5. Functional Specification

1. Functional Description

This interface facilitates the transmission of calibration results from the CMX system to the SAP system, supporting various business transactions within the Enterprise Asset Management (EAM) processes. The key functions include:

- a. Maintenance Order Time Confirmation: Capturing the time spent on work performed during the calibration process.
- b. Transfer of Calibration Results: Transmitting the calibration results into the Maintenance Notification data as Maintenance Notification Activities.
- c. Maintenance Order Status Updates: Automatically updating the User Status and System Status of the Maintenance Order based on the calibration results.
- d. Maintenance Notification Status Updates: Automatically updating the User Status and System Status of the Maintenance Notification based on the calibration results.
- e. Technical Object Status Updates: Modifying the User Status of the Technical Object (either Functional Location or Equipment) in accordance with the calibration results.

The following steps ensure that the integration of calibration results data from CMX into SAP is executed smoothly:

Data Transfer from CMX to SAP via Integration Suite:

When a Maintenance Order is marked as finished in CMX, the corresponding data is transferred to SAP via Integration Suite. This is an all-or-nothing transfer, meaning either all data required for the order is transferred, or none at all. This ensures consistency and integrity of the data. CMX shall prepare maintenance order data and calibration results in such a way that iSuite can consume and retrieve data without missing any single maintenance order.

Data transfer from CMX include:

- Calibration results, entered in the notification activities
- Time confirmation

Status Change of SAP Objects via Integration Suite:

When the calibration results data had been posted in SAP, the interface will set the User Status and System Status accordingly for the 3 objects (Maintenance Order, Maintenance Notification and Technical Objects of either Functional Location or Equipment).

Data Processing Steps:

The interface (iSuite) will be triggered every 5 minutes to establish communication to CMX, using the CMX message type RETURN for the data exchange.

The internal status is applied based on English language in SAP. This determines how status information is displayed in the system.

Detailed Workflow:

- 4.1.1 After a Maintenance Order is marked as finished in CMX, the iSuite initiates a GET request every 5 minutes to retrieve the following calibration results:
 - Calibration Passed
 - As Found Passed
 - As Left Passed
 - Calibration Certificate Number
 - Calibration Date and Time
 - Calibration User ID
 - Working Hours
 - Discrepancy Number

- Functional Location
- Maintenance Order

4.1.2 The Maintenance Notification associated with the Maintenance Order is retrieved via the API_MAINTENANCEORDER_002 entity MaintenanceOrder.

The retrieved calibration data is then posted to SAP using the following APIs and entities:

- API MAINTNOTIFICATION:
- o <u>MaintenanceNotificationItem</u>
- MaintenanceNotificationItemActivity

Transfer Maintenance Notification Data/Results:

The Maintenance Notification Activities section of the notification will hold the calibration date/results using the Catalog Profile, Code Groups and Codes.

Catalog Profile:

The." LPB-001 "Global Lonza Catalog Profile" catalog profile is used for the notification.

Code Group:

The code group CMX-CONF "CMX Confirmation/Result" will be used for the notification with the following codes:

0001: Calibration Passed

0002: As Found Passed

0003: As Left Passed

A002: Calibration Certificate Number

B002: Calibration Date and Time

B007: Discrepancy Number

- API MAINTENANCEORDER 002:
- o <u>SetMaintOrdToMainWorkComplete</u>

Field	Requirement	Description
MaintenanceOrder	Mandatory	
MainWorkCompletedDateTime	' ' ' '	Refer to the Calibration date and time from CMX result.
MainWrkCmpltdDateTimeIsUsed	Mandatory	Should be always true

4.1.3 When a calibration task is performed in CMX in reference to a maintenance order, the relevant confirmation data is transmitted to SAP through the SAP Integration Suite. This process uses SAP's standard API, <u>API_MAINTORDERCONFIRMATION</u>, to post confirmation records directly to the corresponding maintenance order and operation. Each confirmation includes details such as the execution time frame, actual work hours, activity type, and the technician who performed the task. If the confirmation is marked as final, SAP will automatically update the status of the order or operation accordingly.

The interface captures several key pieces of information during the confirmation process:

Work Center: Identifies the work center responsible for performing the calibration.

Actual Work Hours: Reflects the actual time spent on the calibration, as provided by CMX. Hours are sent in decimal format (e.g., 1.5 = 1 hour and 30 minutes) and are converted into SAP's unit of measure (e.g., HR).

Activity Type: Indicates the classification of the work performed, retrieved from the maintenance order operation data in SAP.

Final Confirmation: Each confirmation is marked as final to indicate completion of the calibration activity.

Technician/User ID: The user ID from CMX is used to identify the technician and is mapped to a valid SAP personnel number. This mapping is handled through a custom API based on the CDS view I_BUSINESSUSERVH, which links external CMX user IDs with SAP usernames and personnel numbers.

Actual Start Date and Time: Represents when the calibration activity began. This data is retrieved from SAP based on the related operation's earliest date and time on which the execution of this operation can start.

