

# CNV-1038 Material BOM

|              |   |
|--------------|---|
| -Status      | Approved  |
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## Purpose

The purpose of this document is to define the conversion approach to create 1038 Material BOM (Usage 1) and Sales & Distribution BOM (Usage 5) in S/4 HANA.

Bills of Material (BOMs) are core master data objects in SAP that play a critical role across all manufacturing processes. They define the complete product structure by specifying the components—such as raw materials, semi-finished goods, and subassemblies—required to produce semi-finished and finished products. By providing a structured breakdown of materials, BOMs serve as the foundation for effective production planning, costing, and and shop-floor execution.

BOMs take a central role in production master data, as they define the component structure required to manufacture semi-finished and finished goods. The migration of BOMs is therefore critical to ensure continuity of manufacturing activities in S/4HANA. Prior to migration, it is essential to perform exhaustive data cleansing, as some plants are currently experiencing issues with BOM consistency and validity.

In SAP, BOMs work in conjunction with the Master Recipe and Production Version to ensure consistent, controlled, and accurate manufacturing processes. Because of their central role in production master data, the migration of BOMs to S/4HANA is business-critical to safeguard continuity of operations.

Prior to migration, it is essential to perform comprehensive data cleansing. This includes validating that only active, relevant, and harmonized BOM records are carried forward. Special attention must be given to plants where inconsistencies or data quality issues have been identified, ensuring that obsolete, duplicate, or invalid BOMs are excluded. This preparation will secure a clean, reliable, and compliant BOM dataset in the target S/4HANA system.

All valid BOMS will be migrated to the S/4 HANA System, for all the relevant plants and for all the Semifinished and finished materials in scope.

## Conversion Scope

The scope of this document covers the approach for converting active 1038 Data register for BOMS from Legacy Source Systems into S/4HANA following the [1038 Master Data Design Standard](#).

The data from legacy system includes:

- The migration of Bills of Material (BOMs) will be governed by the Material Relevancy Criteria, which serve as the foundational rule for identifying and including BOMs that are valid, active, and business-relevant for conversion to S/4HANA.
- Only BOMs linked to relevant materials are migrated initially. If these BOMs contain additional component materials, those materials and their corresponding BOMs are also brought into the migration scope. This process continues iteratively until all related BOMs and components are included, ensuring the entire BOM structure and its dependencies are fully migrated for completeness and data integrity in S/4HANA.
- BOMs without deletion flags, ensuring only valid and relevant records are migrated
- BOMs with active material components in active plants, ensuring alignment with migrated Material Master data
- BOMs assigned to in-scope plants, based on the To-Be Plant Mapping (considering new plant definitions)
- BOMs with valid usages (Usage 1 – Production and Usage 5 - Sales & Distribution) and valid alternative BOMs
- BOMs with valid units of measure (UoM), consistent with T006 conversion rules
- Semi-finished and finished materials covered under the migration scope

The data from legacy system excludes:

- Inactive BOMs not used in production or costing within the last four (4) years.
- BOMs marked for deletion in ECC.
- BOMs belonging to plants that are deleted or out of scope, based on To-Be Plant Mapping in [Enterprise Structure Catalog](#) worksheet "30. Plants".
- BOMs containing obsolete or inactive material components that are not migrated to S/4HANA.
- Duplicate or redundant alternative BOMs, where only validated BOMs will be retained.
- BOMs with invalid or inconsistent UoM assignments or without proper conversion maintained.

### Relevancy rule

1. Material/Plant with history and active production usage – Materials must be defined at global (MARA) and plant level (MARC) with valid status and assignment to active plants in scope.
2. BOMs linked to active materials – Only BOMs associated with materials that have valid usage (Usage = 1 "Production" and Usage = 5 "Sales & Distribution") and are actively used in production within the last four (4) years will be considered.
3. Production Versions referencing BOMs – Production Versions must exist and be valid, linking BOMs with corresponding Routings/Master Recipes at the plant level to ensure continuity of manufacturing execution.
4. Component materials – All components within the BOM must be valid, active materials in the Material Master and not marked for deletion.
5. Plant-specific validation – BOMs will be checked against active plant mappings (per To-Be Plant definition) to ensure only relevant BOMs are migrated.

Material/Plant Active with four (4) years production usage history defines Active BOMs (Usage = 1 "Production" and Usage = 5 "Sales & Distribution") by Plant validates Production Versions ensures accurate mapping of dependent Routings/Master Recipes.

### Plant Merging

Plants will be harmonized based on the To-Be Plant Mapping. As some legacy plants will be merged into one target plant, BOMs will be reassigned accordingly. Plant transformation will be managed through a mapping table maintained in Syniti to ensure consistent alignment with the To-Be Plant structure.

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 | BOMS will be extracted from PF2 and WP2 | PF2<br>Total Data : 167742<br>In-scope : 43687<br><br>WP2<br>Total Data : 85844<br>In-scope : 37026 | S/4 HANA      | TBD                          |

### Additional Information

#### Multi-language Requirement

BOM Header and component descriptions are inherited from the Material Master and are not subject to migration or transformation.

#### Document Management

N/A

#### Legal Requirement

N/A

#### Special Requirements

N/A

### Target Design

The technical design of the target for this conversion approach.

| No | Table | Field | Data Element | Field Description | Data Type   | Length | Requirement | MDS Field Mapping in Scope | Field Value in MDS                      |
|----|-------|-------|--------------|-------------------|---|--------|-------------|----------------------------|---|
| 1  | MAST  | MATNR | MATNR        | Material          | Material Code for the target product of the BOM   | 18     | R           |                            | Legacy Material to New material mapping |
| 2  | MAST  | WERKS | WERKS_D      | Plant             | Organizational unit used by logistic and production representing a physically independent facility where stock and activities are managed | 4      | R           |                            | Legacy Plant to New Plant Mapping       |

|    |      |                  |                  |                 |  |    |    |  |   |
|----|------|------------------|------------------|-----------------|--|----|----|--|---|
| 3  | MAST | STLAN            | STLAN            | Usage           | Indicator that defines for what this BOM is used for.  | 1  | R  |  | Value 1 and 5 are considered for Migration  |
| 4  | MAST | STLNR            | STNUM            | BOM             | Internal BOM number assigned by the system   | 8  | S  |  |   |
| 5  | MAST | STLAL            | STALT            | Alternative     | number of the alternative BOM, in case the same material can be produced with different ones   | 2  | S  |  | If it is non-numerical value then make it in sequence starting from the higher number of existing numerical value + 1 if it is numerical value then remain as it is |
| 6  | MAST | LOSVN            | LOSVN            | From Lot Size   | This BOM can be selected only if we produce at least this qty  | 13 | S  |  |   |
| 7  | MAST | LOSBS            | LOSBS            | To Lot Size     | This BOM can be selected only if we produce no more than this qty  | 14 | S  |  |   |
| 8  | MAST | ANDAT            | ANDAT            | Created On      | Date of BOM creation, automatically assigned by the system   | 8  | S  |  |   |
| 9  | MAST | ANNAM            | ANNAM            | Created by      | User who created the BOM, automatically assigned by the system   | 12 | S  |  |   |
| 10 | MAST | AEDAT            | AEDAT            | Changed On      | Date of last BOM change, automatically assigned by the system  | 8  | S  |  |   |
| 11 | MAST | AENAM            | AENAM            | Changed By      | User who changed the BOM, automatically assigned by the system   | 12 | S  |  |   |
| 12 | MAST | CSLTY            | CSLTY            | Configured matl | Not relevant for Syensqo   | 1  | NU |  |   |
| 13 | MAST | MATERIAL_BOM_KEY | MATERIAL_BOM_KEY | MBOM key        | internal Key, automatically assigned by the system   |    | S  |  |   |
| 14 | STKO | STLTY            | STLTY            | BOM category    | Identifier for Material/Equipment/WBS/Functional Location, Document BOM etc. Only Material BOMs are relevant here: "M"                   | 1  | S  |  |   |
| 15 | STKO | STLNR            | STNUM            | BOM             | Internal BOM number assigned by the system   | 8  | S  |  |   |
| 16 | STKO | STLAL            | STALT            | Alternative     | number of the alternative BOM, in case the same material can be produced with different ones   | 2  | S  |  | If it is non-numerical value then make it in sequence starting from the higher number of existing numerical value + 1 if it is numerical value then remain as it is |
| 17 | STKO | STKOZ            | CIM_COUNT        | Counter         | Internal counter assigned by the system  | 8  | S  |  |   |
| 18 | STKO | DATUV            | DATUV            | Valid From      | Validity start of the BOM. It is by default the creation date of the BOM, unless differently specified by the user                       | 8  | R  |  |   |
| 19 | STKO | TECHV            | TECHV            | Tech st from    | technical start  | 12 | NU |  |   |
| 20 | STKO | AENNR            | AENNR            | Change Number   | Number of the object used to maintain this BOM together with other technical objects in a single engineering change. Not used in Syensqo | 12 | NU |  |   |
| 21 | STKO | LKENZ            | LKENZ            | Deletion Ind.   | Indicator of deletion performed via Change Number. Not used  | 1  | NU |  |   |
| 22 | STKO | LOEKZ            | LOKNZ            | Deletion flag   | Mark for Deletion  | 1  | C  |  |   |
| 23 | STKO | VGKZL            | VGKZL            | Prev hdr countr | internal previous counter  | 8  | S  |  |   |
| 24 | STKO | ANDAT            | ANDAT            | Created On      | Date of BOM creation, automatically assigned by the system   | 8  | S  |  |   |
| 25 | STKO | ANNAM            | ANNAM            | Created by      | User who created the BOM, automatically assigned by the system   | 12 | S  |  |   |

