

Internal Controls applicable to BFC SYENSQO

Status	Approved
Owner	TEE-ext, Paul
Stakeholders	ERGUIZA-ext, Pinky Love VILARES, ines LEIGHTON-ext, Dean LAKKAD-ext, Anirudh TEFANESCU-ext, Aurelia MOUSSA-ext, Eva[Syniti Consultant]

Purpose

The purpose of this document is to define the conversion approach to create Maintenance Plan and Item in S/4 HANA.

Legacy Maintenance Plan and Item is using a diverse range of formats across the different systems. There are instances where the same Maintenance Plan and Item is duplicated within and across sources, with informal words. This results in data inconsistency. As per SyWay design, EAM Maintenance Plan and Item will be standardized.

Conversion Scope

The scope of this document covers the approach for converting active Maintenance Plan and Item from Legacy Source Systems into S/4HANA following the Maintenance Plan and Item Master Data Design Standard.

The data from legacy system includes:

1. Maintenance Plan (MPLA-WARPL) which have at least 1 valid maintenance Item
2. Maintenance Items (MPOS-WAPOS) that has at least 1 valid task list based on Task List relevancy
3. Maintenance Items (MPOS-WAPOS) that has at least 1 relevant Material (MARA-MATNR), Functional Location (IFLO-TPLNR) or Equipment (EQUI-EQUNR) in reference object or Item in object list based on Material (MARA-MATNR), Functional Location (IFLO-TPLNR) or Equipment (EQUI-EQUNR) relevancy

The data from legacy system excludes:

1. Maintenance Plan (MPLA-WARPL) marked for deletion (MPLA-LVORM) = 'X'
2. Maintenance Items (MPOS-WAPOS) that are not assigned to Maintenance Plan (MPLA-WARPL)

List of Tables to extract for this object is maintained here: Extract Table Register.

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	Maintenance Plan: Active Maintenance Plan will be extracted from PF2 and WP2	70,000	S/4HANA	70,000
PF2, WP2	Maintenance Items: Active Maintenance Item will be extracted from PF2 and WP2	74,000	S/4HANA	74,000

Additional Information

Multi-language Requirement

Maintenance Plan description will be made available in English.

Multi language is supported for Maintenance Plan. Login via a different language will have its description displayed in the logon language if the language key is maintained in the Maintenance Plan.

Document Management

Not Applicable

Legal Requirement

Not Applicable

Special Requirements

Not Applicable

Target Design

The technical design of the target for this conversion approach.

1.Maintenance Plan

Table	Field	Data Element	Field Description	Data Type	Length	Requirement
MPLA	WARPL	WARPL	Maintenance Plan	CHAR	12	System
MPLA	MPTYP	MPTYP	Maintenance plan category	CHAR	2	Mandatory
MPLA	STRAT	STRAT	Maintenance strategy	CHAR	6	Mandatory
MPLA	WPTXT	WPTXT	Maintenance Plan Text	CHAR	40	Mandatory
MPLA	VSPOS	VERSCHPLUS	Shift Factor for Late Completion	NUMC	3	Conditional
MPLA	TOPOS	TOLERPLUS	Tolerance for Late Completion (%)	NUMC	3	Conditional
MPLA	TONEG	TOLERNEG	Tolerance for Early Completion (%)	NUMC	3	Conditional
MPLA	VSNEG	VERSCHNEG	Shift Factor for Early Completion	NUMC	3	Conditional
MPLA	SFAKT	SFAKT	Cycle modification factor	DEC	3(2)	Conditional
MPLA	FABKL	FABKL	Factory calendar key	CHAR	2	Conditional
MPLA	HORIZ	HORIZONT	Call horizon for maintenance plan calls	NUMC	3	Mandatory
MPLA	HORIZ_QUALIFIER	EAM_CC_CALLHORIZON_QUALIFIER	Calculation Type of Call Horizon	CHAR	1	Mandatory
MPLA	ABRHO	ABRHO	Scheduling Period	NUMC	3	Mandatory
MPLA	HUNIT	HUNIT	Unit for Scheduling Period	UNIT	3	Conditional
MPLA	CALL_CONFIRM	CALL_CONFIRM	Only Create New Call Object After Completing Predecessor	CHAR	1	Conditional
MPLA	STADT	STADT	Start date	DATS	8	Conditional
RMIPM	ZEIT	TIME_KNZ	Indicator for selection of time-based maintenance	CHAR	1	Conditional
MPLA	STICH	TERMKNZ	Scheduling indicator	CHAR	1	Conditional
MPLA	PLAN_SORT	PLAN_SORT	Sort field for maintenance plans	CHAR	20	Mandatory
RMIPM	STTAG	MP_STTAG	Key Date	DATS	8	Conditional
MPLA	ENDDT_FOR_SCH	EAM_ENDDT_FOR_SCHED	End Date for Scheduling	DATS	8	Conditional
MPLA	TPLNR	TPLNR	Functional Location	CHAR	30	Mandatory
MPLA	EQUNR	EQUNR	Equipment Number	CHAR	18	Conditional
MPLA	LTKNZ	MPLTX	Long Text Indicator	CHAR	1	System
RMIPM	GEWERK	GEWRK	Main work Centre for maintenance tasks	CHAR	8	System
RMIPM	WERGW	WERGW	Plant associated with Main Work Centre	CHAR	4	System
RMIPM	POINT	IMRC_POINT	Measuring Point	CHAR	12	Conditional

2.Maintenance Plan Long Text Header

Table	Field	Data Element	Field Description	Data Type	Length	Requirement
STXH	TDOBJECT	TDOBJECT	Texts: application object	CHAR	10	Mandatory
STXH	TDNAME	TDOBJECT	Name	CHAR	70	Mandatory
STXH	TDID	TDID	Text ID	CHAR	4	Mandatory
STXH	TDSPRAS	SPRAS	Language Key	LANG	1	Mandatory

3.Maintenance Plan Long Text Line

Table	Field	Data Element	Field Description	Data Type	Length	Requirement
STXL	TDOBJECT	TDOBJECT	Texts: application object	CHAR	10	Mandatory

STXL	TDNAME	TDOBNAM	Name	CHAR	70	Mandatory
STXL	TDID	TDID	Text ID	CHAR	4	Mandatory
STXL	TDSRAS	SPRAS	Language Key	LANG	1	Mandatory
STXL	CLUSTD_TAG	TDFORMAT	Tag column	CHAR	1	Mandatory
STXL	ROWCOUNT	ROWCOUNT	Row number	NUMC	10	Mandatory
STXL	CLUSTD_LINE	TDLIN	Text Line	CHAR	72	Mandatory

Note:

1. Long Text is not mandatory, only load when there is data
2. One Long Text Header must have at least 1 Long Text Line

4.Maintenance Item

Table	Field	Data Element	Field Description	Data Type	Length	Requirement
MPLA	WARPL	WARPL	Maintenance Plan	CHAR	12	System
MPOS	WAPOS	WAPOS	Maintenance item	CHAR	16	System
MPOS	PSTXT	POSTXT	Item Short Text	CHAR	40	Mandatory
MPOS	IWERK	IWERK	Maintenance Planning Plant	CHAR	4	System
MPOS	AUART	AUFART	Order Type	CHAR	4	Mandatory
MPOS	PRIOK	PRIOK	Priority	CHAR	1	Mandatory
MPOS	PLNTY	PLNTY	Task List Type	CHAR	1	Mandatory
MPOS	PLNNR	PLNNR	Key for Task List Group	CHAR	8	Mandatory
MPOS	PLNAL	PLNAL	Group Counter	CHAR	2	Mandatory
MPOS	WPGRP	INGRP	Planner Group for Customer Service and Plant Maintenance	CHAR	3	Conditional
MPOS	APFKT	APFKT	Execution factor for whole task list	DEC	3(0)	Conditional
MPOS	ANLZU	ANLZU	System Condition	CHAR	1	Conditional

