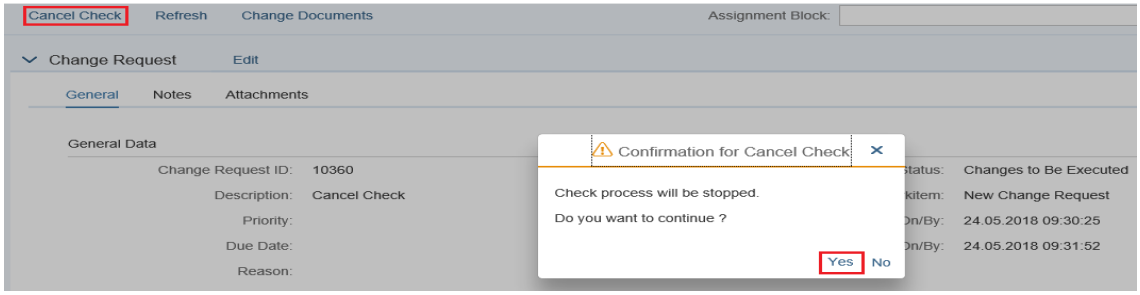
The check process is stopped.



Auto Generate Features

This feature includes various generate features as listed below.

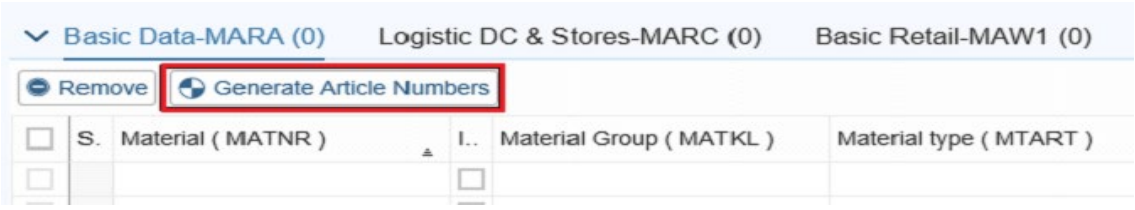
- Generate Article Numbers
- Get Articles from Basic Data
- Generate Article Info Characteristics
- Generate Article Variant Restrictions
- Generate Article Variants
- BOM table - Generate Components for Prepack

Generate Article Numbers

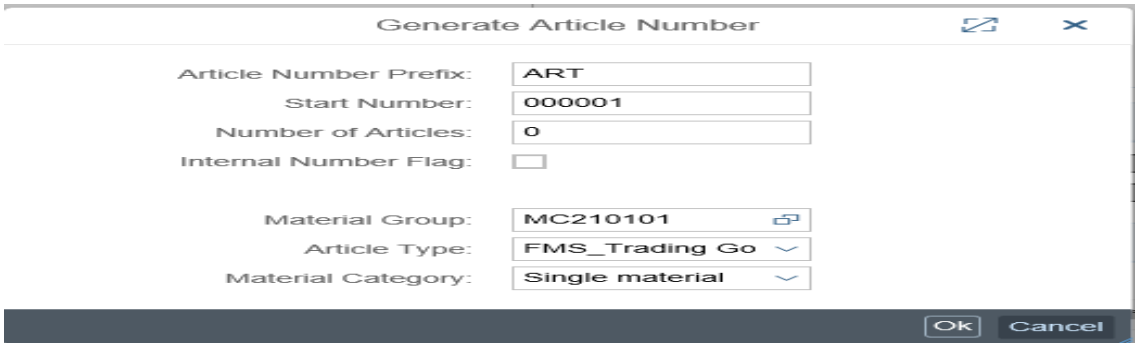
Generate Article numbers is to bring the unique Articles to MARA table in mass create scenario.

Use the following steps to generate Article Numbers.

1. Launch RMP: Refer Launch RMP.
2. Navigate to MARA tab and click on the “Generate Article Numbers” button as displayed in the following screen.



3. For Single Article, Enter Article Number Prefix, Start Number, Number of Articles, Material Group, Article type and Material Category as displayed in the following screen.



4. Verify the Articles generated in MARA tab with basic data.

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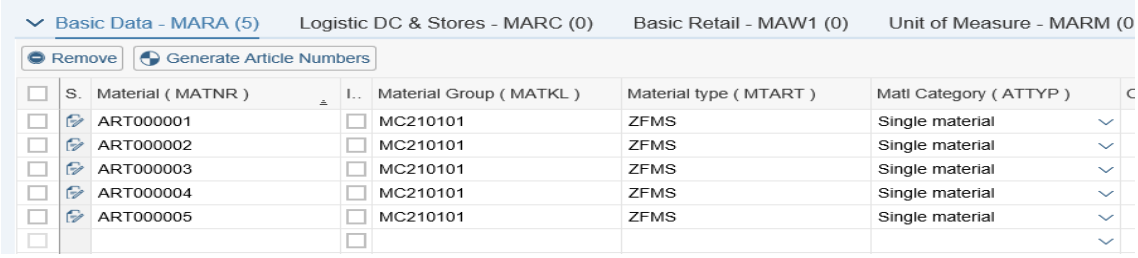
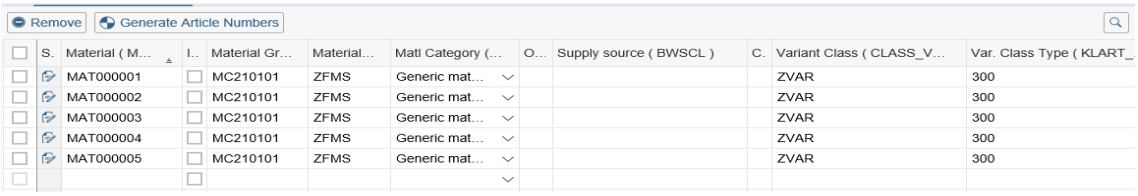


5. For Generic Article, enter Variant Class Type and Variant Creation Class along with other fields as displayed in the following screen.

6. Verify the Articles generated in MARA tab with variant data.



Get Articles from Basic Data

Get Articles from Basic Data is to bring the unique Articles from MARA tab to the other tabs.

Use the following steps to get Articles from Basic Data.

1. Launch RMP: Refer Launch RMP.
2. Load Datasheet: Refer Load Data.
3. Navigate to MARA tab and find Article Numbers listed as displayed in the following screen.

