

CNV-2015 Material Master Costing View 2

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Purpose

The purpose of this document is to define the conversion approach for the object 2015 - Material Master Costing View 2 in S/4 HANA.

The Costing View 2 of the Material Master holds plant-specific costing parameters used in cost estimates, valuation, and financial planning. It complements Costing View 1 and is critical for materials with BOM/routing-based costing.

The key data maintained in the Costing View 2 of the Material Master is mainly the planned price and the date it is effective from for the relevant material. It is supplementary view and derives most of the information from the Costing View 1 of the Material Master. The fields for maintaining the Planned Prices and applicable dates are part of the table MBEW (Material Valuation)

The Costing View 2 of the Material Master in S4HANA is similar to that of ECC which is defined by the table MBEW however below changes in S4HANA become important considerations for the conversion:

- The Table MBEW is still applicable but due to introduction of Universal Journal, the costing data is integrated
- Material Ledger activation is mandatory in S4HANA even though actual costing for some Company Codes may not be applicable
- The planned prices as stored in MBEW will be dependent upon To Be design and accordingly picked up in the costing runs

In SAP ECC, the costing view 2 is maintained for Materials which are mainly as below

(Reference: PF2 - Approx number of Materials - 4300 where the planned price is maintained)

- Material Ledger is active for the Valuation Area
- The Valuation Classes are as below:
 - Z000 - Main Raw Ma
 - Z100 - Finished Goods Manufacturing
 - Z050 - Other Raw Materials
 - Z051 - Packaging
- The Costing View 2 is also maintained for some other valuation classes and also for materials where ML active indicator is blank.
- Materials with blocked or marked for deletion status
These cases will need to be validated and cleansed as part of the Master Data Services (MDS) process prior to migration.

(Reference: WP2 - Approx number of Materials - 30 where the planned price is maintained)

- Material Ledger is not active for the Valuation Area
- The Valuation Classes are as below:
 - Z100 - CS Raw Materials
 - Z110 - CS Packaging
 - Z130 - Trading Goods
 - Z150 - Finished Products
- Materials with blocked or marked for deletion status
These cases will need to be validated and cleansed as part of the Master Data Services (MDS) process prior to migration.

The target design in S4HANA for maintaining the Planned Prices and effective dates as of now is relevant only for valuation classes pertaining to Raw Materials, Semi Finished and Finished Goods. This will be based on the value mapping of Valuation Classes between source and target.

The converted records will be loaded into the target S/4HANA system as overall load of Material Masters including different view, using standard SAP LTMC for Material Master.

Conversion Scope

The scope of this document covers the approach for converting the costing view 2 of the Material Master from Legacy Source Systems into S/4HANA following the Data Object DD-FUN-050 Master Data Standard_2015-Materials Costing 2. The Planned Prices (Fields MBEW-ZPLP1 to MBEW-ZPLP3 and corresponding dates (Fields MBEW-ZPLD1 to MBEW-ZPLD3) as per the intended design <TBC> will be applicable for only valuation classes pertaining to Raw Materials (Type ROH)

The data from legacy system includes:

1. Active Material Master that are in use (Production or Procurement) -Materials are relevant in table MARA (General Material Data) and MARC (Plant Data for Material)
2. The Materials must exit in table MBEW for Valuation Area (reference table T001K) or Company Code (Reference Table T001) in scope for conversion.

List of source systems and approximate number of records

(Note: Target numbers expected to be lower after cleansing)

Source	Scope	Source Approx No. of Records	Target System	Target Approx No. of Records
PF2	Material Masters as per the above specified relevancy will be extracted from the MBEW table with the prerequisites as mentioned in the inclusion relevancy	4300	S4HANA	4300
WP2	Material Masters as per the above specified relevancy will be extracted from the MBEW table with the prerequisites as mentioned in the inclusion relevancy	40	S4HANA	30

Additional Information

Multi-language Requirement

Not applicable

Document Management

Not applicable

Legal Requirement

Not applicable

Special Requirements

No localization or specific requirements

No third-party system relevant for source

Target Design

The target technical design based on the Master Data Standard for the object 2015 - Material Master Costing View 2 is as follows:

The technical design of the target for this conversion approach.

Table	Field	Data Element	Field Description	Data Type	Length	Requirement
MBEW	MATNR	MATNR	Material Number	CHAR	18	Required
MBEW	BWKEY	BWKEY	Valuation Area	CHAR	4	Required
MBEW	ZPLP1	DZPLP1	Planned Price 1	CURR	13	Conditional
MBEW	ZPLP2	DZPLP2	Planned Price 2	CURR	13	Optional
MBEW	ZPLP3	DZPLP3	Planned Price 3	CURR	13	Optional
MBEW	ZPLD1	DZPLD1	Planned Price 1 date	DATS	8	Conditional
MBEW	ZPLD2	DZPLD2	Planned Price 2 date	DATS	8	Optional
MBEW	ZPLD3	DZPLD3	Planned Price 3 date	DATS	8	Optional

Data Cleansing

The data source will be from PF2 and WF2 systems for the active Company Codes and Plants in scope for S4HANA migration.