Note: Each Maintenance Plan can have multiple Maintenance Items

5.Maintenance Item Long Text Header

Table	Field	Data Element	Field Description	Data Type	Length	Requirement
STXH	TDOBJECT	TDOBJECT	Texts: application object	CHAR	10	Mandatory
STXH	TDNAME	TDOBNAM	Name	CHAR	70	Mandatory
STXH	TDID	TDID	Text ID	CHAR	4	Mandatory
STXH	TDSRAS	SPRAS	Language Key	LANG	1	Mandatory

6.Maintenance Item Long Text Line

Table	Field	Data Element	Field Description	Data Type	Length	Requirement
STXL	TDOBJECT	TDOBJECT	Texts: application object	CHAR	10	Mandatory
STXL	TDNAME	TDOBNAM	Name	CHAR	70	Mandatory
STXL	TDID	TDID	Text ID	CHAR	4	Mandatory
STXL	TDSRAS	SPRAS	Language Key	LANG	1	Mandatory
STXL	CLUSTD_TAG	TDFORMAT	Tag column	CHAR	1	Mandatory
STXL	ROWCOUNT	ROWCOUNT	Row number	NUMC	10	Mandatory
STXL	CLUSTD_LINE	TDLIN	Text Line	CHAR	72	Mandatory

Note:

1. Long Text is not mandatory, only load when there is data
2. One Long Text Header must have at least 1 Long Text Line

7.Maintenance Item Object List

Table	Field	Data Element	Field Description	Data Type	Length	Requirement
OBJK	OBKNR	OBJKNR	Object list number	INT8	19	System
OBJK	OBZAE	OBJZA	Object list counters	INT4	10	System
OBJK	SORTF	WARPL	Object list sort field	CHAR	20	System
OBJK	TPLNR	TPLNR	Functional Location	CHAR	30	Conditional
OBJK	EQUNR	EQUNR	Equipment Number	CHAR	18	Conditional

Note: Each Maintenance Item can have multiple Objects

8.Maintenance Plan (Characteristics Values Header)

Table	Field	Data Element	Field Description	Data Type	Length	Requirement
KLAH	KLART	KLASSENART	Class Type	CHAR	3	Mandatory
INOB	OBTAB	TABELLE	Name of Database Table for Object	CHAR	30	Mandatory
KLAH	CLASS	KLASSE_D	Class number	CHAR	18	Mandatory
INOB	OBJEK	CUOBN	Key of Object	CHAR	90	Mandatory
KLAH	STATU	KLSTATUS	Class Status	CHAR	1	Mandatory

9.Maintenance Plan (Characteristics Values Allocation)

Table	Field	Data Element	Field Description	Data Type	Length	Requirement
KLAH	KLART	KLASSENART	Class Type	CHAR	3	Mandatory
INOB	OBTAB	TABELLE	Name of Database Table for Object	CHAR	30	Mandatory
KLAH	CLASS	KLASSE_D	Class number	CHAR	18	Mandatory
INOB	OBJEK	CUOBN	Key of Object	CHAR	90	Mandatory
CABN	ATNAM	ATNAM	Characteristic Name	CHAR	30	Mandatory
AUSP	ATWRT	ATWRT	Characteristic Value	CHAR	30	Mandatory
KSML	POSNR	KPOSNR	Item Number	CHAR	3	Mandatory

Maintenance Plan and Item Data strictly adheres to the Master Data Standard. The complete information of the key fields that hold the Maintenance Plan information follows the Master Data Standard document that is located [here](#).

Data Cleansing

ID	Criticality	Error Message/Report Description	Rule	Output	Source System
1016-001	C1	Maintenance Plan-Maintenance Item: Invalid, Inactive or no maintenance item	Maintenance Plan as per Relevancy Criteria assigned with inactive or no Maintenance Items attached.	Maintenance Plan, Plant, Maintenance Item,	PF2, WP2
1016-002	C1	Maintenance Plan-Description: Missing Description	Maintenance Plan Description is blank	Maintenance Plan, Plant, Description	PF2, WP2
1016-003	C2	Maintenance Plan-Description: Descriptions with Informal Words	Maintenance Plan which contain Informal Words in the Maintenance Plan Description	Maintenance Plan, Plant, Description	PF2, WP2
1016-004	C1	Maintenance Plan-Task List: Invalid, Inactive or no Task List allocated to Maintenance Plan	Maintenance Plan as per Relevancy Criteria assigned with a Task List which does not belong below: 1. Task List as per Relevancy Criteria	Maintenance Plan, Plant, Task List	PF2, WP2
1016-005	C1	Maintenance Plan-Work Centre: Invalid, Inactive or no Work Centre assigned	Maintenance Item assigned with invalid or inactive Work Centre	Maintenance Plan, Plant, Work Centre	PF2, WP2
1016-006	C1	Maintenance Plan-Maintenance Strategy: Invalid, Inactive or no Maintenance Strategy assigned	Maintenance Plan as per Relevancy Criteria assigned with a Maintenance Strategy which does not belong below: 1. Maintenance Strategy as per Relevancy Criteria	Maintenance Plan, Plant, Maintenance Strategy	PF2, WP2