4. Navigate to another tab and click on “Get Articles from Basic Data”.

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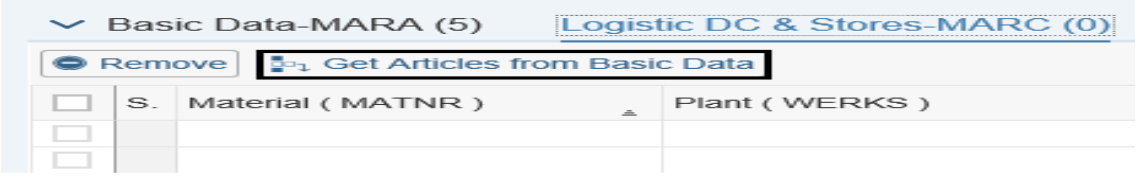


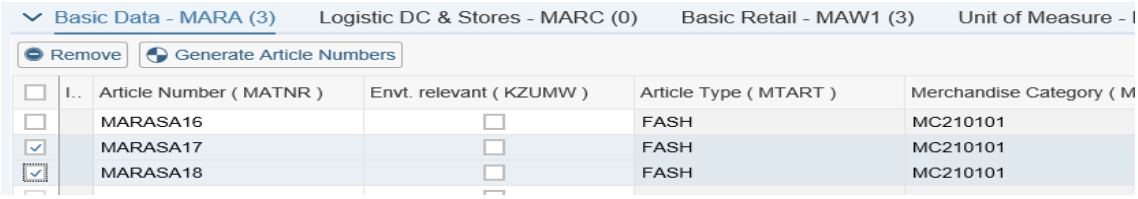
5. Check the Materials (Articles) from MARA table are listed under Logistic DC & Stores-MARC tab.

Generate Article Info Characteristics

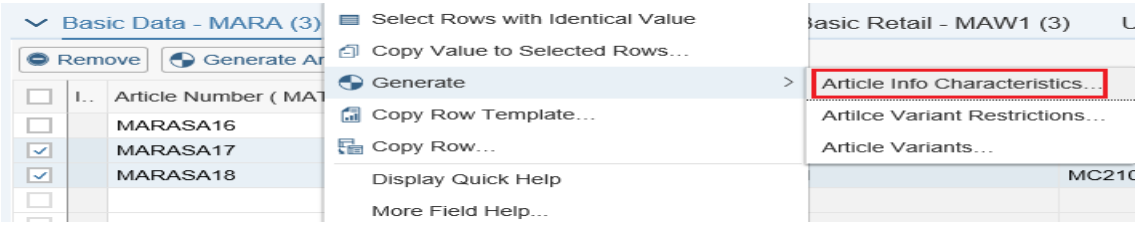
This feature is to generate the Info Characteristics based on Merchandise Category and Characteristic Profile in the AUSP tab. This is available in the context menu under Generate.

Use the following steps to generate Article Info Characteristics.

1. Launch RMP: Refer Launch RMP.
2. Load Datasheet: Refer Load Data.
3. Select the Articles for which the Info Characteristics needs to be generated.

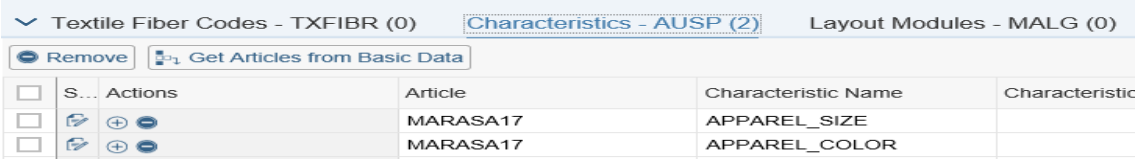


4. Right-click and choose the option “Generate > Article Info Characteristics” as displayed in the following screen.



5. Check the success messages as displayed in the following screen.

6. Verify the Characteristics records generated on the AUSP tab for the selected Articles.



Generate Article Variant Restrictions

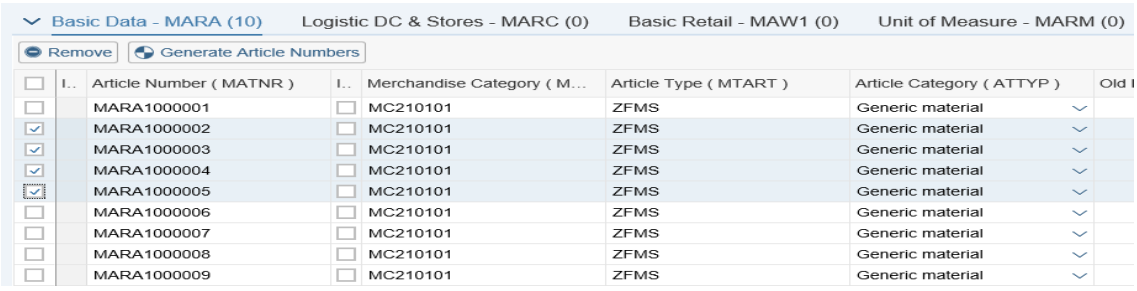
This is introduced for the Generic Article. It is to generate the Variant Creation Characteristic-based on the Merchandise Category/Characteristic Profile (non-S/4) and based on Class and Class type (S/4) in the Restriction Details tab. This is available in the context menu under Generate.

S/4HANA Scenario

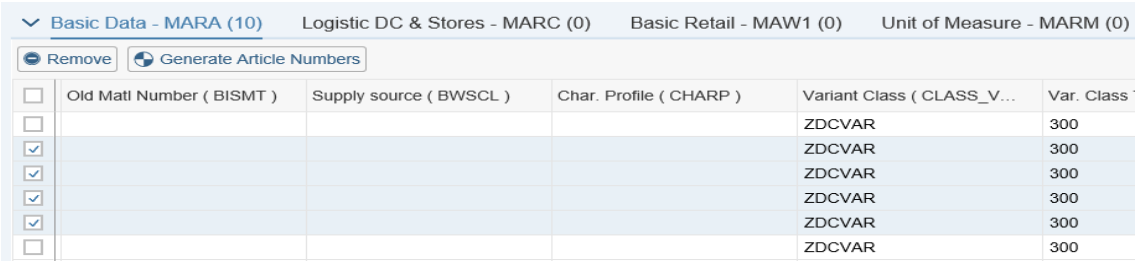
In S/4HANA scenario, the Variant Creation Characteristics are generated based on the Class and the class type in the Restriction Details tab.

Use the following steps to generate Article variant restrictions in S/4HANA scenario.

1. Launch NetWeaver Business Client: Refer launch RMP.
2. Load Datasheet: Refer Load Datasheet.
3. Select the Articles for which the Variant Creation Characteristics are to be generated.



