

CNV-2009 Material Master QM view

Status	Approved
Owner	SUSANTO-ext, William
Stakeholders	GERVAIS, Pascal NICASTRI-ext, Michele

Purpose

The purpose of this document is to define the conversion approach to create Conversion Specification Document CNV-2009 Material Master – QM View in S/4HANA.

The QM View in the Material Master contains quality-related settings that control how a material is handled in Quality Management processes. These settings include inspection types (e.g., goods receipt, in-process, delivery), quality control keys, certificate requirements, preferred inspection plans or material specifications, and the status of quality management activation for the material. Maintaining the QM View ensures that materials are consistently subjected to the correct inspection processes during procurement, production, and sales.

In SAP S/4HANA, the structure and usage of the Material Master QM View remain consistent with SAP ECC. The QM View is defined by material (MARA-MATNR), plant (MARC-WERKS), and the associated quality-related fields. These include inspection setup (QMAT), inspection types (QMAT-ART), active status, and assignment of task lists or material specifications.

In SAP ECC, aside from the standard fields, additional legacy configurations may exist, such as:

- Materials with obsolete inspection types still marked in the QM View.
- Materials assigned to inspection types without corresponding inspection plans or specifications.
- Redundant or duplicate plant-level QM settings for the same material.
- Materials with blocked or obsolete quality control keys.

These cases will need to be validated and cleansed as part of the Master Data Services (MDS) process prior to migration.

This conversion aims to migrate active and relevant Material Master QM View data from existing ECC systems into S/4HANA by applying the 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 BAPIs (e.g., BAPI_OBJCL_CREATE or BAPI_MATERIAL_SAVEDATA), IDOCs, or direct table loads where applicable, ensuring that all materials in scope have consistent and accurate QM-related setup in the target system.

Conversion Scope

The scope of this document covers the approach for converting active Conversion Specification 2009 Material Master – QM View data from Legacy Source Systems into S/4HANA following the [MDS-2009 Material Master QM View Design Standard](#).

From the current system landscape, Material Master QM View data exists separately in the legacy systems (PF2 and WP2), with potential discrepancies in both systems. Harmonization and validation are required to ensure accurate and consolidated data in S/4HANA. While PF2 and WP2 serve as source systems, extensive mapping and transformation logic will be necessary to produce properly formatted load templates in line with the target design.

The data from legacy system includes:

1. The migration of Material Master – QM View will be governed by the Material Relevancy Criteria (aligned with [CNV-2019 Materials - Basic Data View](#) and [CNV-2010 Materials - General Plant Data / S.Loc Data](#)), which serves as the foundational rule for identifying and including QM data that is valid, active, and business-relevant for conversion to S/4HANA. The Data Relevancy logic defined in CNV-2019 – Material Master (Basic Views) shall be applied.
Additionally, the Plant/Material Relevancy logic from CNV-2010 – Materials (General Plant Storage Location Views) must be used for consistency and alignment across objects.
2. QM Views without deletion flags, ensuring only valid and relevant records are migrated.
3. QM Views assigned to in-scope plants, based on the To-Be Plant Mapping (considering new plant definitions).
4. Materials with at least one valid and active inspection type in Syensqo (e.g., 01, 02, 04, 05, 06, 08, 10, 11, 12, 17).
5. Materials with valid control key, inspection setup, and certificate requirement, consistent with the S/4HANA target design.
6. QM master data linked to active materials and plants in scope, ensuring alignment with migrated Material Master data.

The data from legacy system excludes:

1. Inactive QM Views for materials not used in inspection lots or quality processes within the last four (4) years.
2. QM Views marked for deletion or with inspection types blocked in ECC.
3. QM Views belonging to plants that are deleted or out of scope, based on the To-Be Plant Mapping.
4. Obsolete or invalid inspection types or inspection setup not supported in S/4HANA.

Relevancy rules

1. Material/Plant with history and active usage
Materials must be defined at both global level (MARA) and plant level (MARC) with valid status and assignment to active in-scope plants. Only materials with active QM View (MARC-PSTAT="Q" and MARC-QMATV = "X") are considered relevant. In addition, QM View relevancy must be aligned with Material Master Basic Views (CNV-2019) to ensure consistent dependency with MARA-level relevancy.
2. Active Inspection Types
Only materials with at least one valid and active inspection type (e.g., 01, 02, 03, 04, 05, 06, 08, 10, 11, 12, 17) maintained in QMAT table and linked to relevant plants will be considered in scope.

