

CNV-2028 WM Packaging (EWM)

Status	Approved
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Stakeholders	

Purpose

The purpose of this document is to define the conversion approach for migrating **Material Master WM Packaging fields** (MARA-HUTYP and MARA-HUTYP_DFLT) from legacy SAP systems into **S/4HANA**.

These fields are critical for **handling unit management and packaging processes** in Warehouse Management (WM) and Extended Warehouse Management (EWM). Accurate migration ensures that products are assigned the correct Handling Unit Type and Default HU Type, which directly impacts packing, storage, and goods movement processes.

Conversion Scope

The scope of this document covers the approach for converting active WM Execution View from Legacy Source Systems into S/4HANA following the [D-FUN-050 Master Data Standard - WM Execution](#) Master Data Design Standard.

Included:

- Active materials (>3 years) with packaging relevance
- Materials used in HU-managed storage types or EWM processes
- HU Type (MARA-HUTYP) and Default HU Type (MARA-HUTYP_DFLT)

Excluded:

- Materials flagged for deletion
- Obsolete, inactive, or blocked materials
- Non-HU relevant materials

Source Systems and Record Volumes

Source System	Approx. Records Extracted	Target System	Approx. Records After Cleansing
Legacy SAP (PF2)	TBD	S/4HANA	TBD
Legacy SAP (WP2)	TBD	S/4HANA	TBD

Additional Information

Multi-language Requirement

Document Management

Legal Requirement

Special Requirements

Target Design

Table	Field	Data Element	Field Description	Data Type	Length	Requirement
MARA	HUTYP	HUTYP	Handling Unit Type	CHAR	4	Mandatory for HU-managed materials
MARA	HUTYP_DFLT	HUTYP_DFLT	Default Handling Unit Type	CHAR	4	Mandatory if default HU is required

Design Notes:

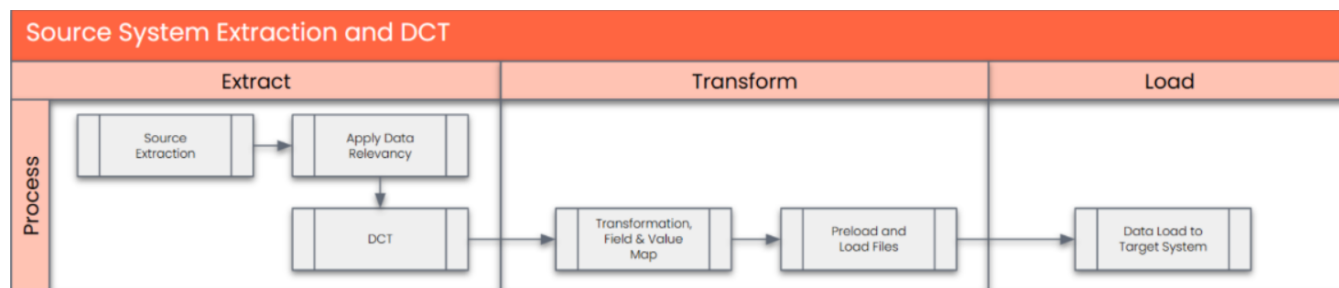
- HU Types must be configured in target system (T331).
- Fields are client-level (not plant-dependent).
- If legacy data is missing HUTYP_DFLT, business defaults will be applied.

Data Cleansing

N/A

Conversion Process

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



The high-level process is the same as defined for other material master objects:

1. Transformation (via Syniti)

- Apply mapping rules (Legacy HU Type Target HU Type).
- Default missing values where necessary.
- Validate against S/4 HU customizing.

2. Load (via SAP Migration Cockpit, Staging Tables)

- Populate Material migration object in Migration Cockpit with HU fields.
- Sequence: load HU customizing first, then material master with HU fields.

3. Validation

- Pre-load: confirm HU mapping completeness.
- Post-load: sample verification in S/4 (MM03/Display Material).

Extraction

N/A

Data Collection Template (DCT)

A **Target Ready Data Collection Template** will be created for WM Packaging fields to handle missing or exception values.

DCT Rules

Field Name	Field Description	Rule	Description
Material Number	Unique material identifier	Must follow material mapping agreed for S /4HANA	Material Number – Identifies the specific product for which WM packaging settings are maintained.
Handling Unit Type (HUTYP)	Packaging handling unit type	Copy	Handling Unit Type – Specifies the type of handling unit (e.g., pallet, carton, container) used when the product is packed in WM
Default HU Type (HUTYP_DFLT)	Default packaging HU type	Copy	Default Handling Unit Type – Defines the preferred or automatically proposed HU type for the product during WM processes such as putaway, picking, or repacking.

