

# CNV-2001 Material Listing and Exclusions

Status	Approved
Owner	LIU-ext, Ekawati
Stakeholders	

## Purpose

The purpose of this document is to define the data conversion approach to create Material Listing and Exclusions in S/4 HANA.

Material Listing and Exclusion functionality in SAP enables control over which materials a customer is permitted or restricted from purchasing. A listing defines materials that a specific customer is allowed to buy, whereas an exclusion specifies materials they are not permitted to purchase. This functionality is essential for enforcing customer-specific sales restrictions.

In SAP S/4HANA, the structure and usage of Material Listing and Exclusion remains consistent with the ECC system, primarily based on combinations such as customer/ material or sales organization/ distribution channel/ customer/ material.

However, in SAP ECC, additional table combinations exist beyond the standard structures. Examples include:

- Destination Country/Material Group
- Destination Country/Region/Material
- Material/Plant/Ship-to Party
- Material/Plant/Sold-to Party
- Sales Organization/ Customer/ Material
- Sales Organization/Destination Country
- Sales Organization/Departure Country
- Material/Destination Country/Region
- Sales Organization/ Material/ Customer
- Material/Destination Country
- Sales Organization/Material/Destination Country

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

## Conversion Scope

The scope of this document covers the approach for converting active Material Listing and Exclusions records from Legacy Source Systems into S/4HANA following the Material Listing and Exclusions Master Data Design Standard: DD-FUN-050 Master Data Standard\_2001-Material Listing and Exclusions.

From the current system landscape, Material Listing and Exclusions exist in the both legacy systems - PF2 and WP2. Harmonization and validation are required to ensure the accurate and consolidated data in S/4HANA. While PF2 and WP2 serve as source systems, a 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. All active Material Listing or Material Exclusions records, where "valid to date is beyond S/4HANA Go-Live date" AND must meet one or more of the applicable table combination criteria below:
  - a. Customer/ Sold-to/ Ship-to sales view migrated as per CNV-3003 Business Partners - Customer (Sales and Service) - FLCU01
  - b. Material sales view migrated as per CNV-2003 Materials - Sales view with sales long text.
  - c. Sales organization is in scope of S/4HANA
  - d. Plant is in scope of S/4HANA
  - e. Material Group is in scope of S/4HANA
  - f. Country (Departure/ Destination) must be within S/4HANA scope
  - g. Region must be within S/4HANA scope

The data from legacy system excludes:

1. Invalid Material Listing or Material Exclusions, e.g. table KOTG905 - PF2 (Material/ Sales Organization) or KOTG905 - WP2 (Sales Organization/ Sales Document Type/ Item Category Group).

20260227-Eka: Refer to CR0279 - Update Conversion Specs to remove mention of CUI System

20260420-Eka: Refer to CR0455 - L2C CNV-3003 Distribution channel logic enhancement: Update this Conversion Specs Distribution Channel logic to follow CNV-3003

List of source systems and approximate number of records

20251208 - MDS updated with following:

1. Source table: KOTG001 - Customer/ Material and KOTG913 - Sales Organization/ Material/ Customer will not be included for migration (Deleted).
2. Source table: KOTG004 - Sales Organization/ Distribution Channel/ Customer/ Material will not be included for migration and replaced with KOTG946 (New table for eCommerce).
3. Mapping for source table: KOTG962 - Material/ Destination Country updated from S/4HANA KOTG910 to KOTG907.
4. Mapping for source table: KOTG521 - Destination Country/ Region/ Material updated from S/4HANA KOTG902 to KOTG909. Note: the sequence in table PF2 - KOTG521 and S/4HANA - KOTG909 are not the same.
  - KOTG521-LAND1 (seq #2) transform to KOTG909-LAND1 (seq #3)
  - KOTG521-REGIO (seq #3) transform to KOTG909-REGIO (seq #4)
  - KOTG521-MATNR (seq #4) transform to KOTG909-MATNR (seq #2)
5. New source table: KOTG945 - Sales Organization/ Distribution Channel/ Material mapped to S/4HANA table KOTG902.

Source System	Listing/ Exclusions - Condition Type	Scope	Source Approx No. of Records	Target System	Target Approx No. of Records
WP2	ZB01 - RCS Exclusion	Table: KOTG906 Listing/exclusion type - Sales Organization - Customer - Material - Valid to - Valid From	20,000	S/4HANA ROW	20,000
WP2	ZB01 - RCS Exclusion	Table: KOTG906 Listing/exclusion type - Sales Organization - Customer - Material - Valid to - Valid From	0	S/4HANA China	0
WP2	ZB01 - RCS Exclusion	Table: KOTG908 Listing/exclusion type - Sales Organization - Departure country - Valid to - Valid From	20	S/4HANA ROW	20
WP2	ZB01 - RCS Exclusion	Table: KOTG908 Listing/exclusion type - Sales Organization - Departure country - Valid to - Valid From	0	S/4HANA China	0
WP2	ZB01 - RCS Exclusion	Table: KOTG909 Listing/exclusion type - Material - Destination Country - Region - Valid to - Valid From	5,000	S/4HANA ROW	5,000
WP2	ZB01 - RCS Exclusion	Table: KOTG909 Listing/exclusion type - Material - Destination Country - Region - Valid to - Valid From	5,000	S/4HANA China	5,000
WP2	ZREA - REACH Exclusion	Table: KOTG962 Listing/exclusion type - Material - Destination Country - Valid to - Valid From	20	S/4HANA ROW	20
WP2	ZREA - REACH Exclusion	Table: KOTG962 Listing/exclusion type - Material - Destination Country - Valid to - Valid From	20	S/4HANA China	20
WP2	ZREA - REACH Exclusion	Table: KOTG964 Listing/exclusion type - Sales Organization - Material - Destination Country - Valid to - Valid From	10,000	S/4HANA ROW	10,000
WP2	ZREA - REACH Exclusion	Table: KOTG964 Listing/exclusion type - Sales Organization - Material - Destination Country - Valid to - Valid From	0	S/4HANA China	0
WP2	ZE03 - eComm Material/ Customer	Table: KOTG945 Listing/exclusion type - Sales Organization - Distribution Channel - Material - Valid to - Valid From *As at 8-De-2025: only 1 sales organization has data = FRAZ	750	S/4HANA ROW	750
WP2	ZE03 - eComm Material/ Customer	Table: KOTG945 Listing/exclusion type - Sales Organization - Distribution Channel - Material - Valid to - Valid From *As at 8-De-2025: only 1 sales organization has data = FRAZ	0	S/4HANA China	0
WP2	ZE03 - eComm Material/ Customer	Table: KOTG946 Listing/exclusion type - Sales Organization - Distribution Channel - Customer - Material - Valid to - Valid From *As at 8-De-2025: only 5 sales organization has data = FRAZ, GB34, IT07, NL05, US05	5,000	S/4HANA ROW	5,000
WP2	ZE03 - eComm Material/ Customer	Table: KOTG946 Listing/exclusion type - Sales Organization - Distribution Channel - Customer - Material - Valid to - Valid From *As at 8-De-2025: only 5 sales organization has data = FRAZ, GB34, IT07, NL05, US05	0	S/4HANA China	0
PF2	EXCL - Exclusion ERP	Table: KOTG501 Listing/exclusion type - Destination Country - Material Group - Valid to - Valid From	15,000	S/4HANA ROW	15,000