3. Inspection Setup with Valid Usage
Inspection types must be relevant to in-scope Syensqo business processes (e.g., Goods Receipt, In-Process, Delivery). Materials without any active inspection usage in the last four (4) years will be excluded.
4. Plant-Specific Validation
Materials with QM View will be checked against active plant mappings (To-Be Plant Definition) to ensure that only valid, active plants are considered for migration.

Material/Plant active with four (4) years inspection usage history validates active QM View (QMAT) with at least one valid inspection type (e.g., 01, 04, 09) confirms Control Key, Certificate Type, and Q-Score alignment with configuration ensures accurate integration with incoming inspection and quality processes in S/4HANA.

Plant Merging

Plants will be harmonized based on the To-Be Plant Mapping. As some legacy plants will be merged into one target plant, QM Views will be reassigned accordingly to ensure data consistency and alignment with the new plant structure in SAP S/4HANA.

List of source systems and approximate number of records

Source	Scope	Source Approx No. of Records	Target System	Target Approx No. of Records
PF2/WP2	<p>Material Master QM views will be extracted from source systems.</p> <p>An initial extract of the relevant data will be provided in Google Sheet format to assist business in decision making on including any relevant data from Source Systems.</p>	<p>PF2 Total Material with QM View = 28639 records Filtered by In-Scope Plant = 10 records By Inspection type (Active & Inactive) = 22 records By Active Inspection type only = 19 records</p> <p>WP2 Total Material with QM View = 89179 records Filtered by In-Scope Plant = 34211 records By Inspection type (Active & Inactive) = 96785 records By Active Inspection type only = 91768 records</p>	S4 HANA	91787 records

Additional Information

Multi-language Requirement

Not applicable

Document Management

Not applicable

Legal Requirement

Not applicable

Special Requirements

Not applicable

Target Design

Inspection Plan strictly adheres to the Master Data Standard. The complete information of the tables and key fields that hold the Inspection Plan information follows the Master Data Standard document.

The technical design of the target for this conversion approach:

Table	Field	Data Element	Field Description	Data Type	Length	Requirement
MARA	QMPUR	QMPUR	QM in Procurement is Active	CHAR	1	C
MARC	INSMK	INSMK	Stock Type for Quality Inspection	CHAR	1	C
MARC	KZDKZ	KZDKZ	Document Required	CHAR	1	NU

MARC	MATNR	MATNR	Material Number	CHAR	18	R
MARC	PRFRQ	PRFRQ	Inspection Interval	CHAR	3	C
MARC	QMATA	QMATA	QM Material Authorization	CHAR	1	C
MARC	QZGTP	QZGTP	Certificate Type	CHAR	4	C
MARC	SSQSS	SSQSS	QM Procurement Key	CHAR	2	C
MARC	WEBAZ	WEBAZ	GR Processing Time	CHAR	3	C
MARC	WERKS	WERKS_D	Plant	CHAR	4	R
QMAT	AFR	AFR	Inspection for Handling Unit	CHAR	1	C
QMAT	AKTIV	AKTIV	Active Indicator for Inspection Type	CHAR	1	C
QMAT	APA	APA	Preferred Inspection Type	CHAR	4	C
QMAT	APP	APP	Automatic Assignment	CHAR	1	R
QMAT	ART	ART	Inspection Setup Indicator	CHAR	1	C
QMAT	AVE	AVE	Automatic UD	CHAR	1	C
QMAT	CHG	CHG	Control of Inspection Lot	CHAR	1	R
QMAT	DYN	DYN	Skip Allowed	CHAR	1	NU
QMAT	INSMK	INSMK	Post to Inspection Stock	CHAR	1	C
QMAT	MER	MER	Check Chars	CHAR	1	NU
QMAT	MPDAU	MPDAU	Average Inspection Duration	NUMC	3	C
QMAT	PPL	PPL	Inspection with Task List	CHAR	1	R
QMAT	QKZVERF	QKZVERF	Q-Score Procedure	CHAR	1	NU

Data Cleansing

All data cleansing activities must be performed in the source systems (e.g., PF2, WP2) wherever possible, following the rules and criteria defined in this document. The objective is to ensure that only valid, active, and relevant master data is migrated to S/4HANA, while obsolete, redundant, or inconsistent records are excluded.

