5. Functional Specification

1. Functional Description

User Requirement

Every time, a Maintenance Plan or Item is saved, the system has to check if the maintenance plan is CMX relevant. If yes, transfer data to CMX.

Identification of Maintenance plan relevant for CMX interface:

It is not requested that the transfer is done real-time at the moment when the maintenance plan is saved. Periodical transfer (for example, every hour) is also acceptable.

Maintenance Plan with Functional Location that are CMX-relevant and Order Type “YA07” in the Maintenance Item have to be transferred to CMX. The selection criteria such as the order type may change, so they need to be parametric, not fixed.

Identification of Functional Locations relevant for CMX interface: the Functional Location is assigned with characteristic INTERFACE with value “CMX”.

Maintenance Plan with Equipment that are CMX-relevant and Order Type “YA07” in the Maintenance Item have to be transferred to CMX. The selection criteria such as the order type may change, so they need to be parametric, not fixed.

Identification of Equipment relevant for CMX interface: the Equipment is assigned with characteristic INTERFACE with value “CMX”.

Plant and order type should be among the selection parameters for maintenance plans, with the flexibility to change them in S/4HANA.

- A log must be readily accessible to Lonza IT S/4HANA PM support team to facilitate error identification during message transmission. It should support diagnostic capabilities by clearly indicating the point of failure (e.g., SAP, iSuite, CMX).

- On error detection, an automated email notification should be triggered to a predefined distribution list (e.g., IT support team)

- Reprocessing functionality should be available for transfers that ended in error.

- One unique point of access to display all errors for the different CMX outbound and inbound interfaces should be made available

Functional Description

If the Maintenance Plan Item is assigned to a Functional Location or Equipment that is CMX-relevant and Order Type “YA07” in the Maintenance Item, transfer data to CMX initial and after change.

The possibility to re-send maintenance plans with errors must be there.

Processing

After save Maintenance Plan transfer data to CMX Position.

Functional Location number (respect alternative labelling)

Functional Location with base label or alternative label_internal unique number (separator is _ “underscore”)

Equipment number (If Maintenance Item is assigned to an Equipment)

Cycle

Internal Unit shall be translated in English.

Order type, plant and characteristic value should be set as parameters, to be easily changed directly in S/4HANA.

*If there is the possibility to transfer the orders real-time, without impacting the performance of the system while the user is saving the plan, this is the preferred method. As an alternative, a delay of transfer every hour is also acceptable.

The program should allow re-execution, in case of errors during the transfer. To allow this flexibility, the “last time the program ran” should also be flexible, for example through the usage of a dynamic date, but manually changeable.

The new interface in S/4 HANA will be triggered by a background job that will run at regular intervals (or on demand) and which will evaluate all of the conditions described before and send the plan data that meet them, independently of whether the plan itself was updated or not.

Search Algorithms

A program will run with the following selection criteria:

Field	**Mandatory**	**Data Element**	**Default**	**Format / Options**
Plant	Yes	IWERK	None	Multiple Selection
Maintenance Plan		WARPL	None	Multiple Selection
Maintenance Item		WAPOS	None	Multiple Selection
Order Type	Yes	AUART	None	Multiple Selection
Main Work Center		GEWRK (ARBPL)	None	Multiple Selection

Functional Location		TPLNR	None	Multiple Selection
Equipment		EQUNR	None	Multiple Selection
Characteristic	Yes	ATINN	None	Multiple Selection
Characteristic Value	Yes	ATWRT	None	Multiple Selection
Check from Date	Yes	SY-DATUM	System date	Single value
Check from Time	Yes	SY-UTIME	00:00:00	Single value
Test Run		NA	None	Check Box

The interface shall only get data based on the selection criteria, for example, for Order Type, the current selection criteria is only for “YA07” and in the future, other order type can be added. This means the interface shall dynamically pick-up the changes made in the selection parameter.

CMX Message type CREATE or CHANGE

Communication:

The Interfaces are realized following the Documentation “Business Bridge Configuration” provided by Beamex.

SAP Field Mapping and Logic

Note: Double Asterisk(**) initial criteria relevant to data transfer to CMX. Fields with Asterisk(*) are key fields in order to joined the table. Fields with red text are common field

name to rename with extended name MI, MP, TL and SC, ST, FL, EQ as shown in the table below to identified which table they came from.

S. No.	Description	SAP Backend Table	SAP Field	SAP CDS Views or API/Entity	SAP Odata Field	Logic
						Get System ID (T30,Q30,P10,Q10…) from the API Odata Service url.
1	Maintenance Plan Status		'CREATE' or 'CHANGE'	C_MAINTENANCEITEMDEX C_MAINTENANCEPLANDEX I_FUNCTIONALLOCATION I_FUNCTIONALOCATIONLABEL I_EQUIPMENT I_CHANGEDOCUMENT I_CHANGEDOCUMENTITEM		**For create status:** Check UDATE and UTIME of Maintenance Plan (MPLAN Object) in the CDHDR table and when it is BLANK it means it is newly created plan. If true passed the data to CMX **For change status:** Check UDATE and UTIME of Maintenance Plan (MPLAN Object) in the CDHDR table and get all the latest change and when it there is a value greater than in the selection criteria "Check from Date / Check from Time" then check in the CDPOS for the table

						MMPT_CD in field names ZYKL1 and CD_ZYKL1_OFFSET_UNIT if has new value. This means there is a changes in cycle and cycle unit. If true passed the data to CMX If true Get Equipment, if Equipment = "no value" get Functional Location else get Equipment, Package cycle (in seconds) and Unit, convert the cycle value based on unit and round-off to whole number Else If true, Get Equipment, if Equipment = "no value" get Functional Location else get Equipment, Package cycle (in seconds) and Unit, convert the cycle value based on unit and round-off to whole number
2	Main Work Center	MPOS	GEWRK (ARBPL)	C_MAINTENANCEITEMDEX	MAINWORKCENTER	Get data