PF2	EXCL - Exclusion ERP	Table: KOTG501 Listing/exclusion type - Destination Country - Material Group - Valid to - Valid From	15,000	S/4HANA China	15,000
PF2	EXCL - Exclusion ERP	Table: KOTG521 Listing/exclusion type - Destination Country - Region - Material - Valid to - Valid From	10	S/4HANA ROW	10
PF2	EXCL - Exclusion ERP	Table: KOTG521 Listing/exclusion type - Destination Country - Region - Material - Valid to - Valid From	10	S/4HANA China	10
PF2	ZEXC - Exclusion ERP	Table: KOTG521 Listing/exclusion type - Destination Country - Region - Material - Valid to - Valid From	10	S/4HANA ROW	10
PF2	ZEXC - Exclusion ERP	Table: KOTG521 Listing/exclusion type - Destination Country - Region - Material - Valid to - Valid From	10	S/4HANA China	10
PF2	EXCL - Exclusion ERP	Table: KOTG903 List/excl. - Material - Plant - Ship-To Party - Valid to - Valid From	10	S/4HANA ROW	10
PF2	EXCL - Exclusion ERP	Table: KOTG903 List/excl. - Material - Plant - Ship-To Party - Valid to - Valid From	10	S/4HANA China	10
PF2	EXCL - Exclusion ERP	Table: KOTG904 List/excl. - Material - Plant - Sold-To Party - Valid to - Valid From	10	S/4HANA ROW	10
PF2	EXCL - Exclusion ERP	Table: KOTG904 List/excl. - Material - Plant - Sold-To Party - Valid to - Valid From	10	S/4HANA China	10
PF2	EXCL - Exclusion ERP	Table: KOTG906 Sales org. - Destination Country - Valid to - Valid From	75	S/4HANA ROW	75
PF2	EXCL - Exclusion ERP	Table: KOTG906 Sales org. - Destination Country - Valid to - Valid From	20	S/4HANA China	20

## Additional Information

### Multi-language Requirement

N/A

### Document Management

N/A

### Legal Requirement

N/A

### Special Requirements

Due to compliance requirement, there will be one S/4HANA instance for Rest of the World (ROW) and one for China ~~and one for CU~~.

Following logic to identify the record is for SAP China, ~~CU~~ or ROW Instance:

1. Material Listing and Exclusions with sales organizations in the table in-scope; to be migrated to respective S/4HANA instance.
2. Material Listing and Exclusions without sales organization in the table in-scope, e.g. Destination Country/Material Group; to be migrated to all 2 instances (ROW, ~~CU~~ and China).

## Target Design

Material Listing and Exclusions Data strictly adheres to the Master Data Standard. The complete information of the tables and key fields that hold the Material Listing and Exclusions 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
KOTG004	KSCHL	KSCHG	Listing/exclusion type	CHAR	4	Mandatory
KOTG004	VKORG	VKORG	Sales Organization	CHAR	4	Mandatory

KOTG004	VTWEG	VTWEG	Distribution Channel	CHAR	2	Mandatory
KOTG004	KUNNR	KUNNR_V	Customer	CHAR	10	Mandatory
KOTG004	MATNR	MATNR	Material	CHAR	18	Mandatory
KOTG004	DATBI	KODATBI	Valid to	DATS	8	Mandatory
KOTG004	DATAB	KODATAB	Valid From	DATS	8	Mandatory
KOTG900	KSCHL	KSCHG	Listing/exclusion type	CHAR	4	Mandatory
KOTG900	VKORG	VKORG	Sales Organization	CHAR	4	Mandatory
KOTG900	KUNNR	KUNNR_V	Customer	CHAR	10	Mandatory
KOTG900	MATNR	MATNR	Material	CHAR	18	Mandatory
KOTG900	DATBI	KODATBI	Valid to	DATS	8	Mandatory
KOTG900	DATAB	KODATAB	Valid From	DATS	8	Mandatory
KOTG908	KSCHL	KSCHG	Listing/exclusion type	CHAR	4	Mandatory
KOTG908	VKORG	VKORG	Sales Organization	CHAR	4	Mandatory
KOTG908	ALAND	ALAND	Departure country	CHAR	3	Mandatory
KOTG908	DATBI	KODATBI	Valid to	DATS	8	Mandatory
KOTG908	DATAB	KODATAB	Valid From	DATS	8	Mandatory
KOTG909	KSCHL	KSCHG	Listing/exclusion type	CHAR	4	Mandatory
KOTG909	MATNR	MATNR	Material	CHAR	18	Mandatory
KOTG909	LAND1	LLAND	Destination Country	CHAR	3	Mandatory
KOTG909	REGIO	REGIO	Region	CHAR	3	Mandatory
KOTG909	DATBI	KODATBI	Valid to	DATS	8	Mandatory
KOTG909	DATAB	KODATAB	Valid From	DATS	8	Mandatory
KOTG907	KSCHL	KSCHG	Listing/exclusion type	CHAR	4	Mandatory
KOTG907	MATNR	MATNR	Material	CHAR	18	Mandatory
KOTG907	LAND1	LLAND	Destination Country	CHAR	3	Mandatory
KOTG907	DATBI	KODATBI	Valid to	DATS	8	Mandatory
KOTG907	DATAB	KODATAB	Valid From	DATS	8	Mandatory
KOTG905	KSCHL	KSCHG	Listing/exclusion type	CHAR	4	Mandatory
KOTG905	VKORG	VKORG	Sales Organization	CHAR	4	Mandatory
KOTG905	MATNR	MATNR	Material	CHAR	18	Mandatory
KOTG905	LAND1	LLAND	Destination Country	CHAR	3	Mandatory
KOTG905	DATBI	KODATBI	Valid to	DATS	8	Mandatory
KOTG905	DATAB	KODATAB	Valid From	DATS	8	Mandatory
KOTG901	KSCHL	KSCHG	Listing/exclusion type	CHAR	4	Mandatory
KOTG901	LAND1	LLAND	Destination Country	CHAR	3	Mandatory
KOTG901	MATKL	MATKL	Material Group	CHAR	9	Mandatory
KOTG901	DATBI	KODATBI	Valid to	DATS	8	Mandatory
KOTG901	DATAB	KODATAB	Valid From	DATS	8	Mandatory
KOTG902	KSCHL	KSCHG	Listing/exclusion type	CHAR	4	Mandatory
KOTG902	<del>LAND1</del> VKORG	VKORG	Sales Organization	CHAR	4	Mandatory
KOTG902	<del>REGIO</del> VTWEG	VTWEG	Distribution Channel	CHAR	2	Mandatory
KOTG902	MATNR	MATNR	Material	CHAR	18	Mandatory
KOTG902	DATBI	KODATBI	Valid to	DATS	8	Mandatory
KOTG902	DATAB	KODATAB	Valid From	DATS	8	Mandatory
KOTG903	KSCHL	KSCHG	Listing/exclusion type	CHAR	4	Mandatory

KOTG903	MATNR	MATNR	Material	CHAR	18	Mandatory
KOTG903	WERKS	WERKS_D	Plant	CHAR	4	Mandatory
KOTG903	KUNWE	KUNWE	Ship-to Party	CHAR	10	Mandatory
KOTG903	DATBI	KODATBI	Valid to	DATS	8	Mandatory
KOTG903	DATAB	KODATAB	Valid From	DATS	8	Mandatory
KOTG904	KSCHL	KSCHG	Listing/exclusion type	CHAR	4	Mandatory
KOTG904	MATNR	MATNR	Material	CHAR	18	Mandatory
KOTG904	WERKS	WERKS_D	Plant	CHAR	4	Mandatory
KOTG904	KUNAG	KUNAG	Sold-to Party	CHAR	10	Mandatory
KOTG904	DATBI	KODATBI	Valid to	DATS	8	Mandatory
KOTG904	DATAB	KODATAB	Valid From	DATS	8	Mandatory
KOTG906	KSCHL	KSCHG	Listing/exclusion type	CHAR	4	Mandatory
KOTG906	VKORG	VKORG	Sales Organization	CHAR	4	Mandatory
KOTG906	LAND1	LLAND	Destination Country	CHAR	3	Mandatory
KOTG906	DATBI	KODATBI	Valid to	DATS	8	Mandatory
KOTG906	DATAB	KODATAB	Valid From	DATS	8	Mandatory

## Data Cleansing

All data cleansing should take place in the data source system as defined in this document, unless system limitations prevent it.