Actual End Date and Time: Reflects when the calibration task was completed, provided by CMX.

To ensure accurate processing, the maintenance order number received from CMX must match an open or released order in SAP. The corresponding operation number is also extracted from CMX and validated against the maintenance order using the API_MAINTENANCEORDER. Once validated, all relevant data, including timing, personnel, work hours, and activity type, are submitted via the interface to ensure the calibration is properly and accurately recorded in SAP.

- 4.1.4 After the data posting is completed, iSuite triggers a BAPI to update the relevant User Statuses in SAP based on the calibration result:
 - If Calibration Passed = true:
 - User Status CMXC is set on the Maintenance Order (E0010) and Maintenance Notification (E0004).
 - User Status RLSD (E0002) is set on the Technical Object.
 - If Calibration Passed = false:
 - User Status CMXC is set on the Maintenance Order (E0010) and Maintenance Notification (E0004),
 - User Status OSNC (E0003 Out of Service Not Calibrated) is set on the Technical Object.

4.1.5 Status Monitoring and Completion Logic

A different iSuite-iFlow runs every 5 minutes to monitor the processing completion status by calling the API_MAINTENANCEORDER_002 entity MaintenanceOrder. It checks for the presence of both:

- System Status: OMWC ("Main Work Completed", a new System Status in S4 for the phase-based model)
- User Status: CMXC (E0010)

If both statuses are confirmed, iSuite then triggers the <u>SetMaintOrdToTechCompleted</u> operation via the same API (<u>API_MAINTENANCEORDER_002</u>) to mark the order as Technically Completed (TECO).

The following fields must be populated to ensure that the associated Maintenance Notification is also properly marked as Notification Completed (NOCO).:

Field	Requirement	Description
		If this checkbox is selected, all
		notifications associated with the
AssignedMaintNotifIsToBeClosed	Mandatory	maintenance order are closed.
MaintenanceOrder	Mandatory	
		User Main Work Completed date and
MaintOrderReferenceDateTime	Mandatory	time for the technical completion
		If this checkbox is selected, the Main
		Work Completed date and time are used
MainWrkCmpltdDateTimeIsUsed	Mandatory	for the technical completion.

Error Handling:

- 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

User requirement:

To better perform the evaluation, the Business requests a custom report like **ZMVI0116** in the ECC System. This will be tackled on a different RICEFW.

List of APIs to be used:

- Standard APIs
- o API_MAINTENANCEORDER_002
- API_MAINTNOTIFICATION
- API_MAINTORDERCONFIRMATION
- Custom APIs
- I_BUSINESSUSERVH (ZZ1_A2R_CMX_BUSERVH_CDS)

SAP and Integration Logic

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			EQUN		Equipment	separator from CMX. Use
	Obj	-	R			this value to retrieve the
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		S				These fields will be retrieved
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	er					separator from CMX. Use
	GI					this value to retrieve the

	rati on Nu mb er	AF VC	R	API_MAINTENANCEORDER_ 002/MaintenanceOrder/to_ MaintenanceOrderOperatio n	erOperation	especially the MaintenanceOrder For Maintenance Order Time Confirmation: GET the MaintenanceOrder and MaintenanceOrderOperatio n to be used in POST call for API/Entity API_MAINTORDERCONFIRM ATION/MaintOrderConfirma tion
6	nte nan	AU FK S	-	API_MAINTENANCEORDER_ 002/MaintenanceOrder	ification	The MaintenanceNotification will be retrieved from API call GET using the MaintenanceOrder
7	Cali brat ed Pas sed	M M A QP C D	M MNG RP		ification MaintenanceNot ificationItem MaintNotifActyTx t MaintNotifAct ivityCodeGroup MaintNotificatio nActivityCode	Retrieve the NotifActivityCodeText, MaintNotificationActivityCo de and MaintNotifActyTxt from CMX based on the MaintenanceNotification query above, then call the API_MAINTNOTIFICATION to POST the retrieved results: e.g: - MaintNotificationActivityCo de: "0001"(CMX)

					PlannedStartTim	-MaintNotifActyTxt:
					e	"true"(CMX)
					DlannedEndDate	-PlannedStartDate: " "
					i taririeu Liiu Date	
						(BLANK)
					PlannedEndTime	-PlannedStartTime: "
						"(BLANK)
						Diama ad Eural Data
						-PlannedEndDate:
						"/Date(1755043200000)/"
						(CMX 2025-08-13)
						-PlannedEndTime:
						"PT14H28M53S " (CMX
						T14:28:53)
						- MaintNotifltemText: "CMX
						confirmation/result" (fixed
						value)
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ď	Fou			API_MAINTNOTIFICATION/M		with variable fields based on
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A.G.			ADI MAINITNIOTICIOATIONI/NA	PlannedStartTim e PlannedEndDate PlannedEndTime	Deferming to stop 7 for to dis-
As Left Pas sed	M A QP C D	M MNG RP	API_MAINTNOTIFICATION/M aintNotificationItemActivity	ification MaintenanceNot	with variable fields based on retrieve values from CMX for this activity are:

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brat	M M A QP C	FENU M MNG RPKU RZTE XT MNC OD	ification MaintenanceNot	For Maintenance Notification Activity: Referring to step 7 for logic with variable fields based on retrieve values from CMX for this activity are: - MaintNotificationActivityCo de: "B002"(CMX)

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			e	The Calibration date and
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				time will be used to POST in
			е	the fields:
			PlannedEndDate	-PlannedStartDate = " "
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			- .	
			PlannedEndTime	-PlannedStartTime = " "
				(BLANK)
				-PlannedEndDate =
				MaintNotifActyTxt: "2025-
				08-13" (Get Date)
				, ,
				-PlannedEndTime =
				MaintNotifActyTxt:
				"T14:28:53" (Get Time)
				For Maintenance Order Time
		API_MAINTENANCEORDER_		Confirmation:
		002/MaintenanceOrder/to_		The Calibration Date and
		MaintenanceOrderOperatio		Time value will be mapped
		n		to
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			OperationConfir	API/Entity
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			medenabate	IsFinalConfirmation = true
			OperationConfir	for POST call.
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		API_MAINTENANCEORDER_		This Calibration date and
		002/		time will also be used for the
		SetMaintOrdToTechComplet		MainWorkCompletedDateTi
		ed		me in setting the order
				system status to Main Work
				Completed which will be
				further be used as the
				reference date for the
				Technical Completion of the
				order and notification.
			MainWorkCompl	
			etedDateTime	

orat	Q			MaintOrderRefer enceDateTime	
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he	Μ		API_MAINTNOTIFICATION/M aintNotificationItemActivity		For Maintenance Notification Activity (to be
Зу	Δ	MNG RPKU		MaintenanceNot	ignored, code is deactivated)
· ID	C D	RZTE XT MNC OD		MaintNotifActyIx t MaintNotifAct ivityCodeGroup	Referring to step 7 for logic with variable fields based on retrieve values from CMX for this activity are:
				MaintNotificatio nActivityCode	- MaintNotificationActivityCo de: "B003"(CMX)
				PlannedStartDat e	-MaintNotifActyTxt: "need sample"(CMX)
			1.1.1. 0501/		
				PlannedEndDate	For Maintenance Order Time Confirmation:
	РА	ME		PlannedEndTime	The retrieved Calibration By User ID data will be mapped to UserID
	05	PERN R	ATION/MaintOrderConfirma	UserID	then GET the BusinessPartner number in
				BusinessPartner	the Custom API call for ZZ1_A2R_CMX_BUSERVH_C
				er	DS. The BusinessPartner value will be used in the field PersonnelNumber of API/Entity
	AF	R	n		API_MAINTORDERCONFIRM ATION/MaintOrderConfirma tion.
		PA 01 05	UNA PA 01 05 PERN R	I_BUSINESSUSERVH exposed this CDS View as a Custom API ZZ1_A2R_CMX_BUSERVH_C DS UNA ME PERN API_MAINTORDERCONFIRM ATION/MaintOrderConfirma tion API_MAINTENANCEORDER_ 002/MaintenanceOrder/to_ MaintenanceOrderOperatio n AF B LEAR R	T nActivityCode PlannedStartDat e I_BUSINESSUSERVH exposed this CDS View as a Custom API ZZ1_A2R_CMX_BUSERVH_C DS UNA ME PERN API_MAINTORDERCONFIRM ATION/MaintOrderConfirma tion API_MAINTENANCEORDER_ O02/MaintenanceOrder/to_ MaintenanceOrderOperatio n LEAR R I_BUSINESSUSERVH PlannedStartTim exposed this CDS View as a PlannedEndDate PlannedEndDate UserID BusinessPartner

				GET as well the ActivityType from the API call API_MAINTENANCEORDER_ 002/MaintenanceOrder/to_ MaintenanceOrderOperatio n and mapped it to ActivityType of API_MAINTORDERCONFIRM ATION/MaintOrderConfirma tion for POST call.
brat ion Inco mpl ete	M M A QP C D	API_MAINTNOTIFICATION/M aintNotificationItemActivity	ification MaintenanceNot ificationItem MaintNotifActyTx t MaintNotifAct ivityCodeGroup MaintNotificatio nActivityCode PlannedStartDat e	For Maintenance Notification Activity (to be ignored, code is deactivated) Referring to step 7 for logic with variable fields based on retrieve values from CMX for this activity are: - MaintNotificationActivityCo de: "B004"(CMX) -MaintNotifActyTxt: "need sample"(CMX)

