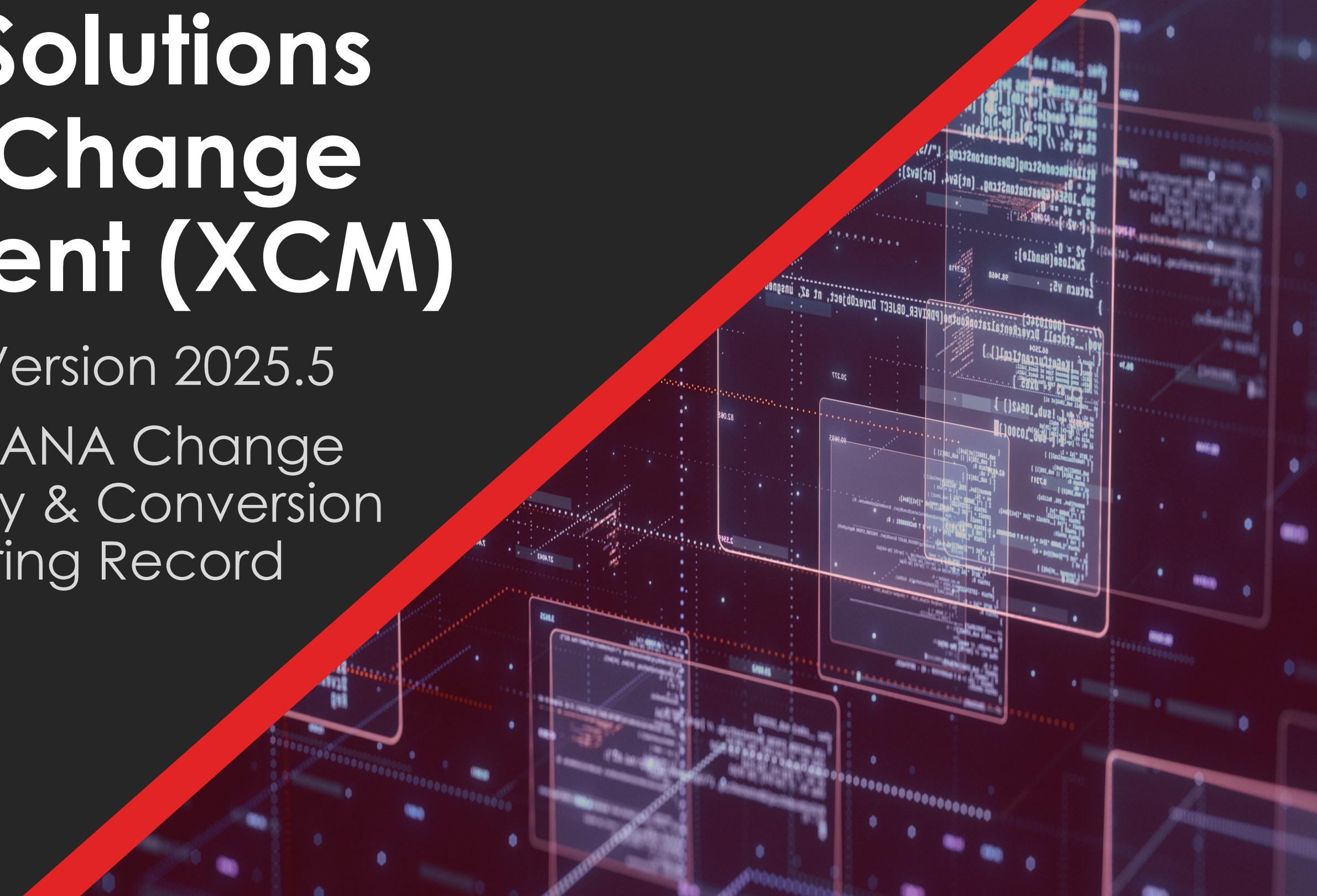


sophisTex Solutions eXtended Change Management (XCM)

Solution Overview Version 2025.5

eXtended SAP S/4HANA Change
Record Functionality & Conversion
from PLM7 Engineering Record





Expertise

- (E)PPM
- PLM
- PDMI/Integration
- Workflows, BTP
- SAP ERP & S/4HANA
- ABAP and Fiori



Team

- 40 employees
- 30+ full-stack developers



Focus Areas

- SAP PLM & PPM
- Add-on solutions & integrations
- Full-stack development
- SAP S/4HANA Transformations