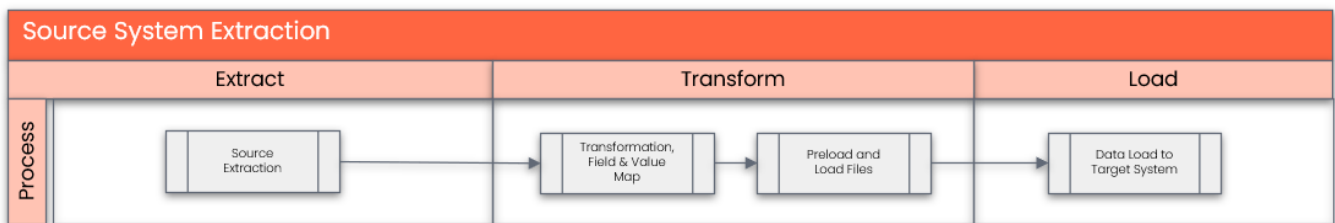
1016-007	C1	Maintenance Plan-Maintenance Plan Category: Not PM	Maintenance Plan Category not "PM"	Maintenance Plan, Plant, Maintenance Plan Category	PF2, WP2
1016-008	C1	Maintenance Plan-Order Type: Not "YA02"	Order Type not "YA02"	Maintenance Plan, Plant, Order Type	PF2, WP2
1016-009	C1	Maintenance Plan-Scheduling Indicator: Not blank, 1, 2 or 3	Scheduling Indicator not blank, 1, 2 or 3	Maintenance Plan, Plant, Scheduling Indicator	PF2, WP2
1016-010	C1	Maintenance Plan-Unit of Measure: UOM Missing / incorrect.	Maintenance Plan and Item as per Relevancy Criteria with no UoM Assigned or Invalid UoM (T006)	Maintenance Plan, Plant, Unit of Measure	PF2, WP2
1016-011	C1	Maintenance Plan-Authorization Group: Technical object authorization group incorrect.	Maintenance Plan and Item as per Relevancy Criteria with Invalid Authorization Group (T370F)	Maintenance Plan, Plant, Authorization Group	PF2, WP2
1016-012	C1	Maintenance Plan-Sort field: Blank or invalid Sort field	Maintenance Plan and Item as per Relevancy Criteria with Invalid Sort Field (T399G)	Maintenance Plan, Plant, Sort Field	PF2, WP2
1016-013	C1	Maintenance Plan: Invalid, Inactive or no Equipment or Functional Location assigned	Maintenance Plan as per Relevancy Criteria assigned with Equipment or Functional Location which does not belong below: 1. Equipment as per Relevancy Criteria 2. Functional Location as per Relevancy Criteria	Maintenance Plan, Plant, Equipment, Functional Location	PF2, WP2
1016-014	C1	List of Maintenance Item under Maintenance Plan assigned to Invalid, Inactive or no Equipment or Functional Location	Maintenance Item as per Relevancy Criteria under Maintenance Plan assigned with Equipment or Functional Location which does not belong below: 1. Equipment as per Relevancy Criteria 2. Functional Location as per Relevancy Criteria	Maintenance Plan, Plant, Equipment, Functional Location	PF2, WP2
1016-015	C1	Maintenance Plan-Characteristic: Invalid, Inactive or no Characteristic allocated	Maintenance Plan as per Relevancy Criteria assigned with a Characteristic which does not belong below: 1. Characteristic as per Relevancy Criteria	Maintenance Plan, Plant, Characteristic	PF2, WP2
1016-016	C1	Maintenance Plan-Class: Invalid, Inactive or no Class allocated	Maintenance Plan as per Relevancy Criteria assigned with a Class which does not belong below: 1. Class as per Relevancy Criteria	Maintenance Plan, Plant, Class	PF2, WP2
1016-017	C1	Maintenance Item-Planning Plant: Planning Plant incorrect	Maintenance Plan and Item as per Relevancy Criteria with Invalid Plant (T001W)	Maintenance Plan, Plant, Planning Plant	PF2, WP2
1016-018	C3	Maintenance Plan-Measuring Point : Invalid or inactive Measuring Point linked to	Maintenance Plan assigned with invalid or inactive Measuring Point	Maintenance Plan, Plant, Measuring Point	PF2, WP2
1016-019	C1	Maintenance Item: Duplicate Maintenance Plan Items by Technical Object, Task List, Strategy, Description	Maintenance Plan Items as per Relevancy Criteria where there is more than one Technical Object + Task List + Strategy + Description Combination.	Maintenance Plan, Plant, Technical Object, Task List, Strategy, Description	PF2, WP2
1016-020	C1	Maintenance Item-Maintenance Plan: Invalid, inactive or no Maintenance Plans linked	Maintenance Item as per Relevancy Criteria assigned with blank or inactive Maintenance Plan attached.	Maintenance Item, Plant, Maintenance Plan	PF2, WP2
1016-021	C2	Maintenance Item-Planner Group: Invalid or no Planner Group	Maintenance Plan and Item as per Relevancy Criteria with no Planner Group Assigned or Invalid Planner Group (T024I)	Maintenance Item, Plant, Planner Group	PF2, WP2
1016-022	C1	Maintenance Item-Planning Plant: Planning Plant and Maintenance Plant are not the same	Maintenance Item as per Relevancy Criteria with Planning Plant <> Maintenance Plant	Maintenance Item, Plant, Planning Plant	PF2, WP2
1016-023	C1	Maintenance Item-Characteristic: Invalid, Inactive or no Characteristic allocated	Maintenance Plan as per Relevancy Criteria assigned with a Characteristic which does not belong below: 1. Characteristic as per Relevancy Criteria	Maintenance Item, Plant, Characteristic	PF2, WP2
1016-024	C1	Maintenance Item-Class: Invalid, Inactive or no Class allocated	Maintenance Plan as per Relevancy Criteria assigned with a Class which does not belong below: 1. Class as per Relevancy Criteria	Maintenance Item, Plant, Class	PF2, WP2
1016-025	C2	Maintenance Plan-Status Profile: contains data but not mapped to any field for migration	Field contains data but not mapped to any field for migration	Maintenance Plan, Plant, Status Profile	PF2, WP2
1016-026	C2	Maintenance Plan-User Status: contains data but not mapped to any field for migration	Field contains data but not mapped to any field for migration	Maintenance Plan, Plant, User Status	PF2, WP2
1016-027	C2	Maintenance Item-Business Area: contains data but not mapped to any field for migration	Field contains data but not mapped to any field for migration	Maintenance Item, Plant, Business Area	PF2, WP2

1016-028	C2	Maintenance Item-Maintenance Activity Type: contains data but not mapped to any field for migration	Field contains data but not mapped to any field for migration	Maintenance Item, Plant, Maintenance Activity Type	PF2, WP2
1016-029	C2	Maintenance Item-Maintenance item category: contains data but not mapped to any field for migration	Field contains data but not mapped to any field for migration	Maintenance Item, Plant, Maintenance item category	PF2, WP2
1016-030	C2	Maintenance Item-Do Not Release Immediately: Item marked for Do Not Release	Field contains data but not mapped to any field for migration	Maintenance Item, Plant, Do Not Release Immediately	PF2, WP2
1016-031	C2	Maintenance Item-Revision for Plant Maintenance and Customer Service: contains data but not mapped to any field for migration	Field contains data but not mapped to any field for migration	Maintenance Item, Plant, Revision for Plant Maintenance and Customer Service	PF2, WP2
1016-032	C2	Maintenance Item-User Status: contains data but not mapped to any field for migration	Field contains data but not mapped to any field for migration	Maintenance Item, Plant, User Status	PF2, WP2

Note: List of Cleansing is maintained here: [Conversion Specs Register \(DCT & Cleansing Report\)](#)

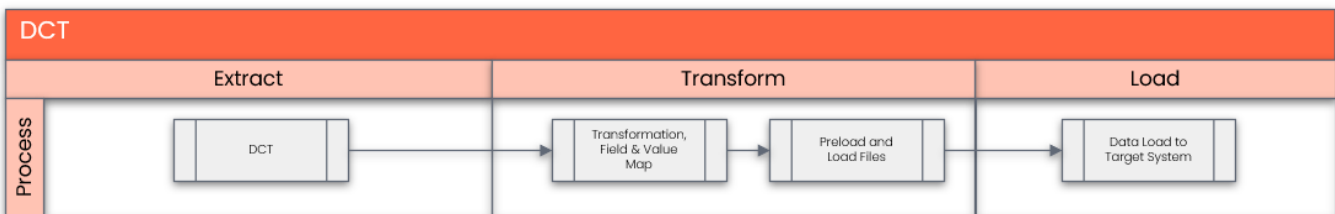
Conversion Process

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



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:



Collection will be done manually in the Data Collection Template for the following scenarios:

- For sites not on SAP-PF2 or WP2 systems

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
1	Extract data from source system based on relevancy rule	SyWay Data Team

Selection Screen

Selection Ref Screen	Parameter Name	Selection Type	Requirement	Value to be entered/set
Not Applicable				

Data Collection Template (DCT)

Target Ready Data Collection Template will be created for Maintenance Plan and Item data with exception of some fields which require transformation as mentioned in the transformation rule.

1. The extracted report will be loaded into the required structure using the DCT.
2. Standardization activities (including deduplication, standardization and additions) will be carried out within the DCT.

Delta Data Management: Initial collection will be done via the report and one-time load to the DCT will be performed. Any delta after the initial collection within the DCT will require business to take due diligence to ensure any subsequent delta cleansing is verified and aligned within the DCT.

Note: All rules specified below should be documented as a **tooltip** in the DC Page.