1. Data cleansing will be based on the relevancy as defined in Conv Spec 2010 (Materials - General Plant Data / S.Loc Data) and 2019 (Materials – Basic View).

Conversion Process

The generic high-level process for the conversion is as below:

1. Extraction:
 - a. Extract from the source systems: Apply the selection parameters and data relevancy as mentioned in this specification, from the relevant tables
 - b. DCT: The DCT to be prepared if the data to be transformed and is part of the load file is not available in the Source system
2. Transform
 - a. Transform fields by applying the fields and value mapping in the Syniti
 - b. Generate and validate Pre-load files
3. Load
 - a. Load the validated Pre-load file using SAP's LTMC or the custom upload program as applicable.

For the object 2015 - Material Master, Costing View 2, the extraction is from MBEW table and the transformation will happen in Syniti as part of overall material master data and will be loaded in the target using LTMC.

Data Privacy and Sensitivity

Not applicable except materials having export control.

Extraction

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

1. The data exists. Syniti connects to the source and loads the data into Syniti. 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 Syniti 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 Syniti. This is to be conducted using DCT (Data Collection Template) in Syniti.

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
01	Extract from MBEW all MATNR (material masters) where MBEW-ZPLP1 or MBEW-ZPLP2 or MBEW-ZPLP3 is not equal to blank	Syniti Team
02	Extract from MBEW is by valuation area (BWKEY) in scope for migration	Syniti Team
03	Extract from table MBEW all MATNR (material masters) for the in-scope materials defined in conversion specifications 2010 (Materials - General Plant Data / S.Loc Data) and 2019 (Materials – Basic View).	Syniti Team

Selection Screen

Selection Ref Screen	Parameter Name	Selection Type	Requirement	Value to be entered/set
SE16N Table MBEW	Material (MATNR)			Leave blank
SE16N Table MBEW	Valuation Area (BWKEY)	Multiple		Enter the legacy Valuation Areas (Plant)
SE16N Table MBEW	Planned Price 1 (ZPLP1)	Selective		"Select not equal" Value to be entered: Blank
SE16N Table MBEW	Planned Price 2 (ZPLP2)	Selective	To be extracted after Extraction done for ZPLP1	"Select not equal" Value to be entered: Blank
SE16N Table MBEW	Planned Price 3 (ZPLP2)	Selective	To be extracted after Extractions done for ZPLP1 and ZPLP2	"Select not equal" Value to be entered: Blank

Data Collection Template (DCT)

Target Ready Data Collection Template will be created for Object 2014 Material Master - Accounting View 2 data with exception of some fields which require transformation as mentioned in the transformation rule. (only for enrichment, as of now this is a provision for DCT)

2015 - Material Master 2 Costing View
DCT Rules

Field Name	Field description	Rule
MBEW-MATNR	Material	This is a required field Material Number for which Price needs to be maintained
MBEW-BWKEY	Valuation Area	This is a required field Business to enter Plant of the Material
MBEW-ZPLP1	Planned Price 1	This is an optional field Business to enter Planned price 1 if relevant for the costing run.
MBEW-ZPLP2	Planned Price 2	This is an optional field Business to enter Planned price 2 if relevant for the costing run.
MBEW-ZPLP3	Planned Price 3	This is an optional field Business to enter Planned price 3 if relevant for the costing run.
MBEW-ZPLD1	Planned Price 1 Date	This is an optional field Business to enter Planned price Date 1 if relevant for the costing run.
MBEW-ZPLD2	Planned Price 2 Date	This is an optional field Business to enter Planned price Date 2 if relevant for the costing run.
MBEW-ZPLD3	Planned Price 3 Date	This is an optional field Business to enter Planned price Date 3 if relevant for the costing run.