4. Maintain Class and Class Type for the selected Articles in the “MARA” tab as displayed in the following screen.



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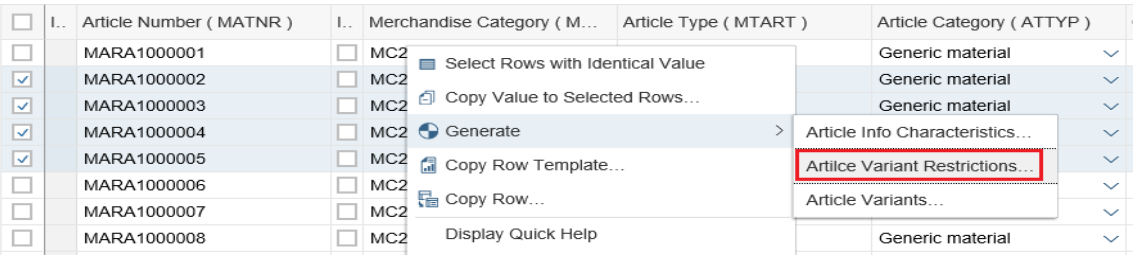
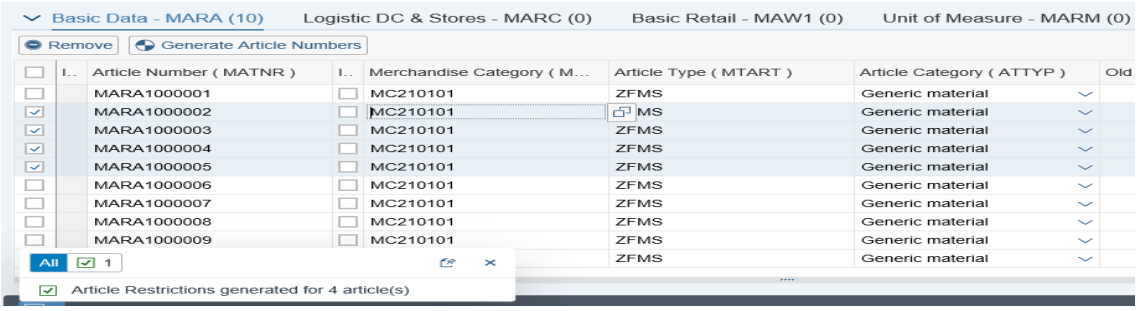
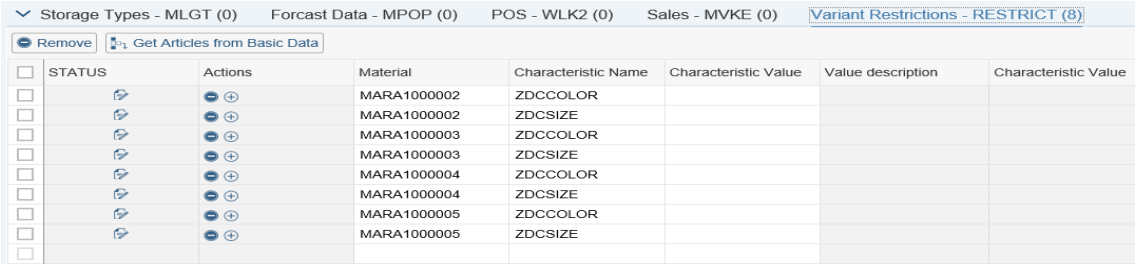
5. Right-click and choose the option “Generate > Article Variant Restrictions” as displayed in the following screen.



6. Check the success messages as displayed in the following screen.

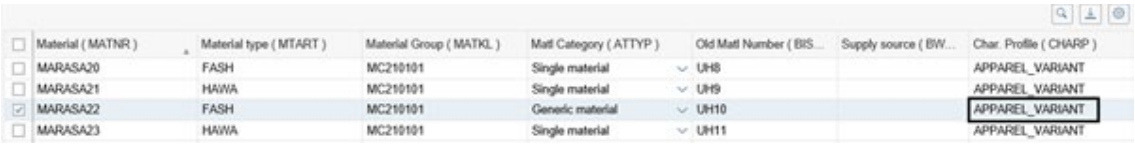


7. Verify the Variant Creation Characteristics records generated on the Restriction Details tab for the selected Articles.



Non-S/4 Scenario

In Non-S/4 scenario, the Variant Creation Characteristics are generated on the Restriction Details tab based on the Merchandise Category/Characteristic Profile maintained in the MARA tab.



Note

To generate the Variant Creation Characteristics, follow the steps mentioned in the S/4 scenario.

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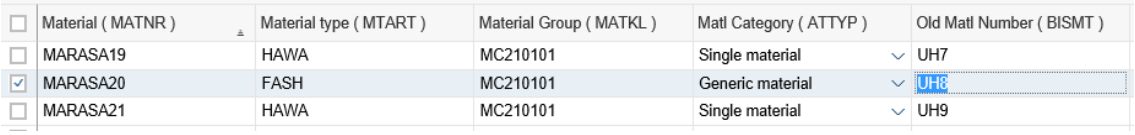
Generate Article Variants

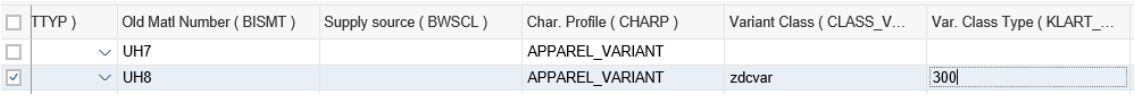
This feature is to generate the Article Variant Combinations in the General Articles Variant tab based on Restrictions (If exists in the Restriction Details tab) or on the Class and Class type. This is available in the context menu under Generate.

1. Launch RMP: Refer Launch RMP.
2. Load Datasheet: Refer Load Data.
3. Select the Articles for which the Article Variant Combinations are to be generated.



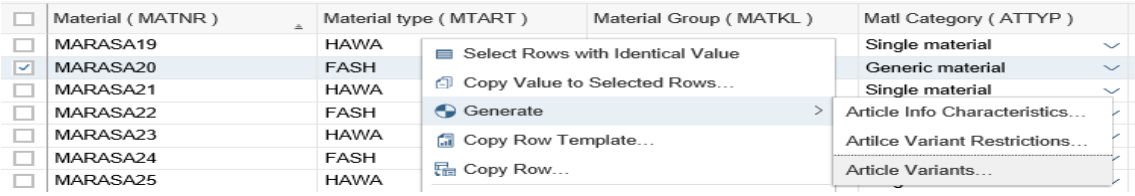
Material (MATNR)	Material type (MTART)	Material Group (MATKL)	Matl Category (ATTYP)	Old Matl Number (BISMT)
MARASA19	HAWA	MC210101	Single material	UH7
MARASA20	FASH	MC210101	Generic material	UH8
MARASA21	HAWA	MC210101	Single material	UH9