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 Rules

Rule #	Source System	Source Table	Source Field	Target System	Target Table	Target Field	Transformation Logic
1	PF2/WP2	MARA	HUTYP	S/4HANA	MARA	HUTYP	Copy
2	PF2/WP2	MARA	HUTYP_DFLT	S/4HANA	MARA	HUTYP_DFLT	Copy

Transformation Mapping

The transformation step ensures that all **Handling Unit fields** (MARA-HUTYP, MARA-HUTYP_DFLT) from the legacy system are properly mapped and validated against the target design in S/4HANA.

Key Considerations

1. **Data Integrity Checks**
 - Ensure that no material is left without a valid HU Type.
 - Validate that all new material numbers used as target keys exist in the master material mapping table before load.

Transformation Dependencies

List the steps that need to occur before transformation can commence

- HU Types must exist in S/4 (T331) before load.
- Materials must be created first (basic data) before updating HU fields.
- Conversion sequencing aligned with overall Material Master load (Basic Data Packaging Plant/WM data).

Pre-Load Validation

Project Team Responsibilities

- **Completeness:** Ensure all materials have populated HU fields before load.
- **Accuracy:** Cross-check HU Types against target customizing.

Business Responsibilities

- **Completeness:** Confirm that all business-relevant materials are included.
- **Accuracy:** Validate that assigned HU Types are correct and align with packaging standard

Load

Load Run Sheet

Item #	Step Description	Team Responsible
1	Execute automated data load via Migration Cockpit staging tables	Data Team
2	Extract post-load data from S/4HANA for verification	Project Team

Load Phase and Dependencies

Configuration Prerequisites:

- HU Types configured in T331.

Conversion Object Dependencies:

- Predecessor: **Material Master – Basic Data**.
- Successor: Plant/WM views (if applicable).

Error Handling

Error Type	Description	Action
Mapping Error	HU Type not found in target customizing	Update mapping table or request config update
Data Error	Missing or invalid HU values	Default or cleanse via Syniti
Load Error	MARA lock due to prior load	Schedule delta load

Post-Load Validation

Project Team:

- **Completeness:** Compare load counts (source vs target).
- **Accuracy:** Run spot-checks in S/4 (MM03, Packaging tab).

Business Team:

- **Completeness:** Confirm all expected materials have HU data.
- **Accuracy:** Validate default HU Types function correctly during inbound/outbound processes.

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.
- HU Types are fully configured in target S/4 system before migration.
- Only active, HU-relevant materials are in scope.
- Syniti mappings are signed off by business before load.
- Migration Cockpit is the standard tool for loading data into S/4.
- Cutover strategy may require delta load for newly created/updated materials.

See also

Change log

Version	Published	Changed By	Comment
CURRENT (v. 13)	Dec 02, 2025 04:29	HASSAN-ext, Shamir	
v. 12	Nov 18, 2025 17:18	HASSAN-ext, Shamir	
v. 11	Nov 17, 2025 21:48	HASSAN-ext, Shamir	
v. 10	Nov 05, 2025 07:58	HASSAN-ext, Shamir	
v. 9	Oct 28, 2025 12:58	HASSAN-ext, Shamir	
v. 8	Oct 27, 2025 07:56	HASSAN-ext, Shamir	
v. 7	Oct 03, 2025 13:14	RAYUDU-ext, Narasimha Kumar	
v. 6	Oct 03, 2025 13:13	RAYUDU-ext, Narasimha Kumar	
v. 5	Sept 08, 2025 23:02	HASSAN-ext, Shamir	
v. 4	Sept 08, 2025 22:56	HASSAN-ext, Shamir	

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Workflow history

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

Workflow history

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

Mar 17, 2026	Actor	Type	Activity	Version
Approved	 TAN-ext, Charmaine	State	changed state to Approved at 8:17 am (State override) <i>[PMO Comments] Conversion Spec completed as per CS register and functional review completed</i>	v13
Lead Approval	 TAN-ext, Charmaine	State	gave <i>Minor change</i> approval at 8:17 am <i>[PMO Comments] Conversion Spec completed as per CS register and functional review completed</i>	
Feb 27, 2026				
	 MCARDLE-ext, Edward	State	changed expiry date to '06 Mar, 2026 04:09 pm' at 4:09 pm	
		State	changed state to Lead Approval at 4:09 pm	v13
Edited following Tech Review	 MCARDLE-ext, Edward	State	gave <i>Minor change</i> approval at 4:09 pm	

Dec 02, 2025



HASSAN-
ext, Shamir

Edit

updated the page at 4:29 am

State

changed state to [Edited following Tech Review](#) at 3:29 am

[v13](#)