If certain data cleansing activities cannot be executed directly in the source systems due to system limitations, they may be managed externally (e.g., using Syniti Migrate, 3rd Party Vendor tools, or DCT processes). In such cases, proper documentation of the cleansing activity must be maintained and appended to this deliverable to support review, validation, and sign-off by stakeholders.

ID	Criticality	Error Message /Report Description	Rule	Output	Source System
2009-001	C1	Obsolete material with QM View extension	Materials with an active QM View must have at least one valid and active inspection type assigned to ensure the QM View remains functionally relevant. (MARC-PSTAT contains *Q* but QMTAV<->'X')	Inspection type	PF/WP2

Conversion Process

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

The ETL (Extract, Transform, Load) process is a structured approach to data migration and management, ensuring high-quality data is seamlessly transferred across systems. Here's a breakdown of its key components:

1. Extraction

The process begins with extracting metadata and raw data from source systems, such as Syensqo ECC system (i.e. WP2/PF2) periodically. The extracted data is then staged for transformation.

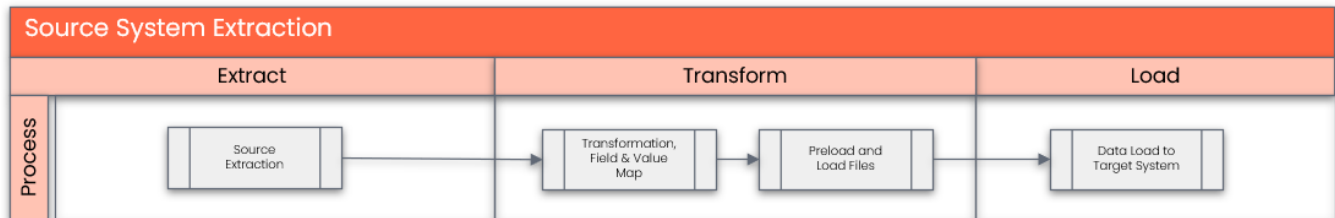
2. Transformation

Once extracted, the data undergoes cleansing, consolidation, and governance. This step ensures data integrity, consistency, and compliance with business rules. The transformation process includes:

- Data validation to remove inconsistencies.
- Standardization to align formats across datasets.
- Business rule application to refine data for operational use.

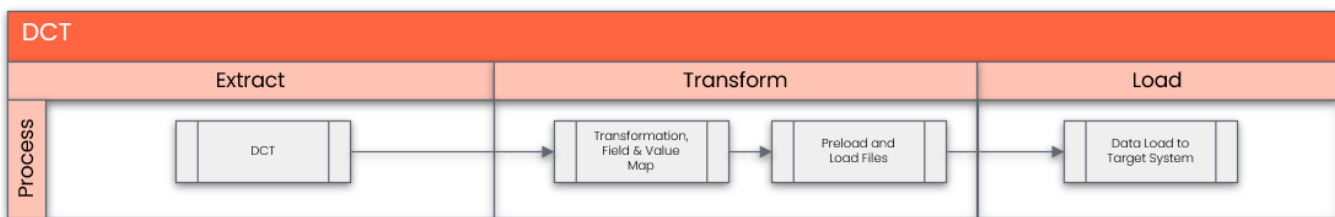
3. Loading

The transformed data is then loaded into the target S/4HANA system.



For sites that are not on SAP-PF2 and WP2 systems, collection will be done manually in the data collection template.

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



Data Privacy and Sensitivity

Not applicable

Extraction

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

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

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
Extraction Scope Definition	<ul style="list-style-type: none"> - Identify the source systems and databases involved. - Define the data objects (tables, fields, records) to be extracted. - Establish business rules for data selection. 	Syniti /P2F Data team
Extraction Methodology	<ul style="list-style-type: none"> - Specify the extraction approach (full, incremental, or delta extraction). - Determine the tools and technologies used. - Define data filtering criteria to exclude irrelevant records. 	Syniti
Extraction Execution Plan	<ul style="list-style-type: none"> - Establish execution timelines and batch processing schedules. - Assign responsibilities for extraction monitoring. - Document dependencies on other migration tasks. 	Syniti

Data Quality and Validation	- Define error handling mechanisms for extraction failures.	Syniti
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Selection Screen

Not applicable

Data Collection Template (DCT)

The Data Collection Template (DCT) will not be applicable in this case. If there is a need to create a new Master Data (MD) for Material BOM object, the business must perform this activity in the source system. The newly created object will then be captured and migrated as part of the standard migration process.