3	Maintenance Item	MPOS	WAPOS	C_MAINTENANCEITEMDEX	MAINTENANCEITEM	Get data
4	Maintenance Plan	MPOS MPLA	WARPL	C_MAINTENANCEITEMDEX C_MAINTENANCEPLANDEX	MAINTENANCEPLAN*	Join the table C_MAINTENANCEPLANDEX to the main table and match the field Maintenance Plan as the key field then get the data required.
5	Last Change DateTime in Maintenance Item (Short Time Stamp)	MPOS	TSTMP_BW	C_MAINTENANCEITEMDEX	LASTCHANGEDATETIMEMI	Extend the field name then get data
6	Maint. item text	MPOS	PSTXT	C_MAINTENANCEITEMDEX	MAINTENANCEITEMDESCRIPTION	Get data
7	Order Type	MPOS	AUART	C_MAINTENANCEITEMDEX	MAINTENANCEORDERTYPE**	**Selection Criteria:** MAINTENANCEORDERTYPE = YA07 (Based on the selection criteria selected on the program)
8	Maintenance Plant	MPOS	IWERK	C_MAINTENANCEITEMDEX	MAINTENANCEPLANT	**Get data**

9	CMX-relevant Functional Location	IFLOT AUSP	TPLNR ATINN	I_FunctionalLocation I_ClfnObjectCharcValueDEX	FunctionalLocation CLFNOBJECTID CHARACTERISTIC** CHARCVALUE**	**Selection Criteria:** FunctionalLocation with CHARACTERISTIC** = INTERFACE with CHARCVALUE** = CMX (Based on the selection criteria selected on the program)
10	Functional Location	MPOS MPLA IFLOT	TPLNR OBJNR	C_MAINTENANCEITEMDEX I_FUNCTIONALLOCATION I_FUNCTIONALOCATIONLABEL	FUNCTIONALLOCATION* FUNCTIONALOCATIONLABLENAME MAINTOBJECTINTERNALIDFL	Join the table I_FUNCTIONALLOCATION and I_FUNCTIONALOCATIONLABLE to the main table and match the field FUNCTIONALLOCATION as the key field then get the data required. a. IF FUNCTIONALLOCATION have same value with FUNCTIONALOCATIONLABLENAME GET FUNCTIONALLOCATION value then concatenate with “MAINTOBJECTINTERNALID” value with underline (_) separator. Example: Y11-AHU-RMS-PDT412370 is to Y11-AHU-RMS-PDT412370

						Result: Y11-AHU-RMS-PDT412370_IF00000000000000000004 b. IF FUNCTIONALLOCATION have different value with FUNCTIONALOCATIONLABLENAME GET FUNCTIONALOCATIONLABLENAME value then concatenate with “MAINTOBJECTINTERNALID” value with underline (_) separator. Example: Y11-BF6-FCV361221 to Y11-BF6-FCV361221-ALTLABEL01234567890123 Result: Y11-BF6-FCV361221-ALTLABEL01234567890123_IF?0100000000000000001
11	CMX-relevant Equipment	EQUI AUSP	EQUNR ATINN	I_Equipment I_ClfnObjectCharcValueDEX	EQUIPMENT CLFNOBJECTID	**Selection Criteria:** FunctionalLocation with CHARACTERISTIC** = INTERFACE with CHARCVALUE** = CMX

					CHARACTERISTIC** CHARCVALUE**	(Based on the selection criteria selected on the program)
12	Equipment	MPOS MPLA EQUI	EQUNR OBJNR	C_MAINTENANCEITEMDEX I_EQUIPMENT	EQUIPMENT* MAINTOBJECTINTERNALIDEQ	Get data and concatenate EQUIPMENT_MAINTOBJINTERNALIDEQ (underline "_" as separator)
13	Created on in Maintenance Item	MPOS	ERSDT	C_MAINTENANCEITEMDEX	CREATIONDATEMI	Extend the field name then get data
14	Changed On in Maintenance Item	MPOS	AEDAT	C_MAINTENANCEITEMDEX	LASTCHANGEDATEMI	Extend the field name then get data
15	Changed By in Maintenance Item	MPOS	AENAM	C_MAINTENANCEITEMDEX	LASTCHANGEDBYUSERMI	Extend the field name then get data
16	Last Change DateTime in Maintenance Plan (Short Time	MPLA	CHANGEDDATETIME	C_MAINTENANCEPLANDEX	LASTCHANGEDATETIMEMP	Extend the field name then get data

	Stamp)					
17	Maintenance PlanText	MPLA	WPTXT	C_MAINTENANCEPLANDEX	MAINTENANCEPLANDESC	Get data
18	Package cycle – Single Cycle	MMPT	ZYKL1	C_MAINTENANCEPLANDEX	MAINTPLANCYCRCRRCINTERVALQTY	Get data
19	Unit – Single Cycle	MMPT	ZEIEH / CD_ZYKL1_OFFSET_UNIT	C_MAINTENANCEPLANDEX	MAINTPLANCYCRCRRCINTERVALUNIT	Get data
20	Created On in Maintenance Plan	MPLA	ERSDT	C_MAINTENANCEPLANDEX	CREATIONDATEMP	Extend the field name then get data
21	Changed On In Maintenance Plan	MPLA	ERNAM	C_MAINTENANCEPLANDEX	LASTCHANGEDATEMP	Extend the field name then get data
22	Change By in Maintenance Plan	MPLA	AENAM	C_MAINTENANCEPLANDEX	LASTCHANGEDBYUSERMP	Extend the field name then get data

23	Change Document Object	OBJECTCLAS	CDHDR	I_CHANGEDOCUMENT	CHANGEDOCOBJECTCLASS	To be used in the selection criteria. CHANGEDOCOBJECTCLASS = MPLAN
24	Object Value	OBJECTID	CDHDR	I_CHANGEDOCUMENT	CHANGEDOCOBJECT	To be used in the selection criteria. Same value with Maintenance Plan.
25	Document Number	CHANGENR	CDHDR	I_CHANGEDOCUMENT	CHANGEDOCUMENT	To be used in the selection criteria
26	Date	UDATE	CDHDR	I_CHANGEDOCUMENT	CREATIONDATE	To be used in the selection criteria
27	Time	UTIME	CDHDR	I_CHANGEDOCUMENT	CREATIONTIME	To be used in the selection criteria
28	Table Name	TABNAME	CDPOS	I_CHANGEDOCUMENTITEM	DATABASETABLE	To be used in the selection criteria DATASETTABLE = MMPT_CD
29	Field Name	FNAME	CDPOS	I_CHANGEDOCUMENTITEM	CHANGEDOCDATABASETABLEFIELD	To be used in the selection criteria CHANGEDOCDATABASETABLEFIELD = ZYKL1 and CD_ZYKL1_OFFSET_UNIT

30	New Value	VALUE_NEW	CDPOS	I_CHANGEDOCUMENTITEM	CHANGEDOCNEWFIELDVALUE	To be used in the selection criteria

Note: Both Backend Tables and CDS Views can be viewed in Tcode SE16H.