Our Work

- 50% Solution & Maintenance
- 50% Customer Projects & Enablement

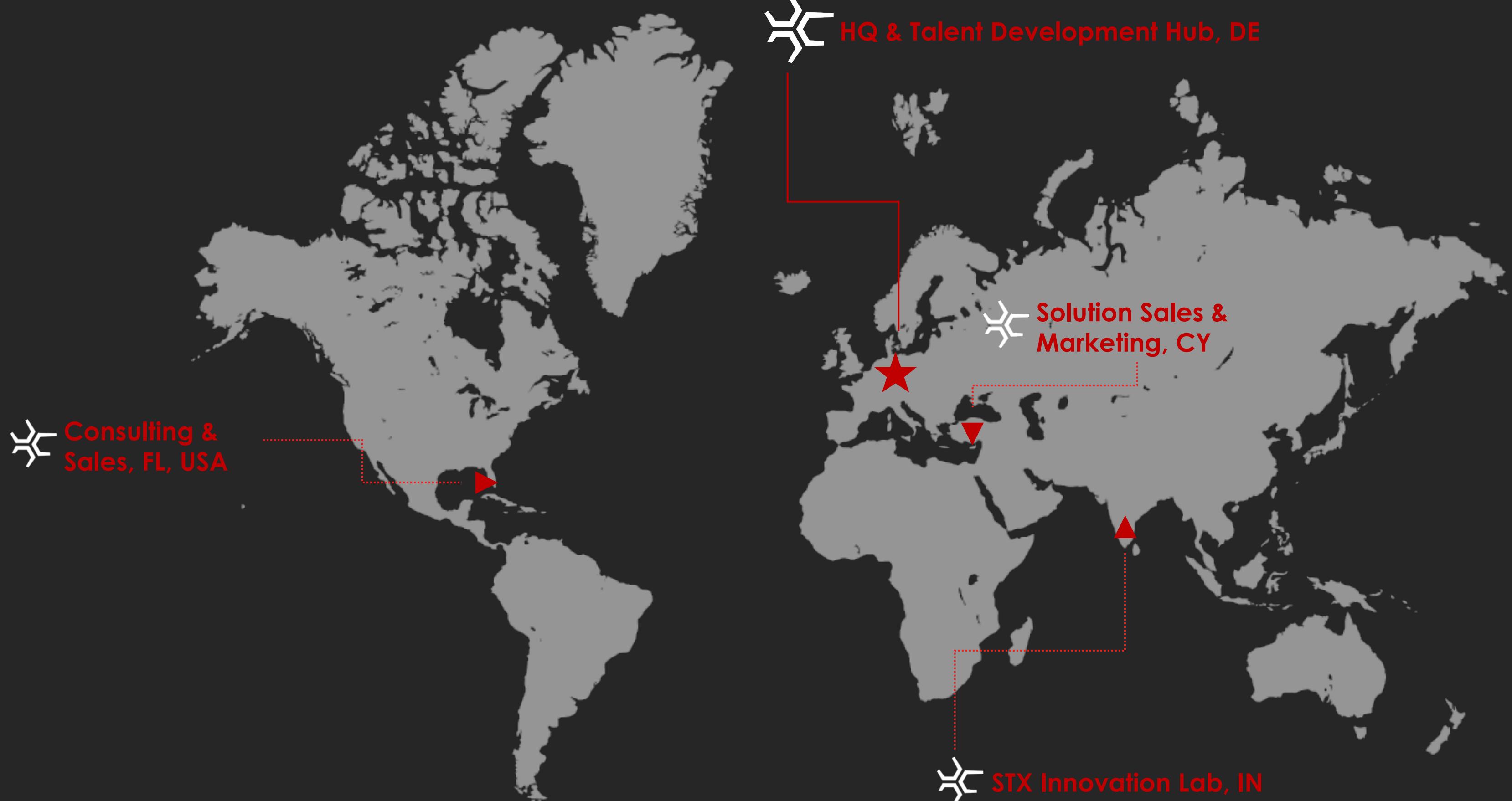
SAP Certified

Integration with RISE with SAP S/4HANA Cloud



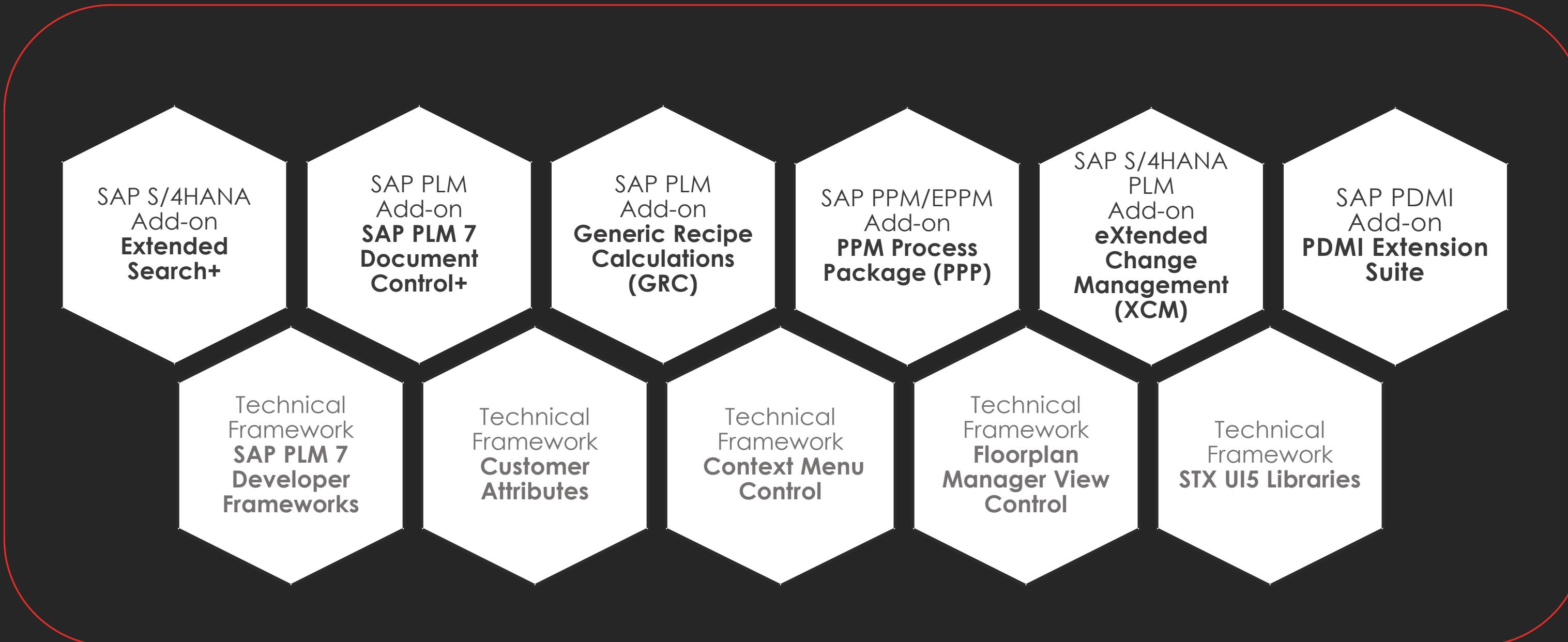


sophisTex | Locations

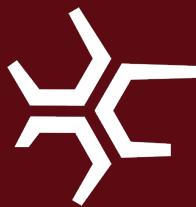




STX Add-on solutions



STX Technical Concepts



sophisTex eXtended Change Management (XCM)

A powerful add-on
to extend the
Change Record of
SAP S/4HANA
following the
Clean Core
principle

XCM | Solution Overview



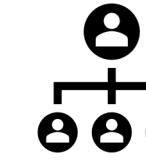
Advanced Process Route

An extended process control framework simplifies your processes



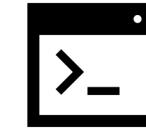
Process Builder

Simulates the end-to-end process before it gets started and allows you to add tasks and agents



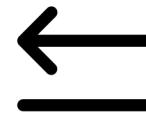
Agent Determination

Allows determination by parameter value and business org. hierarchy



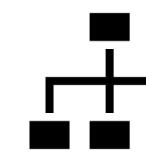
Dynamic Field Control

Handles field and button properties by various header fields



Migration Cockpit

Offers transformation of ER data to CR data



Transform ACM Hierarchy

Migrates ACM hierarchy to T&R



S/4HANA CR & MDG-M Integration

Integration of CR with MDG-M to streamline the Material Creation / Change process

PLM CR with Custom Field using Key User Extension

Key User

Create Custom Field

Adapt UI

Design your screen fields

Business Parameters

- Division: Research & Development (01)
- Region: Asia / Pacific (AS)
- Lead Plant: sophisTex Heidelberg (0001)