Cleansing reports should include/ consider the relevancy rule.

20260202 - Output update based on the Table.

ID	Criticality	Error Message /Report Description	Rule	Output	Source System
2001-001	C1	Customer with flag for deletion	<p>Flag for deletion for all area (KNA1-LOEVM) OR flag for deletion at company code level (KNB1-LOEVM) OR flag for deletion at sales area level (KNVV-LOEVM) is 'X' - Yes  For WP2 - table: <b>KOTG906</b>  <b>and KOTG946</b>  For PF2 - table: KOTG903 and KOTG904  *Company code:  IF KOTGxxx has VKORG, get TVKO-  BUKRS, where TVKO-VKORG =  KOTGxxx-VKORG</p> <p>IF KOTGxxx does not have VKORG, <b>only get flag for deletion at general data (KNA1-LOEVM).</b></p>	<p>PF2 - KOTG903</p> <p>Source System/ Table/ Table Description/ Material Listing or Exclusion Type/ Material Listing or Exclusion Type Description/ Material/ Material Description/ Plant/ Plant Description/ Ship-to Party/ Ship-to Party Name/ Ship-to Party Country/ Flag for deletion at general data level</p> <p>PF2 - KOTG904</p> <p>Source System/ Table/ Table Description/ Material Listing or Exclusion Type/ Material Listing or Exclusion Type Description/ Material/ Material Description/ Plant/ Plant Description/ Sold-to Party/ Sold-to Party Name/ Sold-to Party Country/ Flag for deletion at general data level</p> <p>WP2 - KOTG906 and KOTG946</p> <p>Source System/ Table/ Table Description/ Material Listing or Exclusion Type/ Material Listing or Exclusion Type Description/ Customer/ Customer Name/ Customer Country/ Sales Organization/ Sales Organization Description/ Distribution Channel/ Distribution Channel Description/ Division/ Division Description/ Company Code/ Company Code Description/ Flag for deletion at general data level/ Flag for deletion at sales area level/ Flag for deletion at company code level/ Customer availability in sales area/ Customer availability in company code</p>	PF2/ WP2

2001-002	C1	Customer with posting block	<p>Posting block for all company code (KNA1-SPERR) OR posting block at company code level (KNB1-SPERR) is "X" - Yes  For WP2 - table: <b>KOTG906</b> and <b>KOTG946</b>  For PF2 - table: KOTG903 and KOTG904  *Company code:  IF KOTGxxx has VKORG, get TVKO-  BUKRS, where TVKO-VKORG =  KOTGxxx-VKORG</p> <p>IF KOTGxxx does not have VKORG, only  get posting block at general data (KNA1-  SPERR).</p>	<p><b>PF2 - KOTG903</b></p> <p>Source System/ Table/ Table Description/ Material Listing or Exclusion Type/ Material Listing or Exclusion Type Description/ Material/ Material Description/ Plant/ Plant Description/ Ship-to Party/ Ship-to Party Name/ Ship-to Party Country/ Posting block at general data level</p> <p><b>PF2 - KOTG904</b></p> <p>Source System/ Table/ Table Description/ Material Listing or Exclusion Type/ Material Listing or Exclusion Type Description/ Material/ Material Description/ Plant/ Plant Description/ Sold-to Party/ Sold-to Party Name/ Sold-to Party Country/ Posting block at general data level</p> <p><b>WP2 - KOTG906</b></p> <p>Source System/ Table/ Table Description/ Material Listing or Exclusion Type/ Material Listing or Exclusion Type Description/ Customer/ Customer Name/ Customer Country/ Sales Organization/ Sales Organization Description/ Company Code/ Company Code Description/ Posting block at general data level/ Posting block at company code level/ Customer availability in company code</p> <p><b>WP2 - KOTG946</b></p> <p>Source System/ Table/ Table Description/ Material Listing or Exclusion Type/ Material Listing or Exclusion Type Description/ Customer/ Customer Name/ Customer Country/ Sales Organization/ Sales Organization Description/ Distribution Channel/ Distribution Channel Description/ Company Code/ Company Code Description/ Posting block at general data level/ Posting block at company code level/ Customer availability in company code</p>	PF2/ WP2
2001-003	C1	Customer with sales block	<p>Sales block for all sales area (KNA1-CASSD) OR sales block at sales area level (KNVV-CASSD) is "X" - Yes  For WP2 - table: <b>KOTG906</b> and <b>KOTG946</b>  For PF2 - table: KOTG903 and KOTG904  **Sales organization:  IF KOTGxxx does not have VKORG, only  get sales block at general data (KNA1-  CASSD).</p>	<p><b>PF2 - KOTG903</b></p> <p>Source System/ Table/ Table Description/ Material Listing or Exclusion Type/ Material Listing or Exclusion Type Description/ Material/ Material Description/ Plant/ Plant Description/ Ship-to Party/ Ship-to Party Name/ Ship-to Party Country/ Sales block at general data level</p> <p><b>PF2 - KOTG904</b></p> <p>Source System/ Table/ Table Description/ Material Listing or Exclusion Type/ Material Listing or Exclusion Type Description/ Material/ Material Description/ Plant/ Plant Description/ Sold-to Party/ Sold-to Party Name/ Sold-to Party Country/ Sales block at general data level</p> <p><b>WP2 - KOTG906 and KOTG946</b></p> <p>Source System/ Table/ Table Description/ Material Listing or Exclusion Type/ Material Listing or Exclusion Type Description/ Customer/ Customer Name/ Customer Country/ Sales Organization/ Sales Organization Description/ Distribution Channel/ Distribution Channel Description/ Division/ Division Description/ Sales block at general data level/ Sales block at sales area level/Customer availability in sales area</p>	PF2/ WP2
2001-004	C1	Customer with order block, delivery block or billing block	<p>Order block for all sales area (KNA1-AUFSD) OR order block at sales area level (KNVV-AUFSD) OR delivery block for all sales area (KNA1-LIFSD) OR delivery block at sales area level (KNVV-LIFSD) OR billing block for all sales area (KNA1-FAKSD) OR billing block at sales area level (KNVV-FAKSD) is NOT BLANK.  For WP2 - table: <b>KOTG906</b> and <b>KOTG946</b>  For PF2 - table: KOTG903 and KOTG904  **Sales organization:  IF KOTGxxx does not have VKORG, only  get order block at general data (KNA1-  AUFSD) OR delivery block at general  data (KNA1-LIFSD) OR billing block at  general data (KNA1-FAKSD)</p>	<p><b>PF2 - KOTG903</b></p> <p>Source System/ Table/ Table Description/ Material Listing or Exclusion Type/ Material Listing or Exclusion Type Description/ Material/ Material Description/ Plant/ Plant Description/ Ship-to Party/ Ship-to Party Name/ Ship-to Party Country/ Order block at general data level/ Order block at general data level description/ Delivery block at general data level/ Delivery block at general data level description/ Billing block at general data level/ Billing block at general data level description</p> <p><b>PF2 - KOTG904</b></p> <p>Source System/ Table/ Table Description/ Material Listing or Exclusion Type/ Material Listing or Exclusion Type Description/ Material/ Material Description/ Plant/ Plant Description/ Sold-to Party/ Sold-to Party Name/ Sold-to Party Country/ Order block at general data level/ Order block at general data level description/ Delivery block at general data level/ Delivery block at general data level description/ Billing block at general data level/ Billing block at general data level description</p> <p><b>WP2 - KOTG906 and KOTG946</b></p> <p>Source System/ Table/ Table Description/ Material Listing or Exclusion Type/ Material Listing or Exclusion Type Description/ Customer/ Customer Name/ Customer Country/ Sales Organization/ Sales Organization Description/ Distribution Channel/ Distribution Channel Description/ Division/ Division Description/ Order block at general data level/ Order block at general data level description/ Delivery block at general data level/ Delivery block at general data level description/ Billing block at general data level/ Billing block at general data level description/ Order block at sales area level/ Order block at sales area level description/ Delivery block at sales area level/ Delivery block at sales area level description/ Billing block at sales area level/ Billing block at sales area level description/ Customer availability in sales area</p>	PF2/ WP2

