

Changelog - SAP Responsible Design and Production Integration with SAP ERP

Date 24-April-2025

1.9.0

- Sales and Distribution ZESP Mapping for S4HANA Public Cloud is created with version 1.0.0:
 - Used to map packaging fees to Sales and Distribution ZESP pricing condition records for Spain Plastic Tax with S/4HANA Public Cloud.
- Sales and Distribution ZEST Mapping for S4HANA Public Cloud is created with version 1.0.0:
 - Used to map packaging fees to Sales and Distribution ZEST pricing condition records for Spain Plastic Tax with S/4HANA Public Cloud.
- Create Pricing Conditions and Material Classifications to SAP ERP is updated to version 1.7.0:
 - Added support for processing Material Classification records in IDoc format used in Spain Plastic Tax integration with S/4HANA Public Cloud.
 - Allowed configuration of proxy type and authentication method for connecting with on-premise SAP systems.
- Map Packaging Fees to Pricing Conditions and Material Classifications for Spain Plastic Tax is updated to version 1.4.0:
 - Added support for mapping to S/4HANA Public Cloud through the configuration option "S/4HANA Public Cloud Integration Enabled" in the integration flow Create Pricing Conditions and Material Classifications to SAP ERP.
 - Updated to handle multiple data formats when message mappings result in different target XML structures.
- Material Classification Mapping is updated to version 1.0.2:
 - Updated to support the correct decimal point symbol for material class characteristics, depending on whether the mapping is intended for S/4HANA Public Cloud or on-premise systems.
- SAP Responsible Design and Production Script Collection is updated to version 1.3.2:
 - Updated script: gatherPayload
- Send Pricing Condition Records to S4HANA Public Cloud is updated to version 1.1.0:
 - Added support for sending Material Classification records in IDoc format to S/4HANA Public Cloud.

- Added configuration for connection with Material Classification SOAP API of S/4HANA Public Cloud.

Date 07-February-2025

1.8.0

- Material Management ZCON Mapping for S4HANA Public Cloud is created with version 1.0.0:

- Used to map packaging fees to Material Management ZCON pricing condition records for CONAI Empty Packaging with S/4HANA Public Cloud.

- Material Management ZESE Mapping for S4HANA Public Cloud is created with version 1.0.0:

- Used to map packaging fees to Material Management ZESE pricing condition records for CONAI Empty Packaging with S/4HANA Public Cloud.

- Sales and Distribution ZCON Mapping for S4HANA Public Cloud is created with version 1.0.0:

- Used to map packaging fees to Sales and Distribution ZCON pricing condition records for CONAI Empty Packaging with S/4HANA Public Cloud.

- Sales and Distribution ZESE Mapping for S4HANA Public Cloud is created with version 1.0.0:

- Used to map packaging fees to Sales and Distribution ZESE pricing condition records for CONAI Empty Packaging with S/4HANA Public Cloud.

- Map Packaging Fees to Pricing Conditions for CONAI Empty Packaging is updated to version 1.1.0:

- Added support for mapping to S/4HANA Public Cloud through the configuration option "S/4HANA Public Cloud Integration Enabled" in the integration flow Create Pricing Conditions and Material Classifications to SAP ERP.

Date 13-January-2025

1.7.1

- Send Pricing Condition Records to S/4HANA Public Cloud is updated with version 1.0.1:
 - Added missing configuration for Sender.
 - Removed unused reference to script collection.

- Maintain Customer Roles in SAP ERP is updated to version 1.1.1:
 - Fixed references to SAP Responsible Design and Production Script Collection.

- Map Packaging Fees to Pricing Conditions for Extended Producer Responsibility Reports is updated to version 1.5.1:
 - Fixed references to SAP Responsible Design and Production Script Collection.

- SAP Responsible Design and Production Script Collection is updated to version 1.3.1:
 - Updated script: setProperties

Date 25-November-2024

1.7.0

- Send Pricing Condition Records to S/4HANA Public Cloud is created with version 1.0.0:

- Integration flow to support sending pricing condition records for Sales and Distribution (SD) and Material Management (MM) to an S/4HANA Public Cloud system using OData public service.