Extraction Dependencies

Before data extraction can commence, several **prerequisite steps and conditions** must be met to ensure a smooth and accurate extraction process. These dependencies involve confirming system readiness, validating data structures, and ensuring that appropriate access rights and credentials are in place.

Each step must be clearly defined, assigned to responsible teams, and completed prior to extraction activities. Proper coordination across stakeholders is required to mitigate risks and avoid delays in the migration timeline.

Item #	Step Description	Team Responsible
1	Source System Availability <ul style="list-style-type: none"> Ensure that the source database or application is accessible. Confirm that necessary credentials and permissions are granted 	Syensqo IT
2	Data Structure <ul style="list-style-type: none"> Identify relationships between tables, views, and stored procedures. 	Syniti
3	Referential Integrity <ul style="list-style-type: none"> Ensure dependent records are extracted together. 	Syniti
4	Extraction Methodology <ul style="list-style-type: none"> Define whether extraction is full, incremental, or delta-based. Establish batch processing schedules for large datasets. 	Syniti
5	Performance and Scalability Considerations <ul style="list-style-type: none"> Optimize extraction queries to prevent system overload. Ensure network bandwidth supports data transfer volumes. 	Syniti
6	Security and Compliance <ul style="list-style-type: none"> Adhere to regulatory standards for sensitive information if applicable 	Syniti
7	Data cleansing of legacy Resource <p>If standardization within the DCT begins using relevant data from PF2 and WP2 before the cleansing is finalized, it is understood that the business will take due diligence to ensure any subsequent delta cleansing is verified and aligned within the DCT.</p>	Business

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
1	Obtain DCT Sign-off from Business	SyWay Data Team
2	<Add steps from Syniti Migrate here>	SyWay Data Team
3	Review and Validate Error and Preload Reports	SyWay Data Team
4	Generate Load Files	SyWay Data Team

Transformation Rules

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)
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Rule #	Source system	Source Table	Source Field	Source Description	Target System	Target Table	Target Field	Target Description	Transformation Logic
1	PF2/WP2	MARC	MATNR	Material	S/4HANA	MARC	MATNR	Material	Legacy Material Number mapped to new S/4HANA Material Number per Material Master mapping file
2	PF2/WP2	MARC	WERKS	Plant	S/4HANA	MARC	WERKS	Plant	Map legacy Plant to new S/4HANA Plant per To-Be Plant Mapping table
3	PF2/WP2	MARA	QMPUR	QM in Procurement is Active	S/4HANA	MARA	QMPUR	QM in Procurement is Active	Transfer directly; must match QM Procurement activation setting in target system.
4	PF2/WP2	MARC	INSMK	Stock Type for Quality Inspection	S/4HANA	MARC	INSMK	Stock Type for Quality Inspection	Transfer directly; must match valid stock type configuration in S/4HANA.
5	PF2/WP2	MARC	PRFRQ	Inspection Interval	S/4HANA	MARC	PRFRQ	Inspection Interval	Transfer directly; numeric interval must be valid in target system.
6	PF2/WP2	MARC	QMATA	QM Material Authorization	S/4HANA	MARC	QMATA	QM Material Authorization	Transfer directly; only if authorization is active in source.
7	PF2/WP2	MARC	QZGTP	Certificate Type	S/4HANA	MARC	QZGTP	Certificate Type	Transfer directly; must match valid certificate type configuration in target system.
8	PF2/WP2	MARC	SSQSS	QM Procurement Key	S/4HANA	MARC	SSQSS	QM Procurement Key	Transfer directly; must match valid procurement control key in S/4HANA.
9	PF2/WP2	MARC	WEBAZ	GR Processing Time	S/4HANA	MARC	WEBAZ	GR Processing Time	Transfer directly; ensure numeric value is valid and mapped correctly.
10	PF2/WP2	QMAT	ART	Inspection Type	S/4HANA	QMAT	ART	Inspection Type	Value Mapping for Inspection Type
11	PF2/WP2	QMAT	AKTIV	Active Indicator	S/4HANA	QMAT	AKTIV	Active Indicator	Migrate materials with both active and inactive inspection types maintained in the QM View, as inactive status may be temporary and subject to change after migration
12	PF2/WP2	QMAT	CHG	Control of Inspection Lot	S/4HANA	QMAT	CHG	Control of Inspection Lot	Transfer directly; ensure valid control key is maintained in configuration table TQ08.
13	PF2/WP2	QMAT	INSMK	Post to Inspection Stock	S/4HANA	QMAT	INSMK	Post to Inspection Stock	Transfer directly; must match valid stock type configuration in S/4HANA.
14	PF2/WP2	QMAT	MPDAU	Average Inspection Duration	S/4HANA	QMAT	MPDAU	Average Inspection Duration	Transfer directly; ensure duration value is numeric and valid.
15	PF2/WP2	QMAT	PPL	Inspection with Task List	S/4HANA	QMAT	PPL	Inspection with Task List	Transfer directly; must be consistent with task list settings in production.
16	PF2/WP2	QMAT	APA	Preferred Inspection Type	S/4HANA	QMAT	APA	Preferred Inspection Type	Transfer directly; ensure alignment with active inspection types.
17	PF2/WP2	QMAT	APP	Automatic Assignment	S/4HANA	QMAT	APP	Automatic Assignment	Transfer directly; must match valid configuration for inspection type assignment.