CMX Fields and SAP Field Mapping

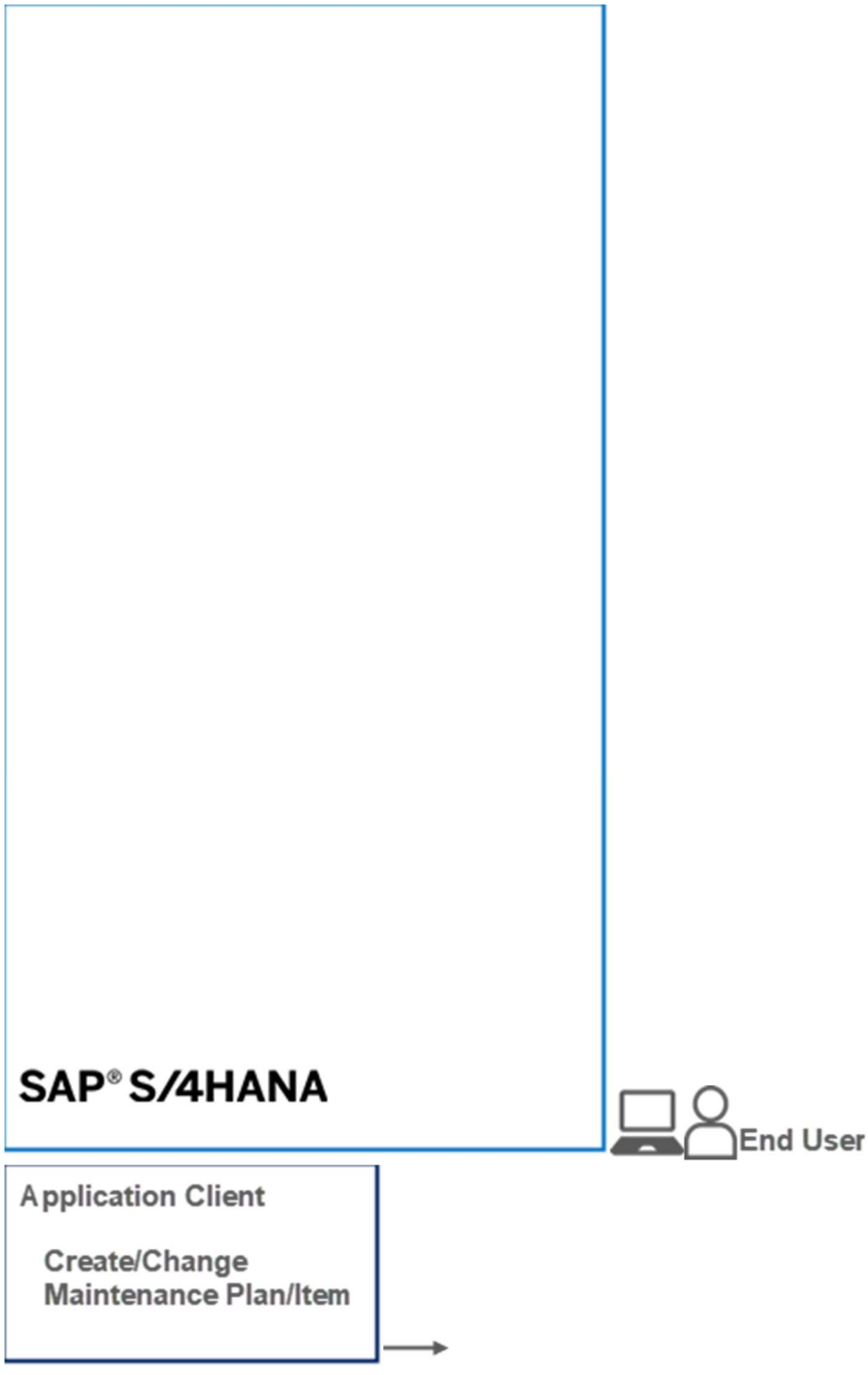
Only the fields below will be sent to CMX.

S. No.	CMX Fields	SAP Fields	Sample Value
1	MaintenancePlan_Order_Status	Based on Logic	Create or Change
2	MaintenancePlan_FLoc_Number	FUNCTIONALLOCATION_MAINTOBJECTINTERNALID Or EQUIPMENT_MAINTOBJECTINTERNALID	Y11_F6_SC21111_IF00000000000000000033 Or 10000119_IE000000000010000119
3	MaintenancePlan_Cycle	MAINTPLANCYCRCRRCINTERVALQTY	3
4	MaintenancePlan_Unit	MAINTPLANCYCRCRRCINTERVALUNIT	MON
5	MaintenancePlan_Item_Description	MAINTENANCEITEMDESCRIPTION	6538 Test Data - CALIB SCALE 32KG 3M
6	System ID	SY-SYSID	T30, Q30, P10, Q10 etc.