4. Maintain Class and Class Type for the selected Articles in the “MARA” tab as in the following screen.

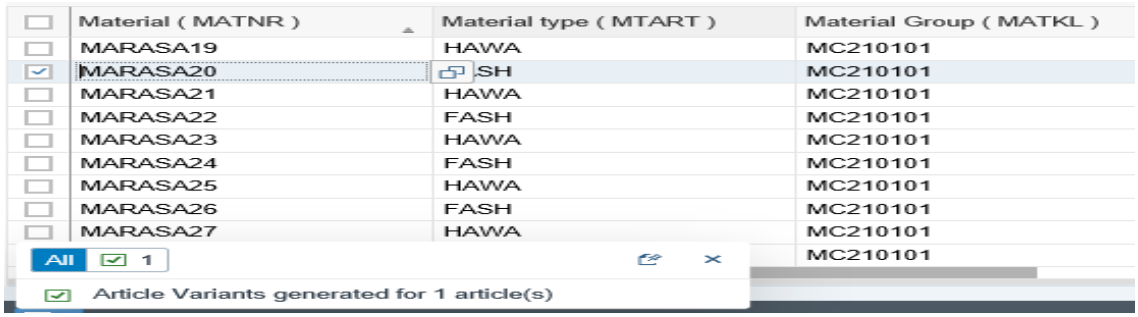


TTYP)	Old Matl Number (BISMT)	Supply source (BWSCL)	Char. Profile (CHARP)	Variant Class (CLASS_V...	Var. Class Type (KLART_...
	UH7		APPAREL_VARIANT		
	UH8		APPAREL_VARIANT	zdcvar	300

5. Right-click and select the “Generate > Article Variants” option as displayed in the following screen.



6. Check the success messages as displayed in the following screen.



7. Verify the Variant Creation Characteristics records generated on the Generic Article Variants tab for the selected Article.

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Cross-plant CM (MATNR)	Material (VARNR)	(VARIANT_CREATE)	Characteristic (ATNAM1)	Char. Value (ATWRT1)
MARASA20	MARASA20001		ZDCCOLOR	C1
MARASA20	MARASA20002		ZDCCOLOR	C1
MARASA20	MARASA20003		ZDCCOLOR	C1
MARASA20	MARASA20004		ZDCCOLOR	C1
MARASA20	MARASA20005		ZDCCOLOR	C2
MARASA20	MARASA20006		ZDCCOLOR	C2
MARASA20	MARASA20007		ZDCCOLOR	C2
MARASA20	MARASA20008		ZDCCOLOR	C2
MARASA20	MARASA20009		ZDCCOLOR	C3
MARASA20	MARASA20010		ZDCCOLOR	C3

Generate Components for Prepack - BOM Table

Generate Components for Prepack is to generate the variant components based on the Generic Articles specified for the Prepack BOM.

Use the following steps to generate components for Prepack.

1. Launch RMP: Refer Launch RMP.
2. Load Datasheet: Refer Load Data.
3. Navigate to Article BOM tab and click on the button “Generate Components for Prepack” as displayed in the following screen.

Components - BOM (0) Purch. Segmentation - EINSGT (0) Additionals - WTADDI (0)

Remove | Get Articles from Basic Data | Generate Components for Prepack

I..	Article Number (MATNR)	Matl Category (MATNR_A...	Component (IDNRK)	Matl Category (IDNRK_A...

4. Check if the components are listed for pre-pack Articles as displayed in the following screen.

Material (MATNR)	Matl Category (MATNR_A...	Component (IDNRK)	Matl Category (IDNRK_A...
MARASA15	11	1445	01
MARASA15	11	1445001	02
MARASA15	11	1445002	02
MARASA15	11	1445003	02
MARASA15	11	1445004	02
MARASA16	11		
MARASA17	00		

Error handling with Change Request Log

This feature has a detailed Change Request Log with all error, warning and success messages. This also displays the error message on hovering over the Article record status indicator. Error handling feature also has an option to remove error articles from Change Request or to Move Error Articles to a New Change Request.

Data Replication

In RMP, the replication of Article from MDG Hub to connected client systems is triggered using the Data Replication Framework (DRF) in connecting with ALE.

Context-Based Adaptation (CBA)

This feature enables you to configure UI at Schema/Workflow Step/Table/Field level. You can restrict or hide certain table(s) or field(s) based on business requirements by using MDGIMG configuration.

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Note:

- UI configuration/adaptation and step dependent properties are done using the RMP configuration. CBA or MDGIMG configurations are not used in RMP.

It is explained by the following examples in Mass Create schema.

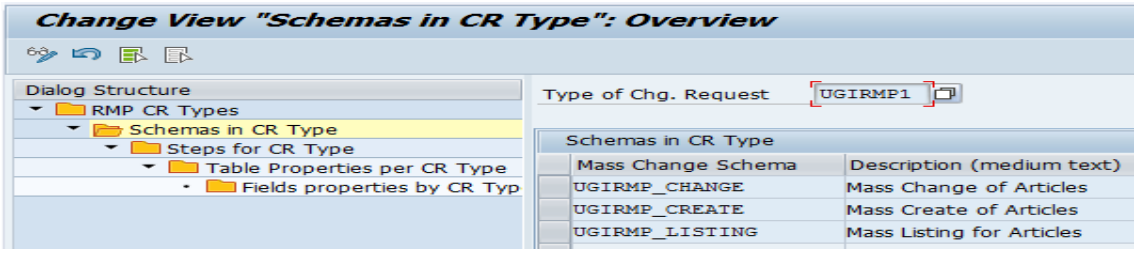
- Hide Seasons tab - FSH_SEASONS_MAT
- Hide BISMT field (Old Material Number) and Disable field BWSCL (Supply Source) in MARA tab

Hide Seasons table

1. Run transaction MDGIMG and navigate to > Retail Mass Processing by Utopia > Process Modeling > Configure Properties of CR-Schema Steps > RMP CR Types are displayed as in the following screen.

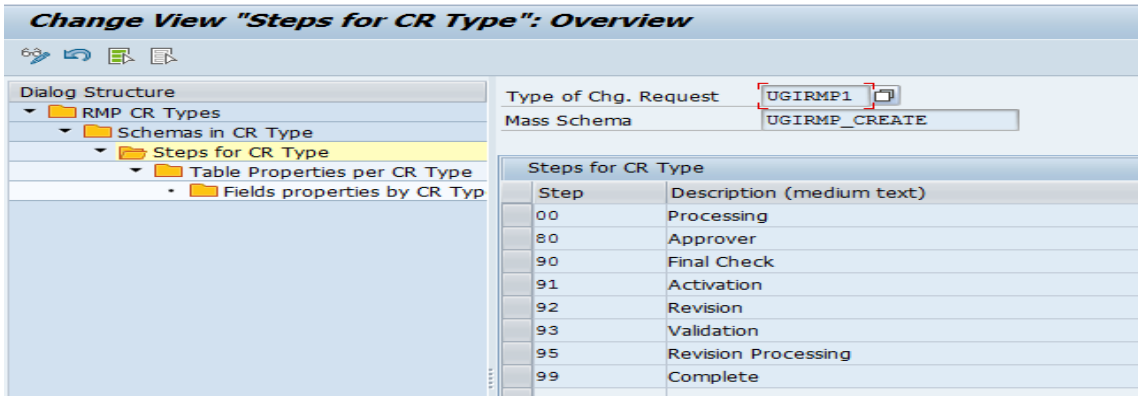
2. Select the Change Request type as “UGIRMP1” and double-click on “Schemas in CR Type” structure.