|    |      |                  |          |                     |   |    |    |  |  |
|----|------|------------------|----------|---------------------|---|----|----|--|--|
| 26 | STKO | AEDAT            | AEDAT    | Changed On          | Date of last BOM change, automatically assigned by the system   | 8  | S  |  |  |
| 27 | STKO | AENAM            | AENAM    | Changed By          | User who changed the BOM, automatically assigned by the system  | 12 | S  |  |  |
| 28 | STKO | BMEIN            | BASME    | Base UoM            | Unit of measure for the Base qty  | 3  | R  |  |  |
| 29 | STKO | BMENG            | BASMN    | Base quantity       | Quantity of the target material produced using the component's quantities we will define in the items.                                  | 13 | R  |  |  |
| 30 | STKO | CADKZ            | CADKZ    | CAD Indicator       | BOM created by CAD system   | 1  | NU |  |  |
| 31 | STKO | LABOR            | LABOR    | Lab/Office          | Identifier of the organizational structure (Laboratory, Master Data office, etc) responsible to maintain this BOM                       | 3  | C  |  |  |
| 32 | STKO | LTXSP            | LTXSP_CP | Long Text Lang      | Long text   | 1  | R  |  |  |
| 33 | STKO | STKTX            | STKTX    | Alt Text            | Alternative Long text   | 40 | NU |  |  |
| 34 | STKO | STLST            | STLST    | BOM Status          | Status of the BOM, used to restrict its usage during creation or obsolescence phases or to block it if required                         | 2  | R  |  | PF2 is leading system for BOM Status. Therefore, For valid BOM from WP2 system must convert its BOM Status as per below:<br>Active (01)<br>Released General (04)<br>Inactive (02) In creation (01)<br>Active with history rqmt (03)<br>Released General (04) |
| 35 | STKO | WRKAN            | WRKAN    | Created in plt      | Plant on which BOM has been created   | 4  | S  |  |  |
| 36 | STKO | DVDAT            | DVDAT    | Scheduled on        | Date of Last date change of the "Valid From" field  | 8  | S  |  |  |
| 37 | STKO | DVNAM            | DVNAM    | Date shifted by     | User who performed the last change of Valid From  | 8  | S  |  |  |
| 38 | STKO | AEHLP            | CC_AEHLP | Helper Field        | Date shift Hierarchy indicator  | 2  | S  |  |  |
| 39 | STKO | ALEKZ            | CS_ALEKZ | ALE indicator       | BOM has been created by remote system   | 1  | NU |  |  |
| 40 | STKO | GUIDX            | CS_GUIDB | Guid                | Internal change status Header indicator   | 16 | S  |  |  |
| 41 | STKO | VALID_TO         |          | to                  | End Validity date of the BOM. By default 31.12.9999, unless differently specified by the user   | 8  | R  |  | default 31.12.9999   |
| 42 | STKO | ECN_TO           |          | Change No. To       | Identifier of the Change number that created a subsequent version of the BOM, from which the current one is not valid anymore. Not used |    | NU |  |  |
| 43 | STKO | BOM_VERSN        |          | BOM Version         | Version, not used in Syensqo  |    | NU |  |  |
| 44 | STKO | VERSNST          |          | BOM Version Status  | Status of the version, not used   |    | NU |  |  |
| 45 | STKO | VERSNLASTIND     |          | Latest Rel Version  | last version released. Not used   |    | NU |  |  |
| 46 | STKO | LASTCHANGEDATET  |          | Time Stamp          | Time stamp  | 8  | S  |  |  |
| 47 | STKO | BOM_AIN_IND      |          | BOM to AIN Handover | BOM copied to Asset Intelligent Network, not used   |    | NU |  |  |
| 48 | STKO | BOM_PREV_VERSION |          | Predecessor Version | Version of the predecessor BOM, not used  |    | NU |  |  |
| 49 | STKO | DUMMY_STKO_INCL  |          | Ext. Include        | Extension include exists  |    | S  |  |  |
| 50 | STAS | STLTY            | STLTY    | BOM category        | STAS table is purely internal, never maintained by a user. Technical fields to manage the link between BOM header and items             | 1  | S  |  |  |
| 51 | STAS | STLNR            | STNUM    | BOM                 | STAS table is purely internal, never maintained by a user. Technical fields to manage the link between BOM header and items             | 8  | S  |  |  |

|    |      |           |             |                      |   |    |    |  |  |   |
|----|------|-----------|-------------|----------------------|---|----|----|--|--|---|
| 52 | STAS | STLAL     | STALT       | Alternative          | STAS table is purely internal, never maintained by a user. Technical fields to manage the link between BOM header and items | 2  | S  |  |  | If it is non-numerical value then make it in sequence starting from the higher number of existing numerical value + 1 if it is numerical value then remain as it is |
| 53 | STAS | STLKN     | STLKN       | Item node            | STAS table is purely internal, never maintained by a user. Technical fields to manage the link between BOM header and items | 8  | S  |  |  |   |
| 54 | STAS | STASZ     | CIM_COUNT   | Counter              | STAS table is purely internal, never maintained by a user. Technical fields to manage the link between BOM header and items | 8  | S  |  |  |   |
| 55 | STAS | DATUV     | DATUV       | Valid From           | STAS table is purely internal, never maintained by a user. Technical fields to manage the link between BOM header and items | 8  | S  |  |  |   |
| 56 | STAS | TECHV     | TECHV       | Tech st from         | STAS table is purely internal, never maintained by a user. Technical fields to manage the link between BOM header and items | 12 | NU |  |  |   |
| 57 | STAS | AENNR     | AENNR       | Change Number        | STAS table is purely internal, never maintained by a user. Technical fields to manage the link between BOM header and items | 12 | NU |  |  |   |
| 58 | STAS | LKENZ     | LKENZ       | Deletion Ind.        | STAS table is purely internal, never maintained by a user. Technical fields to manage the link between BOM header and items | 1  | NU |  |  |   |
| 59 | STAS | ANDAT     | ANDAT       | Created On           | STAS table is purely internal, never maintained by a user. Technical fields to manage the link between BOM header and items | 8  | S  |  |  |   |
| 60 | STAS | ANNAM     | ANNAM       | Created by           | STAS table is purely internal, never maintained by a user. Technical fields to manage the link between BOM header and items | 12 | S  |  |  |   |
| 61 | STAS | AEDAT     | AEDAT       | Changed On           | STAS table is purely internal, never maintained by a user. Technical fields to manage the link between BOM header and items | 8  | S  |  |  |   |
| 62 | STAS | AENAM     | AENAM       | Changed By           | STAS table is purely internal, never maintained by a user. Technical fields to manage the link between BOM header and items | 12 | S  |  |  |   |
| 63 | STAS | DVDAT     | DVDAT       | Scheduled on         | STAS table is purely internal, never maintained by a user. Technical fields to manage the link between BOM header and items | 8  | S  |  |  |   |
| 64 | STAS | DVNAM     | DVNAM       | Date shifted by      | STAS table is purely internal, never maintained by a user. Technical fields to manage the link between BOM header and items | 8  | S  |  |  |   |
| 65 | STAS | AEHLP     | CC_AEHLP    | Helper Field         | STAS table is purely internal, never maintained by a user. Technical fields to manage the link between BOM header and items | 2  | S  |  |  |   |
| 66 | STAS | STVKN     | STVKN       | Item node            | STAS table is purely internal, never maintained by a user. Technical fields to manage the link between BOM header and items | 8  | S  |  |  |   |
| 67 | STAS | IDPOS     | CS_IDPOS    | Item group           | STAS table is purely internal, never maintained by a user. Technical fields to manage the link between BOM header and items | 20 | S  |  |  |   |
| 68 | STAS | IDVAR     | CS_IDVAR    | Comp. Variant        | STAS table is purely internal, never maintained by a user. Technical fields to manage the link between BOM header and items | 5  | S  |  |  |   |
| 69 | STAS | LPSRT     | CS_LPSRT    | Sort key within a lo | STAS table is purely internal, never maintained by a user. Technical fields to manage the link between BOM header and items | 4  | S  |  |  |   |
| 70 | STAS | BOM_VERSN | BOM_VERSION | BOM Version          | STAS table is purely internal, never maintained by a user. Technical fields to manage the link between BOM header and items | 4  | S  |  |  |   |
| 71 | STPO | STLTY     | STLTY       | BOM category         | Identifier for Material/Equipment/WBS/Functional Location, Document BOM etc. Only Material BOMs are relevant here: "M"      | 1  | S  |  |  |   |
| 72 | STPO | STLNR     | STNUM       | BOM                  | Internal BOM number assigned by the system  | 8  | S  |  |  |   |
| 73 | STPO | STLKN     | STLKN       | Item node            | Internal counter to identify uniquely the BOM item as a node in the system  | 8  | S  |  |  |   |