	M M A QP	FENU M MNG RPKU RZTE XT MNC OD MATX T	API_MAINTNOTIFICATION/M aintNotificationItemActivity	ification MaintenanceNot ificationItem MaintNotifActyTx t MaintNotifAct ivitvCodeGroup	For Maintenance Notification Activity (to be ignored, code is deactivated) Referring to step 7 for logic with variable fields based on retrieve values from CMX for this activity are: - MaintNotificationActivityCo de: "B005"(CMX) -MaintNotifActyTxt: "need sample"(CMX)
king Hou	M M A QP	MNG RPKU RZTE XT MNC OD MATX T	API_MAINTNOTIFICATION/M aintNotificationItemActivity		For Maintenance Notification Activity (to be ignored, code is deactivated) Referring to step 7 for logic with variable fields based on retrieve values from CMX for this activity are: - MaintNotificationActivityCo de: "B006"(CMX)

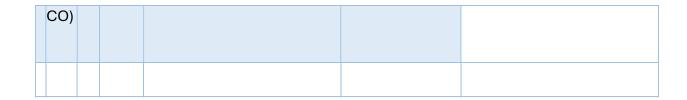
					DlannedStartDat	-MaintNotifActyTxt: "need
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				API_MAINTORDERCONFIRM	e	sample"(CMX)
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		AF RU	ISMN W		PlannedEndTime	The retrieved Working Hours data will be mapped to ActualWorkQuantity of
					ActualWorkQuan titv	API/Entity API_MAINTORDERCONFIRM ATION/MaintOrderConfirma tion for the POST call.
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6	cre	Μ	M	aintNotificationItemActivity	ification	with variable fields based on
	pan	Μ	MNG		MaintenanceNot	retrieve values from CMX for
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	er	D	TEXT		t MaintNotifAct	de: "B007"(CMX)
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1 Sing Q 7 le M Use M Sta A nda rd C Ref D ere nce			For Maintenance Notification Activity (to be ignored, code is deactivated) Referring to step 7 for logic with variable fields based on retrieve values from CMX for this activity are: - MaintNotificationActivityCo de: "B008"(CMX) -MaintNotifActyTxt: "need sample"(CMX)
1 Sing Q 8 le M Use M r A Sta QI nda C rd D Expi rati on Dat e	FENU M MNG RPKU PRZTE XT MNC OD MATX T		Notification Activity (to be ignored, code is deactivated) Referring to step 7 for logic with variable fields based on

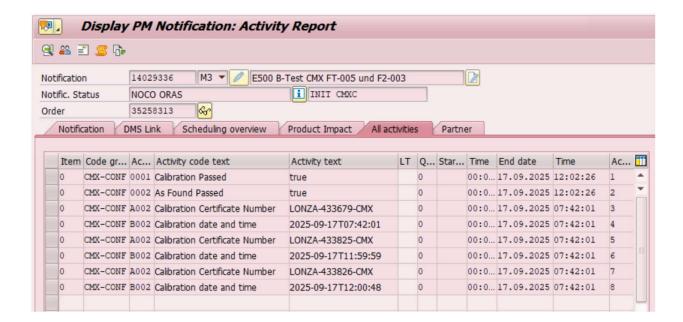
			PlannedStartTim e PlannedEndDate PlannedEndTime	-MaintNotifActyTxt: "need sample"(CMX)
App	M M A QP C D		ification MaintenanceNot ificationItem MaintNotifActyTx t MaintNotifAct ivityCodeGroup	For Maintenance Notification Activity (to be ignored, code is deactivated) Referring to step 7 for logic with variable fields based on retrieve values from CMX for this activity are: - MaintNotificationActivityCo de: "B012"(CMX) -MaintNotifActyTxt: "need sample"(CMX)
	ST	API_MAINTENANCEORDER_ 002/MaintenanceOrder	ainWorkComplet e	If Calibration Passed had retrieved value, then call the API_MAINTENANCEORDER_002 to POST SetMaintOrdToMainWorkCo

us – Mai n Wor k Co mpl ete d		INACT	API_MAINTENANCEORDER_ 002/SetMaintOrdToMainWor kComplete	•	mplete with the MainWorkCompletedDateTi me equals to the Calibration date and time from CMX and MainWrkCmpltdDateTimeIs Used = true
er Use r Stat	ST VI	OBJN R STAT INACT		N/A	After the calibration result is posted, iSuite triggers a BAPI to update the User Statuses in Maintenance Order User Status based on the calibration result: If Calibration Passed = retrieved value, then set CMXC.
fica tion	ST VI	OBJN R STAT INACT		N/A	After the calibration result is posted, iSuite triggers a BAPI to update the User Statuses in Maintenance Notification User Status based on the calibration result: If Calibration Passed = retrieved value, then set CMXC.
hnic al Ohi	ST IFL	СТАТ		N/A	After the calibration result is posted, iSuite triggers a BAPI to update the User Statuses in Maintenance Notification User Status based on the calibration result:

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	Stat	FΚ		API_MAINTENANCEORDER_		
	us –				enceDateTime	002 entity
	Tec			SetMaintOrdToTechComplet		MaintenanceOrder, if both
	hnic			ed		present then make an API
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	Co					SetMaintOrdToTechComplet
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						me, and
) NI - +:	ır	ODIN	ADI MAINITENIANIOEODDED	A a a i was a al Mariant NI	${\sf Assigned Maint NotifIs To Be Cl}$
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•	fica			002/	otifIsToBeClosed	Notification System Status –
	tion	VI		SetMaintOrdToTechComplet		Notification Completed
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Note: In certain scenarios, CMX may send more than one or two calibration records. The interface must be capable of processing and posting all received records accordingly.