- Sales and Distribution Mapping for S/4HANA Public Cloud is created with version 1.0.0:

- Used to map packaging fees to Sales and Distribution pricing condition records for S/4HANA Public Cloud

- Material Management Mapping for S/4HANA Public Cloud is created with version 1.0.0:

- Used to map packaging fees to Material Management pricing condition records for S/4HANA Public Cloud

- Customers Roles Mapping for S/4HANA Public Cloud is created with version 1.0.0:

- Used to map Customer Roles to Customer Master Data for S/4HANA Public Cloud

- Maintain Customer Roles in SAP ERP is updated to version 1.1.0:

- Updated to use Customer Roles Mapping for S/4HANA Public Cloud to map Customer Roles to Customer Master Data for S/4HANA Public Cloud.
- Added a new configuration option "S/4HANA Public Cloud Integration Enabled".

- Map Packaging Fees to Pricing Conditions for Extended Producer Responsibility Reports is updated to version 1.5.0:

- Added support for mapping packaging fees to pricing conditions for S/4HANA Public Cloud

- Create Pricing Conditions and Material Classifications to SAP ERP is updated to version 1.6.0:

- Added support for integration with S/4HANA Public Cloud
- Added a new configuration option "S/4HANA Public Cloud Integration Enabled"

- SAP Responsible Design and Production Script Collection is updated to version 1.3.0:

- Added scripts: setPropertyForIdocOrOdata, convertDateToISOFormat
- Updated script: gatherPayload

- SAP Responsible Design and Production Value Mapping is updated with version 1.0.1:

- The following changes are made in the default mapping of the condition groups:
 - END_CONSUM=01 is changed to END_CONSUM=Z1
 - HORECA=02 is changed to HORECA=Z2
 - HOSPITAL=03 is changed to HOSPITAL=Z3
 - PROF_CUSTM=04 is changed to PROF_CUSTM=Z4
 - RETAILER=05 is changed to RETAILER=Z5

Date 24-September-2024

1.6.0

- SAP Responsible Design and Production Value Mapping is created with version 1.0.0:
 - Used to maintain Customer Role - Customer Condition Group Code value mappings.

- Send IDocs to SAP ERP Systems is created with version 1.0.0:
 - Reusable flow to support sending and filtering of IDocs to a single or multiple ERP systems.

- Customer Roles Mapping is created with version 1.0.0:
 - Used to map Customer Roles to SAP ERP Customer Master Data.

- Maintain Customer Roles in SAP ERP Integration Flow is created with version 1.0.0:
 - An independent Integration Flow to allow scheduled replication of Customer Roles in SAP ERP.
 - Uses Customer Roles Mapping to map Customer Roles to SAP ERP Customer Master Data.
 - Valid Customer Roles are obtained from SAP Responsible Design and Production Value Mapping.
 - If an unknown role is found, mapping for the role will be skipped and a warning log will be attached to the End Message.
 - Uses Send IDocs to SAP ERP Systems flow for sending to ERP.

- Sales And Distribution Mapping with support for Customer Role dependent Pricing Conditions is created with version 1.0.0:
 - Extends existing Sales and Distribution mapping.
 - Valid Customer Roles are obtained from SAP Responsible Design and Production Value Mapping.
 - If an unknown role is found, mapping for the role will be skipped and a warning log will be attached to the End Message.
 - If there is no role, the Packaging Fee will be mapped as a Customer Independent Pricing Condition.

- Map Packaging Fees to Pricing Conditions for Extended Producer Responsibility Reports is updated to version 1.4.0:
 - Added support for Sales and Distribution Customer dependent pricing conditions, mapping and warning logs.

- Create Pricing Conditions and Material Classifications to SAP ERP is updated to version 1.5.0:

- Added support for Sales and Distribution Customer dependent pricing conditions, mapping and warning logs.
 - Added a new configuration option "Include Customer Role Dependent Fees", to enable inclusion of Customer Role Dependent Fees from Responsible Design and Production Packaging Fee API.
- Map Packaging Fees to Pricing Conditions and Material Classifications for Spain Plastic Tax is updated to version 1.3.3:
- Added handling for Sales and Distribution Customer dependent pricing conditions, mapping and warning logs.
 - In case "Include Customer Role Dependent Fees" toggle is enabled, incoming Customer Role Dependent Fees will be skipped.
- Map Packaging Fees to Pricing Conditions for CONAI Empty Packaging is updated to version 1.0.1:
- Added handling for Sales and Distribution Customer dependent pricing conditions, mapping and warning logs.
 - In case "Include Customer Role Dependent Fees" toggle is enabled, incoming Customer Role Dependent Fees will be skipped.
- SAP Responsible Design and Production Script Collection is updated to version 1.2.0:
- Added scripts: attachWarningMessage, filterXmlByXPath, throwExceptionWithMessage, validateCustomerRole.
 - Renamed script convertToFlatAndSetDelta to processResponseFromApi.
 - Minor refactoring of existing scripts.