|     |      |       |           |                 |  |    |    |  |  |
|-----|------|-------|-----------|-----------------|--|----|----|--|--|
| 74  | STPO | STPOZ | CIM_COUNT | Counter         | Internal counter to identify uniquely the BOM item in the system   | 8  | S  |  |  |
| 75  | STPO | DATUV | DATUV     | Valid From      | Start validity Date, it is by default the day one selected in the main screen at creation/change. By default it is the day of the creation/change, unless differently specified  | 8  | R  |  |  |
| 76  | STPO | TECHV | TECHV     | Tech st from    | Technical Start validity date, not used  | 12 | NU |  |  |
| 77  | STPO | AENNR | AENNR     | Change Number   | Number of the object used to maintain this BOM together with other technical objects in a single engineering change. Not used in Syensqo   | 12 | NU |  |  |
| 78  | STPO | LKENZ | LKENZ     | Deletion Ind.   | Indicator of deletion performed via Change Number. Not used  | 1  | NU |  |  |
| 79  | STPO | VGKNT | VGKNT     | Previous node   | Identifier of the node of the item substituted by this one in a previous change of the BOM.  | 8  | S  |  |  |
| 80  | STPO | VGPZL | VGPZL     | Prev item count | Identifier of the node of the item substituted by this one in a previous change of the BOM.  | 8  | S  |  |  |
| 81  | STPO | ANDAT | ANDAT     | Created On      | Creation date  | 8  | S  |  |  |
| 82  | STPO | ANNAM | ANNAM     | Created by      | User who created the item  | 12 | S  |  |  |
| 83  | STPO | AEDAT | AEDAT     | Changed On      | Date of the last change  | 8  | S  |  |  |
| 84  | STPO | AENAM | AENAM     | Changed By      | User who performed the last change   | 12 | S  |  |  |
| 85  | STPO | IDNRK | IDNRK     | Component       | Material code of the component used in production / subcontracting to build the target material. As per Business rule, here we will have an item for each material physically used in production line to build the product, including primary packing, monomers where they are missing, carton boxes, separator, etc.<br>This field is required for material items, but it is not required in case of text items or document items | 18 | C  |  |  |
| 86  | STPO | PSWRK | PSWRK     | Issuing Plant   | Plant from which the material is taken, in case it is different from the main plant of the BOM. Not used.  | 4  | NU |  |  |
| 87  | STPO | POSTP | POSTP     | Item Category   | L = Material item<br>T = Text Item<br>D = Document   | 1  | R  |  |  |
| 88  | STPO | POSNR | POSNR     | Item            | 4 digit number used to sequence the items, normally proposed by the system with a progression by 10, can be manually edited  | 4  | R  |  |  |
| 89  | STPO | SORTF | SORTP     | Sort String     | Free string that can be used to sort the items in printouts and specific applications  | 10 | C  |  |  |
| 90  | STPO | MEINS | KMPME     | Component UoM   | UoM for the Component Qty  | 3  | R  |  |  |
| 91  | STPO | MENGE | KMPMG     | Quantity        | Quantity required of this component to build the Header Qty of the Target material of the BOM  | 13 | R  |  |  |
| 92  | STPO | FMENG | FMNGE     | Fixed Quantity  | Indicator: the qty is fixed, not dependent from the qty we produce   | 1  | C  |  |  |
| 93  | STPO | AUSCH | KAUSF     | Component Scrap | Scrap % for this specific component in the production /subcontracting process  | 5  | C  |  |  |
| 94  | STPO | AVOAU | AVOAU     | Operation Scrap | Scrap calculated for this component in case the Net Indicator is set, instead of the Assemble Scrap from Material master   | 5  | C  |  |  |
| 95  | STPO | NETAU | NETAU     | Net Indicator   | Used to define that the planned scrap is calculated using the previous field instead of the Assembly Scrap from Material master  | 1  | C  |  |  |
| 96  | STPO | SCHGT | SCHGT     | Bulk material   | Bulk materials are directly available in the work center and the dependent requirements are purely created for information, not relevant for planning  | 1  | C  |  |  |
| 97  | STPO | BEIKZ | BEIKZ     | Mat. Prov. Ind. | Material Provided by the Vendor / the Customer   | 1  | C  |  |  |
| 98  | STPO | ERSKZ | ERSKZ     | Spare Part ID   | Not relevant for Material BOM  | 1  | NU |  |  |
| 99  | STPO | RVREL | RVREL     | Sales           | Item relevant for Sales: in case we would want BOM explosion in the Sales Order. Not used in Sy-Way  | 1  | NU |  |  |
| 100 | STPO | SANFE | SANFE     | Production      | Item relevant for Production. It is always "X" for Material BOM  | 1  | R  |  |  |
| 101 | STPO | SANKA | CS_SANKA  | CostingRelevncy | Item is relevant for costing. Always "X" = 100% relevant   | 1  | R  |  |  |
| 102 | STPO | SANKO | SANKO     | Engineering     | Item relevant for Engineering BOM. Not used  | 1  | NU |  |  |
| 103 | STPO | SANVS | SANVS     | HL confign      | Relevant for shipping area, not used   | 1  | NU |  |  |
| 104 | STPO | STKKZ | STKKZ     | PM assembly     | Not relevant for Material BOM  | 1  | NU |  |  |
| 105 | STPO | REKRI | REKRI     | Recursive       | Automatic indicator set by the system if this item makes the BOM recursive   | 1  | S  |  |  |
| 106 | STPO | REKRS | REKRS     | Rec. allowed    | Indicator required if this item makes the BOM recursive. Used for Rework or for actual recursive BOMs (even multi-level)   | 1  | C  |  |  |
| 107 | STPO | CADPO | CADPO     | CAD Indicator   | Filled if BOM is created by a CAD system   | 1  | NU |  |  |
| 108 | STPO | NFMAT | CS_NFMAT  | Follow-Up Matl  | NOT IN USE   | 18 | NU |  |  |

|     |      |       |                |                 |  |    |    |  |  |
|-----|------|-------|----------------|-----------------|--|----|----|--|--|
| 109 | STPO | NLFZT | NLFZT          | Lead-tm offset  | Offset applied to Lead Time for this material. It is used only if the materials are not properly allocated to operations, to allow a more precise date of requirement for long running productions. Not used in Sy-Way | 3  | NU |  |  |
| 110 | STPO | VERTI | SA_VERTI       | Distribution    | Key to distribute the qty across the timeline of the production that uses the material. not used   | 4  | NU |  |  |
| 111 | STPO | ALPOS | ALPOS          | Alternat. item  | Indicator that this item is alternative with another one, both for planning and execution purposes   | 1  | C  |  |  |
| 112 | STPO | EWAHR | EWAHR          | Usage Prob.     | % of probability to use this item, in case of alternative items, for planning purposes   | 2  | C  |  |  |
| 113 | STPO | EKGRP | EKGRP          | Purch. Group    | Identifier of the buyer responsible to procure this material for this specific item, can overwrite the one from Material Master. Not used in Sy-Way  | 2  | NU |  |  |
| 114 | STPO | LIFZT | LIFZT          | Del time (days) | Delivery time in days, to be used in case a Purchase Requisition is triggered directly by the Process order Release (directly procured materials)  | 2  | C  |  |  |
| 115 | STPO | LIFNR | LIFNR          | Supplier        | Supplier, to be used in case a Purchase Requisition is triggered directly by the Process order Release (directly procured materials)   | 10 | C  |  |  |
| 116 | STPO | PREIS | CRPREI         | Price           | Purchasing price, to be used in case a Purchase Requisition is triggered directly by the Process order Release (directly procured materials)   | 11 | C  |  |  |
| 117 | STPO | PEINH | PEINH          | Price unit      | Purchasing price unit, to be used in case a Purchase Requisition is triggered directly by the Process order Release (directly procured materials)  | 5  | C  |  |  |
| 118 | STPO | WAERS | WAERS          | Currency        | Purchasing price currency, to be used in case a Purchase Requisition is triggered directly by the Process order Release (directly procured materials)  | 5  | C  |  |  |
| 119 | STPO | SAKTO | SAKTO          | Cost element    | P&L Account, to be used in case a Purchase Requisition is triggered directly by the Process order Release (directly procured materials)  | 10 | C  |  |  |
| 120 | STPO | ROANZ | ROANZ          | Number Required | For Variable Size Items only, not used   | 13 | NU |  |  |
| 121 | STPO | ROMS1 | ROMS1          | Size 1          | For Variable Size Items only, not used   | 13 | NU |  |  |
| 122 | STPO | ROMS2 | ROMS2          | Size 2          | For Variable Size Items only, not used   | 13 | NU |  |  |
| 123 | STPO | ROMS3 | ROMS3          | Size 3          | For Variable Size Items only, not used   | 13 | NU |  |  |
| 124 | STPO | ROMEI | ROMEI          | Size unit       | For Variable Size Items only, not used   | 3  | NU |  |  |
| 125 | STPO | ROMEN | ROMEN          | VSI Quantity    | For Variable Size Items only, not used   | 13 | NU |  |  |
| 126 | STPO | RFORM | RFORM          | VSI Formula     | For Variable Size Items only, not used   | 2  | NU |  |  |
| 127 | STPO | UPSKZ | UPSKZ          | Sub-item ID     | Automatic indicator in case this item has sub-items  | 1  | S  |  |  |
| 128 | STPO | VALKZ | VALKZ          | Alt ID          | Automatic indicator, this item has more that one alternative   | 1  | S  |  |  |
| 129 | STPO | LTXSP | LTXSP_CP       | Long Text Lang  | Language of the long texts   | 1  | C  |  |  |
| 130 | STPO | POTX1 | POTX1          | Item Text       | Long text  | 40 | C  |  |  |
| 131 | STPO | POTX2 | POTX2          | Item Text       | Long text  | 40 | C  |  |  |
| 132 | STPO | OBJTY | OBJTY          | Object Type     | Internal, always "1"   | 1  | S  |  |  |
| 133 | STPO | MATKL | MATKL          | Material Group  | Not used   | 9  | NU |  |  |
| 134 | STPO | WEBAZ | WEBAZ          | GR proc. time   | Specific GR time for this item in case of direct procurement in production   | 3  | NU |  |  |
| 135 | STPO | CSSTR | CSSTR          | Mat. purity     | Not used   | 5  | NU |  |  |
| 136 | STPO | CLASS | KLASSE_D       | Class           | Class number for classification of this BOM item   | 3  | NU |  |  |
| 137 | STPO | KLART | KLASSENA<br>RT | Class Type      | class type for classification  | 1  | NU |  |  |
| 138 | STPO | POTPR | POTPR          | Res. item cat.  | Resulting Item Category in case it is different from the main one due to specific object type  | 1  | NU |  |  |
| 139 | STPO | AWAKZ | AWAKZ          | Sel. ind.       | only for configurable BOM, not used  | 1  | NU |  |  |
| 140 | STPO | INSKZ | INSKZ          | Instance        | only for configurable BOM, not used  | 1  | NU |  |  |
| 141 | STPO | VCEKZ | VCEKZ          | N.Dis.CE        | only for configurable BOM, not used  | 1  | NU |  |  |
| 142 | STPO | VSTKZ | VSTKZ          | N.Dis.ST        | only for configurable BOM, not used  | 1  | NU |  |  |
| 143 | STPO | VACKZ | VACKZ          | N.Dis.AC        | only for configurable BOM, not used  | 1  | NU |  |  |
| 144 | STPO | EKORG | EKORG          | Purchasing Org. | only for configurable BOM, not used  | 4  | NU |  |  |
| 145 | STPO | CLOBK | CLOBK          | Reqd Component  | only for configurable BOM, not used  | 1  | NU |  |  |
| 146 | STPO | CLMUL | CLMULT         | Multiple Sel.   | only for configurable BOM, not used  | 1  | NU |  |  |
| 147 | STPO | CLALT | CLALT          | Altern. display | only for configurable BOM, not used  | 1  | NU |  |  |
| 148 | STPO | CVIEW | ABTEILUNG      | Org.area        | only for configurable BOM, not used  | 10 | NU |  |  |
| 149 | STPO | KNOBJ | KNOBJ          | Assgmt no.      | only for configurable BOM, not used  | 18 | NU |  |  |