18	PF2/WP2	QMAT	AVE	Automatic UD	S/4HANA	QMAT	AVE	Automatic UD	Transfer directly; ensure flag value is valid per S/4HANA setup.
19	PF2/WP2	QMAT	AFR	Inspection for Handling Unit	S/4HANA	QMAT	AFR	Inspection for Handling Unit	Transfer directly; ensure consistency with Handling Unit configuration.

Transformation Mapping

Mapping Table Name	Mapping Table Description
Material	Mapping of legacy Material Number to new Material Number in S/4HANA target system. Ensures all inspection-related records are aligned with the migrated Material Master.
Plant	Mapping of legacy Plant codes to new Plant codes in the S/4HANA target system, based on To-Be Plant Mapping definition.
Inspection Type	Mapping of legacy Inspection Types to harmonized Inspection Types in S/4HANA, ensuring alignment with target configuration (TQ07A).
Usage Key	Mapping of legacy Usage Key values to standardized Usage Keys as per S/4HANA configuration (TQ09).
Control Key	Mapping of legacy Control Key values to target system Control Keys (TQ08) for consistent inspection processing logic.
Inspection Lot Origin	Mapping of legacy Inspection Lot Origin values to valid entries in target configuration (TQ85).
UoM (Unit of Measure)	Mapping of legacy Units of Measure to ISO-compliant Units of Measure in S/4HANA (T006).
Authorization Group	Mapping of legacy Authorization Group values to new Authorization Groups maintained in S/4HANA (TBRG).
Quality Level Indicator	Mapping of legacy Quality Level Indicator values to valid target domain values in S/4HANA (TQ07).

Transformation Dependencies

List the steps that need to occur before transformation can commence

Item #	Step Description	Team Responsible
1	Ensure tables completeness	Syniti
2	Ensure all Transformation mappings are up to date.	Syniti

Pre-Load Validation

Project Team

Completeness

Task	Action
Verify Record Count	SyWay P2F-MFG Data Team to verify that the total number of relevant records from the system is equal to the total number of records in the Preload and Load Sheets.

Accuracy

Task	Action
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Conversion Accuracy	SyWay P2F-MFG Data Team to verify that all fields below meet pass the checks: <ol style="list-style-type: none"> 1. Mandatory Fields 2. Field and Value Mapping Correctness 3. Null Checks 4. Text Length Checks
Review Error Reports	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

Completeness

Task	Action
Verify Record Count	Business Data Owner/s to verify that the total number of relevant records from the the system is equal to the total number of records in the Preload and Load Sheets.

Accuracy

Task	Action
Conversion Accuracy	Business Data Owner/s to verify that all the data in the load table/file is accurate as per endorsed transformation/mapping rules.

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
1	Ensure Pre-load sign-offs are obtained.	SyWay Data team
2	Go to the load tool and select the correct load Program.	SyWay Data team
3	Proceed with Data load.	SyWay Data team
4	Validate few records loaded by accessing standard transactions.	SyWay Data team
5	Generate the post load reports in the tool.	SyWay Data team
6	Log errors as defects, if any and address resolutions. Close defects.	SyWay Data team
7	Resolve defects by re-upload and re-generate post load reports if necessary.	SyWay Data team
8	Business to validate the post load files as part of post-load validation, raise data defects or provide the post-load sign-off.	Business
9	Repeat steps 5 to 7 if necessary.	SyWay Data team