2001-005	C1	Material with flag for deletion	<p>Flag for deletion at client level (MARA-LVORM) OR flag for deletion at distribution chain level (MVKE-LVORM) is 'X' - Yes</p> <p>For WP2 - table: KOTG906, KOTG909, KOTG945, KOTG946, KOTG962 and KOTG964 For PF2 - table: KOTG521 **Sales organization: IF KOTGxxx does not have VKORG, only get flag for deletion at client level (MARA-LVORM)</p> <p>For PF2 - table: KOTG903 and KOTG904 Flag for deletion at client level (MARA-LVORM) OR flag for deletion at plant level (MARC-LVORM) is 'X' - Yes</p>	<p>PF2 - KOTG521</p> <p>Source System/ Table/ Table Description/ Material Listing or Exclusion Type/ Material Listing or Exclusion Type Description/ Destination Country/ Destination Country Description/ Region/ Region Description/ Material/ Material Description/ Flag for Deletion at General Data Level</p> <p>PF2 - KOTG903 and KOTG904</p> <p>Source System/ Table/ Table Description/ Material Listing or Exclusion Type/ Material Listing or Exclusion Type Description/ Material/ Material Description/ Plant/ Plant Description/ Flag for Deletion at General Data Level/ Flag for Deletion at Plant Data Level/ Material Availability in Plant</p> <p>WP2 - KOTG906 and KOTG946</p> <p>Source System/ Table/ Table Description/ Material Listing or Exclusion Type/ Material Listing or Exclusion Type Description/ Sales Organization/ Sales Organization Description/ Distribution Channel/ Distribution Channel Description/ Customer/ Customer Name/ Customer Country/ Material/ Material Description/ Flag for Deletion at General Data level/ Flag for Deletion at Sales Data Level/ Material availability in Sales Area</p> <p>WP2 - KOTG909 and KOTG962</p> <p>Source System/ Table/ Table Description/ Material Listing or Exclusion Type/ Material Listing or Exclusion Type Description/ Material/ Material Description/ Flag for Deletion at General Data Level</p> <p>WP2 - KOTG945 and KOTG964</p> <p>Source System/ Table/ Table Description/ Material Listing or Exclusion Type/ Material Listing or Exclusion Type Description/ Sales Organization/ Sales Organization Description/ Distribution Channel/ Distribution Channel Description/ Material/ Material Description/ Flag for Deletion at General Data level/ Flag for Deletion at Sales Data Level/ Material availability in Sales Area</p>	PF2/ WP2
2001-006	C1	Material with distribution-chain material status	<p>Cross-distribution-chain material status (MARA-MSTAV) OR Distribution-chain-specific material status (MVKE-VMSTA) is NOT BLANK</p> <p>For WP2 - table: KOTG906, KOTG909, KOTG945, KOTG946, KOTG962 and KOTG964 For PF2 - table: KOTG521 **Sales organization: IF KOTGxxx does not have VKORG, only get Cross-distribution-chain material status (MARA-MSTAV)</p> <p>For PF2 - table: KOTG903 and KOTG904 Cross-distribution-chain material status (MARA-MSTAV) OR Plant Specific Material Status (MARC-MMSTA) is NOT BLANK</p> <p>20260303-Eka: KNVV table needs to be joined to check corresponding customer, sales organization and distribution channel against material sales area for KOTG906 and KOTG946</p>	<p>PF2 - KOTG521</p> <p>Source System/ Table/ Table Description/ Material Listing or Exclusion Type/ Material Listing or Exclusion Type Description/ Destination Country/ Destination Country Description/ Region/ Region Description/ Material/ Material Description/ Cross Distribution Chain Material Status/ Cross Distribution Chain Material Status Description/ Cross Distribution Chain Material Status Valid From</p> <p>PF2 - KOTG903 and KOTG904</p> <p>Source System/ Table/ Table Description/ Material Listing or Exclusion Type/ Material Listing or Exclusion Type Description/ Material/ Material Description/ Plant/ Plant Description/ Cross Distribution Chain Material Status/ Cross Distribution Chain Material Status Description/ Cross Distribution Chain Material Status Valid From/ Cross Plant Material Status/ Cross Plant Material Status Description/ Cross Plant Material Status Valid From/ Plant Specific Material Status/ Plant Specific Material Status Description/ Plant Specific Material Status Valid From/ Material Availability in Plant</p> <p>WP2 - KOTG906 and KOTG946</p> <p>Source System/ Table/ Table Description/ Material Listing or Exclusion Type/ Material Listing or Exclusion Type Description/ Sales Organization/ Sales Organization Description/ Distribution Channel/ Distribution Channel Description/ Customer/ Customer Name/ Customer Country/ Material/ Material Description/ Cross Distribution Chain Material Status/ Cross Distribution Chain Material Status Description/ Cross Distribution Chain Material Status Valid From/ Distribution Chain Specific Material Status/ Distribution Chain Specific Material Status Description/ Distribution Chain Specific Material Status Valid From/ Material availability in Sales Area</p> <p>WP2 - KOTG909 and KOTG962</p> <p>Source System/ Table/ Table Description/ Material Listing or Exclusion Type/ Material Listing or Exclusion Type Description/ Material/ Material Description/ Cross Distribution Chain Material Status/ Cross Distribution Chain Material Status Description/ Cross Distribution Chain Material Status Valid From</p> <p>WP2 - KOTG945 and KOTG964</p> <p>Source System/ Table/ Table Description/ Material Listing or Exclusion Type/ Material Listing or Exclusion Type Description/ Sales Organization/ Sales Organization Description/ Distribution Channel/ Distribution Channel Description/ Material/ Material Description/ Cross Distribution Chain Material Status/ Cross Distribution Chain Material Status Description/ Cross Distribution Chain Material Status Valid From/ Distribution Chain Specific Material Status/ Distribution Chain Specific Material Status Description/ Distribution Chain Specific Material Status Valid From/ Material availability in Sales Area</p>	PF2/ WP2
2001-007	C1	Duplicate Material Listing and Exclusions records by distribution channel	<p>Table: KOTG945 with the same sales organization and same material but different distribution channel and KOTG946 with the same sales organization, same customer and same material but different distribution channel (re: transformation rule)</p>	<p>KOTG945</p> <p>Source System/ Table/ Table Description/ Material Listing or Exclusion Type/ Material Listing or Exclusion Type Description/ Sales Organization/ Sales Organization Description/ Distribution Channel/ Distribution Channel Description/ Material/ Material Description/ Valid From/ Valid To</p> <p>KOTG946</p> <p>Source System/ Table/ Table Description/ Material Listing or Exclusion Type/ Material Listing or Exclusion Type Description/ Sales Organization/ Sales Organization Description/ Distribution Channel/ Distribution Channel Description/ Customer/ Customer Name/ Customer Country/ Material/ Material Description/ Valid From/ Valid To</p>	WP2