|     |      |               |           |                 |  |    |    |  |  |
|-----|------|---------------|-----------|-----------------|--|----|----|--|--|
| 150 | STPO | LGORT         | CSLGO     | StorageLocation | Issue storage Location for Production, used to overwrite the one from material master in case it is different for this specific BOM  | 4  | C  |  |  |
| 151 | STPO | KZKUP         | KZKUP     | Co-product      | Indicator that this item is a Co-product. To be used in case of negative qty and if we want to manage costing and / or planning for this item likewise a target material of the BOM                      | 1  | C  |  |  |
| 152 | STPO | INTRM         | INTRM     | Intra Material  | String to identify an intra-material, not stock managed, that temporarily exists during the process. Not used.   | 18 | NU |  |  |
| 153 | STPO | TPEKZ         | TPEKZ     | Restr.          | only for configurable BOM, not used  | 1  | NU |  |  |
| 154 | STPO | STVKN         | STVKN     | Item node       | Internal node set by the system.   | 8  | S  |  |  |
| 155 | STPO | DVDAT         | DVDAT     | Scheduled on    | Date of the last date shift (change in validity dates)   | 8  | S  |  |  |
| 156 | STPO | DVNAM         | DVNAM     | Date shifted by | User who made the last date shift  | 12 | S  |  |  |
| 157 | STPO | DSPST         | CS_DSPST  | Explosion type  | This is used to control the explosion of an item when determining dependent requirements. E.g. Phantom, Direct Production, Direct Procurement, etc.  | 2  | S  |  |  |
| 158 | STPO | ALPST         | CS_ALPST  | Strategy        | Strategy to be used to select items in case of alternative items:<br>- accordingly with % probability of usage<br>- 100% withdrawal if available   | 1  | C  |  |  |
| 159 | STPO | ALPRF         | CS_ALPRF  | Priority        | Ranking order for alternative items  | 2  | C  |  |  |
| 160 | STPO | ALPGR         | CS_ALPGR  | AltItemGroup    | Group of alternative items this item belongs to  | 2  | C  |  |  |
| 161 | STPO | KZNF          | CS_KZNF   | Follow-Up Item  | This item is a follow-up, it is used instead of the original item if the stock of the discontinued material is not available   | 1  | C  |  |  |
| 162 | STPO | NFGRP         | CS_NFGRP  | Follow-up group | Group of items identified together for the discontinuation functionality. Follow up group of the item that is to be used and discontinuation group of the item that is expiring must have the same value | 2  | C  |  |  |
| 163 | STPO | NFEAG         | CS_NFEAG  | Discont. group  | Group of items identified together for the discontinuation functionality. Follow up group of the item that is to be used and discontinuation group of the item that is expiring must have the same value | 2  | C  |  |  |
| 164 | STPO | KNDVB         | CS_KNDVB  | Manual change   | Used for Sales Order BOM only. Not used  | 1  | NU |  |  |
| 165 | STPO | KNDBZ         | CS_KNDBZ  | Obj.dep.change  | Used for Sales Order BOM only. Not used  | 1  | NU |  |  |
| 166 | STPO | KSTTY         | CS_KSTTY  | BOM category    | Used for Sales Order BOM only. Not used  | 1  | NU |  |  |
| 167 | STPO | KSTNR         | CS_KSTNR  | BOM             | Used for Sales Order BOM only. Not used  | 8  | NU |  |  |
| 168 | STPO | KSTKN         | CS_KSTKN  | Item node       | Used for Sales Order BOM only. Not used  | 8  | NU |  |  |
| 169 | STPO | KSTPZ         | CS_KSTPZ  | Counter         | Used for Sales Order BOM only. Not used  | 8  | NU |  |  |
| 170 | STPO | CLSZU         | CS_CLSZU  | Classification  | Used for Sales Order BOM only. Not used  | 8  | NU |  |  |
| 171 | STPO | KZCLB         | CS_KZCLB  | as sel. cond.   | Used for Sales Order BOM only. Not used  | 1  | NU |  |  |
| 172 | STPO | AEHLP         | CC_AEHLP  | Helper Field    | Hierarchy indicator for Date shift   | 2  | NU |  |  |
| 173 | STPO | PRVBE         | PRVBE     | Supply Area     | Production Supply Area where this item is used in production, relevant for EWM.  | 10 | C  |  |  |
| 174 | STPO | IDPOS         | CS_IDPOS  | Item group      | Used only in case of ECN   | 20 | NU |  |  |
| 175 | STPO | IDHIS         | CS_IDHIS  | History counter | Used only in case of ECN   | 5  | NU |  |  |
| 176 | STPO | IDVAR         | CS_IDVAR  | Comp. Variant   | Used only in case of ECN   | 5  | NU |  |  |
| 177 | STPO | ALEKZ         | CS_ALEKZ  | ALE indicator   | Indicator that this BOM item has been created / changed via distribution from another system   | 1  | S  |  |  |
| 178 | STPO | ITMID         | CS_ITMID  | Item ID         | Item Identifier  | 8  | NU |  |  |
| 179 | STPO | GUID          | CS_CHAR22 | Not used        | Not used   | 22 | S  |  |  |
| 180 | STPO | ITSOB         | CS_SOBSL  | SpecProcurement | Special procurement key for this item (e.g. procurement from another plant, to direct production, etc.)  | 2  | C  |  |  |
| 181 | STPO | RFPNT         | CS_RFPNT  | Reference point | Used only for network activities. Not relevant for Sy-Way  | 20 | NU |  |  |
| 182 | STPO | GUIDX         | CS_GUID   | Guid            | Internal ID change item status   | 16 | S  |  |  |
| 183 | STPO | SGT_CMKZ      |           | Seg. maintained | Automatically maintained value by the system if segmentation is relevant   |    | S  |  |  |
| 184 | STPO | SGT_CATV      |           | Seg. Value      | Requirements Segment of Stock Segment to be used for this item   |    | NU |  |  |
| 185 | STPO | VALID_TO      |           | to              | Valid to date for this item. It is defined by the system when an item is substituted, based on the validity dates on the main screen   | 8  | S  |  |  |
| 186 | STPO | VALID_TO_RKEY |           | to              | Not used   |    | NU |  |  |
| 187 | STPO | ECN_TO        |           | Change No. To   | Only in case of ECN, Change number To  |    | NU |  |  |
| 188 | STPO | ECN_TO_RKEY   |           | Change No. To   | Only in case of ECN, Change number To  |    | NU |  |  |
| 189 | STPO | ABLAD         |           | Unloading Point | Free string to specify the unloading point for this material   |    | NU |  |  |

|     |      |                  |       |                      |  |    |    |  |  |
|-----|------|------------------|-------|----------------------|--|----|----|--|--|
| 190 | STPO | WEMPF            |       | Recipient            | Free string to specify the recipient for this material in this BOM                           |    | NU |  |  |
| 191 | STPO | STVKN_VERSN      |       | Item node            | Internal counter to identify uniquely the BOM item as a node in the system                   |    | S  |  |  |
| 192 | STPO | LASTCHANGED ATET |       | Time Stamp           | Time Stamp   | 8  | S  |  |  |
| 193 | STPO | PRELIMINARY_MAT  |       | Description          | Preliminary description for the material   |    | NU |  |  |
| 194 | STPO | SFWIND           |       | Software component   | Indicator: this item is a SW component   |    | NU |  |  |
| 195 | STPO | DUMMY_STPO_INCL  |       | Ext. Include         | Not used (maintenance)   |    | NU |  |  |
| 196 | STPO | CUFAC TOR        |       | NoCUInstances        | Number of compatible units. Not used   |    | NU |  |  |
| 197 | STPO | /SAPMP /MET_LRCH |       | Length Calc. Method  | Only for Variable Length calculation   |    | NU |  |  |
| 198 | STPO | /SAPMP /MAX_FERT |       | Max. Prod. Length    | Only for Variable Length calculation   |    | NU |  |  |
| 199 | STPO | /SAPMP /FIX_AS_J |       | Fix.Scrap Any Length | Only for Variable Length calculation   |    | NU |  |  |
| 200 | STPO | /SAPMP /FIX_AS_E |       | FixedScrap FirstLgth | Only for Variable Length calculation   |    | NU |  |  |
| 201 | STPO | /SAPMP /FIX_AS_L |       | Fix.Scrap Last Lngth | Only for Variable Length calculation   |    | NU |  |  |
| 202 | STPO | /SAPMP /ABL_ZAHL |       | No. R-I Lengths      | Only for Variable Length calculation   |    | NU |  |  |
| 203 | STPO | /SAPMP /RUND_FAK |       | Rounding Value       | Only for Variable Length calculation   |    | NU |  |  |
| 204 | STPO | FSH_LV MKZ       |       | Dev.vals maint.      | Only for Variable Length calculation   |    | NU |  |  |
| 205 | STPO | FSH_PG QR        |       | Qty Distr. prof.     | Qty distribution profile, not used   |    | NU |  |  |
| 206 | STPO | FSH_PG QRRF      |       | Qty Distr.Prof. Ref. | Qty distribution profile, not used   |    | NU |  |  |
| 207 | STPO | FSH_CRITICAL_CO  |       | Critical Component   | Critical component to be considered in feasibility analysis for Order Allocation.            |    | NU |  |  |
| 208 | STPO | FSH_CRITICAL_LE  |       | Critical Level       | Level of criticality for critical components in Order allocation                             |    | NU |  |  |
| 209 | STPO | PRODU CTTYPE     |       | Product Type Group   | to identify Services in case of usage of Service Entry Sheet, Not relevant for material BOMs |    | NU |  |  |
| 210 | STZU | STLTY            | STLTY | BOM category         | The entire STZU table is internally managed by the system                                    | 1  | S  |  |  |
| 211 | STZU | STLNR            | STLNR | BOM                  | The entire STZU table is internally managed by the system                                    | 8  | S  |  |  |
| 212 | STZU | STLAN            | STLAN | Usage                | The entire STZU table is internally managed by the system                                    | 1  | S  |  |  |
| 213 | STZU | EXSTL            | EXSTL | BOM group            | The entire STZU table is internally managed by the system                                    | 8  | S  |  |  |
| 214 | STZU | ALTST            | ALTST | Alternatives         | The entire STZU table is internally managed by the system                                    | 2  | S  |  |  |
| 215 | STZU | VARST            | VARST | Variants             | The entire STZU table is internally managed by the system                                    | 2  | S  |  |  |
| 216 | STZU | KBAUS            | KBAUS | ConfigurableBOM      | The entire STZU table is internally managed by the system                                    | 1  | S  |  |  |
| 217 | STZU | LTXSP            | LTXSP | Long Text Lang       | The entire STZU table is internally managed by the system                                    | 1  | S  |  |  |
| 218 | STZU | STLBE            | STLBE | Auth group           | The entire STZU table is internally managed by the system                                    | 4  | S  |  |  |
| 219 | STZU | ZTEXT            | ZTEXT | BOM Description      | The entire STZU table is internally managed by the system                                    | 40 | S  |  |  |
| 220 | STZU | WRKAN            | WRKAN | Created in pit       | The entire STZU table is internally managed by the system                                    | 4  | S  |  |  |
| 221 | STZU | HISDT            | HISDT | Date hist            | The entire STZU table is internally managed by the system                                    | 8  | S  |  |  |
| 222 | STZU | HISSR            | HISSR | Tech st hist         | The entire STZU table is internally managed by the system                                    | 4  | S  |  |  |
| 223 | STZU | HISTK            | HISTK | History ID           | The entire STZU table is internally managed by the system                                    | 2  | S  |  |  |
| 224 | STZU | STUEZ            | STUEZ | Max counters         | The entire STZU table is internally managed by the system                                    | 3  | S  |  |  |
| 225 | STZU | MAXKN            | MAXKN | Max nodes            | The entire STZU table is internally managed by the system                                    | 3  | S  |  |  |
| 226 | STZU | KZPLN            | KZPLN | Chge frm rtg         | The entire STZU table is internally managed by the system                                    | 1  | S  |  |  |