Affected Plant: Bavaria (0003)

Affected Plant 2: -

Customer Data

- Customer: Mercedes Benz (1001)

Part Number: apple cider (11)

Last Changed By: [redacted]

Created On: [redacted]

Created By: [redacted]

Changed On: [redacted]

Created By: [redacted]

Last Changed By: [redacted]

SAP Change Record

XCM demo presentation

800000042

Record Type: Extended Change Management (XCM)

Change Number: [redacted]

Change Number Status: -

Priority: Medium (3)

Expected Completion Date: -

Authorization Group: -

Change Number Reason for Change: -

Reason for Change: Standard (STD)

Effectivity Type: -

Record Status: Initiate CR (10)

Change Execution Status: New (60)

Change Responsible: 4

Total Objects: 10

Material: 2

Specification: 3

Document: 2

Recipe: 3

General Information Descriptions Progress Items Reference Objects Classifications Attachments Hierarchy Log Process Routes Comments Change Documents Process Builder

Administrative Data

Custom fields are added to the CR Header



Process Route: Solution

Set up the Standard Process Route Customizing

Define all possible Process Tasks with Business Parameter

Define the Tasks per status based on CR Header context

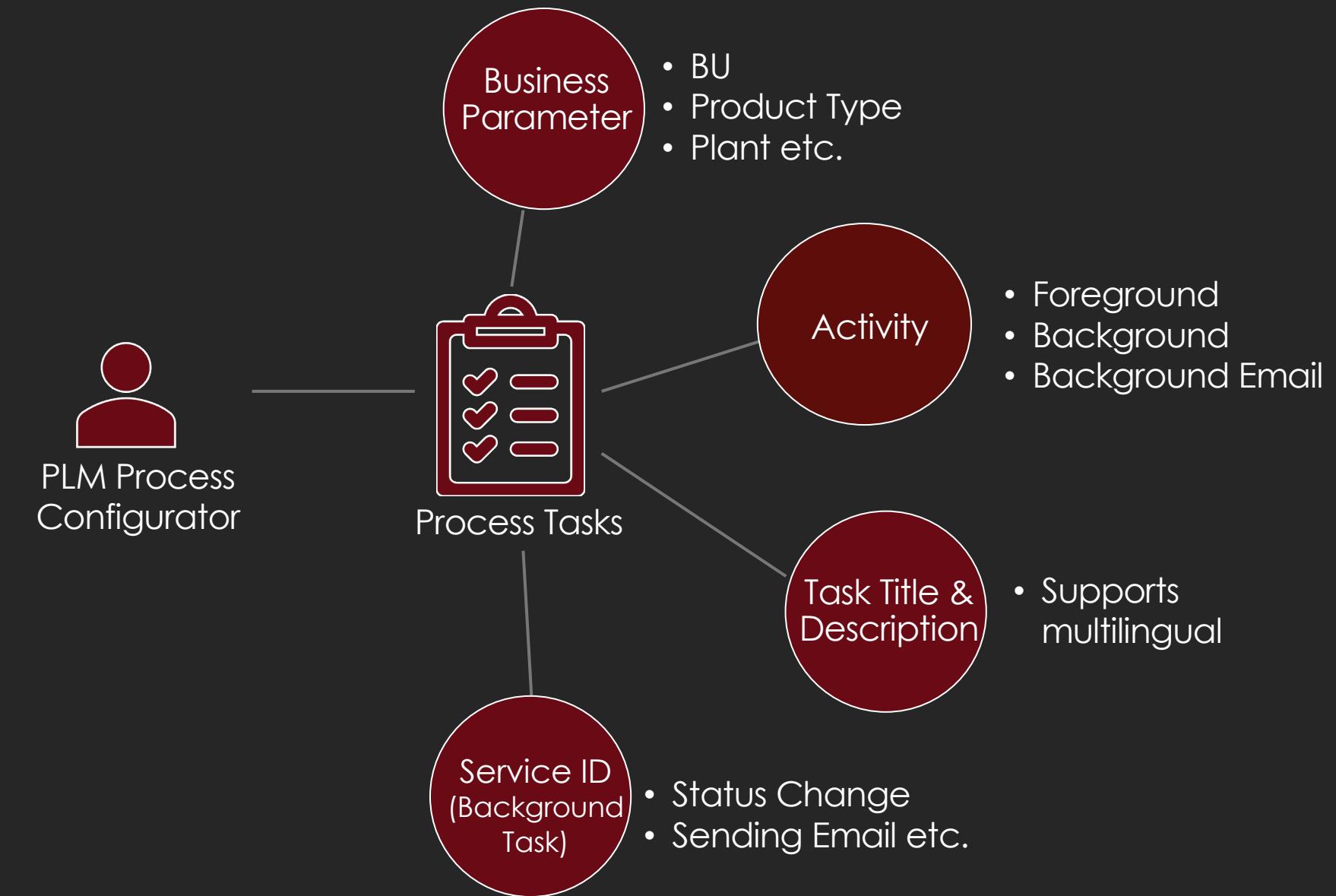
Define the Status determination rule as per CR Header context and Task decision

