

Criação de Pedido Spot POC NAM (PT) - CYTEC

Status	
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Stakeholders	

Purpose

The purpose of this document is to define the data conversion approach for creating Pricing Condition Records in the SAP S/4HANA target system, as part of a Greenfield implementation.

In SAP ECC, sales pricing condition records exist as part of the pricing procedure configuration and are stored in condition tables such as KONV, A*, and related master and transactional tables. These records are used to define pricing elements such as base price, discounts, freight, and surcharges across sales documents.

In SAP S/4HANA, the structure and usage of pricing condition records remain largely consistent; however, data models may be simplified, and dependencies on business partners (replacing customer/vendor master records) become critical in ensuring consistency across sales and purchasing functions.

This conversion aims to migrate active and relevant sales pricing condition records from existing ECC systems into S/4HANA by applying required transformation logic using Syniti as the data migration and transformation platform. The converted records will be loaded into the target S/4HANA system using standard SAP mechanisms such as IDOCs, BAPIs, or direct table loads where applicable.

Conversion Scope

The scope of this document includes the end-to-end approach for:

- Extracting existing Pricing Condition Records from SAP ECC systems WP2 and PF2.
- Applying transformation and cleansing logic via Syniti to conform with the S/4HANA data model and business partner framework.
- Loading the transformed condition records into SAP S/4HANA while ensuring data integrity, correct assignment to condition types, condition tables, access sequences, and pricing procedures.

This process will support the migration of condition records such as:

- Base Price (e.g., PR00)
- Discounts (e.g., K007, K004)
- Freight and surcharges

The conversion will ensure all condition records are aligned to the new Pricing Key combinations defined for example, based on Business Partner, Material Masters and relevant Organizational Units (Sales Org, Distribution Channel, Division) as designed for the target S/4HANA landscape.

The data from legacy system includes:

1. List price at various key combinations including scale-based pricing as applicable
2. Discounts and surcharges at various key combinations
3. Freight condition records at various key combinations

The data from legacy system excludes:

1. Tax condition records that will be covered in CONV-1034 Tax condition records spec.
2. Rebate condition records that will be managed via Condition contracts set up

List of source systems and approximate number of records

Source	Scope	Source Approx No. of Records	Target System	Target Approx No. of Records
WP2	Pricing Condition Records		S/4HANA System	
PF2	Pricing Condition Records		S/4HANA System	

Additional Information

Multi-language Requirement

International Version	Description
C	Simplified Chinese
R	Cyrillic
K	Kanji (Japanese)
A	Arabic
3	Korean
T	Thai
H	Hangul

Document Management

Legal Requirement

Special Requirements

Target Design

The technical design of the target for this conversion approach.

Table	Field	Data Element	Field Description	Data Type	Length	Requirement
KONH	KNUMH	KNUMH	Condition Record Number	CHAR	10	Mandatory (Key)
KONH	ERDAT	ERDAT	Created On	DATS	8	Optional
KONH	DATA8	DATA8	Valid From	DATS	8	Mandatory
KONH	DATBI	DATBI	Valid To	DATS	8	Mandatory
KONP	KSCHL	KSCHL	Condition Type	CHAR	4	Mandatory
KONP	KBETR	KBETR	Rate	CURR	11	Mandatory
KONP	KPEIN	KPEIN	Pricing Unit	DEC	5	Mandatory if UoM
KONP	KMEIN	KMEIN	Unit of Measure	UNIT	3	Optional
KONP	WAERS	WAERS	Currency	CUKY	5	Mandatory
KONP	KZBZG	KZBZG	Calculation Type	CHAR	1	Mandatory

Data Cleansing

ID	Criticality	Error Message /Report Description	Rule	Output	Source System
1034-001	C1	Remove obsolete condition records	Eliminate pricing condition records where the material, customer, or condition type is blocked or discontinued.	List of obsolete records	WP2/PF2
1034-002	C1	Validate Customer-Material master data	Ensure pricing condition records refer to valid and active Customer and Material master records.	List of invalid Customer Material combinations	WP2/PF2
1034-003	C1	Remove expired condition records	Delete condition records where validity end date has already passed. Exception the condition records required for open sales orders under migration scope	List of expired records	WP2/PF2
1034-004	C1	Validate mandatory fields	Check for missing mandatory fields (e.g. Condition Value, Currency, UoM, Scale data, Validity dates).	List of incomplete records	WP2/PF2
1034-005	C2	Detect duplicate condition records	Identify and flag duplicate pricing condition records for the same condition type, key combination, and validity period. This is possible as the source is from multiple systems WP2 and PF2	List of duplicate records	WP2/PF2
1034-006	C1	Validate currency consistency	Validate that the currency used in pricing conditions matches the currency allowed for the corresponding sales organization or customer master data.	List of inconsistent currency	WP2/PF2
1034-007	C2	Validate scale data	Identify and correct scale records with inconsistent or overlapping ranges (quantity/value).	List of scale issues	WP2/PF2
1034-008	C1	Validate unit of measure consistency	Validate unit of measure used in pricing conditions aligns with material master base UoM and allowed UoMs.	List of inconsistent UoM records	WP2/PF2

Conversion Process

The high-level process is represented by the diagram below:

? Unknown Attachment

Data Privacy and Sensitivity

Extraction

Extract data from a source into . There are 2 possibilities:

1. The data exists. connects to the source and loads the data into . There are 3 methods:
 - a. Perform full data extraction from relevant tables in the source system(s).
 - b. Perform extraction through the application layer.
 - c. Only if ; cannot connect to the source, data is loaded to the repository from the provided source system extract/report.
2. The data does not exist (or cannot be converted from its current state). The data is manually collected by the business directly in . This is to be conducted using DCT (Data Collection Template) in

The agreed Relevancy criteria is applied to the extracted records to identify the records that are applicable for the Target loads

Extraction Run Sheet

Req #	Requirement Description	Team Responsible

Selection Screen

Selection Ref Screen	Parameter Name	Selection Type	Requirement	Value to be entered/set

Data Collection Template (DCT)

A Target Ready Data Collection Template will be created for the required data, except for fields that need transformation as per the defined transformation rules. These templates will follow the format required by the target S/4HANA pricing configuration.