2. Flow Diagram

SAP INTEGRATION SUITE

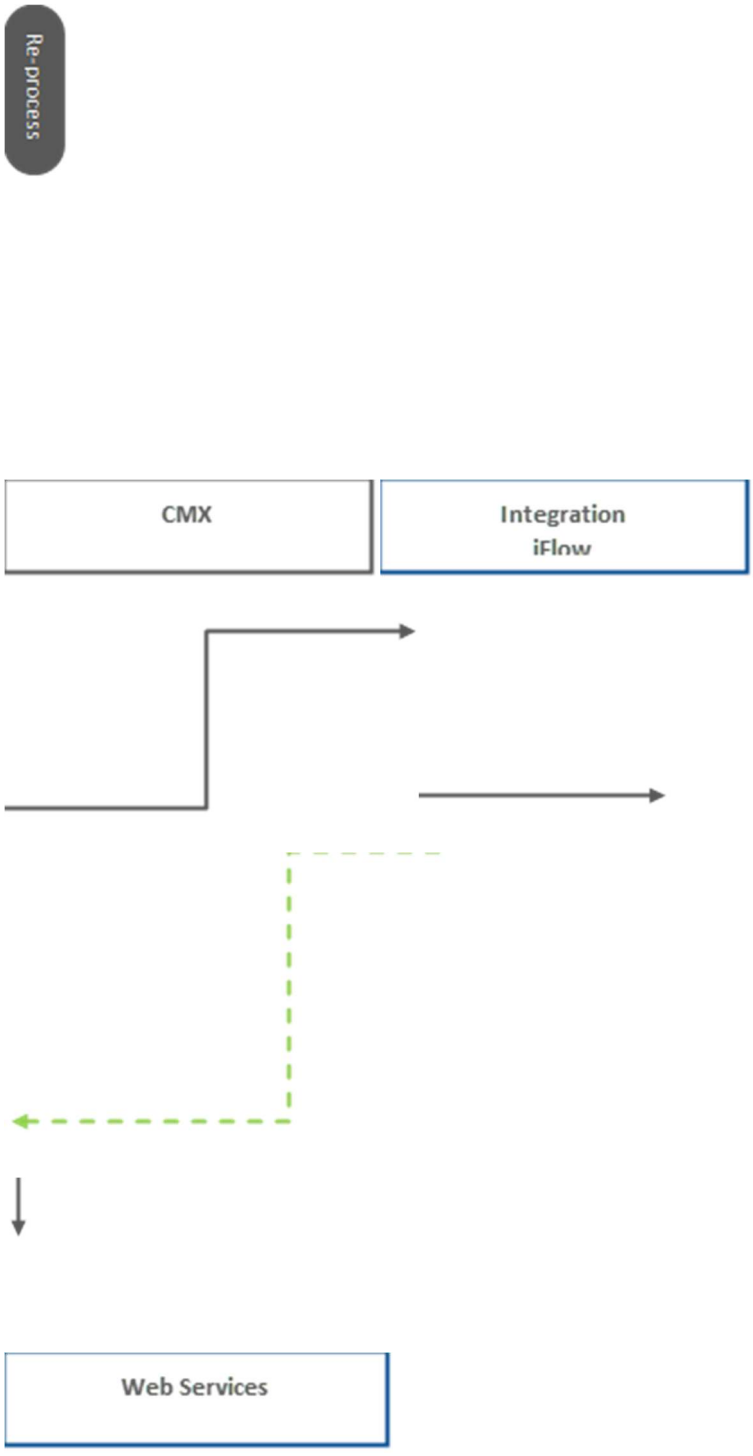
BEAMEX


SAP® S/4HANA
End User
Application Client
Create/Change
Maintenance Plan/Item

Standard CDS Views:
C_MAINTENANCEITEMDEX
C_MAINTENANCEPLANDEX
I_FUNCTIONALLOCATION
I_FUNCTIONALOCATIONLABEL
I_EQUIPMENT

1. Create Custom CDS View
2. Exposed the Custom CDS View as an API

Standard APIs:
API_FUNCTIONALLOCATION
API_EQUIPMENT


Re-process
CMX
Integration
iFlow
Web Services

Note: Error Handling with re-processing will be tackled on a different FDS consolidating all CMX Interfaces.

3. Unit Testing

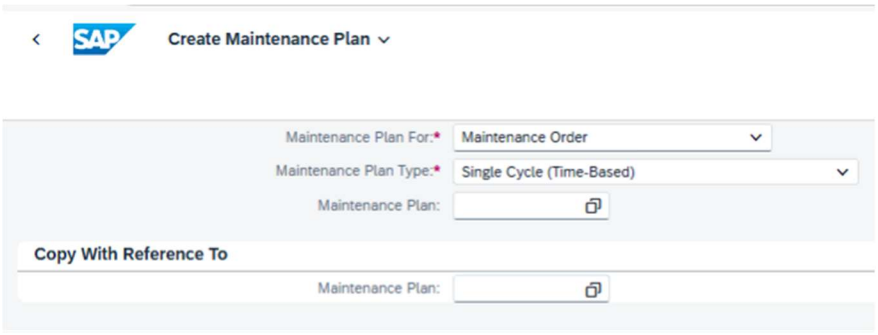
<<<Provide step by step example for unit testing >>>

4.3.1. Creation of new Maintenance Plan (for Functional Location with and without alternative labe and Equipment):

a. Logon to Fiori Launchpad

b. Go to app Create Maintenance Plan

c. In the Maintenance Plan For field choose “Maintenance Order” and in the Maintenance Plan Type field chose Single Cycle (Time-Based)



d. Enter the required data for setting up Calibration Maintenance Plan.

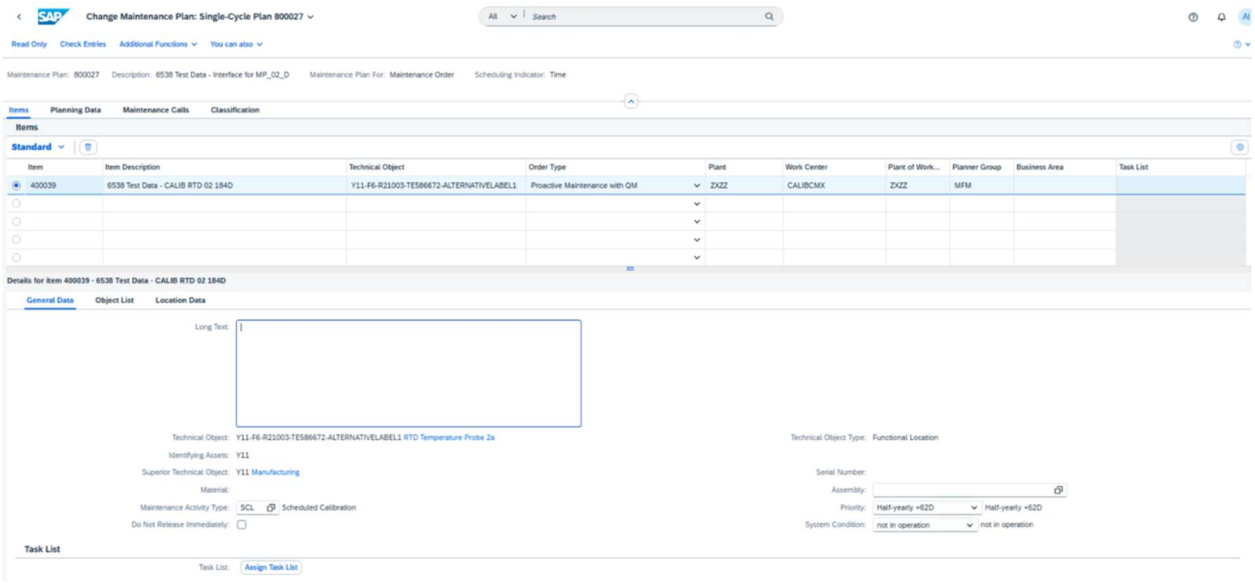
Following fields should have value:

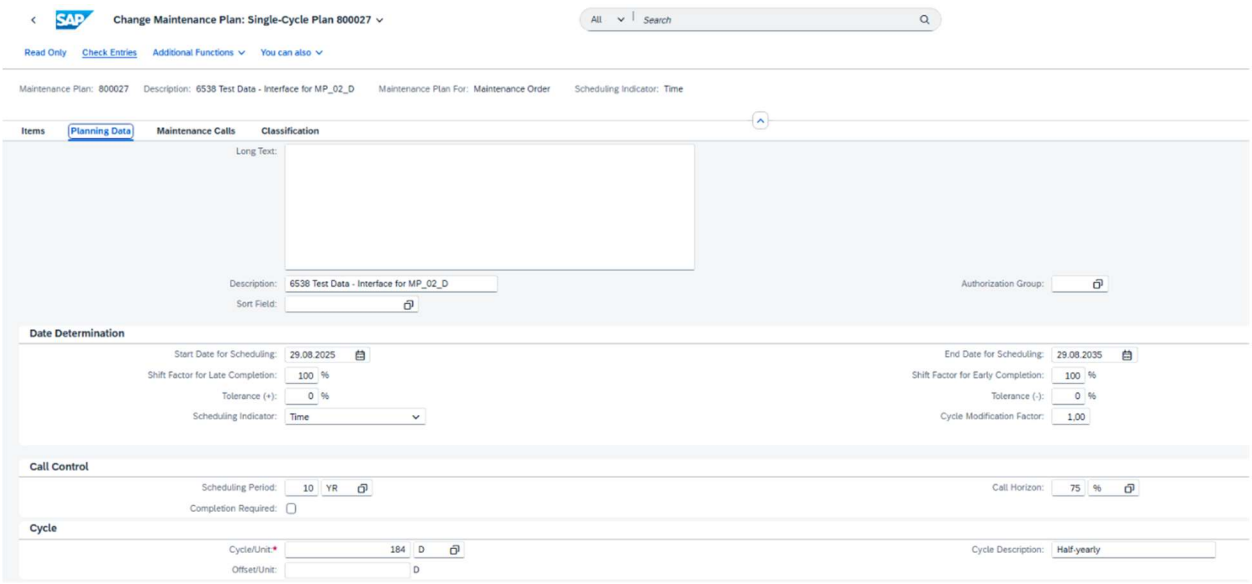
Main Work Center

Technical Object

Cycle

Unit





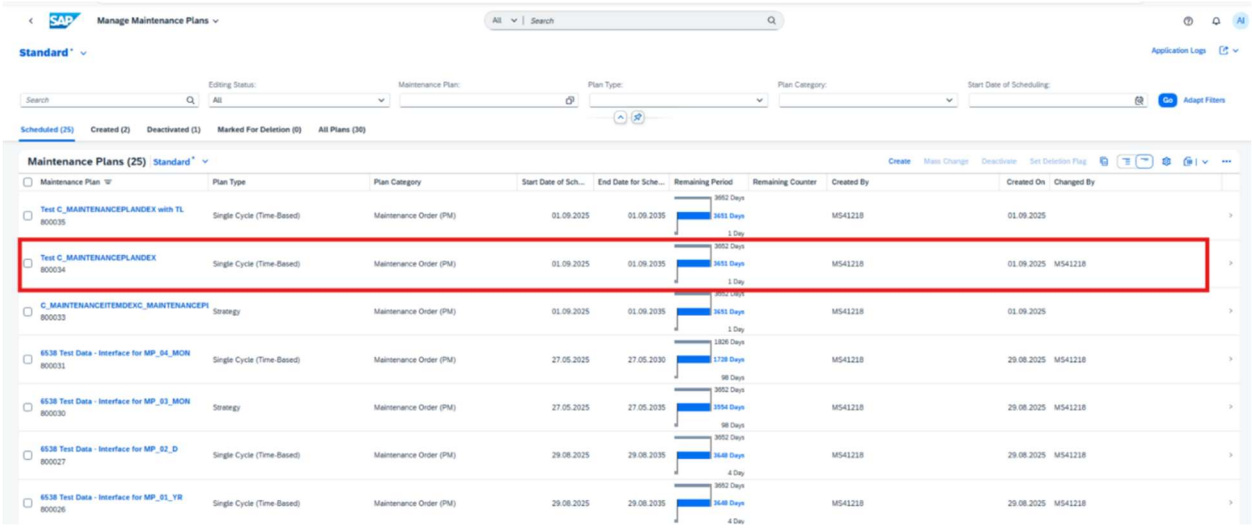
e. Enter other required fields of the maintenance plan and item.

f. Press “Save” button.