2001-008	C1	Customer in Listing and Exclusions without sales view	Table: KOTG903 and KOTG904 Customer does not have sales view for sales organization assigned to plant in Listing and Exclusions table: KNVV-KUNNR = KOTG903/ KOTG904-KUNNR and KNVV-VKORG = TVKWZ-VKORG (sales organization in scope), where TVKWZ-WERKS = KOTG903/ KOTG904-WERKS but not found.	KOTG903  Source System/ Table/ Table Description/ Material Listing or Exclusion Type/ Material Listing or Exclusion Type Description/ Material/ Material Description/ Plant/ Plant Description/ Ship-to Party/ Ship-to Party Name/ Ship-to Party Country  KOTG904  Source System/ Table/ Table Description/ Material Listing or Exclusion Type/ Material Listing or Exclusion Type Description/ Material/ Material Description/ Plant/ Plant Description/ Sold-to Party/ Sold-to Party Name/ Sold-to Party Country	PF2
2001-009	C1	Material in Listing and Exclusions without sales view	Table: KOTG903 and KOTG904 Material does not have sales view for sales organization assigned to plant in Listing and Exclusions table: MVKE-MATNR = KOTG903/ KOTG904-MATNR and MVKE-VKORG = TVKWZ-VKORG (sales organization in scope), where TVKWZ-WERKS = KOTG903/ KOTG904-WERKS but not found.	Source System/ Table/ Table Description/ Material Listing or Exclusion Type/ Material Listing or Exclusion Type Description/ Material/ Material Description/ Plant/ Plant Description	PF2
2001-010	C1	Data in listing and exclusions but NO sales document	KOTG903  1. Join VAPMA and VBPA (PARVW = SH) where AUDAT within the last 4 year 2. Check if Plant, Material and Ship-to do not exist in point #1  KOTG904  1. VAPMA where AUDAT within the last 4 year 2. Check if Plant, Material and Sold-to do not exist in point #1	Source System/ Table/ Table Description/ Material Listing or Exclusion Type/ Material Listing or Exclusion Type Description/ Material/ Material Description/ Plant/ Plant Description/ Sold-to Party or Ship-to Party/ Sold-to Party or Ship-to Party Name/ Sold-to Party or Ship-to Party Country/ Valid From/ Valid To	PF2

**How to clean:** Header data invalid - Data cleanser to delete all item data in the Material Listing and Exclusions, Item data invalid - Data cleanser to delete the invalid item data only.

## 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 WP2 and PF2. The extracted data is then staged for transformation.

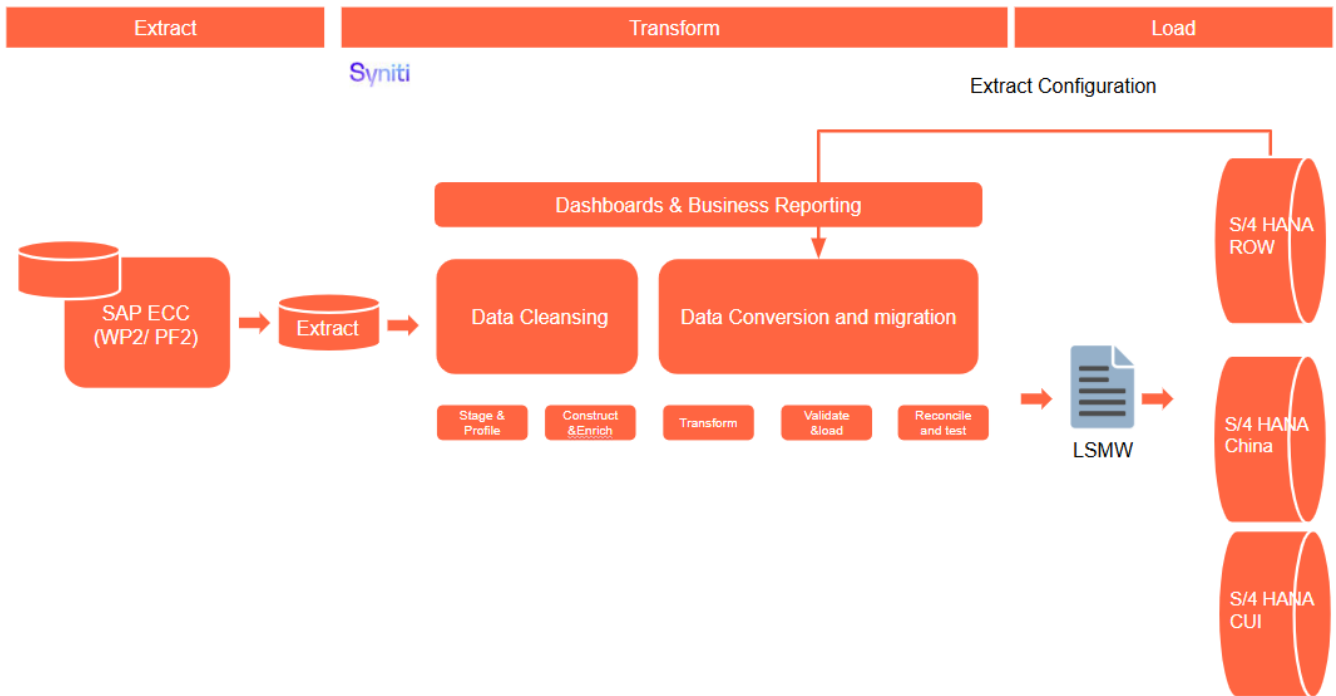
### 2. Transformation

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.



## Data Privacy and Sensitivity

N/A

## Extraction

Extract data from a SAP ECC WP2 and PF2 into Syniti Migrate for S/4HANA. Syniti Migrate connects to the source and loads the data 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
2001-001	- Identify the source systems (WP2 and PF2) and databases involved. - Define the data objects (tables such as KOTGxxx) to be extracted. - Establish business rules for data selection.	LTC Data team
2001-002	- Specify the extraction approach (full, incremental, or delta extraction). - Determine the tools and technologies used. - Define data filtering criteria to exclude irrelevant records.	Syniti
2001-003	- Establish execution timelines and batch processing schedules. - Assign responsibilities for extraction monitoring. - Document dependencies on other migration tasks.	Syniti
2001-004	- Define error handling mechanisms for extraction failures.	Syniti

## Selection Screen

Selection Ref Screen	Parameter Name	Selection Type	Requirement	Value to be entered/set
	Valid To Date	Single	Select Data that are valid from this (Valid to) date	Date
	Listing/ Exclusions Table	Multiple	Valid listing/ exclusions table for extraction	Table
	Sales Organization	Multiple	Valid sales organization for extraction	In-scope Sales Organization
	Plant	Multiple	Valid plant for extraction	In-scope Plant

## Data Collection Template (DCT)

### DCT Rules

Field Name	Field Description	Rule
N/A		

## Extraction Dependencies

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 full, incremental, or delta-based.</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

## 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 Syniti Migrate 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 Syniti Migrate
- 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	Identify target S/4HANA fields and determine applicable legacy source fields from ECC system (PF2/ WP2).	Functional Team (L2C) + Data Team (L2C)
2	Map legacy field values to S/4HANA target values (including field-level mapping and technical names)	Data Team (L2C), Data Team (Syniti)
3	Define value mapping rules for fields requiring standardization or harmonization across the source systems	Functional Team (L2C) + Data Team (L2C)
4	Identify and agree on default values where legacy data is incomplete or inconsistent	Business Team + Functional Team (L2C)
5	Configure transformation rules in Syniti Migrate	Data Team (Syniti)
6	Review transformation logic and mappings with Business for confirmation	Business Team + Functional Team (L2C)
7	Perform initial transformation run and generate draft target-ready dataset	Data Team (Syniti)
8	Review draft target-ready data for structure and completeness	Data Team (L2C), Functional Team (L2C)
9	Share transformed data with Business for Pre-load Validation	Business Team
10	Incorporate feedback from Business and refine mappings or transformation logic as needed	Data Team (L2C)
11	Finalize and approve transformed data as Target Ready Load File	Business + Functional (L2C) + Data Team (L2C)
12	Handover final file to Load Team or trigger the load via Syniti Load Workbench	Data Team (Syniti), Data Load Team