Activate the XCM Global Process Route Template



Process Route: Define Process Tasks

- XCM enhances the functionality of the Process Route Item's "Activity" by introducing a new semantic element called "Task ID." This element can include a Task Subject and Task Description, both supporting multiple languages. Additionally, it offers the option to reference tasks using parameters.
- The PLM Process Configurator allows organizations to define all necessary Process Tasks tailored to their specific Change Management requirements.



Task ID	Task Subject	Task Desc	Activity	Service ID	Parameter name	Is Email Task?
MASTER_C	Material deregistration	Material deregistration			PLANT	
REWORK	Review and Complete	Review and Complete				
STATUS_CHG	Change CR Status	Change CR Status	S_CR_STC	STATUS_CHANGE		



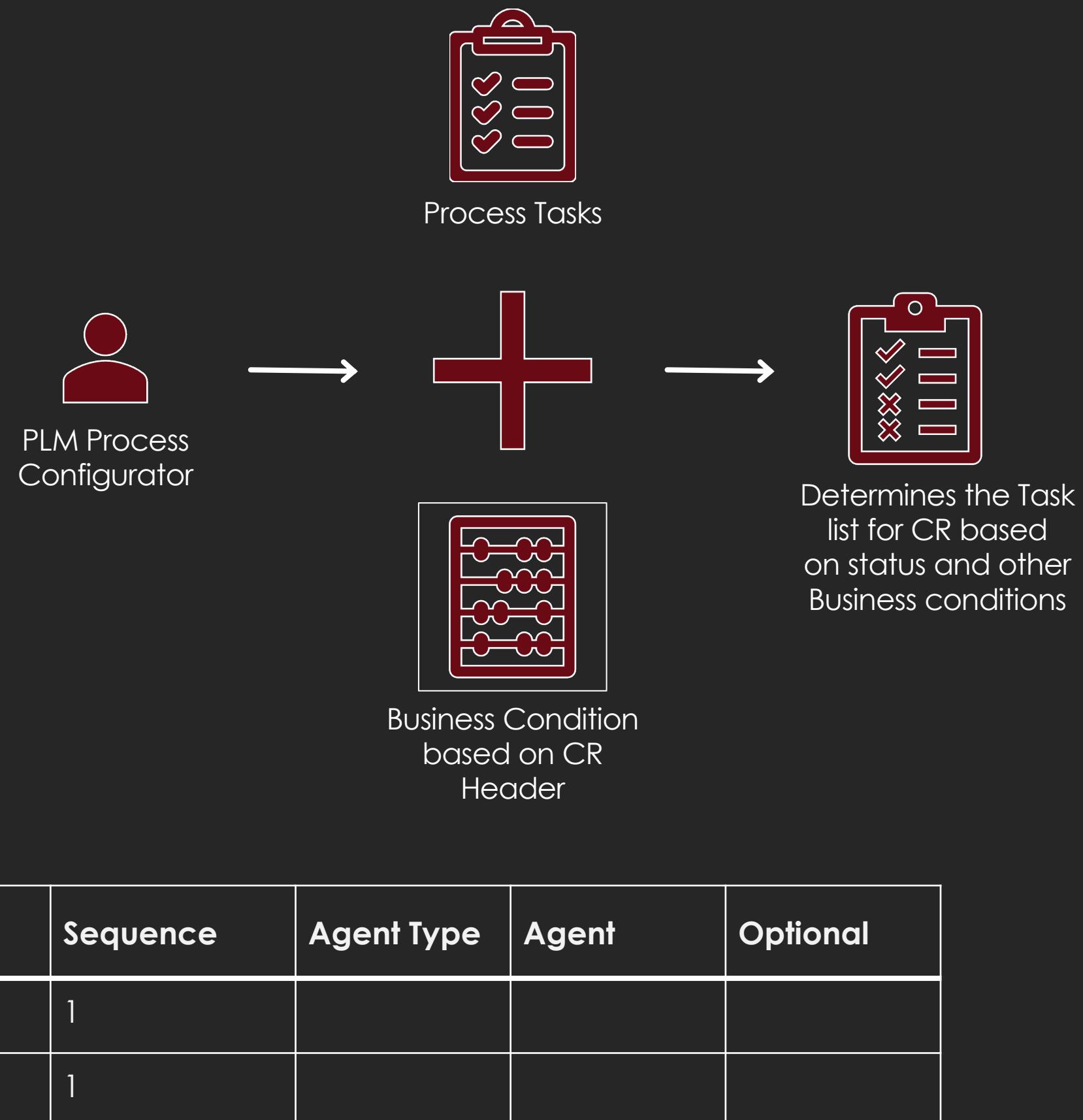
Process Route: Configure Process Tasks per status