|     |      |           |           |  |   |    |   |  |  |
|-----|------|-----------|-----------|--|---|----|---|--|--|
| 227 | STZU | AENRL     | AENRL     | Last change no.  | The entire STZU table is internally managed by the system | 12 | S |  |  |
| 228 | STZU | CLSMX     | CLSMX     | Max. classif.  | The entire STZU table is internally managed by the system | 3  | S |  |  |
| 229 | STZU | STLDT     | STLDT     | Changed on   | The entire STZU table is internally managed by the system | 8  | S |  |  |
| 230 | STZU | STLTM     | STLTM     | Changed at   | The entire STZU table is internally managed by the system | 6  | S |  |  |
| 231 | STZU | MAXKAN    | MAXKAN    | Maximum edge   | The entire STZU table is internally managed by the system | 3  | S |  |  |
| 232 | STZU | TSTMP     | TSTMP     | Time stamp   | The entire STZU table is internally managed by the system | 15 | S |  |  |
| 233 | STZU | VERSNIND  | VERSNIND  | Versioning Relevant                                    | The entire STZU table is internally managed by the system | 1  | S |  |  |
| 234 | STXH | TDOBJE CT | TDOBJECT  | Text Object  | The entire STXH table is internally managed by the system | 10 | S |  |  |
| 235 | STXH | TDNAME    | TDNAME    | Text Name (Combination of BOM Number + Language + Key) | The entire STXH table is internally managed by the system | 70 | S |  |  |
| 236 | STXH | TDID      | TDID      | Text ID (e.g., "ST")                                   | The entire STXH table is internally managed by the system | 4  | S |  |  |
| 237 | STXH | TDSPRAS   | TDSPRAS   | Language Key   | The entire STXH table is internally managed by the system | 1  | S |  |  |
| 238 | STXH | TDVERSION | TDVERSION | Version Number of Text                                 | The entire STXH table is internally managed by the system | 4  | S |  |  |
| 239 | STXH | TDLOCK    | TDLOCK    | Lock Indicator for Text                                | The entire STXH table is internally managed by the system | 1  | S |  |  |
| 240 | STXL | CLUSTD    | CLUSTD    | Text Line (Compressed)                                 | The entire STXL table is internally managed by the system | —  | S |  |  |
| 241 | STXL | TDOBJE CT | TDOBJECT  | Text Object (Reference from STXH)                      | The entire STXL table is internally managed by the system | 10 | S |  |  |
| 242 | STXL | TDNAME    | TDNAME    | Text Name  | The entire STXL table is internally managed by the system | 70 | S |  |  |
| 243 | STXL | TDSPO     | TDSPO     | Text Line Sequence                                     | The entire STXL table is internally managed by the system | 3  | S |  |  |
| 237 | STXH | TDSPRAS   | TDSPRAS   | Language Key   | The entire STXH table is internally managed by the system | 1  | S |  |  |
| 238 | STXH | TDVERSION | TDVERSION | Version Number of Text                                 | The entire STXH table is internally managed by the system | 4  | S |  |  |
| 239 | STXH | TDLOCK    | TDLOCK    | Lock Indicator for Text                                | The entire STXH table is internally managed by the system | 1  | S |  |  |
| 240 | STXL | CLUSTD    | CLUSTD    | Text Line (Compressed)                                 | The entire STXL table is internally managed by the system | —  | S |  |  |
| 241 | STXL | TDOBJE CT | TDOBJECT  | Text Object (Reference from STXH)                      | The entire STXL table is internally managed by the system | 10 | S |  |  |
| 242 | STXL | TDNAME    | TDNAME    | Text Name  | The entire STXL table is internally managed by the system | 70 | S |  |  |
| 243 | STXL | TDSPO     | TDSPO     | Text Line Sequence                                     | The entire STXL table is internally managed by the system | 3  | S |  |  |

## 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 |
|----------|-------------|--|---|-----------------|---------------|
| 1038-001 | C1          | Invalid, Inactive or no material component created for the plant /material combination | Bill of Material as per Relevancy Criteria within a plant assigned with a Component which does not belong below:<br>1. Material Master (S2P) as per Relevancy Criteria within the same plant as BOM | Material        | PF2/WP2       |
| 1038-002 | C1          | BOM Base Unit of Measure Missing / incorrect.  | This error is unexpected, as all UoMs associated with the relevant materials have been properly mapped from the legacy system to the new system   | Unit of Measure | PF2/WP2       |

|          |    |  |  |                    |         |
|----------|----|--|--|--------------------|---------|
| 1038-003 | C1 | BOM Component UOM Missing / incorrect. | This error is unexpected, as all UoMs associated with the relevant materials have been properly mapped from the legacy system to the new system.   | Unit of Measure    | PF2/WP2 |
| 1038-004 | C2 | BOM Component Quantity is Zero         | BOM components with a quantity value of 0 will be excluded from the migration scope. However, if the material is categorized as a <b>by-product</b> and the component quantity is <b>negative</b> , it will still be considered in the Bill of Material and included in the migration. | Component Quantity | PF2/WP2 |
| 1038-005 | C1 | BOM Plant incorrect.                   | Only BOMs associated with in-scope plants will be migrated to S/4HANA  | Plant              | PF2/WP2 |
| 1038-006 | C1 | BOM Language Key incorrect.            | If a BOM (or material) contains text only in invalid or unsupported languages, the text will be migrated <b>as-is</b> , but the language key will be set to <b>EN (English)</b> in the target system.  | Language Key       | PF2/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.

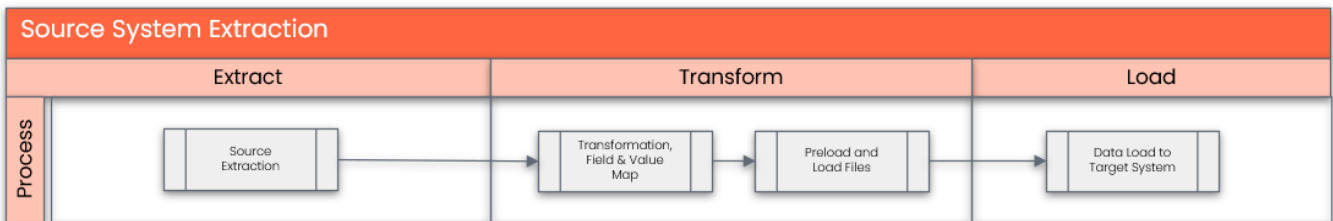
### 2. Transformation

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.