# Transformation Rules

Rule #	Source System	Source Table	Source Field	Source Description	Target System	Target Table	Target Field	Target Description	Mapping Table	Transformation Logic
<b>Material Listing and Exclusions</b>										
<b>Data Extraction Logic for Material Listing and Exclusions</b>										
<p>1. Identify Relevant Listing/ Exclusions Types            All Listing/ Exclusions type in the mapping table will be in-scope for extraction. There are multiple Listing/ Exclusions type used in ECC, e.g. ZB01 - RCS Exclusions (WP2), ZREA - REACH Exclusion (WP2), <b>ZE03 - eComm Material/Customer (WP2)</b>, EXCL - Exclusion ERP (PF2), ZEXC - Exclusion ERP (PF2).</p> <p>2. Process by Source System            Perform the extraction steps from source system, i.e. WP2 and PF2.</p> <p>3. Extract data from all tables below.            Extract Customer, Departure Country, Destination Country, Distribution Channel, Listing/ Exclusions Type, Material, Material Group, Plant, Region, Sales Organization, Ship-to Party, Sold-to Party, Valid From and Valid To with the following:            Filter #1:            - Validity Date (DATBI): include only records with validity greater than the cut-off date defined for the current conversion cycle (as specified on the selection screen).            - Sales Organization (VKORG): include only records for in-scope Sales Organizations provided in the parameter list.            From WP2 - table: KOTG906, KOTG908, KOTG945, KOTG946, and KOTG964            From PF2 - table: KOTG906</p> <p>Filter #2:            - Validity Date (DATBI): include only records with validity greater than the cut-off date defined for the current conversion cycle (as specified on the selection screen).            - Plant (WERKS): include only records for in-scope Plants provided in the parameter list.            From PF2 - table: KOTG903 and KOTG904</p> <p>Filter #3:            - Validity Date (DATBI): include only records with validity greater than the cut-off date defined for the current conversion cycle (as specified on the selection screen).            From WP2 - table: KOTG909 and KOTG962            From PF2 - table: KOTG501 and KOTG521</p> <p>4. For fields related to Customer/ Sold-to Party/ Ship-to Party, Material Master, Departure/ Destination Country, Listing/ Exclusions Type, Sales Organization, Distribution Channel, Plant Material Group and Region, include records only if the corresponding migrated target value exists in the target system.            Note: for Customer/ Sold-to Party/ Ship-to Party and Material Master, IF the material listing and exclusions table does not have sales organization, check records against table KNA1 (for Customer/ Sold-to Party/ Ship-to Party) and MARA (for Material Master)</p> <p>20260420-Eka: Refer to CR0455 - L2C CNV-3003 Distribution channel logic enhancement: Update this Conversion Specs Distribution Channel logic to follow CNV-3003</p>										
2001-006	WP2	<b>KOTG946</b>	KSCHL	Listing/exclusion type	S/4HANA	KOTG004	KSCHL	Listing/exclusion type	MAP_KSCHL_KOTG-V	Mapping
2001-007	WP2	<b>KOTG946</b>	VKORG	Sales Organization	S/4HANA	KOTG004	VKORG	Sales Organization	MAP_VKORG	Mapping
2001-008	WP2	<b>KOTG946</b>	VTWEG	Distribution Channel	S/4HANA	KOTG004	VTWEG	Distribution Channel	Rule	<b>RULE:</b> Refer to CNV-3003 Special Requirements C. Distribution Channel Transformation Fetch S4 distribution channel for corresponding customer and material combination.
2001-009	WP2	<b>KOTG946</b>	KUNNR	Customer	S/4HANA	KOTG004	KUNNR	Customer	MAP_KUNNR	Mapping
2001-010	WP2	<b>KOTG946</b>	MATNR	Material	S/4HANA	KOTG004	MATNR	Material	MAP_MATNR	Mapping
2001-011	WP2	<b>KOTG946</b>	DATBI	Valid to	S/4HANA	KOTG004	DATBI	Valid to		Copy