   Schemas in CR type “UGIRMP1” are displayed as displayed in the following screen.



3. Select the schema “UGIRMP_CREATE” and double-click on structure “Steps for CR Type”.

   Workflow steps for CR Type are displayed.



4. Select the step “00” and double-click on “Table Properties per CR Type”.

   Tables are displayed with options to hide and read-only.

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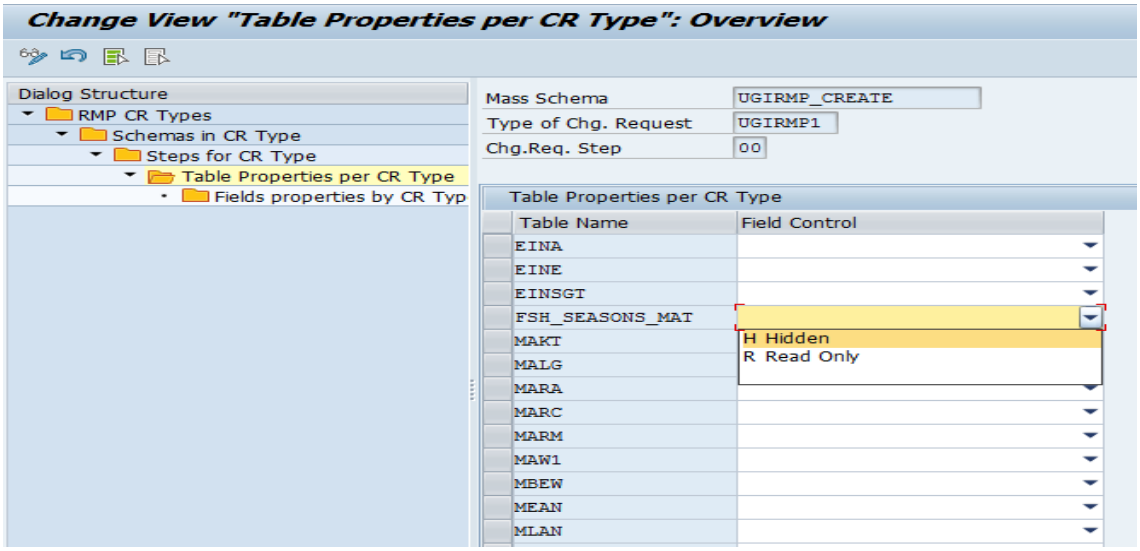
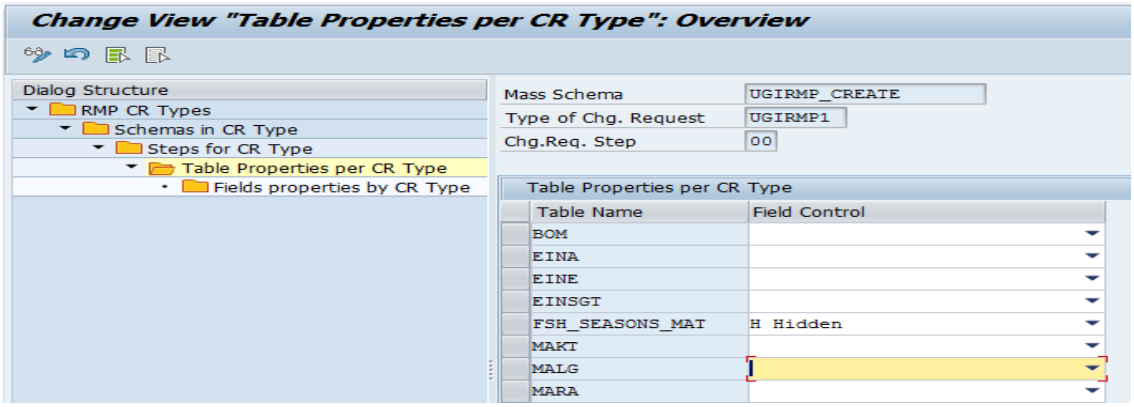
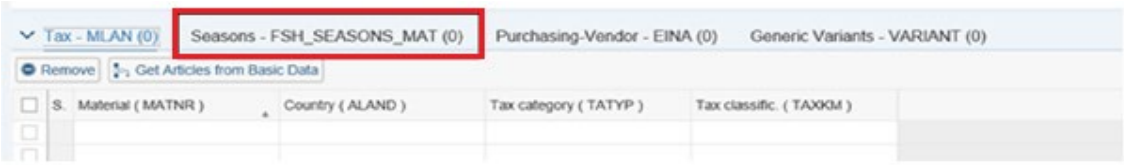


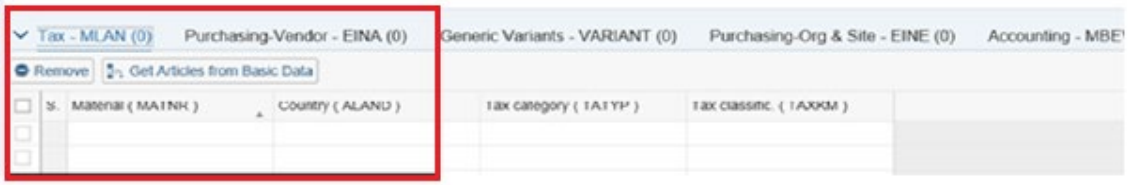
5. Select “Field Control” option hidden for table “FSH_SEASONS_MAT”.



6. Verify the CBA changes.
   - Before CBA Changes – “Seasons” tab is present in the UI.



   - After CBA Changes – “Seasons” tab is hidden in the UI.



Hide BISMT field in MARA tab

Use the following steps to hide and disable fields by using CBA.