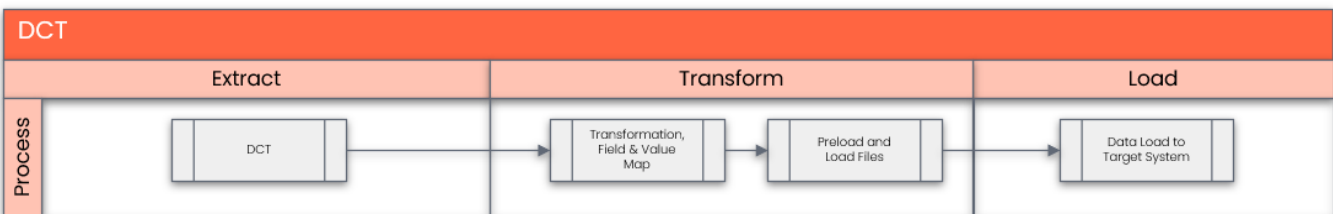
### 3. Loading

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 | - Identify the source systems and databases involved.<br>- Define the data objects (tables, fields, records) to be extracted.<br>- Establish business rules for data selection.                | Syniti /P2F Data team |
| Extraction Methodology      | - Specify the extraction approach (full, incremental, or delta extraction).<br>- Determine the tools and technologies used.<br>- Define data filtering criteria to exclude irrelevant records. | Syniti                |
| Extraction Execution Plan   | - Establish execution timelines and batch processing schedules.<br>- Assign responsibilities for extraction monitoring.<br>- Document dependencies on other migration tasks.                   | Syniti                |
| Data Quality and Validation | - Define error handling mechanisms for extraction failures.  | Syniti                |

## Selection Screen

| Selection Ref Screen | Parameter Name | Selection Type | Requirement | Value to be entered/set |
|----------------------|----------------|----------------|-------------|-------------------------|
| 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      | <b>Source System Availability</b> <ul style="list-style-type: none"> <li>• Ensure that the source database or application is accessible.</li> <li>• Confirm that necessary credentials and permissions are granted</li> </ul> | Syensqo IT       |

|   |  |          |
|---|--|----------|
| 2 | <b>Data Structure</b> <ul style="list-style-type: none"> <li>Identify relationships between tables, views, and stored procedures.</li> </ul>   | Syniti   |
| 3 | <b>Referential Integrity</b> <ul style="list-style-type: none"> <li>Ensure dependent records are extracted together.</li> </ul>  | Syniti   |
| 4 | <b>Extraction Methodology</b> <ul style="list-style-type: none"> <li>Define whether extraction is <b>full, incremental, or delta-based</b>.</li> <li>Establish batch processing schedules for large datasets.</li> </ul>   | Syniti   |
| 5 | <b>Performance and Scalability Considerations</b> <ul style="list-style-type: none"> <li>Optimize extraction queries to prevent system overload.</li> <li>Ensure network bandwidth supports data transfer volumes.</li> </ul>  | Syniti   |
| 6 | <b>Security and Compliance</b> <ul style="list-style-type: none"> <li>Adhere to regulatory standards for sensitive information if applicable</li> </ul>  | Syniti   |
| 7 | <b>Data cleansing of legacy Resource</b><br><br>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. | 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:

- Perform value mapping and data transformation rules.
  - Legacy values are mapped to the to-be values (this could include a default value)
  - Values are transformed according to the rules defined in
- 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:

- Perform value mapping and data transformation rules.
  - Legacy values are mapped to the to-be values (this could include a default value)
  - Values are transformed according to the rules defined in
- 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

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

|    |         |      |                 |                |         |      |                 |                |  |
|----|---------|------|-----------------|----------------|---------|------|-----------------|----------------|--|
| 1  | PF2/WP2 | MAST | MATNR           | Material       | S/4HANA | MAST | MATNR           | Material       | Legacy Material mapped to new Material Code in S/4HANA   |
| 2  | PF2/WP2 | MAST | WERKS           | Plant          | S/4HANA | MAST | WERKS           | Plant          | Map legacy Plant to new S/4HANA Plant (per mapping file)   |
| 3  | PF2/WP2 | MAST | STLAN           | Usage          | S/4HANA | MAST | STLAN           | Usage          | Transfer directly; Valid Value = 1 or 5  |
| 4  | PF2/WP2 | MAST | STLNR           | BOM            | S/4HANA | MAST | STLNR           | BOM            | System-generated internal BOM number during migration  |
| 5  | PF2/WP2 | MAST | STLAL           | Alternative    | S/4HANA | MAST | STLAL           | Alternative    | If it is non-numerical value then make it in sequence starting from the higher number of existing numerical value + 1 if it is numerical value then remain as it is  |
| 6  | PF2/WP2 | MAST | LOSVN           | From Lot Size  | S/4HANA | MAST | LOSVN           | From Lot Size  | Transfer directly if maintained; else default = 1  |
| 7  | PF2/WP2 | MAST | LOSBS           | To Lot Size    | S/4HANA | MAST | LOSBS           | To Lot Size    | Transfer directly if maintained; else default to 99999999  |
| 8  | PF2/WP2 | MAST | ANDAT           | Created On     | S/4HANA | MAST | ANDAT           | Created On     | System-generated field during load   |
| 9  | PF2/WP2 | MAST | ANNAM           | Created by     | S/4HANA | MAST | ANNAM           | Created by     | System-generated field during load   |
| 10 | PF2/WP2 | MAST | AEDAT           | Changed On     | S/4HANA | MAST | AEDAT           | Changed On     | System-generated field during load   |
| 11 | PF2/WP2 | MAST | AENAM           | Changed By     | S/4HANA | MAST | AENAM           | Changed By     | System-generated field during load   |
| 12 | PF2/WP2 | MAST | MATERIAL_BOM_KE | MBOM key       | S/4HANA | MAST | MATERIAL_BOM_KE | MBOM key       | Auto-generated by SAP during migration   |
| 13 | PF2/WP2 | STKO | STLTY           | BOM category   | S/4HANA | STKO | STLTY           | BOM category   | Default to "M" for Material BOMs   |
| 14 | PF2/WP2 | STKO | STLNR           | BOM            | S/4HANA | STKO | STLNR           | BOM            | Internal BOM number, system-generated  |
| 15 | PF2/WP2 | STKO | STLAL           | Alternative    | S/4HANA | STKO | STLAL           | Alternative    | If it is non-numerical value then make it in sequence starting from the higher number of existing numerical value + 1 if it is numerical value then remain as it is  |
| 16 | PF2/WP2 | STKO | STKOZ           | Counter        | S/4HANA | STKO | STKOZ           | Counter        | Sequential counter, auto-generated   |
| 17 | PF2/WP2 | STKO | DATUV           | Valid From     | S/4HANA | STKO | DATUV           | Valid From     | Default = BOM creation date unless specified otherwise   |
| 18 | PF2/WP2 | STKO | LOEKZ           | Deletion flag  | S/4HANA | STKO | LOEKZ           | Deletion flag  | Do not transfer if BOM is marked as Deleted  |
| 19 | PF2/WP2 | STKO | BMEIN           | Base UoM       | S/4HANA | STKO | BMEIN           | Base UoM       | Transfer from source material master   |
| 20 | PF2/WP2 | STKO | BMENG           | Base quantity  | S/4HANA | STKO | BMENG           | Base quantity  | Transfer directly from source  |
| 21 | PF2/WP2 | STKO | LABOR           | Lab/Office     | S/4HANA | STKO | LABOR           | Lab/Office     | Transfer if maintained; else leave blank   |
| 22 | PF2/WP2 | STKO | LTXSP           | Long Text Lang | S/4HANA | STKO | LTXSP           | Long Text Lang | Transfer directly if maintained  |
| 23 | PF2/WP2 | STKO | STLST           | BOM Status     | S/4HANA | STKO | STLST           | BOM Status     | PF2 is leading system for BOM Status. Therefore, For valid BOM from WP2 system must convert its BOM Status as per below:<br>Active (01) Released General (04)<br>Inactive (02) In creation (01)<br>Active with history rqmt (03) Released General (04) |
| 24 | PF2/WP2 | STKO | VALID_TO        | to             | S/4HANA | STKO | VALID_TO        | to             | Default = 31.12.9999 unless specified  |
| 25 | PF2/WP2 | STAS | STLTY           | BOM category   | S/4HANA | STAS | STLTY           | BOM category   | Default to "M" for Material BOMs   |
| 26 | PF2/WP2 | STAS | STLNR           | BOM            | S/4HANA | STAS | STLNR           | BOM            | System-generated internal number   |
| 27 | PF2/WP2 | STAS | STLAL           | Alternative    | S/4HANA | STAS | STLAL           | Alternative    | If it is non-numerical value then make it in sequence starting from the higher number of existing numerical value + 1 if it is numerical value then remain as it is  |
| 28 | PF2/WP2 | STAS | STASZ           | Counter        | S/4HANA | STAS | STASZ           | Counter        | Sequential counter assigned automatically  |
| 29 | PF2/WP2 | STAS | DATUV           | Valid From     | S/4HANA | STAS | DATUV           | Valid From     | BOM creation date unless overridden  |
| 30 | PF2/WP2 | STAS | TECHV           | Tech st from   | S/4HANA | STAS | TECHV           | Tech st from   | Not applicable   |
| 31 | PF2/WP2 | STAS | AENNR           | Change Number  | S/4HANA | STAS | AENNR           | Change Number  | Not applicable   |
| 32 | PF2/WP2 | STAS | LKENZ           | Deletion Ind.  | S/4HANA | STAS | LKENZ           | Deletion Ind.  | Not applicable   |
| 33 | PF2/WP2 | STPO | STLTY           | BOM category   | S/4HANA | STPO | STLTY           | BOM category   | Always mapped to "M" for Material BOMs   |
| 34 | PF2/WP2 | STPO | STLNR           | BOM            | S/4HANA | STPO | STLNR           | BOM            | BOM number auto-assigned   |
| 35 | PF2/WP2 | STPO | STPOZ           | Counter        | S/4HANA | STPO | STPOZ           | Counter        | Sequential item counter auto-assigned  |
| 36 | PF2/WP2 | STPO | DATUV           | Valid From     | S/4HANA | STPO | DATUV           | Valid From     | Default = BOM creation date unless specified   |
| 37 | PF2/WP2 | STPO | IDNRK           | Component      | S/4HANA | STPO | IDNRK           | Component      | Transfer legacy component; validate against Material Master  |
| 38 | PF2/WP2 | STPO | POSTP           | Item Category  | S/4HANA | STPO | POSTP           | Item Category  | Map to valid values (L = stock item, T = text item, D = document)  |
| 39 | PF2/WP2 | STPO | POSNR           | Item           | S/4HANA | STPO | POSNR           | Item           | Transfer directly  |
| 40 | PF2/WP2 | STPO | SORTF           | Sort String    | S/4HANA | STPO | SORTF           | Sort String    | Transfer directly if maintained  |
| 41 | PF2/WP2 | STPO | MEINS           | Component UoM  | S/4HANA | STPO | MEINS           | Component UoM  | Transfer from source   |
| 42 | PF2/WP2 | STPO | MENGE           | Quantity       | S/4HANA | STPO | MENGE           | Quantity       | Transfer from source   |