Date 02-August-2024

1.5.0

- Map Packaging Fees to Pricing Conditions for CONAI Empty Packaging Integration Flow is created with version 1.0.0:

- Created an extension Integration Flow to map Packaging Fees to Pricing Conditions for CONAI Empty Packaging.
- INBOUND and OUTBOUND fees are used to create Material Management (MM) and Sales and Distribution (SD) Pricing Conditions respectively.
- For all applicable fees, Company Code/Customer independent MM/SD Pricing Conditions are created with condition type ZCON.
- CONAI exemptions are retrieved from SAP Responsible Design and Production Exemption API. And if applicable to the fee, are used to create Company Code/Customer dependent MM/SD Pricing Conditions with condition type ZESE.

- Sales and Distribution ZCON/ZESE Message Mappings are created with version 1.0.0:

- Created template mappings for Sales and Distribution ZCON and ZESE to support mapping of Packaging Fees to Pricing Conditions for Customer independent and dependent Sales and Distribution Pricing Conditions for CONAI Empty Packaging.

- Material Management ZCON/ZESE Message Mappings are created with version 1.0.0:

- Created template mappings for Material Management ZCON and ZESE to support mapping of Packaging Fees to Pricing Conditions for Company Code independent and dependent Material Management Pricing Conditions for CONAI Empty Packaging.

- Create Pricing Conditions and Material Classifications to SAP ERP is updated to version 1.4.0 with updates:

- Added new configuration property CONAIPackagingFeeExtensionEnabled to enable retrieval of CONAI specific information from SAP Responsible Design and Production Packaging Fee API.
- Added a cleanup mechanism for data store entries, to support exemption retrieval, used by extension Map Packaging Fees to Pricing Conditions for CONAI Empty Packaging.

- Map Packaging Fees to Pricing Conditions and Material Classifications for Spain Plastic Tax updated is updated to version 1.3.2 with update:

- Fixed a bug where Material Classification IDOCs were duplicated due to the Business Process Direction of the Packaging Fee. From now on, only OUTBOUND fees will be used for creation of Material Classifications.

- Changed script reference from exceptionHandling to checkExtensionNotEnabled.
- Material Classification Mapping, Sales and Distribution Mapping, Sales And Distribution ZESP Mapping and Sales And Distribution ZEST Mapping are updated to version 1.0.1 with update:
- Removed scripts createVakeySupplier and keyAttributeSetter and moved their functionality into a new script createVakeyAttribute.
- Material Management Mapping is updated to version 2.0.1 with update:
- Removed scripts createVakeySupplier and keyAttributeSetter and moved their functionality into a new script createVakeyAttribute.
- SAP Responsible Design and Production Script Collection is updated to version 1.1.0 with updates:
- Removed scripts createVakeySupplier and keyAttributeSetter and moved their functionality into a new script createVakeyAttribute.
 - Renamed script exceptionHandling to checkExtensionNotEnabled.
 - Extended script checkExtensionNotEnabled to handle CONAIPackagingFeeExtension not being enabled.
 - Added new scripts extractExemptionsPayload, getNextDataStoreEntry and setApplicableExemptionsAndFlatten, used in extension Map Packaging Fees to Pricing Conditions for CONAI Empty Packaging.

Date 11-December-2023

1.4.1

- SAP Responsible Design and Production Script Collection is created with version 1.0.0:
 - Created a script collection that contains all scripts in use by integration flows. For the scripts to be accessible, this artifact must be deployed before any integration flows. Message mappings continue to use local scripts.
 - Combined scripts to avoid duplication.

- Create Pricing Conditions and Material Classifications to SAP ERP is updated to version 1.3.1 with updates:
 - Removed local scripts.
 - Referenced all used scripts from SAP Responsible Design and Production Script Collection.
 - Fixed a bug where a token would not be extracted correctly from the URL if it contains additional parameters or expands.