Format:

- **Line 1:** Mandatory / Conditional
- **Line 2:** Remaining text

1.Maintenance Plan Data Construction Rules

Field Name	Field Description	Rule
zLegacyWARPL	Legacy Maintenance Plan	Mandatory. Key field
WSTRA	Maintenance strategy	Must reference to active Strategy (T351) Must be the same strategy as the Task List strategy. Naming Convention as follows: XX_XXX E.g - 01_001
TOPOS	Tolerance for Late Completion (%)	Conditional. Numeric values only, values from 0 to 100 Note: Will default to "10" if blank
TONEG	Tolerance for Early Completion (%)	Conditional. Numeric values only, values from 0 to 100 Note: Will default to "10" if blank
SFAKT	Cycle modification factor	Note: Will default to "1" if blank
FBKL	Time-factory caldr	Conditional. Select from configuration (TFACD)
HORIZ	Call horizon for maintenance plan calls	Mandatory. Numeric values only, values from 0 to 100 Note: Will default to 100 % if blank

HORIZ_QUALIFIER	Calculation Type of Call Horizon	Mandatory. Note: Will default to "%" if blank
ABRHO	Scheduling Period	Mandatory. Note: Will default to "3" if blank
HUNIT	Unit for Scheduling Period	Conditional. Note: Will default to "YR" if blank
CALL_CONFIRM	Completion Requirement	Conditional. Allowed values: "X" or blank
STADT	Start date	Conditional. Date formatted values only
STICH	Scheduling indicator	Conditional. Allowed values: "1", "2" or blank
PLAN_SORT	Sort field for maintenance plans	Mandatory. Select from configuration (T399G) <i>Note: Groups Maintenance Plans based on below design principal: Frequency + Maintenance Activity Each group (Sort Field) gets its own deadline monitoring variant. Example: 6M_INSP: Monthly Inspection All Maintenance Plans of Inspection for 6M Inspection will be grouped with this Sort field.</i>
POINT	Measuring Point	Must reference to active Measuring Point in S4/HANA (IMPTT). Must not be blank if the first 2 Chars of the Strategy = "02" Must be blank if the first 2 Chars of the Strategy <> " 02"
ENDDT_FOR_SCHED	End Date for Scheduling	Conditional. Date formatted values only

2.Maintenance Plan Long Text Line Data Construction Rules

Field Name	Field Description	Rule
zLegacyW ARPL	Legacy Maintenance Plan	Mandatory. Key to link to Maintenance Plan
TDSPRAS	Language Key	Mandatory Must be either one of the following: English(E) , French(F), Italian(I), Mandarin(1), Portuguese(including Brazilian Portuguese)(P), German(D) and Spanish(S)
WPTXT	Maintenance Plan Text	Mandatory. Not editable Note: This field is needed for clarity of Maintenance Plan
ROWCOUN T	Row number	Mandatory. Must be unique and ascending sequential number
CLUSTD_ LINE	Text Line	Mandatory Free Text

3.Maintenance Item Data Construction Rules

Field Name	Field Description	Rule
zLegacyWARPL	Legacy Maintenance Plan	Mandatory. Key to link to Maintenance Plan
zLegacyWAPOS	Legacy Maintenance Item	Mandatory. Key field
PSTXT	Item Short Text	Free text. <i>Note: Description must be defined as Frequency + TOT + Asset Tag.</i>
TPLNR	Functional Location	Mandatory. Must reference to active Functional Location in S4/HANA (IFLO)
EQUNR	Equipment Number	Conditional. Must reference to active Equipment Number in S4/HANA (EQUI) Can be Blank only if FLOC is updated. Valid Entry if CT of the Equipment = Task List CT
GEWRK	Main work center for maintenance tasks	Conditional. Must reference active Work Centre (CRHD) <i>Note: Will default to the value derived from the technical object, if blank</i>
WPGRP	Planner Group for Customer Service and Plant Maintenance	Conditional. Must reference to active Maintenance Planner Group in S4/HANA (T0241). Default to the value derived from the technical object. Update the value if provided by business (Takes Precedence).
PRIOK	Priority	Mandatory. Must reference to active Priority in config (T356).
PLNTY	Task List Type	Mandatory. Must reference to active Task List Type in Task List Header DCT
PLNNR	Key for Task List Group	Mandatory. Must reference to active Key for Task List Group in Task List Header DCT
PLNAL	Group Counter	Mandatory. Must reference to active Group Counter in Task List Header DCT. Group - Group Counter CT shall be equal to the Technical Object CT.
APFKT	Execution factor for whole task list	Conditional. <i>Note: Will default to 1, if blank</i>
ANLZU	System Condition	Conditional. Must reference to active System Condition in config (T357M)

4.Maintenance Plan Long Text Line Data Construction Rules

Field Name	Field Description	Rule
zLegacyWARPL	Legacy Maintenance Plan	Mandatory. Key to link to Maintenance Plan

zLegacyW APOS	Legacy Maintenance Item	Mandatory. Key to link to Maintenance Item
TDSPRAS	Language Key	Mandatory Must be either one of the following: English(E) , French(F), Italian(I), Mandarin(1), Portuguese(including Brazilian Portuguese)(P), German(D) and Spanish(S)
KTEXT	Description	Mandatory. Not editable
ROWCOU NT	Row number	Mandatory. Must be unique and ascending sequential number
CLUSTD_ LINE	Text Line	Mandatory Free Text

5.Maintenance Item Object List Data Construction Rules

Field Name	Field Description	Rule
zLegacyWARPL	Legacy Maintenance Plan	Mandatory. Key to link to Maintenance Plan
zLegacyWAPOS	Legacy Maintenance Item	Mandatory. Key field
SORTF	Object list sort field	Conditional. Must be unique and ascending sequential number starting from 1
EQUNR	Equipment Number	Conditional. Must reference to active Equipment Number in S4/HANA (EQUI) Can be Blank only if FLOC is updated. Valid Entry if CT of the Equipment = Task List CT
TPLNR	Functional Location	Mandatory. Must reference to active Functional Location in S4/HANA (IFLO)

6. Maintenance Plan Characteristic Data Construction Rules

Field Name	Field Description	Rule
zLegacyWARPL	Legacy Maintenance Plan	Mandatory. Key to link to Maintenance Plan
ATNAM	Characteristic Name	Mandatory. Possible selection: "Allowed CT", "Discrete to the Asset" Characteristic Name and Class should exist in Characteristics DCT
ATWRT	Characteristic Value	Mandatory. If ATNAM = "Allowed CT" then input relevant Construction Type. Eg.: Assigned Construction Type must exist in Construction Type DCT If ATNAM = "Discrete to the Asset" then select "YES" or "NO"
POSNR	Item Number	Mandatory. Positive numeric values only. Must be unique and ascending sequential

Extraction Dependencies

Item #	Step Description	Team Responsible
1	Relevancy Criteria for Equipment	SyWay A2D Data Team
2	Relevancy Criteria for Functional Location	SyWay A2D Data Team
3	Relevancy Criteria for Task List	SyWay A2D Data Team
4	Relevancy Criteria for Material Master	SyWay A2D Data Team

Transformation

The Target fields are mapped to the applicable Legacy field that will be its source, this is a 3-way activity involving the Business, Functional team and Data team. This identifies the transformation activity required to allow to make the data Target ready:

1. Perform value mapping and data transformation rules.
 - a. Legacy values are mapped to the to-be values (this could include a default value)
 - b. Values are transformed according to the rules defined in
2. Prepare target-ready data in the structure and format that is required for loading via prescribed Load Tool. This step also produces the load data ready for business to perform Pre-load Data Validation