|    |         |      |       |                  |         |      |       |                  |   |
|----|---------|------|-------|------------------|---------|------|-------|------------------|---|
| 43 | PF2/WP2 | STPO | FMENG | Fixed Quantity   | S/4HANA | STPO | FMENG | Fixed Quantity   | Transfer if fixed qty flag maintained                     |
| 44 | PF2/WP2 | STPO | AUSCH | Component Scrap  | S/4HANA | STPO | AUSCH | Component Scrap  | Transfer if maintained                                    |
| 45 | PF2/WP2 | STPO | AVOAU | Operation Scrap  | S/4HANA | STPO | AVOAU | Operation Scrap  | Transfer if maintained                                    |
| 46 | PF2/WP2 | STPO | NETAU | Net Indicator    | S/4HANA | STPO | NETAU | Net Indicator    | Carry over indicator if maintained                        |
| 47 | PF2/WP2 | STPO | SCHGT | Bulk material    | S/4HANA | STPO | SCHGT | Bulk material    | Transfer if flagged                                       |
| 48 | PF2/WP2 | STPO | BEIKZ | Mat. Prov. Ind.  | S/4HANA | STPO | BEIKZ | Mat. Prov. Ind.  | Carry over from source                                    |
| 49 | PF2/WP2 | STPO | SANFE | Production       | S/4HANA | STPO | SANFE | Production       | Default "X" = relevant                                    |
| 50 | PF2/WP2 | STPO | SANKA | CostingRelevncy  | S/4HANA | STPO | SANKA | CostingRelevncy  | Transfer directly   |
| 51 | PF2/WP2 | STPO | REKRI | Recursive        | S/4HANA | STPO | REKRI | Recursive        | Auto-set if item makes BOM recursive                      |
| 52 | PF2/WP2 | STPO | REKRS | Rec. allowed     | S/4HANA | STPO | REKRS | Rec. allowed     | Transfer if valid   |
| 53 | PF2/WP2 | STPO | ALPOS | Alternat. item   | S/4HANA | STPO | ALPOS | Alternat. item   | Transfer directly if maintained                           |
| 54 | PF2/WP2 | STPO | EWAHR | Usage Prob.      | S/4HANA | STPO | EWAHR | Usage Prob.      | Transfer if valid in source                               |
| 55 | PF2/WP2 | STPO | LIFZT | Del time (days)  | S/4HANA | STPO | LIFZT | Del time (days)  | Transfer if maintained                                    |
| 56 | PF2/WP2 | STPO | LIFNR | Supplier         | S/4HANA | STPO | LIFNR | Supplier         | Refer to XREF of Vendor                                   |
| 57 | PF2/WP2 | STPO | PREIS | Price            | S/4HANA | STPO | PREIS | Price            | Transfer directly if maintained                           |
| 58 | PF2/WP2 | STPO | PEINH | Price unit       | S/4HANA | STPO | PEINH | Price unit       | Transfer directly   |
| 59 | PF2/WP2 | STPO | WAERS | Currency         | S/4HANA | STPO | WAERS | Currency         | Map legacy currency to S/4 currency codes                 |
| 60 | PF2/WP2 | STPO | SAKTO | Cost element     | S/4HANA | STPO | SAKTO | Cost element     | Transfer only if cost element valid in CO                 |
| 61 | PF2/WP2 | STPO | LTXSP | Long Text Lang   | S/4HANA | STPO | LTXSP | Long Text Lang   | Transfer if text maintained                               |
| 62 | PF2/WP2 | STPO | POTX1 | Item Text        | S/4HANA | STPO | POTX1 | Item Text        | Transfer BOM Item Short Text                              |
| 63 | PF2/WP2 | STPO | POTX2 | Item Text        | S/4HANA | STPO | POTX2 | Item Text        | Transfer BOM Item Long Text                               |
| 64 | PF2/WP2 | STPO | LGORT | Storage Location | S/4HANA | STPO | LGORT | Storage Location | Map using Plant-Storage Location mapping                  |
| 65 | PF2/WP2 | STPO | KZKUP | Co-product       | S/4HANA | STPO | KZKUP | Co-product       | Carry over flag if BOM item defined as co-product         |
| 66 | PF2/WP2 | STPO | ALPST | Strategy         | S/4HANA | STPO | ALPST | Strategy         | Transfer directly if maintained                           |
| 67 | PF2/WP2 | STPO | ALPRF | Priority         | S/4HANA | STPO | ALPRF | Priority         | Carry over priority values                                |
| 68 | PF2/WP2 | STPO | ALPGR | AltItemGroup     | S/4HANA | STPO | ALPGR | AltItemGroup     | Transfer if maintained                                    |
| 69 | PF2/WP2 | STPO | KZNFN | Follow-Up Item   | S/4HANA | STPO | KZNFN | Follow-Up Item   | Transfer only if valid                                    |
| 70 | PF2/WP2 | STPO | NFGRP | Follow-up group  | S/4HANA | STPO | NFGRP | Follow-up group  | Transfer if valid   |
| 71 | PF2/WP2 | STPO | NFEAG | Discont. group   | S/4HANA | STPO | NFEAG | Discont. group   | Transfer if valid   |
| 72 | PF2/WP2 | STPO | PRVBE | Supply Area      | S/4HANA | STPO | PRVBE | Supply Area      | Transfer directly if mapped                               |
| 73 | PF2/WP2 | STPO | ITSOB | SpecProcurement  | S/4HANA | STPO | ITSOB | SpecProcurement  | Map legacy key to new S/4 procurement key                 |
| 74 | PF2/WP2 | STZU | STLTY | BOM category     | S/4HANA | STZU | STLTY | BOM category     | Default to "M" for Material BOMs                          |
| 75 | PF2/WP2 | STZU | STLNR | BOM              | S/4HANA | STZU | STLNR | BOM              | The entire STZU table is internally managed by the system |
| 76 | PF2/WP2 | STZU | STLAN | Usage            | S/4HANA | STZU | STLAN | Usage            | The entire STZU table is internally managed by the system |
| 77 | PF2/WP2 | STZU | EXSTL | BOM group        | S/4HANA | STZU | EXSTL | BOM group        | The entire STZU table is internally managed by the system |
| 78 | PF2/WP2 | STZU | ALTST | Alternatives     | S/4HANA | STZU | ALTST | Alternatives     | The entire STZU table is internally managed by the system |
| 79 | PF2/WP2 | STZU | VARST | Variants         | S/4HANA | STZU | VARST | Variants         | The entire STZU table is internally managed by the system |
| 80 | PF2/WP2 | STZU | KBAUS | ConfigurableBOM  | S/4HANA | STZU | KBAUS | ConfigurableBOM  | The entire STZU table is internally managed by the system |
| 81 | PF2/WP2 | STZU | LTXSP | Long Text Lang   | S/4HANA | STZU | LTXSP | Long Text Lang   | The entire STZU table is internally managed by the system |
| 82 | PF2/WP2 | STZU | STLBE | Auth group       | S/4HANA | STZU | STLBE | Auth group       | The entire STZU table is internally managed by the system |
| 83 | PF2/WP2 | STZU | ZTEXT | BOM Description  | S/4HANA | STZU | ZTEXT | BOM Description  | The entire STZU table is internally managed by the system |
| 84 | PF2/WP2 | STZU | WRKAN | Created in plt   | S/4HANA | STZU | WRKAN | Created in plt   | The entire STZU table is internally managed by the system |
| 85 | PF2/WP2 | STZU | HISDT | Date hist        | S/4HANA | STZU | HISDT | Date hist        | The entire STZU table is internally managed by the system |
| 86 | PF2/WP2 | STZU | HISSR | Tech st hist     | S/4HANA | STZU | HISSR | Tech st hist     | The entire STZU table is internally managed by the system |
| 87 | PF2/WP2 | STZU | HISTK | History ID       | S/4HANA | STZU | HISTK | History ID       | The entire STZU table is internally managed by the system |
| 88 | PF2/WP2 | STZU | STUEZ | Max counters     | S/4HANA | STZU | STUEZ | Max counters     | The entire STZU table is internally managed by the system |