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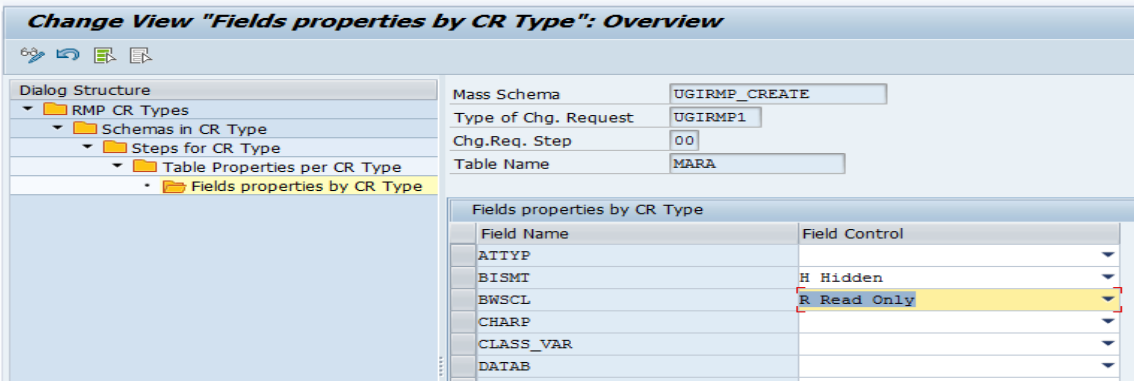
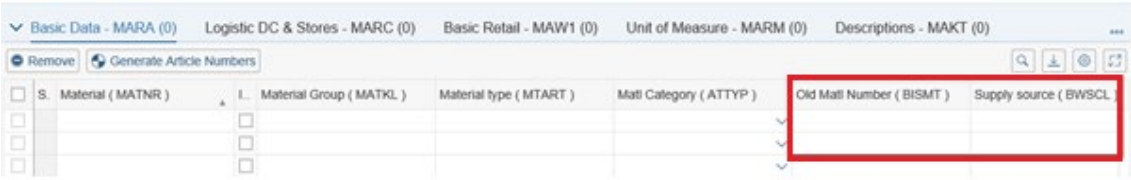
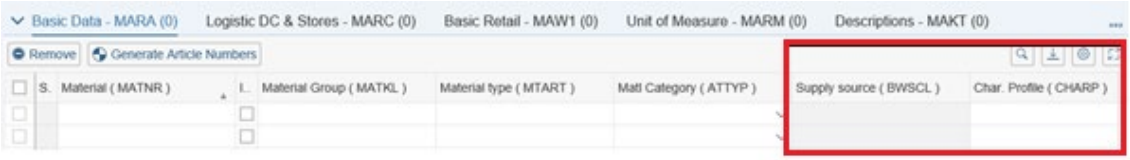
1. Use the steps as described in section Hide Seasons table to get the table list.
2. Select “MARA” table and double-click on “Fields properties by CR Type” structure.
3. Set field control as Hidden for “BISMT” field and Read Only for “BWSCL” field as displayed in the following screen.



4. Save the changes in a Change Request.
5. Verify the CBA changes.
   - Before CBA Changes – BISMT and BWSCL fields are available and enabled in the UI.



   - After CBA Changes – BISMT field is hidden and BWSCL field is disabled in the UI.



Troubleshooting

The following processing options are available for Change Requests with errors.

- Only Remove the Articles
- Move Articles to new Change Request

Only Remove the Articles

Use the following steps to only remove the Articles.

1. Launch RMP: Refer Launch RMP.
2. Load Datasheet: Refer Load Data.
3. Check Data: Refer Check Data.
4. Navigate to the Error list as displayed in the following screen.

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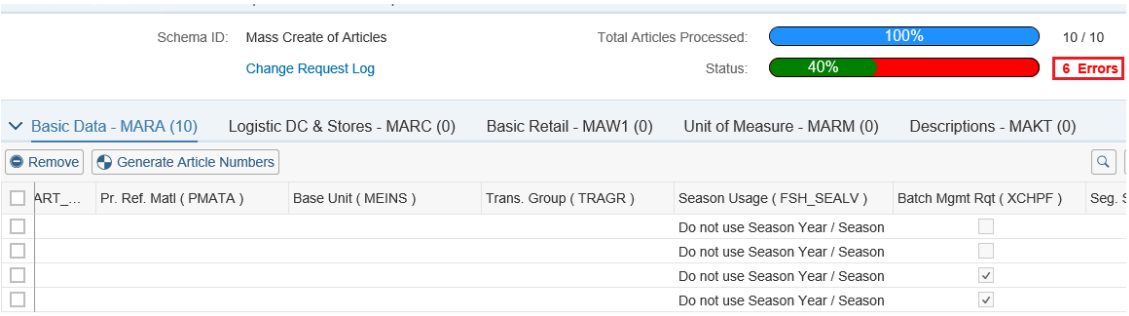
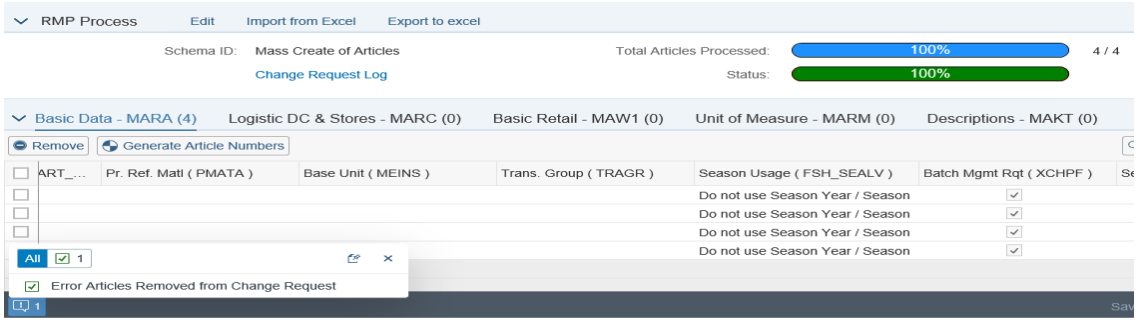


5. The following processing options are displayed.

6. Click “Only Remove the Articles” option.

   The Articles with errors are removed from the Change Request as displayed in the following screen.



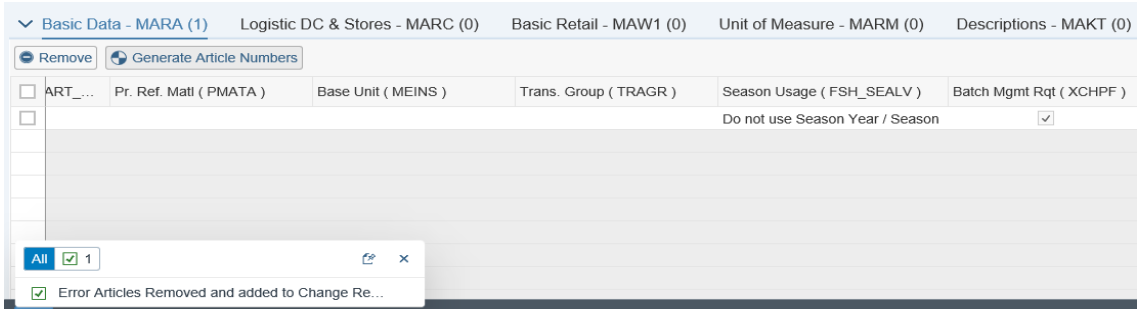
Move Articles to new Change Request

Use the following steps to move Article to a new Change Request.