Important:

Result Existence and Duplication Checks

The interface must have the capability to check for existing records in the Maintenance Notification Item Activity before posting new entries, in order to prevent duplication. The Calibration Certificate Number should be used as the unique identifier to detect duplicate records.

Result Retrieval and Handling Checks

The interface should also validate that:

- It is retrieving the appropriate result data from CMX.
- The results are successfully handled without errors during processing.

CMX Fields and SAP Fields Mapping

Maint enanc e Order Mess age Statu	RETURN	SAP Field N/A		Sample N/A
S Techn ical Objec ts – Funct ional Locati on or Equip ment		STR NO		Y11_F6_SC21111_IF0 00000000000000000000 33 Or 10000119_ IE000000000010000 119
Maint enanc e Objec		OBJ NR	MainObjInternalID	

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	al				
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	er				
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				Maintenance Order Operation	
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			KUR	NotifActivityCodeText	
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	CAC		OD		
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			MAT		
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	d		MNIO	pText	
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	(CMX-				
	(CONF				
	ſ	/				
	(0002				
8	3 /	As	Code0003_AsLe	FEN	MaintNotifActyTxt MaintNotifActivit	true (or false)
	ı	Left			yCodeGroup NotifActivityCodeGrou	
	ı	Passe		MNG	pText	
	(d			MaintNotificationActivityCode	
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		Catal		ZTEX -		
	(og:		T		
	ı	E&M-		MNC		
	(CAC		OD		
		MX /		MAT		
		CMX-		XT		
		CONF				
	ľ	,				
	(0003				
() I	N/A	A001_Function	N/A	N/A	(to be ignored, code
						is deactivated)
-	1 (Calibr	A002_Certificate	FEN	MaintNotifActyTxt MaintNotifActivit	LONZA-425895-CMX
		ation			yCodeGroup NotifActivityCodeGrou	
	(Certifi			pText	
	(catio				
	ı	n		IΛF	MaintNotificationActivityCode	
	I	Numb			NotifActivityCodeText	
	•	er		ZTEX		
				T		

Г		0				
		Catal		MNC		
		og:		OD		
		E&M-		MAT		
		CAC		XT		
		MX /				
		СМХ-				
		CONF				
		/				
		A002				
ı	1	N/A	B001_EventType	N/A	N/A	(to be ignored, code
	1					is deactivated)
						ŕ
					MaintNotifActyTxt MaintNotifActivit	2025-08-13T14:28:53
ľ					yCodeGroup NotifActivityCodeGrou	
		Date		MNG	pText	
		and			MaintNotificationActivityCode	
		Time			-	
					NotifActivityCodeText	
				ZTEX		
		Catal		T		
		og:		MNC		
		E&M-		OD		
		CAC		N 4 A T		
		MX /		MAT		
		СМХ-		XT		
		CONF				
		/				
		B002				
	1	Calibr	B003_Calibrated	FEN	MaintNotifActyTxt MaintNotifActivit	(to be ignored, code
	3	ated	By_UserID	UM	yCodeGroup NotifActivityCodeGrou	is deactivated)
		Ву		. 4 . 1 . 0	pText	
		User				Only use the value
		ID		RP	, , , , , , , , , , , , , , , , , , , ,	ci12789 for time
				KUR	NotifActivityCodeText	confirmation
				ZTEX		
				Т		