|     |         |      |           |  |         |      |           |  |   |
|-----|---------|------|-----------|--|---------|------|-----------|--|---|
| 89  | PF2/WP2 | STZU | MAXKN     | Max nodes  | S/4HANA | STZU | MAXKN     | Max nodes  | The entire STZU table is internally managed by the system   |
| 90  | PF2/WP2 | STZU | KZPLN     | Chge frm rtg   | S/4HANA | STZU | KZPLN     | Chge frm rtg   | The entire STZU table is internally managed by the system   |
| 91  | PF2/WP2 | STZU | AENRL     | Last change no.  | S/4HANA | STZU | AENRL     | Last change no.  | The entire STZU table is internally managed by the system   |
| 92  | PF2/WP2 | STZU | CLSMX     | Max. classif.  | S/4HANA | STZU | CLSMX     | Max. classif.  | The entire STZU table is internally managed by the system   |
| 93  | PF2/WP2 | STZU | STLDT     | Changed on   | S/4HANA | STZU | STLDT     | Changed on   | The entire STZU table is internally managed by the system   |
| 94  | PF2/WP2 | STZU | STLTM     | Changed at   | S/4HANA | STZU | STLTM     | Changed at   | The entire STZU table is internally managed by the system   |
| 95  | PF2/WP2 | STZU | MAXKAN    | Maximum edge   | S/4HANA | STZU | MAXKAN    | Maximum edge   | The entire STZU table is internally managed by the system   |
| 96  | PF2/WP2 | STZU | TSTMP     | Time stamp   | S/4HANA | STZU | TSTMP     | Time stamp   | The entire STZU table is internally managed by the system   |
| 97  | PF2/WP2 | STZU | VERSNIND  | Versioning Relevant                                    | S/4HANA | STZU | VERSNIND  | Versioning Relevant                                    | The entire STZU table is internally managed by the system   |
| 98  | PF2/WP2 | STXH | TDOBJECT  | Text Object (e.g., "STKO")                             | S/4HANA | STXH | TDOBJECT  | Text Object (e.g., "STKO")                             | Default to "BOM"  |
| 99  | PF2/WP2 | STXH | TDNAME    | Text Name (Combination of BOM Number + Language + Key) | S/4HANA | STXH | TDNAME    | Text Name (Combination of BOM Number + Language + Key) | The STXH table data will be migrated <b>as-is</b> from the current system to <b>S/4HANA</b> , with no modifications, ensuring consistency and traceability of existing records. |
| 100 | PF2/WP2 | STXH | TDID      | Text ID (e.g., "ST")                                   | S/4HANA | STXH | TDID      | Text ID (e.g., "ST")                                   | The STXH table data will be migrated <b>as-is</b> from the current system to <b>S/4HANA</b> , with no modifications, ensuring consistency and traceability of existing records. |
| 101 | PF2/WP2 | STXH | TDSPRAS   | Language Key   | S/4HANA | STXH | TDSPRAS   | Language Key   | The STXH table data will be migrated <b>as-is</b> from the current system to <b>S/4HANA</b> , with no modifications, ensuring consistency and traceability of existing records. |
| 102 | PF2/WP2 | STXH | TDVERSION | Version Number of Text                                 | S/4HANA | STXH | TDVERSION | Version Number of Text                                 | The STXH table data will be migrated <b>as-is</b> from the current system to <b>S/4HANA</b> , with no modifications, ensuring consistency and traceability of existing records. |
| 103 | PF2/WP2 | STXH | TDLOCK    | Lock Indicator for Text                                | S/4HANA | STXH | TDLOCK    | Lock Indicator for Text                                | The STXH table data will be migrated <b>as-is</b> from the current system to <b>S/4HANA</b> , with no modifications, ensuring consistency and traceability of existing records. |
| 104 | PF2/WP2 | STXL | CLUSTD    | Text Line (Compressed)                                 | S/4HANA | STXL | CLUSTD    | Text Line (Compressed)                                 | The STXL table data will be migrated <b>as-is</b> from the current system to <b>S/4HANA</b> , with no modifications, ensuring consistency and traceability of existing records. |
| 105 | PF2/WP2 | STXL | TDOBJECT  | Text Object (Reference from STXH)                      | S/4HANA | STXL | TDOBJECT  | Text Object (Reference from STXH)                      | Default to "BOM"  |
| 106 | PF2/WP2 | STXL | TDNAME    | Text Name  | S/4HANA | STXL | TDNAME    | Text Name  | The STXL table data will be migrated <b>as-is</b> from the current system to <b>S/4HANA</b> , with no modifications, ensuring consistency and traceability of existing records. |
| 107 | PF2/WP2 | STXL | TDSPO     | Text Line Sequence                                     | S/4HANA | STXL | TDSPO     | Text Line Sequence                                     | The STXL table data will be migrated <b>as-is</b> from the current system to <b>S/4HANA</b> , with no modifications, ensuring consistency and traceability of existing records. |

## Transformation Mapping

| Mapping Table Name    | Mapping Table Description  |
|-----------------------|--|
| Material              | Mapping of legacy Material Number to new Material Number in target system. (To be discussed later) |
| Plant                 | Mapping of legacy Plants to new Plants to target system value. (To be discussed later)             |
| Unit of Measure (UoM) | Mapping of legacy Units of Measure to ISO-compliant Units of Measure in S/4HANA.                   |
| Storage Location      | Mapping of legacy Storage Locations to new Storage Location keys in S/4HANA.                       |

## 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   |
|----------------------|--|
| Conversion Accuracy  | SyWay P2F-MFG Data Team to verify that all fields below meet pass the checks: <ol style="list-style-type: none"> <li>1. Mandatory Fields</li> <li>2. Field and Value Mapping Correctness</li> <li>3. Null Checks</li> <li>4. Text Length Checks</li> </ol> |
| 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 BOMs are created and maintained  |
| 2      | T001L – Storage Locations: Assignment of storage locations for BOM components.  |
| 3      | T006 – Units of Measurement: ISO-compliant UoM definitions for BOM component quantities   |
| 4      | T134 – Material Types: BOM-relevant material type definitions (e.g., ROH, HALB, FERT)   |
| 5      | T141 – MRP Group: Assignment of BOM-relevant materials to planning groups.  |
| 6      | TC04 – Item Categories: Configuration of BOM item categories (e.g., L = Stock item, T = Text item, D = Document, R = Class item).   |
| 7      | TC05 – BOM Usage: Definition of BOM usage (1 = Production, 2 = Engineering, 3 = Sales & Distribution, 4 = Plant Maintenance, etc.). |
| 8      | T416 – BOM Explosion Types: Control of explosion behavior for multilevel BOMs   |
| 9      | TC07 – BOM Statuses: Definition of BOM status values (Active, Inactive, Under Engineering)  |
| 10     | T417 – Alternative Determination: Configuration of rules for BOM alternatives selection   |
| 11     | T430 – Control Keys: Assignment of control keys for operations (used if BOM integrated with routing/master recipe).                 |
| 12     | TC24 – Person Responsible: Assignment of responsibility for BOM maintenance (optional, if integrated with work centers)             |
| 13     | T460A – Special Procurement Types: Used for subcontracting or special BOM items.  |

### Conversion Objects

| Object # | Preceding Object Conversion Approach   |
|----------|--|
| 2005     | Material Master - MRP Views            |
| 2008     | Material Master - Work Scheduling View |

### Error Handling

| Error Type | Error Description | Action Taken |
|------------|-------------------|--------------|
|------------|-------------------|--------------|

|   |  |  |
|---|--|--|
| 1 | BOM header material does not exist in the target plant                 | Verify that the material master exists in the target plant and reprocess once the material is available.                 |
| 2 | BOM usage not valid for migration (e.g., usage outside 1 – Production) | Adjust BOM usage in the collection template to valid values (e.g., 1 = Production) before reloading.                     |
| 3 | Component material missing in target system                            | Confirm that the component is part of the material master migration and load the material before retrying BOM migration. |
| 4 | Unit of Measure (UoM) mismatch between BOM and material master         | Ensure UoM mapping table is correct and that BOM UoM aligns with material master settings.                               |
| 5 | Duplicate BOM records for the same material /plant/usage               | Perform deduplication and retain only the valid active BOM in the collection file.                                       |
| 6 | BOM item quantity missing or set to zero                               | Validate that all BOM items have valid quantities; correct missing or zero values in collection file.                    |
| 7 | Obsolete or marked-for-deletion components                             | Exclude such components from migration as per data cleansing rules.  |

## 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 BOM 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 BOM data load.
- Data cleansing has been completed to ensure only active, valid, and relevant Production BOMs are migrated. BOMs marked for deletion, inactive materials, or obsolete plants are excluded.

- Only BOM Usage 1 (Production BOMs) and BOM Usage 5 (Sales BOMs) are in scope for migration. Other usages (e.g., Engineering, or Plant-specific BOMs) are explicitly excluded unless approved as part of an exception process.
- Component materials used in Production BOMs are assumed to be migrated first and available in the target system (dependency on Material Master migration).
- Unit of Measure (UoM) mapping is harmonized between source and target systems, ensuring that BOM component quantities align with material master definitions in S/4HANA.
- Number ranges for Production BOMs are preconfigured in S/4HANA, and internal numbering will be applied during migration unless specified otherwise.
- Enrichment activities (such as resolving missing item categories, missing scrap factors, or obsolete components) are handled outside the automated migration process and require manual intervention or business sign-off.
- Not all legacy BOM fields (e.g., CAD indicators, document links, or legacy-specific flags) will be migrated to S/4HANA; only fields required for production planning, costing, and shop-floor execution are considered in scope.

## See also

[CNV-2005 Material Master - MRP Views](#)

[CNV-2006 Material Master PPDS View](#)

[CNV-2008 Material Master Work Scheduling View](#)

[CNV-2009 Material Master QM view](#)

## Change log

| Version                | Published                 | Changed By                           | Comment   |
|------------------------|---------------------------|--------------------------------------|---|
| <b>CURRENT (v. 62)</b> | <b>Apr 22, 2026 13:52</b> | <b>SUSANTO-ext, William</b>          | Section Update - Minor Update v6.0                      |
| <a href="#">v. 61</a>  | Apr 16, 2026 11:28        | <a href="#">SUSANTO-ext, William</a> | Section Update - Minor Update (new Cleansing Rule) v5.0 |
| <a href="#">v. 60</a>  | Apr 01, 2026 08:00        | <a href="#">SUSANTO-ext, William</a> | Section Update - Minor Update v 4.0                     |
| <a href="#">v. 59</a>  | Mar 26, 2026 10:36        | <a href="#">SUSANTO-ext, William</a> | Section Update - Minor Update v3.0                      |
| <a href="#">v. 58</a>  | Mar 25, 2026 10:48        | <a href="#">SUSANTO-ext, William</a> | Section Update - Conversion Spec Minor Update v2.0      |
| <a href="#">v. 57</a>  | Feb 24, 2026 08:40        | <a href="#">SUSANTO-ext, William</a> | Section Update - Conversion Spec Minor Update v1.0      |
| <a href="#">v. 56</a>  | Feb 19, 2026 17:01        | <a href="#">SUSANTO-ext, William</a> | Section Update - Conversion Scope - DCT Draft v4.0      |
| <a href="#">v. 55</a>  | Feb 18, 2026 09:45        | <a href="#">SUSANTO-ext, William</a> | Section Update - Conversion Scope - DCT Draft v3.0      |
| <a href="#">v. 54</a>  | Feb 16, 2026 09:43        | <a href="#">SUSANTO-ext, William</a> | Section Update - Conversion Scope - DCT Draft v2.0      |
| <a href="#">v. 53</a>  | Feb 11, 2026 08:48        | <a href="#">SUSANTO-ext, William</a> | Section Update - Conversion Scope - DCT Draft v1.0      |

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## Workflow history

| Title | Last Updated By | Updated | Status |
|-------|-----------------|---------|--------|
|-------|-----------------|---------|--------|

There are no pages at the moment.