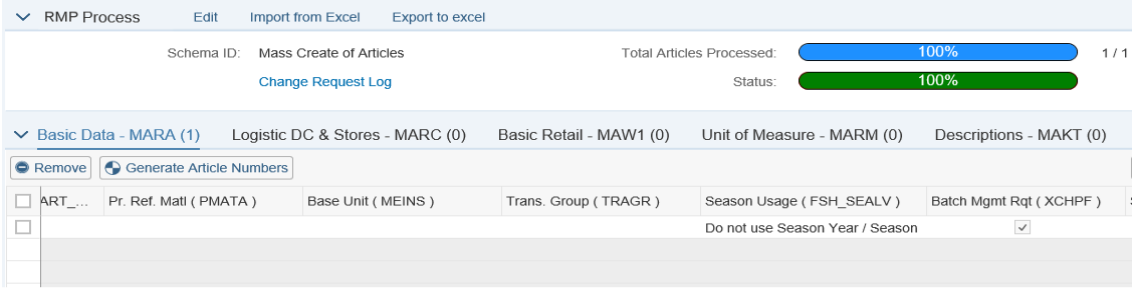
1. Use the steps from 1 to 4 as described in Section: Only Remove the Articles
2. Click of “Move Articles to new Change Request” option.

   The Articles with errors are removed and added to a new Change Request as displayed in the following screen.

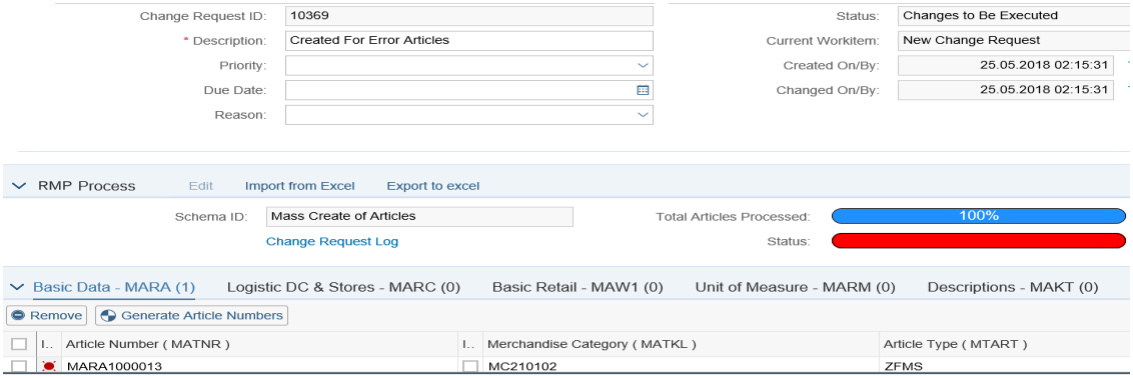
The Articles with errors are removed and added to a new Change Request.



The existing Change Request is ready to submit.



The Articles with errors are added to a new Change Request as displayed in the following screen.



Common Error Scenarios

Some of the commonly faced errors and their respective resolutions are provided as below:

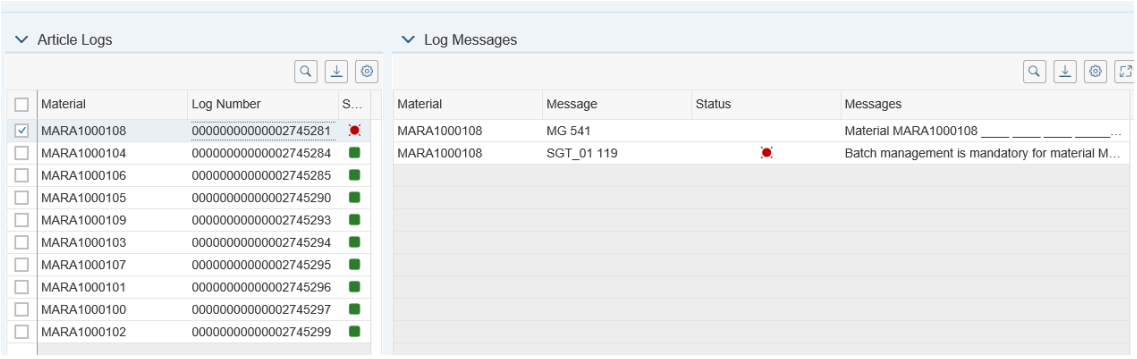
- Error 1: Invalid Data
- Error 2: Locked Article
- Error 3: Create scenario with existing Article

Error 1: Invalid Data

As the status displays error in red, check the error message details by clicking the Change Request Log.

1. Click on the “Change Request Log” button as displayed in the following screen to display the error.

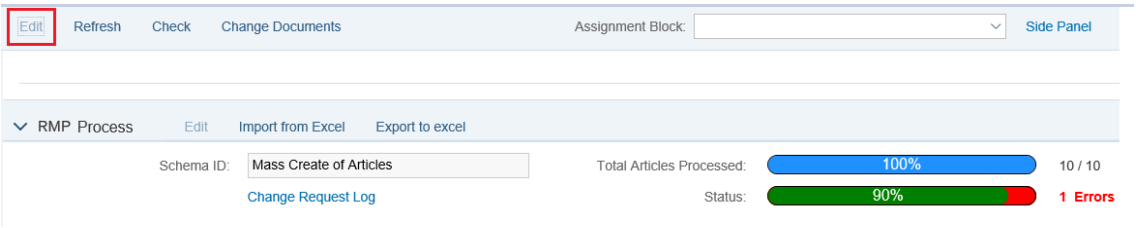
The following screen displays the error log in detail. In this example, the error is “Batch Management is mandatory”.



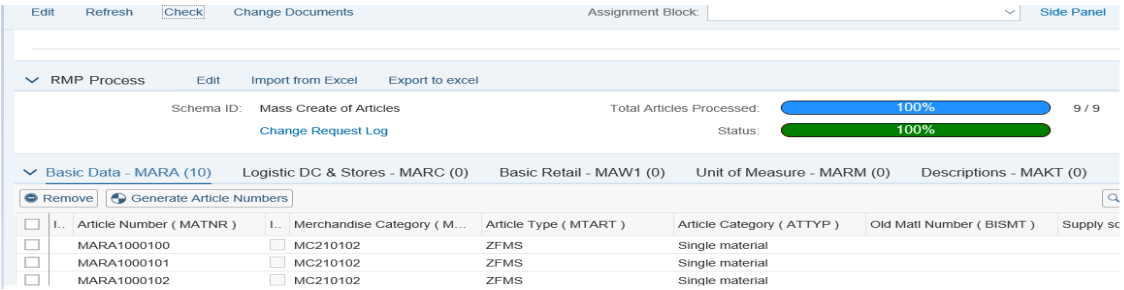
Resolution

Reprocess Change Request with corrected data.