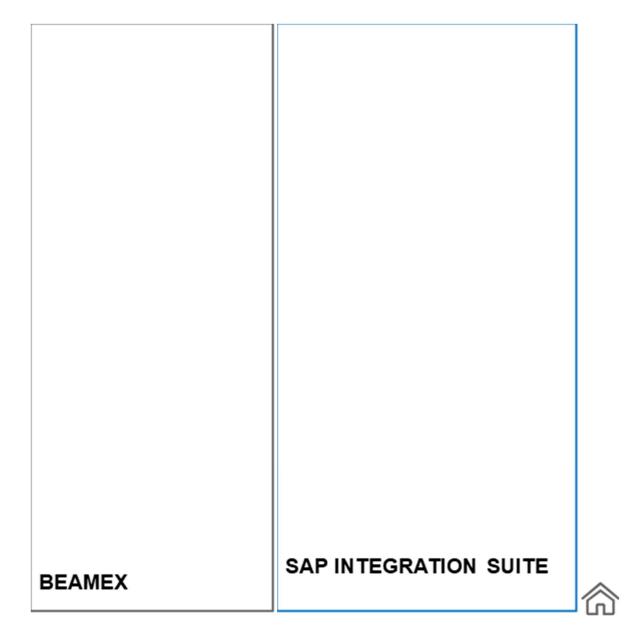
				NANIO		
				MNC OD		
				OD		
				MAT		
				XT		
					MaintNotifActyTxt MaintNotifActivit	_
4			n_Incomplete	UM	yCodeGroup NotifActivityCodeGrou	is deactivated)
		nco		MNG	pText	
		nplet			MaintNotificationActivityCode	
	E	Э		KLID	NotifA ativity On deTech	
	(Catal			NotifActivityCodeText	
	c	og:		ZTEX T		
				I		
				MNC		
				OD		
				MAT		
				XT		
	1	Мах	B005_MaxError	FEN	MaintNotifActyTxt MaintNotifActivit	(to be ignored, code
	E	Error			yCodeGroup NotifActivityCodeGrou	is deactivated)
				MNG	pText	
					MaintNotificationActivityCode	
					-	
					NotifActivityCodeText	
				ZTEX		
				Т		
				MNC		
				OD		
				МАТ		
				MAT XT		
				^ 1		

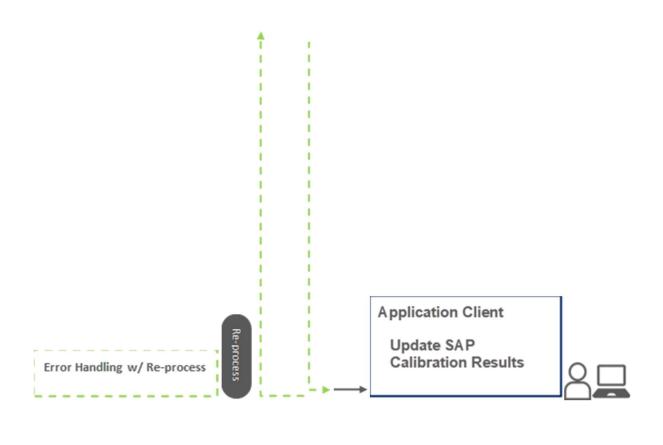
1	Worki	B006_WorkingH	FEN	MaintNotifActyTxt MaintNotifActivit	(to be ignored, code
5	ng	ours	UM	yCodeGroup NotifActivityCodeGrou	is deactivated)
	Hours		MNG	pText	
				MaintNotificationActivityCode	
			IVE	MaintivotificationActivityCode	Only use the value
			KUR	NotifActivityCodeText	ci12789 for time
			ZTEX		confirmation
			Т		
			MNC		
			OD		
			MAT		
			XT		
1	Discr	B007 Discrepan	FFN	MaintNotifActyTxt MaintNotifActivit	TW1415024
		cyNumber		yCodeGroup NotifActivityCodeGrou	
	су	_ ·		pText	
	Numb				
	er		RP	MaintNotificationActivityCode	
			KUR	NotifActivityCodeText	
			ZTEX		
	Catal		Т		
	og:		MNC		
	E&M-		OD		
	CAC				
	MX /		MAT		
	CMX-		XT		
	CONF				
	/				
	B007				
1	Single	B008 Singlelise	FFN	MaintNotifActyTxt MaintNotifActivit	(to be ignored, code
		Standard_ref		yCodeGroup NotifActivityCodeGrou	, ,
	Stand			pText	
	ard				
			RP	MaintNotificationActivityCode	

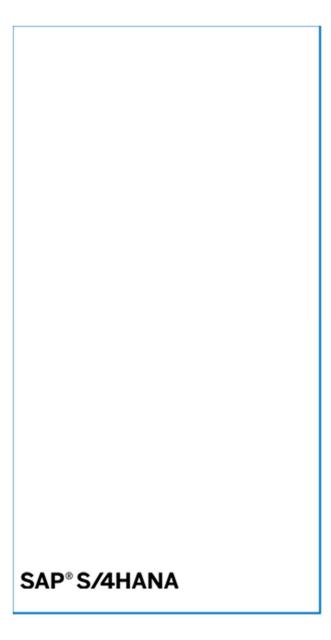
		efer		KUR ZTEX T MNC OD MAT XT		
ш	St ar Ex tic	ser tand d xpira	Standard_ExpDa te	UM MNG RP	MaintNotifActyTxt MaintNotifActivit yCodeGroup NotifActivityCodeGrou pText MaintNotificationActivityCode NotifActivityCodeText	,
ı	es 2 ⁿ	st nd ppro	ndApproval	UM MNG RP	MaintNotifActyTxt MaintNotifActivit yCodeGroup NotifActivityCodeGrou pText MaintNotificationActivityCode NotifActivityCodeText	_

MAT	
XT	

2. Flow Diagram







End User

BAPI call to update the User Status of Maintenance Order, Maintenance Notification and Technical Object based on Calibration Results sent by CMX.