Extraction Dependencies

Item #	Step Description	Team Responsible
01	Extract from MBEW as per the selection parameters mentioned in the selection screen section with the given sequence	Synity/Data team
02	For the Dress Rehearsals and Actual Cutover, the month end activities including the costing run in the PF2 and WP2 for the in-scope Plants/company code should be completed	Business Users

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
01	Prepare Load files with the necessary rules and including the value mapping.	Syniti / S2P Team
02	Validate the loading with the Business as per GBU reports	S2P, R2R Data Team

Transformation Rules for extraction

Rule #	Source system	Source Table	Source Field	Source Description	Target System	Target Table	Target Field	Target Description	Transformation Logic
01	PF2/WP2	MBEW	MATNR	Material	S4HANA	MBEW	MATNR	Material	XREF of the materials loaded before as part of basic view
02	PF2/WP2	MBEW	BWKEY	Valuation Area	S4HANA	MBEW	BWKEY	Valuation Area	Value Mapping for Valuation Area/ Valuation Class
03	PF2/WP2	MBEW	ZPLP1	Plan Price 1	S4HANA	MBEW	ZPLP1	Plan Price 1	As per ECC as on the date of cutover
04	PF2/WP2	MBEW	ZPLP2	Plan Price 2	S4HANA	MBEW	ZPLP2	Plan Price 2	As per ECC as on the date of cutover
05	PF2/WP2	MBEW	ZPLP3	Plan Price 3	S4HANA	MBEW	ZPLP3	Plan Price 3	As per ECC as on the date of cutover
06	PF2/WP2	MBEW	ZPLD1	Plan Price Date 1	S4HANA	MBEW	ZPLD1	Plan Price Date 1	As per ECC as on the date of cutover
07	PF2/WP2	MBEW	ZPLP2	Plan Price Date 2	S4HANA	MBEW	ZPLP2	Plan Price Date 2	As per ECC as on the date of cutover
08	PF2/WP2	MBEW	ZPLP3	Plan Price Date 3	S4HANA	MBEW	ZPLP3	Plan Price Date 3	As per ECC as on the date of cutover

Transformation Rules for DCT

Rule #	Source system	Source Table	Source Field	Source Description	Target System	Target Table	Target Field	Target Description	Transformation Logic
01	Construct	NA	NA	NA	S4HANA	MBEW	MATNR	Material	As per DCT This is a required field
02	Construct	NA	NA	NA	S4HANA	MBEW	BWKEY	Valuation Area	As per DCT This is a required field
03	Construct	NA	NA	NA	S4HANA	MBEW	ZPLP1	Plan Price 1	As per DCT This is an optional field
04	Construct	NA	NA	NA	S4HANA	MBEW	ZPLP2	Plan Price 2	As per DCT This is an optional field
05	Construct	NA	NA	NA	S4HANA	MBEW	ZPLP3	Plan Price 3	As per DCT This is an optional field
06	Construct	NA	NA	NA	S4HANA	MBEW	ZPLD1	Plan Price Date 1	As per DCT This is an optional field
07	Construct	NA	NA	NA	S4HANA	MBEW	ZPLP2	Plan Price Date 2	As per DCT This is an optional field
08	Construct	NA	NA	NA	S4HANA	MBEW	ZPLP3	Plan Price Date 3	As per DCT This is an optional field

Transformation Mapping

Mapping Table Name	Mapping Table Description
Valuation Class Field BKLAS	The mapping table for Source and Target values
Valuation Area Field BWKEY	The mapping table for Source and Target values

Material	Old vs New Material Number. Based on the mapping table for MARA
Field MATNR	

Transformation Dependencies

List the steps that need to occur before transformation can commence

Item #	Step Description	Team Responsible
01	Ensure all the fields that require value mapping, as stipulated Mapping tables, have the latest signed-off mapping files imported into Syniti	Data Team
02	Ensure that signed off value mappings have been maintained in the Syniti	Syniti team
03	Confirm the value mappings as maintained in the Syniti	Data team
04	Confirm on the extracted values	Syniti, Data and business

Pre-Load Validation

Project Team

The Pre Load validations are performed by Project Team

Completeness

Task	Action
Date Team Validates the Pre Load File	- Data team does the initial validation of Pre-Load validation based on the pre agreed validation checklist - To send the Pre-Load file to the Business Representatives for all plants/valuation area in scope for conversion
Business Validates the Pre Load File	- Business Representatives to validate the pre-load file - Agree with data team on the next steps for erroneous records
Count before and after	- To do count check before and after transformation - Establish exception rules and get approval, if applicable

Accuracy

Task	Action
Field-level checks	Ensure mandatory fields are populated and formatted correctly
Integration /Reference checks	Validate links to tables MARA, MARC, and valuation classes in T025
Business Value Checks	- Standard Price (STPRS) must be > 0 for price-controlled materials - Total Value (SALK3) must be >0 (above checks are to be done for overall accounting and costing views of the material master)
Records in Errors	Review and correct the errors. Achieve a zero-error record count as much as possible. Raise defects for data remediated and requiring a correction in the source data.

Business

The following pre-load validations will be performed by business.

Completeness

Task	Action
Check Data load register count	Business Data Owner/s to verify that the total number of relevant records to be converted is equal to the total number of records in the Preload file and Load Sheets.