Load Phase and Dependencies

Pre-Cutover

Configuration

Item #	Configuration Item
1	T001W – Plants/Branches: Definition of plants where inspection activities and quality control processes are carried out. Ensures material QM view is maintained only in valid, active plants.
2	T006 – Units of Measurement (UoM): ISO-compliant UoM definitions to ensure consistent measurement units across all inspection processes.
3	TQ07A – Inspection Types: Configuration of valid inspection types (e.g., 01, 02, 04, 05, 06, 08, 10, 11, 12, 17, 89) used in material QM view.
4	TQ85 – Inspection Lot Origin: Configuration of inspection lot origin values to control how inspection lots are created from different business processes.
5	TQ09 – Usage Keys: Definition of usage keys to specify valid scenarios for inspection (e.g., goods receipt, production, stock transfer).
6	TQ08 – Control Keys (QM): Definition of control keys determining inspection processing behavior (e.g., automatic lot creation, inspection point usage).
7	TQ15 – Catalog Types: Definition of catalog types (e.g., defects, results, codes) used in conjunction with inspection types and usage keys.
8	TQ15T – Selected Sets & Code Groups: Configuration of selected sets and code groups for qualitative results recording and defect tracking.
9	TQ33 – Catalog Profile Assignment: Configuration of catalog profiles assigned to inspection types and materials for standardized defect documentation.
10	TBRG – Authorization Groups: Assignment of authorization groups for controlling access and maintenance rights to QM view data.
11	TQ30 – Reference Indicators: Control of reference indicator usage for linking plant-specific and global quality settings.
12	TQ75 – Decimal Places & Format: Configuration of decimal places, number format, and rounding rules for quantitative inspection data entry.
13	T134 – Material Types: Configuration of BOM- and QM-relevant material types (e.g., ROH, HALB, FERT) to control where QM view is required or optional.
14	TQ02 – Quality Levels / Dynamic Modification: Configuration of quality levels and dynamic modification rules for inspection type control.
15	TQ03 – Inspection Severity: Configuration of severity levels used in conjunction with dynamic modification rules for quality levels.

Conversion Objects

Object #	Preceding Object Conversion Approach
2019	Material Master - Basic Data View
1047	Material Master - Batch Characteristics of Class Type : 023

Error Handling

Error Type	Error Description	Action Taken
1	Material/Plant not found in target system (Material master or plant view does not exist for the record to be migrated).	Create/ load the missing material and required MARC plant view first (per conversion sequence). Reprocess the QM view once the prerequisite is available.
2	Inspection Type not configured/allowed in target (value not in TQ07A or set as not permitted).	Validate configuration in TQ07A; map legacy value to a valid Inspection Type or remove the record from the load file.
3	Duplicate record for the same Material–Plant–Inspection Type.	Deduplicate in the collection file; keep exactly one active record per Material–Plant–Inspection Type.
4	Usage Key invalid (value not maintained in TQ09 or not allowed for the Inspection Type).	Map or correct to a valid Usage Key per configuration; where not applicable, remove from the load file.
5	Inspection Lot Origin invalid (not maintained in TQ85 or not compatible with Inspection Type).	Map/maintain to a valid Lot Origin; correct the record and reload.
6	Catalog Profile / Selected Set / Code Group not found (catalog profile missing or mismatched with qualitative settings).	Maintain the Catalog Type/Selected Set/Code Group in TQ15/TQ15T and ensure the Catalog Profile assignment (TQ33) is valid; reload.

7	Dynamic Modification / Quality Level settings invalid (severity or rule not configured).	Review TQ02/TQ03 configuration; align values to target system and correct the record.
8	Authorization Group invalid (value not in TBRG).	Map to an existing Authorization Group or leave blank as per design; update the file and reload.
9	Marked for deletion or blocked in legacy (record flagged, or business requested exclusion).	Exclude from migration per data cleansing rules or obtain business approval to reactivate before load.
10	Inconsistent or unmapped Units of Measure referenced by inspection data (non-ISO or not in T006).	Map legacy UoM to ISO-compliant UoM in T006; correct the value and reload.
11	Invalid Control Key for QM processing (not maintained in TQ08 or not permitted with the Inspection Type).	Map/maintain the Control Key in TQ08 and correct the record accordingly.
12	Record references non-existent configuration (e.g., reference indicator behavior, plant authorization, or other dependency).	Validate all dependent config (TQ30, TBRG, T001W, etc.). Update mapping /config, correct the data, and reload.