Each template corresponds to a specific condition table structure, designed to handle data based on the key combinations used for one or more condition types. You can identify the correct template based on the condition type and the relevant sales organizations or entities.

Please find the complete list of Data Collection Templates in the link attached below.

[DCT-CNV-1034-Pricing Condition Records](#)

Please note, creation of Data collection template must be aligned with pricing configurations for Condition types, Access sequence and Associated Condition Tables. For now, the following Template is prepared based on Pricing Configurations from S/4HANA Sandbox environment. This will be replaced once the pricing configuration is ready.

DCT Rules

Field Name	Field Description	Rule
KSCHL	Condition Type	Mandatory. Must be a valid condition type configured in S/4HANA. Use lookup list provided.
Field List Based on Chosen Access Table / Key Combination (Refer to Full Template List Above)		
VKORG	Sales Organization	Mandatory. Must match valid Sales Org values in target system. Only authorized values per scope should be used.
VTWEG	Distribution Channel	Optional based on condition table. Must be valid if provided.
SPART	Division	Optional. Use only if applicable. Validate against S/4HANA master data.
KUNNR	Customer Number	Must be a valid customer number in the S/4HANA master data.

LIFNR	Vendor Number	Use only when condition type applies to vendor. Must match master data.
MATNR	Material Number	Used only for material-based pricing. Should be padded to 18 characters.
WERKS	Plant	Optional. Use only if relevant for the pricing condition.
Mandatory Fields in All DCTs		
KBETR	Condition Rate	Mandatory. Should be numeric. Decimal separator should be "." (e.g., 25.50).
KONWA	Currency	Mandatory. Must be a valid ISO currency code (e.g., USD, EUR).
KPEIN	Pricing Unit	Mandatory. Must be numeric and represent number of units (e.g., 1, 1000).
KMEIN	Unit of Measure	Mandatory. Must match valid UOM from SAP (e.g., EA, KG, L).
DATAB	Valid From Date	Mandatory. Format: YYYYMMDD. Cannot be in the past or beyond system date range.
DATBI	Valid To Date	Mandatory. Format: YYYYMMDD. Must be later than Valid From date.

Extraction Dependencies

Item #	Step Description	Team Responsible

Transformation

The Target fields are mapped to the applicable Legacy field that will be its source, this is a 3-way activity involving the Business, Functional team and Data team. This identifies the transformation activity required to allow to make the data Target ready:

1. Perform value mapping and data transformation rules.
 - a. Legacy values are mapped to the to-be values (this could include a default value)
 - b. Values are transformed according to the rules defined in
2. Prepare target-ready data in the structure and format that is required for loading via prescribed Load Tool. This step also produces the load data ready for business to perform Pre-load Data Validation

Transformation Run Sheet

Item #	Step Description	Team Responsible

Transformation Rules

Rule #	Source system	Source Table	Source Field	Source Description	Target System	Target Table	Target Field	Target Description	Transformation Logic

Transformation Mapping

Mapping Table Name	Mapping Table Description

Transformation Dependencies

List the steps that need to occur before transformation can commence

Item #	Step Description	Team Responsible

Pre-Load Validation

Project Team

Completeness

Task	Action

Accuracy

Task	Action

Business

Completeness

Task	Action

Accuracy

Task	Action

Load

The load process includes:

1. Execute the automated data load into target system using load tool or product the load file if the load must be done manually
2. Once the data is loaded to the target system, it will be extracted and prepared for Post Load Data Validation

Load Run Sheet

Item #	Step Description	Team Responsible

Load Phase and Dependencies

Configuration

Item #	Configuration Item

Conversion Objects

Object #	Preceding Object Conversion Approach
	list the exact title of the conversion object of only the immediate predecessor – this will then confirm the DDD (Data Dependency Diagram)

Error Handling

Error Type	Error Description	Action Taken

Post-Load Validation

Project Team

Completeness

Task	Action

Accuracy

Task	Action

Business

Completeness

Task	Action

Accuracy

Task	Action

Key Assumptions

- Master Data Standard is up to date as on the date of documenting this conversion approach and data load.
- is in scope based on data design and any exception requested by business.

See also

Change log

Version	Published	Changed By	Comment
CURRENT (v. 5)	Jan 12, 2018 18:29	IANA LARA YAN	
v. 4	Jan 12, 2018 18:24	IANA LARA YAN	
v. 3	Jan 12, 2018 18:23	IANA LARA YAN	
v. 2	Jan 12, 2018 18:22	IANA LARA YAN	
v. 1	Jan 12, 2018 18:15	IANA LARA YAN	

Workflow history

Title	Last Updated By	Updated	Status
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There are no pages at the moment.