- Map Packaging Fees to Pricing Conditions and Material Classifications for Spain Plastic Tax updated and Map Packaging Fees to Pricing Conditions for Extended Producer Responsibility Reports to version 1.3.1 with updates:
 - Removed local scripts.
 - Referenced all used scripts from SAP Responsible Design and Production Script Collection.

- Distribute Pricing Conditions and Material Classifications to Multiple SAP ERP systems is updated with version 1.0.1:
 - Removed local scripts.
 - Referenced all used scripts from SAP Responsible Design and Production Script Collection.

Date 13-September-2023

1.4.0

- Create Pricing Conditions and Material Classifications to SAP ERP is updated to version 1.3.0 with updates:
 - Added new configuration property Context Prefix Enabled for enable and disable system groups/contexts prefixes.

- Map Packaging Fees to Pricing Conditions and Material Classifications for Spain Plastic Tax updated and Map Packaging Fees to Pricing Conditions for Extended Producer Responsibility Reports to version 1.3.0 with updates:
 - Configuration properties for the mappings now accept multiple mappings comma separated regarding the multiple system changes.
 - Added feature for extension mappings regarding multiple systems.
 - Fixed a minor bug with exception handling.
 - Fixed a bug with gather step.
 - Fixed a bug with content modifier.

- Distribute Pricing Conditions and Material Classifications to Multiple SAP ERP systems is created with version 1.0.0:
 - Created an example template flow for customers with multiple systems, that contains two system groups/contexts which are sending the IDOCs to 3 ERP systems in total.

Date 12-July-2023

1.3.0

- Create Pricing Conditions and Material Classifications to SAP ERP is updated to version 1.2.0 with updates:

- Page Size is limited internally to 500 if a higher value is provided from "Configure"
- Added configuration property Suppliers Enabled - header which will be passed and used in Map Packaging Fees to Pricing Conditions for Extended Producer Responsibility Reports mapping flow.
- Updated setProperties.groovy script to enhance the expand filter with Suppliers if the Suppliers Enabled property is true from "Configure".

- Map Packaging Fees to Pricing Conditions and Material Classifications for Spain Plastic Tax updated to version 1.2.0 with updates:

- Added Filter, Content modifier and an additional sequential multicast to filter out all the packaging fees which have BusinessProcessDirection INBOUND during the replication to SD pricing conditions
- Referenced message mappings are now dynamic. Mappings can now be changed very easily from the "Configure" for MC Mapping, SD Mapping ZEST and SD Mapping ZESP by providing only the ID of desired mapping. By default, properties are prefilled with the IDs from the package.

- Map Packaging Fees to Pricing Conditions for Extended Producer Responsibility Reports is updated to version 1.2.0 with updates:

- Referenced message mappings are now dynamic. Mappings can now be changed very easily from the "Configure" for MM Mapping and SD Mapping by providing only the ID of desired mapping. By default, properties are prefilled with the IDs from the package.
- The script flatSuppliers.groovy has been included to flat suppliers list object when Suppliers are enabled. Within the script, a feature has been implemented to set the total fee as zero for the exclusion filter flag in the supplier object. Additionally, a mechanism has been added to handle the isFallbackFee condition by creating supplier object for the supplier independent table

- Added Filter and content modifier blocks to filter out all the products which have BusinessProcessDirection OUTBOUND during the replication to MM pricing conditions (Filter block in the MM sub-processes)
 - Added Filter and content modifier blocks to filter out all the products which have BusinessProcessDirection INBOUND during the replication to SD pricing conditions (Filter block in the SD sub-processes)
- Material Management Mapping with version 1.0.1 is now deprecated, and it is replaced by Material Management Mapping with version 2.0.0 and ID Material_Management_Supplier_Extended_Mapping which have backwards compatibility and **can work without suppliers** as well
- Material Management Mapping is now released with version 2.0.0 with updates:
- Added new fields to target mapping LIFNR, CONTEXT
 - Added new variables VAKEY_SUPPLIER and VAKEY_INDEPENDANT
 - Added new script for generating VAKEY with whitespaces for Vendor related tables
 - Added new fields to source mapping Context, BusinessProcessDirection, IsFallbackFee and Suppliers with Supplier and IsExcludedFromReportConfiguration

Date 21-Apr-2023

1.2.1

- Map Packaging Fees to Pricing Conditions and Material Classifications for Spain Plastic Tax updated to version 1.1.1 with updates:

Update filterOutDuplicates.groovy script to work with XML message format instead of JSON. Remove all unnecessary XML to JSON and JSON to XML converter blocks from Material Classification convert pack fee to pricing condition sub-process.