1. Click on the “Edit” button and correct the entered data.

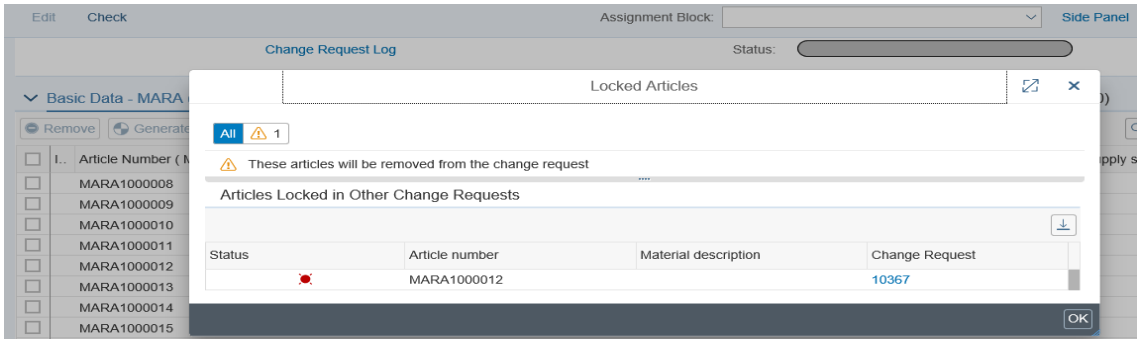


Errors are rectified, and the Change Request is ready to submit.



Error 2: Locked Article

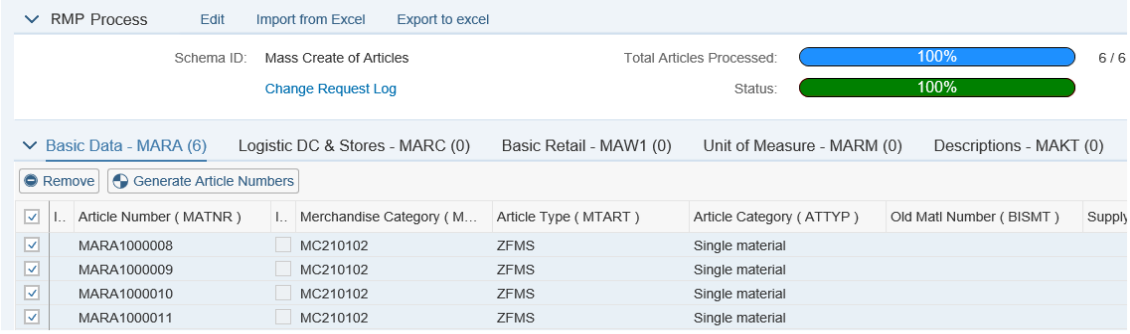
Once the data gets uploaded, click on the “Check” button to verify the data consistency.
For Locked Article, the error log is displayed immediately after you click on the “Check” as displayed in the following screen.



Resolution

Locked Article is removed from the Change Request automatically. Locked Article is removed from the Change Request automatically after you click “OK” button.

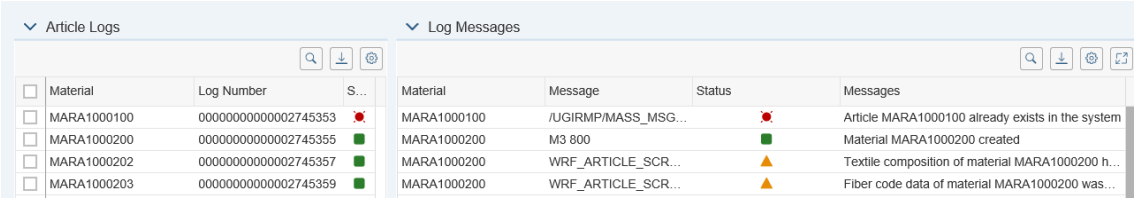
The locked Articles are removed from the Change Request and the status is changed to 100% as displayed in the following screen.



Error 3: Create scenario with existing Article

1. Click on the “Change Request Log” button.

   The following screen displays the error log in detail. In this example, the error is “Article MARA1000100 already exists in the system”.



Resolution

1. Use a different Article Number and reprocess the Change Request
2. Click on the “Edit” button and correct the entered data.

   The Change Request is ready to submit.

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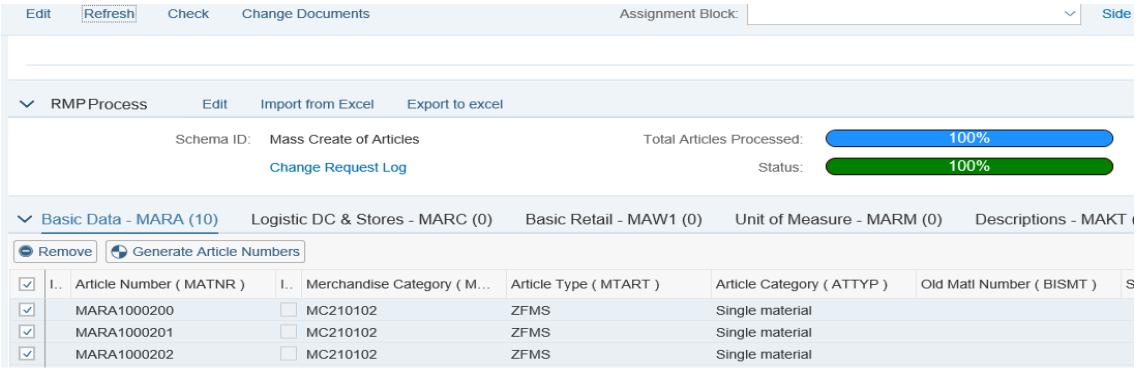

Appendix A: List of Tables in Mass Create/Change Schemas

Table Name	Table Description
ARTHIER	Article Hierarchy
AUSP	Characteristics
BOM	Components
EINA	Purchasing-Vendor
EINE	Purchasing-Org & Site
EINSGT	Purch. Segmentation
FSH_SEASONS_MAT	Seasons
MAKT	Descriptions
MALG	Layout Modules
MARA	Basic Data
MARC	Logistic DC & Stores
MARM	Unit of Measure
MAW1	Basic Retail
MBEW	Accounting
MEAN	GTIN
MLAN	Tax
MLEA	Vendor GTIN
MLGN	Warehouses
MLGT	Storage Types
MPOP	Forecast Data
MVKE	Sales
RESTRICT	Variant Restrictions
SGT_MADKA	Account Seg.
SGT_MARM	Weights n Vol. Seg.
SGT_MLGN	Warehouse Seg.
SGT_MLGT	Storage Seg.
SGT_MRP	MRP Segment
SGT_MRP_GN	MRP Gen Seg,
SGT_MVKE	Sales Seg.
SUBSTN	Substitution (Only for Mass Change Schema)
TXCOMP	Textile Components
TXFIBR	Textile Fiber Codes
URL	Image URL Details
VARIANT	Generic Variants
WLK2	POS
WRPL	Replenishment Details
WTADDI	Additionals

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