Transformation Run Sheet

Item #	Step Description	Team Responsible
1	Obtain DCT Sign-off from Business	SyWay A2D Data Team
2	In dspMigrate, select the wave – S4/HANA – Plant Maintenance	Syniti
3	Go to Process Area Launch and Process the Object – Task List	Syniti
4	Review and Validate Error and Preload Reports	Syniti
5	Execute the transformation to prepare the target tables	Syniti
6	Validate data from pre-load and error reports	Business
7	Generate load files	Syniti

Transformation Rules

1.Maintenance Plan Transformation Rule (ECC)

Rule #	Source system	Source Table	Source Field	Source Description	Target System	Target Table	Target Field	Target Description	Transformation Logic
1	-	-	-	-	S/4HANA	MPLA	WARPL	Maintenance Plan	System (Internal numbering)
2	PF2, WP2	MPLA	WARPL	Maintenance Plan	STAGING	MPLA	zLegacyWARPL	Legacy Maintenance Plan	Direct mapping.
3	-	-	-	-	S/4HANA	MPLA	MPTYP	Maintenance plan category	Default to "PM"
4	PF2, WP2	MPLA	WSTRA	Maintenance Strategy	S/4HANA	MPLA	WSTRA	Maintenance Strategy	Value Mapping: Maintenance Strategy
5	PF2, WP2	MPLA	WPTXT	Maintenance Plan Text	S/4HANA	MPLA	WPTXT	Maintenance Plan Text	Derive from assigned Task List Description
6	PF2, WP2	MPLA	VSPOS	Shift Factor for Late Completion	S/4HANA	MPLA	VSPOS	Shift Factor for Late Completion	Default to 0 if Time based Maintenance Plan. Default to 100 if Performance based Maintenance Plan. <i>Note: Check Maintenance Strategy design to differentiate between Time based and Performance based</i>

7	PF2, WP2	MPLA	TOPOS	Tolerance for Late Completion (%)	S/4HANA	MPLA	TOPOS	Tolerance for Late Completion (%)	Direct mapping. If blank, default to "10"
8	PF2, WP2	MPLA	VSNEG	Shift Factor for Early Completion	S/4HANA	MPLA	VSNEG	Shift Factor for Early Completion	Default to 0 if Time based Maintenance Plan. Default to 100 if Performance based Maintenance Plan. <i>Note: Check Maintenance Strategy design to differentiate between Time based and Performance based</i>
9	PF2, WP2	MPLA	TONEG	Tolerance for Early Completion (%)	S/4HANA	MPLA	TONEG	Tolerance for Early Completion (%)	Direct mapping. If blank, default to "10"
10	PF2, WP2	MPLA	SFAKT	Cycle modification factor	S/4HANA	MPLA	SFAKT	Cycle modification factor	Direct mapping. If blank, default to "1"
11	PF2, WP2	MPLA	FABKL	Factory calendar key	S/4HANA	MPLA	FABKL	Factory calendar key	Direct mapping.
12	PF2, WP2	MPLA	HORIZ	Call horizon for maintenance plan calls	S/4HANA	MPLA	HORIZ	Call horizon for maintenance plan calls	Direct mapping. If blank, default to "100"
13	PF2, WP2	MPLA	HORIZ_QUALIFIER	Calculation Type of Call Horizon	S/4HANA	MPLA	HORIZ_QUALIFIER	Calculation Type of Call Horizon	Direct mapping. If blank, default to "%"
14	PF2, WP2	MPLA	ABRHO	Scheduling Period	S/4HANA	MPLA	ABRHO	Scheduling Period	Direct mapping. If blank, default to "3"
15	PF2, WP2	MPLA	HUNIT	Unit for Scheduling period	S/4HANA	MPLA	HUNIT	Unit for Scheduling period	Direct mapping. If blank, default to "YR"
16	PF2, WP2	MPLA	CALL_CON FIRM	Completion Requirement	S/4HANA	MPLA	CALL_CO NFIRM	Completion Requirement	Direct mapping. Default blank if Equipment is not blank
17	PF2, WP2	MPLA	STADT	Start date	S/4HANA	MPLA	STADT	Start date	Direct mapping.
18	PF2, WP2	MPLA	STICH	Scheduling indicator	S/4HANA	MPLA	STICH	Scheduling indicator	Direct Mapping. Default to "3" if Performance based Maintenance Plan. <i>Note: Check Maintenance Strategy design to differentiate between Time based and Performance based</i>
19	PF2, WP2	MPLA	PLAN_SORT	Sort field for maintenance plans	S/4HANA	MPLA	PLAN_SORT	Sort field for maintenance plans	Value Mapping: Maintenance Plan Sort Field
20	PF2, WP2	MMPT	POINT	Measuring Point	S/4HANA	MPLA	POINT	Measuring Point	Value Mapping: Measuring Point
21	PF2, WP2	MPLA	ENDDT_F OR_SCH	End Date for Scheduling	S/4HANA	MPLA	ENDDT_F OR_SCH	End Date for Scheduling	Direct Mapping

2.Maintenance Plan Transformation Rule (DCT)

Rule #	Source system	Source Table	Source Field	Source Description	Target System	Target Table	Target Field	Target Description	Transformation Logic
1	-	-	-	-	S/4HANA	MPLA	WARPL	Maintenance Plan	System (Internal numbering)
2	DCT	MPLA	zLegacyWARPL	Legacy Maintenance Plan	STAGING	MPLA	zLegacyWARPL	Legacy Maintenance Plan	Direct mapping.
3	-	-	-	-	S/4HANA	MPLA	MPTYP	Maintenance plan category	Default to "PM"
4	DCT	MPLA	WSTRA	Maintenance Strategy	S/4HANA	MPLA	WSTRA	Maintenance Strategy	Direct mapping.
5	DCT	MPLA	WPTXT	Maintenance Plan Text	S/4HANA	MPLA	WPTXT	Maintenance Plan Text	Derive from assigned Task List Description
6	DCT	MPLA	VSPOS	Shift Factor for Late Completion	S/4HANA	MPLA	VSPOS	Shift Factor for Late Completion	Default to 0 if Time based Maintenance Plan. Default to 100 if Performance based Maintenance Plan. <i>Note: Check Maintenance Strategy design to differentiate between Time based and Performance based</i>
7	DCT	MPLA	TOPOS	Tolerance for Late Completion (%)	S/4HANA	MPLA	TOPOS	Tolerance for Late Completion (%)	Direct mapping. If blank, default to "10"