Post-Load Validation

Project Team

Completeness

Task	Action
Verify Count	SyWay P2F-MFG Data Team to verify the record count created in target S/4 HANA by accessing post load reports in dspMigrate or standard reports from S/4 HANA.

Accuracy

Task	Action
Verify Logs	Check if there is data that failed to load and perform the necessary actions (e.g. register as post load issue or attempt to load the record again, etc.).

Business

Completeness

Task	Action
Verify Count	Download Post Load Reports from dspMigrate 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
Conversion Accuracy	Verify that the Material Master QM View data in target S/4 HANA were loaded correctly via DSP Migrate post load reports or standard reports from S/4 HANA.

Key Assumptions

- Master Data Standard (MDS) is up to date as of the date of documenting this conversion approach and QM View data load.
- Data cleansing has been completed to ensure that only active, valid, and relevant materials are included. Obsolete, blocked, or marked-for-deletion materials are excluded from the QM View migration scope.
- All plant-specific views required for QM View (e.g., Basic Data, MRP, Work Scheduling) are assumed to be migrated first and available in the target system prior to QM View load.

- Only in-scope inspection types (as defined in TQ07A configuration) will be migrated. Out-of-scope or legacy inspection types are excluded unless approved through exception management.
- Inspection type mapping and configuration (e.g., usage, origin, control indicators) are standardized between the source and target systems, ensuring valid master data consistency in SAP S/4HANA.
- All Units of Measure (UoM) used in QM inspection settings must be pre-mapped to ISO-compliant UoMs (T006) in the target system.
- Number ranges and control logic for inspection type assignments are preconfigured in the target system; no additional numbering will be applied during migration.
- Enrichment activities (such as correcting invalid inspection types, mapping missing usage keys, or resolving obsolete authorizations) are handled outside the automated migration process and require manual intervention or business sign-off.
- Not all legacy QM fields (e.g., custom inspection rules, obsolete catalog profiles, or non-standard inspection types) will be migrated. Only fields required for inspection setup, usage assignment, and operational inspection processing are considered in scope.
- All dependent configuration (e.g., plant, UoM, catalog profile, authorization groups, usage key, lot origin) must exist in the target system prior to load to avoid conversion failures.
- Business users are responsible for final sign-off on inspection type relevance and data readiness before migration execution.

See also

[CNV-1057 QM Master Inspection Characteristics](#)

[CNV-1041 QM Inspection Plan](#)

[CNV-1043 QM Inspection Methods](#)

[CNV-1044 Quality Info Record](#)

[CNV-1047 Batch Characteristics of Class Type: 023](#)

[CNV-1064 QM Sampling Procedure](#)

[CNV-2010 Materials - General Plant Data / S.Loc Data](#)

[CNV-2019 Materials - Basic Data View](#)

Change log

Version	Published	Changed By	Comment
CURRENT (v. 45)	Apr 28, 2026 13:25	SUSANT O-ext, William	Section Update - Minor Update v 7.0
v. 44	Apr 23, 2026 12:58	SUSANT O-ext, William	Section Update - Minor Update v 6.0
v. 43	Apr 10, 2026 13:37	SUSANT O-ext, William	Section Update - Minor Update v 5.0
v. 42	Feb 24, 2026 08:42	SUSANT O-ext, William	Section Update - Conversion Spec Minor Update v1.0
v. 41	Jan 21, 2026 11:20	SUSANT O-ext, William	Section Update - Minor Changes - Target Design, DCT and Transformation Rules - 21.01.2026
v. 40	Dec 12, 2025 08:50	SUSANT O-ext, William	Section Update - Data Collection Template Complete Update v1.0
v. 39	Dec 05, 2025 10:49	SUSANT O-ext, William	Section Update - Data Collection Template Draft v1.0
v. 38	Nov 28, 2025 13:28	SUSANT O-ext, William	Section Update - Pre-Load Validation Completeness Update v1.0

v. 37	Nov 14, 2025 11:10	SUSANT O-ext, William	Section Update - Conversion Scope Update v5.0
v. 36	Nov 10, 2025 13:40	SUSANT O-ext, William	Section Update - Relevancy Rules Update v5.0

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Workflow history

Title	Last Updated By	Updated	State	Status
CNV-2009 Material Master QM view	SUSANTO-ext, William	Apr 28, 2026 13:25	Tech Review	