4.3.2. Updating an existing Maintenance Plan:

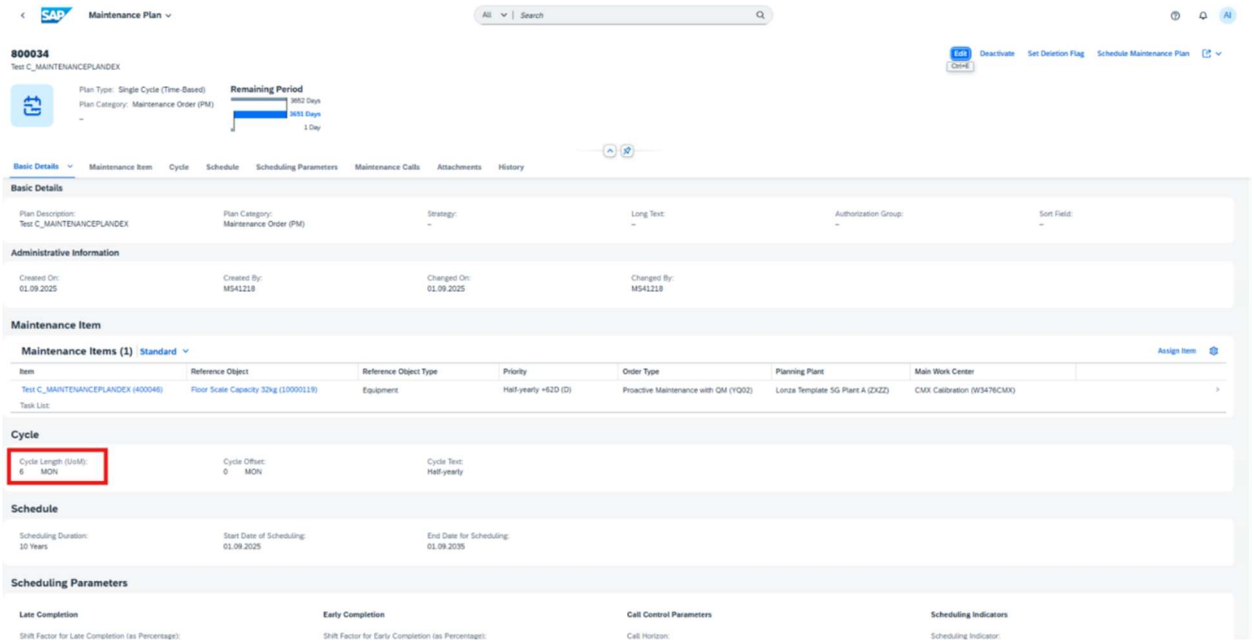
a. Logon to Fiori Launchpad

b. Go to app Manage Maintenance Plans



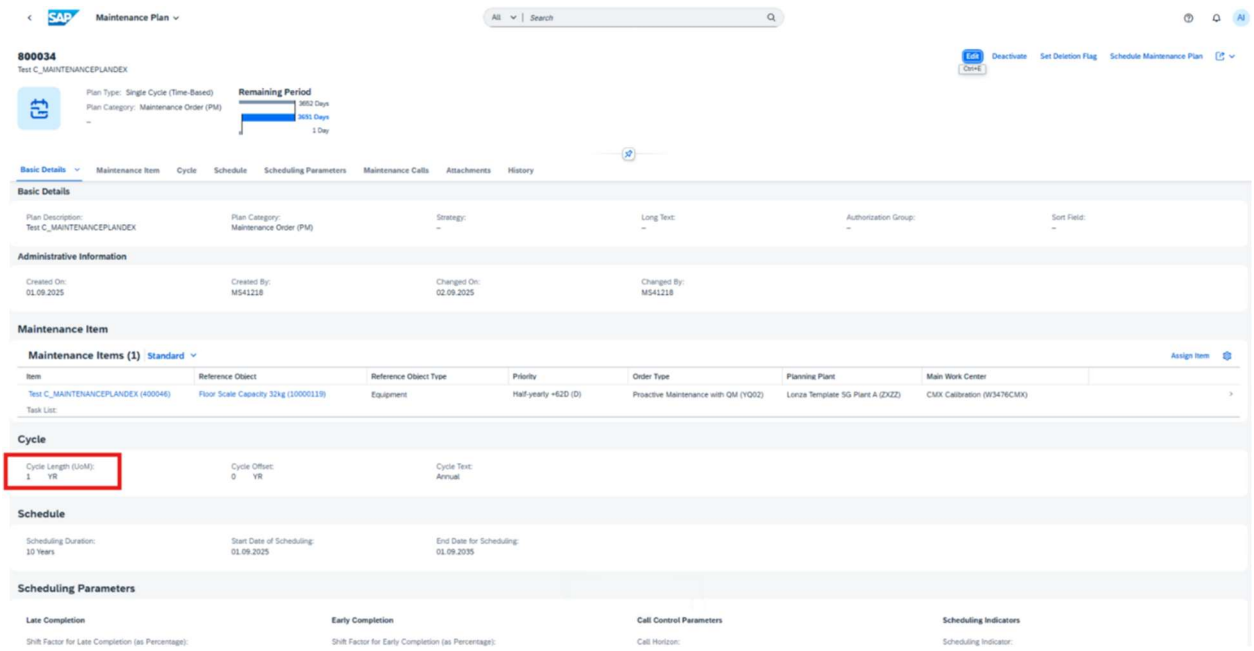
c. Go to the Maintenance Plan that needs to change.

Before change:



d. Change the Cycle and Unit (e.g from 6 MON to 1 YR)

After change:



e. Press “Save” button.

4.3.3. Validate in the Integration Suite of the successful transfer.

6. Design Specification

1. Configuration

<<< Rename Section 5.1.1 "Configuration reference" with the configuration node and repeat it for each unique configuration item.

- *Specify the SPRO configuration required for this custom development >>>*

1. Configuration reference

N/A

Configuration path (IMG, table, ...)	

1. Purpose of configuration

<<< Describe here the purpose and relevant information related to the configuration. >>>

2. Workflow

1. Technical Reference

<<< Technical Object References (class, program, t-code, ...) >>>

N/A

Object Name	**Object Type**	**Object Description**

2. Flow Diagram

<<< Please provide the technical process flow diagram >>>

N/A

3. Steps Description

<<< Process steps should be descriptive in nature. The aim of the process step is to describe the overall technical process >>>

N/A

4. Technical Details

N/A

Trigger Mechanism	Mention the start condition for the workflow, e.g. on creation of a purchase document, batch program etc. s
Start Condition	Example – The workflow should start only for certain document type, workflow should start only if credit amount is greater than 250000 etc.
Business Object	Mention the business object, if possible. Otherwise indicate the object in general terms (e.g., Purchase Requisition)
Standard Workflow Task / Template	In case of enhancement required for delivery workflow is required.
Level of Approval Required	
Agent Determination Technique	Role - Security Role Org Unit - HR Org Structure Custom Table - Agents in custom table Distribution Lists

	Unspecified - To be decided in Functional Specification Other <use to elaborate on a selection of "Other"> If the agent determination technique is different for each foreground step then please repeat this section.
Mention Logic for Agent Determination (if any)	
Notification Destination	Internal User (Mail Inbox) External User (email address)
Workflow Notifications Text	If any specific work item text/work item subject to be used.
Escalation Handling (if any)	If any deadline monitoring is to be done. Example: If approver does not approve for 3 business days notify his supervisor.
Integration with Portal	
Configuration Dependencies	Example setting up a new organization structure.
Error Handling (if any)	An exception situation could occur if workflow routes to a one position is vacant/not available (i.e. no user is assigned to that position.) If a specific report or additional information is required. Add attachment if necessary.
Substitution	

5. **Authorization**

<<< Explain which roles should be added or used to approve/reject and execute workflow items. Enter any custom authorization required >>>