Accuracy

Task	Action
Data owners to grant that the records in the load files are okay and according with the rules and mappings	To check and validate the load files with all the transformation and mapping rules, to be signed off.

Load

The load process includes:

1. Execute the automated data load into target system using load tool which is LTMC.
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
1	Go to load file and pick 5 data records, load manually without any tool. See what happens. If all okay, proceed with the next step.	S2P/R2R Data Team
2	Go to load file and pick 10 records and load them with the tool. No action if the previous step has fallen. If not, then continue to load 10 records with the tool. Check if everything went okay.	S2P/R2R Data Team
3	Proceed with the full load if steps one and two were succeed.	S2P/R2R Data Team
4	Validate few records loaded by accessing standard transactions from S/4HNA e.g. MM03	S2P/R2R Data Team
5	Generate post load report if step 5 is validated	S2P/R2R Data Team

Load Phase and Dependencies

The load phase for this object is ideally relevant for Pre-Cutover. TBC by S2P team.

Configuration

Below configurations/master data should be available for this object to be loaded successfully

Item #	Configuration Item
1	Plants (WERKS) should exist

2	Company Codes (BUKRS) should exist
3	Valuation Class (BKLAS) should exist
4	Material Type Configuration
5	Material Master Basic View
6	Profit Centre Master data

Conversion Objects

Object #	Preceding Object Conversion Approach
2019	Materials Basic View
2012	Materials Accounting View 1
2013	Materials Costing View 1
2014	Materials Accounting View 2

Error Handling

Error Type	Error Description	Action Taken
Master Data error	No Costing View for Material Cause- The material master lacks a maintained Costing View for the specified plant	Maintain a costing view for the material in the plant /valuation area
Master Data error	Costing View Exists but Incomplete Cause - Costing View is present but missing key fields like valuation class or costing lot size.	Validate the material master and maintain the requisite field

Post-Load Validation

Project Team

Completeness

Task	Action
Check Data Records count	Count and check how many records were loaded vs. Records in the load file (Each mock has it's own data record count)

Accuracy

Task	Action
Check Data loading tool log	Check whether after the loading process, any logs from the tool, to verify them and take actions

Business

Completeness

Task	Action
Check Data load register count	Download Post Load Reports from The Tool and verify that the record count loaded in the target S/4 HANA is the same count as of the endorsed load file.

Accuracy

Task	Action
Check Error log from the loading tool	Check whether after the loading process, any logs from the tool, to verify them and take actions

Key Assumptions

- Master Data Standard is up to date as on the date of documenting this conversion approach and data load.
- Data object 2015 is in scope based on data design and any exception requested by business.
- The load for this object will be performed along with/ as parr of overall Material Master Load

See also

Change log

Version	Published	Changed By	Comment
CURRENT (v. 35)	Feb 24, 2026 15:50	GANESAN-ext, Shivkumar	
v. 34	Feb 12, 2026 14:34	GANESAN-ext, Shivkumar	
v. 33	Feb 06, 2026 13:06	GANESAN-ext, Shivkumar	
v. 32	Feb 04, 2026 23:45	GANESAN-ext, Shivkumar	
v. 31	Oct 07, 2025 12:54	BAJAJ-ext, Manoj	
v. 30	Oct 07, 2025 12:21	BAJAJ-ext, Manoj	
v. 29	Oct 07, 2025 12:17	BAJAJ-ext, Manoj	
v. 28	Oct 03, 2025 12:50	BAJAJ-ext, Manoj	
v. 27	Oct 03, 2025 12:40	BAJAJ-ext, Manoj	
v. 26	Oct 03, 2025 12:38	GARCIA-ext, Angel Luis	

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Workflow history

This view shows the 5 most recent entries. The complete workflow log is available from the 'Document Activity' menu item.

Mar 24, 2026	Actor	Type	Activity	Version
Approved	 NAVANDAR-ext, Divya	State	changed state to Approved at 3:30 pm	v35
Lead Approval	 NAVANDAR-ext, Divya	State	changed expiry date to '31 Mar, 2026 02:30 pm' at 3:30 pm	
		State	gave <i>Minor change</i> approval at 3:30 pm	
		State	changed state to Lead Approval at 3:30 pm	v35
Tech Review	 NAVANDAR-ext, Divya	State	gave <i>Syniti Team Review</i> approval at 3:30 pm	
		State	changed expiry date to '29 Mar, 2026 02:30 pm' at 3:30 pm	
		State	changed state to Tech Review at 3:30 pm	v35
Pending adjustment	 NAVANDAR-ext, Divya	State	changed state to Pending adjustment at 3:30 pm	v35
Revision under Review	 NAVANDAR-ext, Divya	State	gave <i>Minor change</i> rejection at 3:30 pm	
		State	changed state to Revision under Review at 3:30 pm	v35