8	DCT	MPLA	VSNEG	Shift Factor for Early Completion	S/4HANA	MPLA	VSNEG	Shift Factor for Early Completion	Default to 0 if Time based Maintenance Plan. Default to 100 if Performance based Maintenance Plan. <i>Note: Check Maintenance Strategy design to differentiate between Time based and Performance based</i>
9	DCT	MPLA	TONEG	Tolerance for Early Completion (%)	S/4HANA	MPLA	TONEG	Tolerance for Early Completion (%)	Direct mapping. If blank, default to "10"
10	DCT	MPLA	SFAKT	Cycle modification factor	S/4HANA	MPLA	SFAKT	Cycle modification factor	Direct mapping. If blank, default to "1"
11	DCT	MPLA	FABKL	Factory calendar key	S/4HANA	MPLA	FABKL	Factory calendar key	Direct mapping.
12	DCT	MPLA	HORIZ	Call horizon for maintenance plan calls	S/4HANA	MPLA	HORIZ	Call horizon for maintenance plan calls	Direct mapping. If blank, default to "100"
13	DCT	MPLA	HORIZ_QUALIFIER	Calculation Type of Call Horizon	S/4HANA	MPLA	HORIZ_QUALIFIER	Calculation Type of Call Horizon	Direct mapping. If blank, default to "%"
14	DCT	MPLA	ABRHO	Scheduling Period	S/4HANA	MPLA	ABRHO	Scheduling Period	Direct mapping. If blank, default to "3"
15	DCT	MPLA	HUNIT	Unit for Scheduling period	S/4HANA	MPLA	HUNIT	Unit for Scheduling period	Direct mapping. If blank, default to "YR"
16	DCT	MPLA	CALL_CON FIRM	Completion Requirement	S/4HANA	MPLA	CALL_CON FIRM	Completion Requirement	Direct mapping. Default blank if Equipment is not blank
17	DCT	MPLA	STADT	Start date	S/4HANA	MPLA	STADT	Start date	Direct mapping.
18	DCT	MPLA	STICH	Scheduling indicator	S/4HANA	MPLA	STICH	Scheduling indicator	Direct mapping.
19	DCT	MPLA	PLAN_SORT	Sort field for maintenance plans	S/4HANA	MPLA	PLAN_SORT	Sort field for maintenance plans	Direct Mapping
20	DCT	MMPT	POINT	Measuring Point	S/4HANA	MPLA	POINT	Measuring Point	Value Mapping: Measuring Point
21	DCT	MPLA	ENDDT_F OR_SCH	End Date for Scheduling	S/4HANA	MPLA	ENDDT_F OR_SCH	End Date for Scheduling	Direct Mapping

3.Maintenance Plan Long Text Header Transformation Rule (ECC)

Rule #	Source system	Source Table	Source Field	Source Description	Target System	Target Table	Target Field	Target Description	Transformation Logic
1	-	-	-	-	S/4HANA	STXL	TDOBJECT	Texts: application object	Default to "MPLA"
2	PF2, WP2	MPLA	WARPL	Maintenance Plan	S/4HANA	STXL	TDNAME	Name	Value Mapping: Maintenance Plan
3	-	-	-	-	S/4HANA	STXL	TDID	Text ID	Default to 'LTX'
4	PF2, WP2	STXL	SPRAS	Language Key	S/4HANA	STXL	SPRAS	Language Key	Direct Mapping

Note: Only the records marked as Cleansed in INC-MP Header Long Text will be migrated

4.Maintenance Plan Long Text Header Transformation Rule (DCT)

Rule #	Source system	Source Table	Source Field	Source Description	Target System	Target Table	Target Field	Target Description	Transformation Logic
1	-	-	-	-	S/4HANA	STXL	TDOBJECT	Texts: application object	Default to "MPLA"
2	DCT	MPLA	zLegacyWARPL	Legacy Maintenance Plan	S/4HANA	STXL	TDNAME	Name	Value Mapping: Maintenance Plan
3	-	-	-	-	S/4HANA	STXL	TDID	Text ID	Default to 'LTX'
4	DCT	STXL	SPRAS	Language Key	S/4HANA	STXL	SPRAS	Language Key	Direct Mapping

5.Maintenance Plan Long Text Line Transformation Rule (ECC)

Rule #	Source system	Source Table	Source Field	Source Description	Target System	Target Table	Target Field	Target Description	Transformation Logic
1	-	-	-	-	S/4HANA	STXL	TDOBJECT	Texts: application object	Default to "MPLA"
2	PF2, WP2	MPLA	WARPL	Maintenance Plan	S/4HANA	STXL	TDNAME	Name	Value Mapping: Maintenance Plan

3		-	-	-	-	STXL	TDID	Text ID	Default to 'LTXT'
4	PF2, WP2	STXL	SPRAS	Language Key	S/4HANA	STXL	SPRAS	Language Key	Direct Mapping
5	-	-	-	-	S/4HANA	STXL	CLUSTD_TAG	Tag column	Default to ""
6	PF2, WP2	STXL	ROWCOUNT	Row number	S/4HANA	STXL	ROWCOUNT	Row number	Direct Mapping
7	PF2, WP2	STXL	CLUSTD_LINE	Text Line	S/4HANA	STXL	CLUSTD_LINE	Text Line	Direct Mapping

6.Maintenance Plan Long Text Line Transformation Rule (DCT)

Rule #	Source system	Source Table	Source Field	Source Description	Target System	Target Table	Target Field	Target Description	Transformation Logic
1	-	-	-	-	S/4HANA	STXL	TDOBJECT	Texts: application object	Default to "MPLA"
2	DCT	MPLA	zLegacyWARPL	Legacy Maintenance Plan	S/4HANA	STXL	TDNAME	Name	Value Mapping: Maintenance Plan
3	-	-	-	-	S/4HANA	STXL	TDID	Text ID	Default to 'LTXT'
4	DCT	STXL	SPRAS	Language Key	S/4HANA	STXL	SPRAS	Language Key	Direct Mapping
5	-	-	-	-	S/4HANA	STXL	CLUSTD_TAG	Tag column	Default to ""
6	DCT	STXL	ROWCOUNT	Row number	S/4HANA	STXL	ROWCOUNT	Row number	Direct Mapping
7	DCT	STXL	CLUSTD_LINE	Text Line	S/4HANA	STXL	CLUSTD_LINE	Text Line	Direct Mapping

7.Maintenance Item Transformation Rule (ECC)

Rule #	Source system	Source Table	Source Field	Source Description	Target System	Target Table	Target Field	Target Description	Transformation Logic
1	-	-	-	-	S/4HANA	MPOS	WAPOS	Maintenance Item	System (Internal numbering)
2	PF2, WP2	MPOS	WARPL	Maintenance Plan	STAGING	MPLA	zLegacyWARPL	Legacy Maintenance Plan	Direct mapping.
3	PF2, WP2	MPOS	WAPOS	Maintenance Item	STAGING	MPLA	zLegacyWAPOS	Maintenance Item	Direct mapping
4	PF2, WP2	MPOS	PSTXT	Item Short Text	S/4HANA	MPOS	PSTXT	Item Short Text	Direct mapping
5	PF2, WP2	MPOS	TPLNR	Functional Location	S/4HANA	MPOS	TPLNR	Functional Location	Value Mapping: Functional Location
6	PF2, WP2	MPOS	EQUNR	Equipment Number	S/4HANA	MPOS	EQUNR	Equipment Number	Value Mapping: Equipment Number
7	ENRICHMENT	ENR-Maintenance Item Assembly	zLegacyBAUTL	Assembly	S/4HANA	MPOS	EQUNR	Equipment Number	Value Mapping: Assembly and Construction Type
8	PF2, WP2	MPOS	AUART	Order Type	S/4HANA	MPOS	AUART	Order Type	Value Mapping: Order Type
9	PF2, WP2	MPOS	GEWRK	Main work center for maintenance tasks		MPOS	GEWRK	Main work center for maintenance tasks	Value Mapping: Work Centre If blank then Default to the value derived from the technical object
10	PF2, WP2	MPOS	PLNTY	Task List Type	S/4HANA	MPOS	PLNTY	Task List Type	Value Mapping: Task List Header
11	PF2, WP2	MPOS	PLNNR	Key for Task List Group	S/4HANA	MPOS	PLNNR	Key for Task List Group	Value Mapping: Task List Header
12	PF2, WP2	MPOS	PLNAL	Group Counter	S/4HANA	MPOS	PLNAL	Group Counter	Value Mapping: Task List Header
13	PF2, WP2	MPOS	APFKT	Execution factor for whole task list	S/4HANA	MPOS	APFKT	Execution factor for whole task list	Direct mapping. If blank, default to "1"
14	PF2, WP2	MPOS	ANLZU	System Condition	S/4HANA	MPOS	ANLZU	System Condition	Value Mapping: System Condition
15	PF2, WP2	MPOS	WPGRP	Maintenance Planner Group	S/4HANA	MPOS	WPGRP	Maintenance Planner Group	Value Mapping: Maintenance Planner Group Default to the value derived from the technical object if blank