N/A

No	Business Catalog	Authorization Parameter	Parameter Value

3. **Report**

1. **Technical Reference**

<<< Technical Object References (class, program, t-code, ...) >>>

N/A

Object Name	Object Type	Object Description

2. **Selection Screen Details**

<<< The functional designer should be able to detail exactly what he/she wants at the selection screen merely by using this table. The programmer will be able to construct the screen directly from the details in this table. Some technical knowledge will be needed for the complete production of this table>>>

N/A

Name	Type	Parameter or Select Option	Comments (Range, Single/Multiples selections, Patterns Mandatory etc.)	Default Value
	Table-Field Check Box Radio Button with Group	Parameter Select Option		
	Table-Field Check Box Radio Button with Group	Parameter Select Option		

3. Desired Screen Design

<<< Enter attachment if necessary >>>

N/A

4. Technical Details

<<< Information like relevant database tables, data retrieval logic, type of report like (simple list report or ALV), sorting order, detail functionality, other display attributes, special interaction on clicking one or more columns etc. can mentioned here >>>

N/A

5. Starting Conditions

<<< When should the report be run? Does an interface need to be run before the report is valid, and (more commonly), should it be a batch only program (with added security) or is it needed on-line as well?

E.g. 'This program will be run after month-end billing.

E.g. 'This program will be run each time a sales order is saved >>>

N/A

6. Data Mapping Tables

<<< List of all the fields along with their details are to be mentioned here. Look and feel wise, a desired report design can also be specified here >>>

N/A

Field Name	Field Description	Output Length	Output Type	Format	Position	Screen No / Field Name

7. Report Example

<<< Use Attachment if necessary >>>

N/A

8. Authorization

<<< Explain which roles should be added or used for these reports. Enter any custom authorization if required >>>

N/A

No	Business Catalog	Authorization Parameter	Parameter Value

4. Interface

1. Technical Reference

<<< Technical Object References (class, program, t-code, ...) >>>

Object Name	Object Type	Object Description

2. Technical Details

Interface Name	
Direction (with respect to this system)	Inbound Outbound other If other, please specify exactly
Interface Type	Batch near real-time real-time other If other, please specify exactly
Interface Frequency	Hourly Details: Daily Details: Weekly Details: Monthly Details: Quarterly Details: Yearly Details: On-Demand Details: Other Details:
Type of Records Sent	Delta Fields Delta full-record other If other, please specify exactly

Volume (per single execution)	Average Volume: <Volume> records per interface execution Peak Volume: <Lower Volume – Upper Volume>

3. Flow logic

<<< Please explain any flow logic, calculations, rules, etc.. that should be implemented in this interface >>>

4. Interface Data Layout

<<< Please list the source and destination data elements, plus any mapping that will be required for this interface. If IDOC, include segment name in structure column. Excel matching this format can be attached in place of this table. >>>

Source Structure	Source Field	Description	Data Type	Length	Transformation	Target Structure	Target Field	Description	Data Type	Length	Mand / Opt.	Comments/Remarks

5. Mapping Rules & Conversion Criteria

<<< This section should contain any additional mapping rules and conversion criteria not covered in the previous section. >>>

6. Special Case: Bi-Directional Real-Time Interface

<<< If you know this interface will be a bi-directional real-time interface (i.e. the "Source" system sends and receives data in the same execution), then a second data mapping is required. If applicable, duplicate the table from Section 4.4.4 and capture the "return data" mapping rules for the "Source" system >>>

7. Sample Data

<<< Please provide two attachments of sample source data with the expected target data after this interface is executed. Please supply the sample data in the native format or .csv, and preferably zipped >>>

8. Data Retention

<<< In file based interfaces a "backup" copy of interface data can be retained in the middleware for each execution. This can be useful for reconciliation purposes. Please indicate the retention period for this interface. If not file based, then the source or target system must fill any data retention requirements >>>

Selection		Comments
	None	
	7 Days	
	15 Days	
	30 Days	
	Other	

9. Middleware Solution

<<< This section should contain an outline of the chosen middleware solution and the processes involved. Middleware specific configuration should be specified >>>

10. Interface Scheduling

<<< Please describe any requirements around the timing of this interface >>>

11. Authorization

<<< Explain which roles should be created / added or users / IT for reprocessing errors or ad hoc requests. Enter any custom authorization if required. Enter the file path or folder structure to which users/IT will need access to >>>

No	Business Catalog	Authorization Parameter	Parameter Value

12. Other system documentation

<<< Reference the other system's documentation, when relevant >>>

5. Conversion

1. Technical Reference

<<< Technical Object References (class, program, t-code, ...) >>>

N/A

Object Name	Object Type	Object Description

2. Technical Details

N/A

Conversion Name	

3. Conversion Data Layout

<<< Please list the source and destination data elements, plus any mapping that will be required for this conversion. If uploading from file, source structure can be omitted. Excel matching this format can be attached in place of this table. >>>

N/A

Source Structure	Source Field	Description	Data Type	Length	Transformation	Target Structure	Target Field	Description	Data Type	Length	Mand/ Opt.	Comments/Remarks

4. Mapping Rules & Conversion Criteria

<<< This section should contain any additional mapping rules and conversion criteria not covered in the previous section. >>>

N/A

5. **Sample Data**

<<< Please provide two attachments of sample source data with the expected target data after this conversion is executed. Please supply the sample data in the native format or .csv, and preferably zipped >>>

N/A

6. **Authorization**

<<< Explain which roles should be created/added or used for loading data. Enter any custom authorization if required >>>

N/A

No	Business Catalog	Authorization Parameter	Parameter Value

6. **Enhancement**

1. **Business Add-Ins (BADIs)**

NA

BADI Property	Value/Object
System	*<<< BTP, S/4 HANA, ...>>>*
Transaction	
Enhancement Spot	
BADI Name	
Enhancement Implementation	
BADI Implementation	

Class	
Method	
Filter	
OData Service	

2. **Implicit Enhancement**

N/A

Property	**Value/Object**
Transaction	
Enhanced Object	
Implementation	

3. **User-Exits**

N/A

Property	**Value/Object**
Transaction	
Main Program	
Includes	
Form Routines	

4. **CDS Views Extension**

1. **Technical Reference**

N/A

Property	Value/Object
Original CDS View Name	
Extended CDS View Name	
Purpose of Extension	
Extension Type	☐CDS View Extension ☐Custom CDS consuming Standard CDS ☐View with Additional Associations or Joins ☐Metadata Extension
Odata Exposure	☐Yes ☐No
Input Field Parameters	
Service Definition	
Service Binding	