Date 23-Mar-2023

1.2.0

- Create Pricing Conditions and Material Classifications to SAP ERP is updated to version 1.1.0 with updates:

- Renamed externalized properties to more user-friendly format
- Added Packaging Fee Extension Enabled configuration property to enable Spain Plastic Tax replication
- IDoc number generator script is improved
- Some configuration properties have default values
- Added user-agent header when fetching packaging fees

- Map Packaging Fees to Pricing Conditions and Material Classifications for Spain Plastic Tax updated to version 1.1.0 with updates:

- Renamed externalized properties to more user-friendly format
- Some configuration properties have default values
- Introduced new additional condition type ZEST to split TotalFee into inhouseProductionChargeableFee and inhouseProductionStatisticalFee for Sales and Distribution
- Fixed issue by sending one IDoc per material (product) for Material Classification
- Added error handling when expand is not enabled, artefact will throw error
- Fixed issue with empty response by adding Set Gather response blocks for MC and SD Convert processes

- Map Packaging Fees to Pricing Conditions for Extended Producer Responsibility Reports updated to version 1.1.0 with updates:

- Rename externalized properties to more user-friendly format
- Fixed issue with empty response by adding Set Gather response blocks for MM and SD Convert processes
- Some configuration properties have default values

- Extracted mappings as Message Mappings artefacts from the Integration Flows.
- Rename the following fields in the mappings:
 - ProductId to Product
 - ReportConigurationId to ReportConfiguration
 - ReportCategoryId to ReportCategory
- Rename the following fields in the mappings and replace them on
 - PackagingFeeExtension level
 - WeightInKg to PlasticWeightInKg
 - NonRecycledPlasticInKG
 - ExemptionCode to Exemptions

Date: 06-Jan-2023

1.1.2

- Map Packaging Fees to Pricing Conditions for Extended Producer Responsibility Reports is updated to version 1.0.1 with minor updates:
 - Mapping for Material Management is renamed due to Unicode typo.

1.1.1

- Create Pricing Conditions and Material Classifications to SAP ERP is updated to version 1.0.1 with minor updates for:
 - All externalized properties are now snake_case
 - Filters for RDP request are now PascalCase
 - Fixed a typo in filters
- Map Packaging Fees to Pricing Conditions and Material Classifications for Spain Plastic Tax is updated to version 1.0.1 with minor updates:
 - For SD KSCHL field in mapping is no longer anonymized
 - Improved mapping for MC and ATWRT field

Date: 13-Dec-2022

1.1.0

- Artifact Create Pricing Conditions for Extended Producer Responsibility Reports with version 1.0.2 is deleted and replaced by Create Pricing Conditions and Material Classifications to SAP ERP with version 1.0.0. which provides extension capabilities:

- Improved delta handling process
- Improved filter criteria. Filling filters is now more user friendly
- Improved mappings

- Introduced two new extension exits:

- Define mappings is now mandatory extension
- Optional extension with router condition is provided for sending mapped response to more than one ERP system

- Introduced two new artifacts as templates for the mandatory mapping extension:

- Map Packaging Fees to Pricing Conditions and Material Classifications for Spain Plastic Tax
- Map Packaging Fees to Pricing Conditions for Extended Producer Responsibility Reports

Date: 29-Nov-2022

1.0.2 Fixes delivered

- Added new field BaseUnitOfMeasureISOCODE to the SD mapping
- Added fallback logic to BaseUnitOfMeasure if BaseUnitOfMeasureISOCODE is empty

Date: 23-Nov-2022

1.0.1 Fixes delivered

- Introduced externalized parameter for locationId
- Filtered request with empty data to SAP ERP

Date: 22-Nov-2022

1.0.0 First version delivered

Artifact: Integration Flow - Create Pricing Conditions for Extended
Producer Responsibility Reports