8.Maintenance Item Transformation Rule (DCT)

Rule #	Source system	Source Table	Source Field	Source Description	Target System	Target Table	Target Field	Target Description	Transformation Logic
1	-	-	-	-	S/4HANA	MPOS	WAPOS	Maintenance Item	System (Internal numbering)
2	DCT	MPOS	zLegacyWARPL	Legacy Maintenance Plan	STAGING	MPLA	zLegacyWARPL	Legacy Maintenance Plan	Direct mapping.
3	DCT	MPOS	zLegacyWAPOS	Legacy Maintenance Item	STAGING	MPLA	zLegacyWAPOS	Maintenance Item	Direct mapping
4	DCT	MPOS	PSTXT	Item Short Text	S/4HANA	MPOS	PSTXT	Item Short Text	Direct mapping

5	DCT	MPOS	TPLNR	Functional Location	S/4HANA	MPOS	TPLNR	Functional Location	Value Mapping: Functional Location
6	DCT	MPOS	EQUNR	Equipment Number	S/4HANA	MPOS	EQUNR	Equipment Number	Value Mapping: Equipment Number
7	-	-	-	-	-	MPOS	AUART	Order Type	Default to "YA02"
8	DCT	MPOS	GEWRK	Main work center for maintenance tasks	S/4HANA	MPOS	GEWRK	Main work center for maintenance tasks	Value Mapping: Work Centre If blank then Default to the value derived from the technical object
9	DCT	MPOS	PLNTY	Task List Type	S/4HANA	MPOS	PLNTY	Task List Type	Value Mapping: Task List Header
10	DCT	MPOS	PLNNR	Key for Task List Group	S/4HANA	MPOS	PLNNR	Key for Task List Group	Value Mapping: Task List Header
11	DCT	MPOS	PLNAL	Group Counter	S/4HANA	MPOS	PLNAL	Group Counter	Value Mapping: Task List Header
12	DCT	MPOS	APFKT	Execution factor for whole task list	S/4HANA	MPOS	APFKT	Execution factor for whole task list	Direct mapping. If blank, default to "1"
13	DCT	MPOS	ANLZU	System Condition	S/4HANA	MPOS	ANLZU	System Condition	Direct mapping.
14	DCT	MPOS	WPGRP	Maintenance Planner Group	S/4HANA	MPOS	WPGRP	Maintenance Planner Group	Update the value if provided by business. Default to the value derived from the technical object if blank

9.Maintenance Item Object List Transformation Rule (ECC)

Rule #	Source system	Source Table	Source Field	Source Description	Target System	Target Table	Target Field	Target Description	Transformation Logic
1	-	-	-	-	-	OBJK	OBKNR	Object list number	System (Internal numbering)
2	-	-	-	-	-	OBJK	OBZAE	Object list counters	System (Internal numbering)
3	-	-	-	-	-	OBJK	ILOAN	Location and account assignment for technical object	System (Internal numbering)
4	PF2, WP2	OBJK	SORTF	Object list sort field	S/4HANA	OBJK	SORTF	Object list sort field	Direct mapping.
5	PF2, WP2	OBJK	TPLNR	Functional Location	S/4HANA	OBJK	TPLNR	Functional Location	Value Mapping: Functional Location
6	PF2, WP2	OBJK	EQUNR	Equipment Number	S/4HANA	OBJK	EQUNR	Equipment Number	Value Mapping: Equipment Number

10.Maintenance Item Object List Transformation Rule (DCT)

Rule #	Source system	Source Table	Source Field	Source Description	Target System	Target Table	Target Field	Target Description	Transformation Logic
1	-	-	-	-	-	OBJK	OBKNR	Object list number	System (Internal numbering)
2	-	-	-	-	-	OBJK	OBZAE	Object list counters	System (Internal numbering)
3	-	-	-	-	-	OBJK	ILOAN	Location and account assignment for technical object	System (Internal numbering)
4	PF2, WP2	OBJK	SORTF	Object list sort field	S/4HANA	OBJK	SORTF	Object list sort field	Direct mapping.
5	PF2, WP2	OBJK	TPLNR	Functional Location	S/4HANA	OBJK	TPLNR	Functional Location	Value Mapping: Functional Location
6	PF2, WP2	OBJK	EQUNR	Equipment Number	S/4HANA	OBJK	EQUNR	Equipment Number	Value Mapping: Equipment Number

11.Maintenance Plan (Characteristics Values Header) (ECC)

Rule #	Source system	Source Table	Source Field	Source Description	Target System	Target Table	Target Field	Target Description	Transformation Logic
1	-	-	-	-	S/4HANA	KLAH	KLART	Class Type	Default to "080"
2	-	-	-	-	S/4HANA	INOB	OBJTAB	Name of Database Table for Object	Default to "MPLA"
3	-	-	-	-	S/4HANA	KLAH	CLASS	Class number	Default to "EAM_9999"
4	-	-	-	-	S/4HANA	INOB	OBJEK	Key of Object	Derive from Maintenance Plan Object Number
5	-	-	-	-	S/4HANA	KLAH	STATU	Class Status	Default to "1"

12.Maintenance Plan (Characteristics Values Header) (DCT)

Rule #	Source system	Source Table	Source Field	Source Description	Target System	Target Table	Target Field	Target Description	Transformation Logic
1	-	-	-	-	S/4HANA	KLAH	KLART	Class Type	Default to "080"
2	-	-	-	-	S/4HANA	INOB	OBTAB	Name of Database Table for Object	Default to "MPLA"
3	-	-	-	-	S/4HANA	KLAH	CLASS	Class number	Default to "EAM_9999"
4	-	-	-	-	S/4HANA	INOB	OBJEK	Key of Object	Derive from Maintenance Plan Object Number
5	-	-	-	-	S/4HANA	KLAH	STATU	Class Status	Default to "1"

13.Maintenance Plan (Characteristics Values Allocation) (ECC)

Rule #	Source system	Source Table	Source Field	Source Description	Target System	Target Table	Target Field	Target Description	Transformation Logic
1	-	-	-	-	S/4HANA	MPLA	WARPL	Maintenance Plan	System (Internal numbering)
2	-	-	-	-	S/4HANA	KLAH	KLART	Class Type	Default to "018"
3	-	-	-	-	S/4HANA	INOB	OBTAB	Name of Database Table for Object	Default to "MPLA"
4	-	-	-	-	S/4HANA	KLAH	CLASS	Class number	Default to "EAM_9999"
5	-	-	-	-	S/4HANA	INOB	OBJEK	Key of Object	Derive from Maintenance Plan Object Number
6	-	-	-	-	S/4HANA	CABN	ATNAM	Characteristic Name	Direct Mapping
7	-	-	-	-	S/4HANA	AUSP	ATWRT	Characteristic Value	Direct Mapping
8	-	-	-	-	S/4HANA	KSML	POSNR	Item Number	Generate sequence number starting with 1 by order the record is created for each Key of Object

14.Maintenance Plan (Characteristics Values Allocation) (DCT)