2. **Fields Added**

Field Name	Data Element	Source Table	Description	Annotations

5. **Function Exits**

N/A

Property	Value/Object
Transaction	
Enhancement	
Function Module Name	
Includes	

6. **Field Exits**

N/A

Property	Value/Object
Enhancement	
Main Program Name	
Function Module Name	
Field Exit Id	
Screen Number	
Screen Field Name	
Conditions for execution	

7. **Menu Exits**

N/A

Property	Value/Object
Enhancement	
Menu/Path	
Function/Transaction Code	

8. **Screen Exits**

N/A

Property	Value/Object
Enhancement	
Main Program Name	
Screen Number	
Program Name & Sub-Screen Number	

9. **Search Help Exits**

N/A

Field Name	Field Description	Import / Export (I/E)	Key Field (Y/N)	Data Element	Type (CHAR, NUMC)	Length	Default Value

10. **Search Help assignment**

N/A

Property	Value/Object
Standard Search Help	
Collective Search Help	
Elementary Search Help	

11. Business Transaction Events (BTE)

N/A

Property	Value/Object
Transaction	
BTE Number	
Product Name	
Function Module	

12. Custom Transaction

<<< Functional details of custom transaction can be incorporated here. Number of screens required and flow diagram can be included and provide the selection screen shot along with the table name and field name and screen shot for the required output >>>

N/A

13. Requirement routine

N/A

Menu/Submenu	
Routine number	
Business logic required	

14. Substitution

N/A

Validation Description	Fields required for validation	Point of Validation	Table used in validation	Business Rules

Substituted Field	Derived from Field	Table used in Substitution	Business Rules

15. Flow logic

<<< Please explain any flow logic, calculations, rules, etc that should be implemented in this enhancement >>>

N/A

16. Authorization

<<< Which authorization object should be used for controlled execution? Enter any custom authorization if required >>>

N/A

No	Business Catalog	Authorization Parameter	Parameter Value

7. Form

1. Technical Reference

<<< Technical Object References (class, program, t-code, ...) >>>

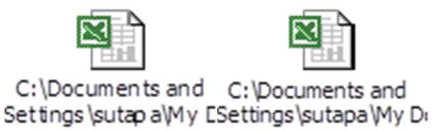
N/A

Object Name	Object Type	Object Description

2. Form Layout

<<< Refer to the following for an output samples for Window mapping, Label Description and Field mapping >>>

N/A



3. Layout Windows

N/A

Reference	Print on page	Label Position
		X : Y :
		X : Y :
		X : Y :
		X : Y :
		X : Y :
		X : Y :
		X : Y :

4. Field Mapping

N/A

Field	Field Description	Functionality	Logic	Print on page	Font	Font Format	Window

5. Standard Texts / Text Modules

N/A

Reference	Text	Print on page	Label Position	Font	Output Format	Font Format

6. Translation

N/A

Reference	Description of use (in Language1)	Description of use (in Language2)	Description of use (in Language3)	Text Module Name	Notes

7. Layout Details

N/A

Position of Left Margin (specify unit)	
Position of Right Margin (specify unit)	
Position of Logo (specify unit)	

Logo (specify logo)	
Position of Main Window (specify unit)	

8. Flow logic

<<< Please explain any flow logic, calculations, rules, etc that should be implemented in this form >>>

N/A

9. Authorization

<<< Explain which roles should be created/added or used for printing and testing forms. Enter any custom authorization if required >>>

N/A

No	Business Catalog	Authorization Parameter	Parameter Value

8. Fiori Application

1. Header Information

N/A

Application Title	

Application ID	
Type of Enhancement	☐Custom Application ☐ Standard Application
Development Type	*<<<Fiori Elements App ….Free Style UI5 App>>>*
Application Type	*<<<List Report, Object Page , Over view Page ,etc >>>*
UI Enhancements	☐Custom Fields Added ☐UI Layout Modified ☐Extensibility Hook Used ☐Fragments or Views Introduced

2. Technical Reference

N/A

Object Name	Object Type	Object Description
<<< Odata Object >>>		
<<< CDS View >>>		
<<< Custom Fields >>>		
<<< Catalogs >>>		
<<< Rules >>>		

3. Desired Screen Design

<<< Enter attachment if necessary >>>

N/A

4. Technical Details

<<< Information like relevant database tables,CDS Views,ODATA services , data retrieval logic, detail functionality, other display attributes, special interaction on clicking one or more columns etc. can mentioned here >>>

N/A

5. Authorization

<<< Enter Authorization Objects/fields, to be used and specific user Groups >>>

N/A

No	Business Catalog	Name of Space (L2)	Name of Page (L3)	Name of Section (L4)	Name of App/Tile(L5)	Authorization Parameter	Parameter Value

7. Custom Tables/Structure

<<< This section should detail the attributes of any new custom table created for one of the above sections, and the properties of its fields.

NB: Existing Data Elements and/or Domains should be used whenever possible when creating custom table fields, in order to avoid unnecessary typos. In this instance, the data table row for that field should not be completed beyond 'Domain', as the remaining attributes will be default values for the selected Domain. >>>

N/A

Table Name	
Short text	
Size category	
Table maintenance allowed	
Maintenance Type	Manual / Automatic Maintenance (application table) Transportable Maintenance (customizing table)
Data class	
Buffering	
Table maintenance generation	
Authorization Group	
Change Log Enabled (Y/N) *(mandatory for GxP related table)*	
SPRO Path *(mandatory for customizing tables)*	

Field Name	**Data Element**	**Domain**	**Type**	**Length**	**Check Table-Field**	**Key Field**	**Foreign Key**	**Description**

Comments

8. Error Handling

<<< Provide Error Handling details here. Job run notifications, error notifications, E-Mail messaging, custom programming, etc. may be required >>>

1. Error Messages

<<< Describe the expected error messages for different error conditions >>>

Note: Error Messages S = SAP Origin, I = Integration Origin, C = CMX Origin

Error Message Number	Error Message Text (70 characters)	Error Conditions
01S		
02I		
03C		

9. Validation

1. Test Case References

<<< List the Test Case(s) used to validate the functionality / configuration covered in this document (IQ / OQ). >>>

Test Case ID	Test Case	Comment