Standard API containing the calibration results and status set:

- System Status - Time Confirmation

- cal_passed found_pass left_pass cal_cert_num cal_date_time
- discr_num

Integration iFlow for

1. CMX Calibration Results
including Maintenance Order
Time Confirmation

2. Get Result and Result Handled Checks

CMX

Web Services

Integration iFlow

1. Set Status of SAP Objects

2. Result Exists Checks

On-premise system

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. Test Case 1

Scenario: A completed maintenance order from CMX containing a single calibration record with Calibration Passed = TRUE (i.e., only one calibration certificate), and time posted.

Expected Result:

- The interface will create a single record in the Maintenance Notification Activity (with multiple activity codes).
- A Maintenance Order Time Confirmation will be posted.
- The User and System Status will be updated accordingly.

4.3.2. Test Case 2

Scenario: A completed maintenance order from CMX containing two calibration records (i.e., two calibration certificates), each of them with indication of the time worked.

Expected Result:

The interface will create two records in the Maintenance Notification Activity.

- Two Maintenance Order Time Confirmations will be posted.
- The User and System Status will be updated accordingly.

Note: In certain scenarios, CMX may send more than one or two calibration records. The interface must be capable of processing and posting all received records accordingly.

4.3.3. Test Case 3

Scenario: A completed maintenance order from CMX where the calibration records already exist in SAP (i.e., duplicate calibration certificate records).

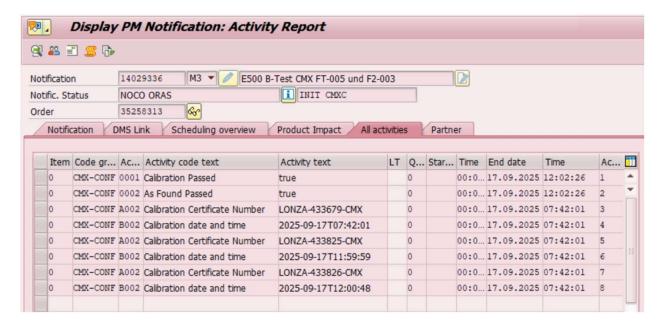
Expected Result:

The interface will not create duplicate.

4.3.4. Test Case 4

Scenario: A completed maintenance order from CMX containing a single calibration record, but lacking required values in the result set. (Note: 0001, 0002, A002, B002 are mandatory.)

For Example:



Code group	Activity code	Activity code Text	Activity Text
CMX-CONF	00 <u>0</u> 1	Calibration Passed	TRUE
CMX-CONF	00 <u>0</u> 2	As Found Passed	FALSE
CMX-CONF	00 <u>0</u> 3	As Left Passed	TRUE
		Calibration Certificate	
CMX-CONF	A002	Number	LONZA-434852-CMX
CMX-CONF	B002	Calibration date and time	2025-09-22T04:24:31
CMX-CONF	B007	Discrepancy number	TW1415024

Expected Result:

- The interface will not create any record in the Maintenance Notification Activity.
- No Maintenance Order Time Confirmation will be posted.
- No changes will be made to the User or System Status.

4.3.5. Test Case 5

Scenario: A completed maintenance order from CMX containing two calibration records, where one record is missing required values (refer to Test Case 4 for reference). (Note: Confirm with Lonza which fields must always be present.)

Expected Result:

- The interface will not create any records in the Maintenance Notification Activity.
- No Maintenance Order Time Confirmation will be posted.
- No changes will be made to the User or System Status.

4.3.6. Test Case 6

Scenario: A completed maintenance order from CMX containing a single calibration record with Calibration Passed = TRUE, like Test Case 1. However, the maintenance order is being opened by a user at the time the interface attempts to post the result.

Expected Result:

- During actual testing, verify whether the data is still posted successfully, or if an error occurs in iSuite.
- If an error occurs, it should be captured and managed through the error handling process.

4.3.7. Test Case 7

Scenario: A completed maintenance order from CMX with valid calibration data, but the maintenance notification is being opened by a user at the time the interface attempts to post the result.

Expected Result:

- During actual testing, verify whether the data is still posted successfully, or if an error occurs in iSuite.
- If an error occurs, it should be captured and managed through the error handling process.

4.3.8. Test Case 8

Scenario: A completed maintenance order from CMX with valid calibration data, but the technical object (e.g., equipment or functional location) is being opened by a user at the time the interface attempts to post the result.

Expected Result:

- During actual testing, verify whether the data is still posted successfully, or if an error occurs in iSuite.
- If an error occurs, it should be captured and managed through the error handling process.

4.3.9. Test Case 9

Scenario: A completed maintenance order from CMX containing a single calibration record with Calibration Passed = FALSE (i.e., only one calibration certificate), and time posted.

Expected Result:

- The interface will create a single record in the Maintenance Notification Activity (with multiple activity codes).
- A Maintenance Order Time Confirmation will be posted.
- The User and System Status will be updated accordingly.