Rule #	Source system	Source Table	Source Field	Source Description	Target System	Target Table	Target Field	Target Description	Transformation Logic
1	-	-	-	-	S/4HANA	KLAH	KLART	Class Type	Default to "018"
2	-	-	-	-	S/4HANA	INOB	OBTAB	Name of Database Table for Object	Default to "MPLA"
3	-	-	-	-	S/4HANA	KLAH	CLASS	Class number	Default to "EAM_9999"
4	-	-	-	-	S/4HANA	INOB	OBJEK	Key of Object	Derive from Maintenance Plan Object Number
5	-	-	-	-	S/4HANA	CABN	ATNAM	Characteristic Name	Direct Mapping
6	-	-	-	-	S/4HANA	AUSP	ATWRT	Characteristic Value	Direct Mapping
7	-	-	-	-	S/4HANA	KSML	POSNR	Item Number	Generate sequence number starting with 1 by order the record is created for each Key of Object

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

Transformation Mapping

Mapping Table Name	Mapping Table Description
Maintenance Plan	Old to new Maintenance Plan
Maintenance Item	Old to new Maintenance Item
Maintenance Strategy	Old to new Maintenance Strategy
Functional Location	Old to new Functional Location
Equipment Number	Old to new Equipment Number
Material Number	Old to new Material Number
Task List Header	Old to new Task List Header
Measuring Point	Old to new Measuring Point
Work Centre	Old to new Work Centre

Assembly and Construction Type	Mapping of legacy Assembly / Construction Type to new Assembly / Construction Type
Maintenance Plan Sort Field	Old to new Maintenance Plan Sort Field
Priority	Old to new Priority
Order Type	Old to new Order Type
System Condition	Old to new System Condition
Maintenance Planner Group	Old to new Maintenance Planner Group
ENR-Maintenance Item Assembly	Enrichment to assign Assembly to Funtional Location or Equipment

Transformation Dependencies

List the steps that need to occur before transformation can commence

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

Pre-Load Validation

Project Team

Completeness

Task	Action
Verify Record Count	SyWay A2D Data Team to verify that the total number of relevant records from legacy systems and DCTs (if any) is equal to the total number of records in the Preload and Load Sheets.
Verify Data Integrity	SyWay A2D Data Team to verify that the total number of Operations per Work Oder header extracted from legacy systems and DCTs (if any) should be equal to the total number of operations identified in the Preload and Load Sheets

Accuracy

Task	Action
Conversion Accuracy	SyWay A2D Data Team to verify that all fields below meet pass the checks: 1. Mandatory Fields 2. Field and Value Mapping Correctness 3. Null Checks 4. Text Length Checks
Review Error Reports	Review and correct the errors. Achieve a zero-error record count as much as possible. Raise defects for data remediated and requiring a correction in the source data.

Business

Completeness

Task	Action
Verify Record Count	Business Data Owner/s to verify that the total number of relevant records from legacy systems and DCTs (if any) 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 fields below meet pass the checks: 1. Mandatory Fields 2. Field and Value Mapping Correctness 3. Null Checks 4. Text Length Checks

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	Obtain DCT Sign-off from Business	SyWay A2D Data Team
2	Syniti will provide load file	Syniti
3	Go to <Load Tool>	SyWay A2D Data Team
4	Load 3 records for "Create Maintenance Plan" function (IP01) to validate if data is loaded successfully without errors	SyWay A2D Data Team
5	Proceed with full load if step 4 is validated	SyWay A2D Data Team
6	Validate few records loaded by accessing standard transactions from S/4HNA E.g. IP03	SyWay A2D Data Team
7	Generate post load report if step 6 is validated	SyWay A2D Data Team

Load Phase and Dependencies

Pre-Cutover

Configuration

Item #	Configuration Item
1	T399W-Maintenance Plan Category
2	T024A-Planner Groups
3	T001W-Plant
4	T399I-Planning Plant
5	T357M-Machine operating condition
6	T353I-Activity Type
7	T356-Priority

8	TCA01-Task List Type
9	T003O-Order Type
10	T399G-Maintenance Plan Sort Field
11	TFACD

Conversion Objects

Object #	Preceding Object Conversion Approach
1002	Equipment
1003	Functional Location
1005	Task List
1012	Measuring Point
1017	Maintenance Strategy
2019	Materials - Basic Data View

Error Handling

Error Type	Error Description	Action Taken
Configuration	Invalid Maintenance Plan Category	Engage Functional team to expedite and fix the error in the system
Configuration	Invalid Planner Group	Engage Functional team to expedite and fix the error in the system
Configuration	Invalid Plant	Engage Functional team to expedite and fix the error in the system
Configuration	Invalid Planning Plant	Engage Functional team to expedite and fix the error in the system
Configuration	Invalid System Condition	Engage Functional team to expedite and fix the error in the system
Configuration	Invalid Maintenance Activity Type	Engage Functional team to expedite and fix the error in the system
Configuration	Invalid Priority	Engage Functional team to expedite and fix the error in the system
Configuration	Invalid Order Type	Engage Functional team to expedite and fix the error in the system
Invalid Data	Invalid Maintenance Strategy	Expedite whether the master data is changed in the system
Invalid Data	Invalid Work Centre	Expedite whether the master data is changed in the system
Invalid Data	Invalid Task List	Expedite whether the master data is changed in the system
Invalid Data	Invalid Functional Location	Expedite whether the master data is changed in the system
Invalid Data	Invalid Equipment	Expedite whether the master data is changed in the system

Post-Load Validation

Project Team

Completeness

Task	Action
Verify Count	SyWay A2D 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.
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.).

Accuracy

Task	Action
Conversion Accuracy	Verify that the Maintenance plan data in target S/4 HANA were loaded correctly via dspMigrate post load reports or standard reports from S/4 HANA.

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 EAM Maintenance plan data in target S/4 HANA were loaded correctly via dspMigrate post load reports or standard reports from S/4 HANA.

Key Assumptions

- Master Data Standard is up to date as on the date of documenting this conversion approach and data load.
- Maintenance Plan and Item is in scope based on data design and any exception requested by business.
- All data cleansing and preparation has been completed.
- Maintenance Plan collection timeline are the same as Equipment and Functional Location collection. Maintenance Plan collection needs to go hand in hand with equipment and functional location collection. Drop down for equipment and functional location in the maintenance plan DCT relies on the input in equipment and functional location DCT.
- All Maintenance Plans and Items mapped to valid Technical Objects in S/4 HANA

See also

Change log

Version	Published	Changed By	Comment
CURRENT (v. 144)	Apr 30, 2026 09:27	ERGUIZA-ext, Pinky Love	
v. 408	Apr 27, 2026 09:55	ERGUIZA-ext, Pinky Love	
v. 407	Apr 27, 2026 09:44	ERGUIZA-ext, Pinky Love	
v. 406	Apr 27, 2026 09:43	ERGUIZA-ext, Pinky Love	
v. 405	Apr 07, 2026 13:19	ERGUIZA-ext, Pinky Love	CR0438: Update in Relevancy Criteria JEST Inactive Flag
v. 404	Apr 07, 2026 11:00	ERGUIZA-ext, Pinky Love	
v. 403	Apr 07, 2026 10:59	ERGUIZA-ext, Pinky Love	
v. 402	Apr 07, 2026 10:27	ERGUIZA-ext, Pinky Love	CR0438: Update in Relevancy Criteria JEST Inactive Flag
v. 401	Apr 02, 2026 13:42	ERGUIZA-ext, Pinky Love	
v. 400	Apr 01, 2026 15:07	MAHAJAN-ext, iesha	CR0438

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Workflow history

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