2001-012	WP2	KOTG946	DATAB	Valid From	S/4HANA	KOTG004	DATAB	Valid From		Copy
2001-013	WP2	KOTG906	KSCHL	Listing/exclusion type	S/4HANA	KOTG900	KSCHL	Listing/exclusion type	MAP_KSCHL_KOTG-V	Mapping
2001-014	WP2	KOTG906	VKORG	Sales Organization	S/4HANA	KOTG900	VKORG	Sales Organization	MAP_VKORG	Mapping
2001-015	WP2	KOTG906	KUNNR	Customer	S/4HANA	KOTG900	KUNNR	Customer	MAP_KUNNR	Mapping
2001-016	WP2	KOTG906	MATNR	Material	S/4HANA	KOTG900	MATNR	Material	MAP_MATNR	Mapping
2001-017	WP2	KOTG906	DATBI	Valid to	S/4HANA	KOTG900	DATBI	Valid to		Copy
2001-018	WP2	KOTG906	DATAB	Valid From	S/4HANA	KOTG900	DATAB	Valid From		Copy
2001-019	WP2	KOTG908	KSCHL	Listing/exclusion type	S/4HANA	KOTG908	KSCHL	Listing/exclusion type	MAP_KSCHL_KOTG-V	Mapping
2001-020	WP2	KOTG908	VKORG	Sales Organization	S/4HANA	KOTG908	VKORG	Sales Organization	MAP_VKORG	Mapping
2001-021	WP2	KOTG908	ALAND	Departure country	S/4HANA	KOTG908	ALAND	Departure country		Copy
2001-022	WP2	KOTG908	DATBI	Valid to	S/4HANA	KOTG908	DATBI	Valid to		Copy
2001-023	WP2	KOTG908	DATAB	Valid From	S/4HANA	KOTG908	DATAB	Valid From		Copy
2001-024	WP2	KOTG909	KSCHL	Listing/exclusion type	S/4HANA	KOTG909	KSCHL	Listing/exclusion type	MAP_KSCHL_KOTG-V	Mapping
2001-025	WP2	KOTG909	MATNR	Material	S/4HANA	KOTG909	MATNR	Material	MAP_MATNR	Mapping
2001-026	WP2	KOTG909	LAND1	Destination Country	S/4HANA	KOTG909	LAND1	Destination Country		Copy
2001-027	WP2	KOTG909	REGIO	Region	S/4HANA	KOTG909	REGIO	Region	MAP_REGION	Mapping
2001-028	WP2	KOTG909	DATBI	Valid to	S/4HANA	KOTG909	DATBI	Valid to		Copy
2001-029	WP2	KOTG909	DATAB	Valid From	S/4HANA	KOTG909	DATAB	Valid From		Copy
2001-036	WP2	KOTG962	KSCHL	Listing/exclusion type	S/4HANA	KOTG907	KSCHL	Listing/exclusion type	MAP_KSCHL_KOTG-V	Mapping
2001-037	WP2	KOTG962	MATNR	Material	S/4HANA	KOTG907	MATNR	Material	MAP_MATNR	Mapping
2001-038	WP2	KOTG962	LAND1	Destination Country	S/4HANA	KOTG907	LAND1	Destination Country		Copy
2001-039	WP2	KOTG962	DATBI	Valid to	S/4HANA	KOTG907	DATBI	Valid to		Copy
2001-040	WP2	KOTG962	DATAB	Valid From	S/4HANA	KOTG907	DATAB	Valid From		Copy
2001-041	WP2	KOTG964	KSCHL	Listing/exclusion type	S/4HANA	KOTG905	KSCHL	Listing/exclusion type	MAP_KSCHL_KOTG-V	Mapping
2001-042	WP2	KOTG964	VKORG	Sales Organization	S/4HANA	KOTG905	VKORG	Sales Organization	MAP_VKORG	Mapping
2001-043	WP2	KOTG964	MATNR	Material	S/4HANA	KOTG905	MATNR	Material	MAP_MATNR	Mapping
2001-044	WP2	KOTG964	LAND1	Destination Country	S/4HANA	KOTG905	LAND1	Destination Country		Copy
2001-045	WP2	KOTG964	DATBI	Valid to	S/4HANA	KOTG905	DATBI	Valid to		Copy
2001-046	WP2	KOTG964	DATAB	Valid From	S/4HANA	KOTG905	DATAB	Valid From		Copy
2001-047	PF2	KOTG501	KSCHL	Listing/exclusion type	S/4HANA	KOTG901	KSCHL	Listing/exclusion type	MAP_KSCHL_KOTG-V	Mapping
2001-048	PF2	KOTG501	LAND1	Destination Country	S/4HANA	KOTG901	LAND1	Destination Country		Copy
2001-049	PF2	KOTG501	MATKL	Material Group	S/4HANA	KOTG901	MATKL	Material Group	MAP_MATKL	Mapping
2001-050	PF2	KOTG501	DATBI	Valid to	S/4HANA	KOTG901	DATBI	Valid to		Copy
2001-051	PF2	KOTG501	DATAB	Valid From	S/4HANA	KOTG901	DATAB	Valid From		Copy
2001-052	WP2	KOTG945	KSCHL	Listing/exclusion type	S/4HANA	KOTG902	KSCHL	Listing/exclusion type	MAP_KSCHL_KOTG-V	Mapping
2001-053	WP2	KOTG945	VKORG	Sales Organization	S/4HANA	KOTG902	VKORG	Sales Organization	MAP_VKORG	Mapping
2001-054	WP2	KOTG945	VTWEG	Distribution Channel	S/4HANA	KOTG902	VTWEG	Distribution Channel		RULE: Refer to CNV-3003 Special Requirements C. Distribution Channel Transformation Fetch S4 distribution channel for corresponding material.
2001-055	WP2	KOTG945	MATNR	Material	S/4HANA	KOTG902	MATNR	Material	MAP_MATNR	Mapping
2001-056	WP2	KOTG945	DATBI	Valid to	S/4HANA	KOTG902	DATBI	Valid to		Copy
2001-057	WP2	KOTG945	DATAB	Valid From	S/4HANA	KOTG902	DATAB	Valid From		Copy
2001-058	PF2	KOTG903	KSCHL	Listing/exclusion type	S/4HANA	KOTG903	KSCHL	Listing/exclusion type	MAP_KSCHL_KOTG-V	Mapping
2001-059	PF2	KOTG903	MATNR	Material	S/4HANA	KOTG903	MATNR	Material	MAP_MATNR	Mapping
2001-060	PF2	KOTG903	WERKS	Plant	S/4HANA	KOTG903	WERKS	Plant	MAP_WERKS	Mapping
2001-061	PF2	KOTG903	KUNWE	Ship-to Party	S/4HANA	KOTG903	KUNWE	Ship-to Party	MAP_KUNNR	Mapping
2001-062	PF2	KOTG903	DATBI	Valid to	S/4HANA	KOTG903	DATBI	Valid to		Copy
2001-063	PF2	KOTG903	DATAB	Valid From	S/4HANA	KOTG903	DATAB	Valid From		Copy
2001-064	PF2	KOTG904	KSCHL	Listing/exclusion type	S/4HANA	KOTG904	KSCHL	Listing/exclusion type	MAP_KSCHL_KOTG-V	Mapping
2001-065	PF2	KOTG904	MATNR	Material	S/4HANA	KOTG904	MATNR	Material	MAP_MATNR	Mapping
2001-066	PF2	KOTG904	WERKS	Plant	S/4HANA	KOTG904	WERKS	Plant	MAP_WERKS	Mapping
2001-067	PF2	KOTG904	KUNAG	Sold-to Party	S/4HANA	KOTG904	KUNAG	Sold-to Party	MAP_KUNNR	Mapping
2001-068	PF2	KOTG904	DATBI	Valid to	S/4HANA	KOTG904	DATBI	Valid to		Copy
2001-069	PF2	KOTG904	DATAB	Valid From	S/4HANA	KOTG904	DATAB	Valid From		Copy

2001-070	PF2	KOTG906	KSCHL	Listing/exclusion type	S/4HANA	KOTG906	KSCHL	Listing/exclusion type	MAP_KSCHL_KOTG-V	Mapping
2001-071	PF2	KOTG906	VKORG	Sales Organization	S/4HANA	KOTG906	VKORG	Sales Organization	MAP_VKORG	Mapping
2001-072	PF2	KOTG906	LAND1	Destination Country	S/4HANA	KOTG906	LAND1	Destination Country		Copy
2001-073	PF2	KOTG906	DATBI	Valid to	S/4HANA	KOTG906	DATBI	Valid to		Copy
2001-074	PF2	KOTG906	DATAB	Valid From	S/4HANA	KOTG906	DATAB	Valid From		Copy
2001-075	PF2	KOTG521	KSCHL	Listing/exclusion type	S/4HANA	KOTG909	KSCHL	Listing/exclusion type	MAP_KSCHL_KOTG-V	Mapping
2001-076	PF2	KOTG521	LAND1	Destination Country	S/4HANA	KOTG909	LAND1	Destination Country		Copy  Sequence in table PF2 - KOTG521 and S/4HANA - KOTG909 are not the same.  KOTG521-LAND1 (seq #2) transform to KOTG909-LAND1 (seq #3)  KOTG521-REGIO (seq #3) transform to KOTG909-REGIO (seq #4)  KOTG521-MATNR (seq #4) transform to KOTG909-MATNR (seq #2)
2001-077	PF2	KOTG521	REGIO	Region	S/4HANA	KOTG909	REGIO	Region	MAP_REGION	Mapping  Sequence in table PF2 - KOTG521 and S/4HANA - KOTG909 are not the same.  KOTG521-LAND1 (seq #2) transform to KOTG909-LAND1 (seq #3)  KOTG521-REGIO (seq #3) transform to KOTG909-REGIO (seq #4)  KOTG521-MATNR (seq #4) transform to KOTG909-MATNR (seq #2)
2001-078	PF2	KOTG521	MATNR	Material	S/4HANA	KOTG909	MATNR	Material	MAP_MATNR	Mapping  Sequence in table PF2 - KOTG521 and S/4HANA - KOTG909 are not the same.  KOTG521-LAND1 (seq #2) transform to KOTG909-LAND1 (seq #3)  KOTG521-REGIO (seq #3) transform to KOTG909-REGIO (seq #4)  KOTG521-MATNR (seq #4) transform to KOTG909-MATNR (seq #2)
2001-079	PF2	KOTG521	DATBI	Valid to	S/4HANA	KOTG909	DATBI	Valid to		Copy
2001-080	PF2	KOTG521	DATAB	Valid From	S/4HANA	KOTG909	DATAB	Valid From		Copy

List of Custom Target Reports for this object is maintained here: [Conversion Specification - Custom Reports Register](#).