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, ...) >>>

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

	Mention the start condition for the workflow, e.g. on creation of a purchase document, batch program etc.
	Example – The workflow should start only for certain document type, workflow should start only if credit amount is greater than 250000 etc.
	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	
	Role - Security Role
	Org Unit - HR Org Structure
	Custom Table - Agents in custom table
Agent	Distribution Lists
Determination	Unspecified - To be decided in Functional Specification
Technique	Other <use "other"="" a="" elaborate="" of="" on="" selection="" to=""></use>
	If the agent determination technique is different for each foreground step then please repeat this section.
Mention Logic for Agent Determination (if any)	
Notification	Internal User (Mail Inbox)
Destination	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	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, ...) >>>

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

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 >>>

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 Type	Format	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 >>>

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 f other, please specify exactly									
	Hourly Details:									
Interface	Daily Details:									
Frequency	Weekly Details: Monthly Details:									

	lo	D + 1
	Quarterly	Details:
	Yearly Detail	s:
	On-Demand	Details:
	Other	Details:
Type of Records	Delta Fields	Delta full-record other
Sent	If other, pleas	se specify exactly
	Average Volu	me:
Volume		
(per single	volume/red	cords per interface execution
	Peak Volume	
execution)		
	Lower Volur	ne – 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. >>>

Sourc	Sour	Descrip	Da	Leng	Transform	Target	Targ	Descrip	Da	Leng	Ма	Comments/R
е	се	tion	ta	th	ation	Struct	et	tion	ta	th	nd	emarks
Struct	Fiel		Тур			ure	Fiel		Тур		/	
ure	d		е				d		е		Opt	
											•	

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 releva

5. Conversion

1. Technical Reference

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

N/A

Obje	ect 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. >>>

Sourc	Sour	Descrip	Da	Leng	Transform	Target	Targ	Descrip	Da	Leng	Ма	Comments/R
е	се	tion	ta	th	ation	Struct	et	tion	ta	th	nd	emarks
Struct	Fiel		Тур			ure	Fiel		Тур		/	
ure	d		е				d		е		Opt	
											•	

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

Property	Value/Object
Transaction	

Main Program	
Includes	
Form Routines	

4. CDS Views Extension

1. Technical Reference

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

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

Field Name	•	Element	Type (CHAR, NUMC)	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 detail required and flow dia with the table name a	ngram can be inclu	ded and pro	ovide t	the selection s	scree	en shot along
N/A						
13. Requirement	routine					
N/A						
Menu/Submenu						
Routine number						
Business logic						
required						
14. Substitution N/A						
	•	Point of		Table used in		Business Rules
Description	for validation	Validation		validation		
		<u>I</u>				
Substituted Field						
	Derived from Fiel			used in titution	Bus	iness Rules
	Derived from Fie				Bus	iness Rules
	Derived from Fie				Bus	iness Rules
	Derived from Fie				Bus	iness Rules

1	5.	F	low	l٥	gic
	•			··	5 I U

<< 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 >>>



3. Layout Windows

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 Description	Functionality	Print on page	Font Format	Window

5. Standard Texts / Text Modules

N/A

Reference		Label Position	•	Font Format

6. Translation

N/A

use (in	use (in	use (in	Text Module Name	Notes

7. Layout Details

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 >>>

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 app="" appfree="" elements="" style="" ui5="">>></fiori>				
Application Type	<< <list ,="" ,etc="" object="" over="" page="" report,="" view="">>></list>				
UI Enhancements	□ Custom Fields Added □ UI Layout Modified □ Extensibility Hook Used □ Fragments or Views Introduced				

2. Technical Reference

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

r	lo	Business	Name	Name	Name of	Name of	Authorization	Parameter
		Catalog	of	of Page	Section	App/Tile(L5)	Parameter	Value
			Space	(L3)	(L4)			
			(L2)					
L								

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. >>>

Table Nam	ie								
Short text									
Size categ	ory								
Table mair allowed	ntenance								
Maintenar		Manual / A	Automa	itic Main	tenance (a	applicat	ion table)		
		Transport	able Ma	aintenan	ce (custor	nizing t	able)		
Data class	3								
Buffering									
Table mair generatior									
Authorizat	ion Group								
Change Lo (Y/N)	g Enabled								
(mandatory related tab									
SPRO Path	1								
(mandatory for customizing tables)									
	Data Element	Domain	Туре			Key Field	Foreign Key	Description	

Comment	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	Error Message Text (70 characters)	Error Conditions
Number		
01S		
02S		
03S		
041		
05C	Maintenance Order 000060000150. Records already exist. Please report to CMX.	Interface has not created a record due to identified records already existed.

06C	Maintenance Order 000060000150.Relevant	One or more of the
	calibration result/s value contains no value.	relevant results for
	Please report to CMX.	calibration data
		contains no value.
07C		

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