## Transformation Mapping

Mapping Table Name	Mapping Table Description
MAP_KSCHL_KOTG-V	ECC (PF2/ WP2) to S/4AHANA Listing/ Exclusions Type Mapping Table
MAP_VKORG	ECC (PF2/ WP2) to S/4AHANA Sales Organization Mapping Table
MAP_KUNNR	ECC (PF2/ WP2) to S/4AHANA Customer No. Mapping Table
MAP_MATNR	ECC (PF2/ WP2) to S/4AHANA Material No. Mapping Table
MAP_WERKS	ECC (PF2/ WP2) to S/4AHANA Plant Mapping Table
MAP_MATKL	ECC (PF2/ WP2) to S/4AHANA Material Group Mapping Table
MAP_REGION	ECC (PF2/ WP2) to S/4AHANA Region Code Mapping Table

## Transformation Dependencies

List the steps that need to occur before transformation can commence

Item #	Step Description	Team Responsible
1	Source Data Integrity - Ensure extracted data is complete, accurate, and consistent. - Validate that data types and formats align with transformation requirements.	Syniti

2	Referential Integrity - Ensure dependent records are transformed together or in advance	Syniti
3	Transformation Logic and Mapping - Define data mapping rules between source and target schemas.	Data Team
4	Performance and Scalability Considerations - Optimize transformation processes for large datasets. - Ensure system resources can handle transformation workloads	Syniti
5	Logging and Error Handling - Maintain detailed logs of transformation activities. - Define error-handling procedures for failed transformations	Syniti

## Pre-Load Validation

### Project Team

The following pre-load validations will be performed by the Project Team.

### Completeness

Task	Action
Compare Data Counts	1. Verify row counts in the source databases. 2. Identify missing or duplicated records.
Validate the mandatory fields	Validate there is value for all the mandatory fields
Validate Primary Keys and Unique Constraints	1. Check for duplicate or missing primary key values, i.e. if there is same sales organization, distribution channel, customer number and material number. 2. Ensure unique constraints are maintained.
Test Referential Integrity	Confirm dependent records exist in related tables, such as customer master, material master, plant, etc. S /4HANA.

### Accuracy

Task	Action
Validate the transformation	Validate the fields which require transformation have the value after transformation instead of the original field value
Check Data Consistency	1. Compare field values across systems 2. Validate data formats and structures

### Business

The following pre-load validations will be performed by the Business.

### Completeness

Task	Action
Compare Data Counts	1. Verify row counts in the source databases. 2. Identify missing or duplicated records.
Review populated templates for missing or incorrect values	Use checklists to verify completeness and correctness before submission.

### 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 (and signed-off DCT data).

## Load

The load process includes:

1. Execute the automated data load into target system using load tool or produce the load file as per format in Transformation Rule section 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	Confirm readiness of final approved data sets for each ECC source system WP2 and PF2	Business / Functional Team
2	Validate transformation rules and mappings in Syniti tool	Data Team (L2C-Data)
3	Generate target-ready load files based on S/4HANA material listing and exclusions table format	Data Team (Syniti)
4	Review and approve load files before execution	Business / Functional Team
5	Execute the upload program in the S/4HANA system	Data Load Team
6	Monitor load progress and capture load statistics (records loaded, errors, duplicates, etc.)	Data Team (Syniti) / Technical Team
7	Extract loaded data from S/4HANA for post-load validation	Data Team (Syniti)
8	Perform post-load data validation (compare target data with source/ approved files) for all loaded material listing and exclusions	Data Team (L2C-Data)
9	Log and resolve any data load errors or mismatches identified during validation	Data Team (Syniti and L2C-Data) + Functional Team
10	Obtain business sign-off on successful load and validation	Business Team
11	Archive load logs, error reports, and validation results for audit/compliance	Data Team (L2C-Data) / Data Team (Syniti) / PMO

## Load Phase and Dependencies

The Material Listing and Exclusions will be loaded in the pre-cutover period.

Before loading, it will have dependency on the configuration and data objects in the S/4 HANA. The configuration needs to be transported into the respective system first.

## Configuration

Item #	Configuration Item
1	Sales Organization
2	Distribution Channel
3	Plant
4	Listing/ Exclusion Table
5	Listing/ Exclusion Access Sequence
6	Listing/ Exclusion Type
7	Listing/ Exclusion Procedure
8	Sales Document Type

9	Activate Listing/ Exclusion by Sales Document Type
10	Material Group
11	Country Code (Departure and Destination Country)
12	Region

## Conversion Objects

Object #	Preceding Object Conversion Approach
3003	Business Partners - Customer (Sales and Service) - FLCU01
2003	Materials - Sales view with sales long text
2010	Materials - General Plant Data / S.Loc Data

## Error Handling

Error Type	Error Description	Action Taken
Configuration/ Data Transformation	The value XXX for field XXX doesn't exist	1. Check the mapping/ conversion is done properly in the loading file 2. Validate the target value is configured/ transported in the target system 3. Reach out to functional team to validate the configuration
Data Error	The Customer Master or Material Master were not defined	Validate the Customer Master or Material Master relevancy rule and sales area extension for the newly mapped distribution channel; maintain the customer master or material master if it is in migration scope.  For Material Master if the Plant are maintained in the Material Listing/ Exclusions table; also validate if the Material Master Plant view are created.

## Post-Load Validation

### Project Team

The following post-load validations will be performed by the Project Team.

### Completeness

Task	Action
Validate Record count	Validate all tables has the same records as the loading file
Perform Source-to-Target Comparisons	1. Validate that migrated data matches source records count. 2. Check for discrepancies in numerical values, text fields, and timestamps.

### Accuracy

Task	Action
Conduct Post-Migration Reconciliation	Generate reports comparing pre- and post-migration data; and the field value are identical.
Perform Manual Testing	Pick up a few random sample for each table, e.g. Sales Organization, Distribution Channel, Customer, Material, Country, Region, Material Group, Plant and run t-code: VB03 to validate the Material Listing/ Exclusions were migrated correctly and can be displayed without any errors.

## Business

Post-load validation is a critical step in data migration, ensuring that transferred data is accurate, complete, and functional within the target system.

### 1. Ensuring Data Integrity

After migration, data must be consistent with its original structure. Post-load validation checks for missing records, incorrect mappings, and formatting errors to prevent discrepancies.

### 2. Business Continuity

Faulty data can disrupt operations, leading to financial losses and inefficiencies. Validating post-load data ensures that applications function as expected, preventing downtime.

### 3. Error Detection and Resolution

By validating data post-migration, businesses can detect anomalies early, reducing the cost and effort required for corrections

## Completeness

Task	Action
Perform Source-to-Target Comparisons	Validate that migrated data matches source records count.
Conduct Post-Migration Reconciliation	Go through post-load validation reports comparing pre- and post-migration data.

## Accuracy

Task	Action
Perform Manual Testing	Conduct manual spot-checks for additional assurance.

## Key Assumptions

- Material Listing and Exclusions Master Data Standard is up to date as on the date of documenting this conversion approach and data load.
- Material Listing and Exclusions is in scope based on data design and any exception requested by business.
- There will be 2 SAP instances, one for ROW and one for China.

## See also

## Change log

Version	Published	Changed By	Comment
<b>CURRENT (v. 52)</b>	<b>Apr 20, 2026 08:01</b>	<b>LIU-ext, Ekawati</b>	
v. 51	Mar 03, 2026 13:55	LIU-ext, Ekawati	
v. 50	Feb 27, 2026 07:42	LIU-ext, Ekawati	
v. 49	Feb 04, 2026 12:27	LIU-ext, Ekawati	
v. 48	Feb 02, 2026 17:41	LIU-ext, Ekawati	
v. 47	Feb 02, 2026 08:46	LIU-ext, Ekawati	
v. 46	Feb 02, 2026 07:52	LIU-ext, Ekawati	
v. 45	Jan 19, 2026 09:57	LIU-ext, Ekawati	
v. 44	Dec 11, 2025 16:07	LIU-ext, Ekawati	
v. 43	Dec 09, 2025 07:17	LIU-ext, Ekawati	

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## Workflow history

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

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