The **PLM Process Configurator** defines the list of tasks for each status using BRF+ rules.

- Tasks are configurable per status, based on the context of the Change Record Header.
- Task sequencing can be specified, with options to execute tasks sequentially or in parallel.
- Each task includes a designated Agent Type and specific Agent.
- Tasks can be marked as optional to deactivate them for Change Records.

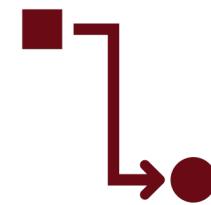
Advantages of the BRF+ Rule Approach over the Template Method:

- Simplifies simulation and validation of tasks determined by status and business criteria.
- Keeps templates streamlined by eliminating the need to create multiple templates for different business scenarios.
- Empowers the Business Team, such as Admins or Key Users, to configure tasks directly in production, reducing reliance on IT resources.



CR Type	Status	Decision	BU	Plant	Task	Sequence	Agent Type	Agent	Optional
S01	10		BU01	0110	MASTER_C	1			
S01	11				REWORK	1			

Process Route | Solution in Detail



Generic Process Route Template is created which is linked to all status of the CR

- ❖ Sequential – Background task for task creation
- ❖ Sequential – Background task for next status



Background task for task creation

- ❖ Generic implementation reads XCM BRF+ Rules for “Tasks per status”
- ❖ Creates tasks required for the status based on results of the BRF+ Rules by passing all the relevant header fields
- ❖ Business parameters are available in CR Header, reading parameters is achieved in the service function by passing data to the process route



Agent Determination

- ❖ Task parameters defined for a task are used to identify agents from Teams and Responsibility Management (T&R) by navigating through the Teams hierarchy



Process Route | PLM CR Process Route with XCM

- Process tasks for the current CR status are automatically determined based on predefined rules maintained in BRF+
- Statuses of CR headers and change items (such as BOM, Material, and Document) are updated via the process route, following BRF+ rules to enhance efficiency and maintain consistency
- Graphical view is available for visualizing the workflow log
- Agents for the workflow tasks are automatically determined based on CR header values by traversing the Teams hierarchy and Responsibility definitions

SAP Change Record

XCM demo presentation
800000042

General Information Descriptions Progress Items References Classifications Attachments Hierarchy Log **Process Routes** Comments Change Documents Process Builder

Process Routes

All changes made to the process route are saved automatically.

Process Tasks	Task Subject	Note	Status	Latest End Date	Prog. Time (Days)	Priority	Task Responsibility	Approved User	Decision	Record Status
Header	System (Background)	BG Service Function for CR Task Creation	Completed			Very high				
	Change Coordinator	Submit and Initiate the Change Approval process	View	Completed						
	System (Background)	BG Service Function for CR Status Change		Completed		Very high				
	System (Background)	BG Service Function for CR Task Creation		Completed		Very high				
Parallel Steps		Validate and Design Proposal for this Change	Change							
	Development Manager	Review the Design Proposal Changes.								
	Design Engineer	Review the Design Proposal Changes.	Change							
	Development Manager	BG Service Function for CR Status Change	Change							
	System (Background)		Create			Very high				

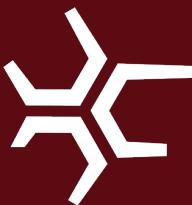
SAP Change Record

Test the migration data
30001616

Process Routes

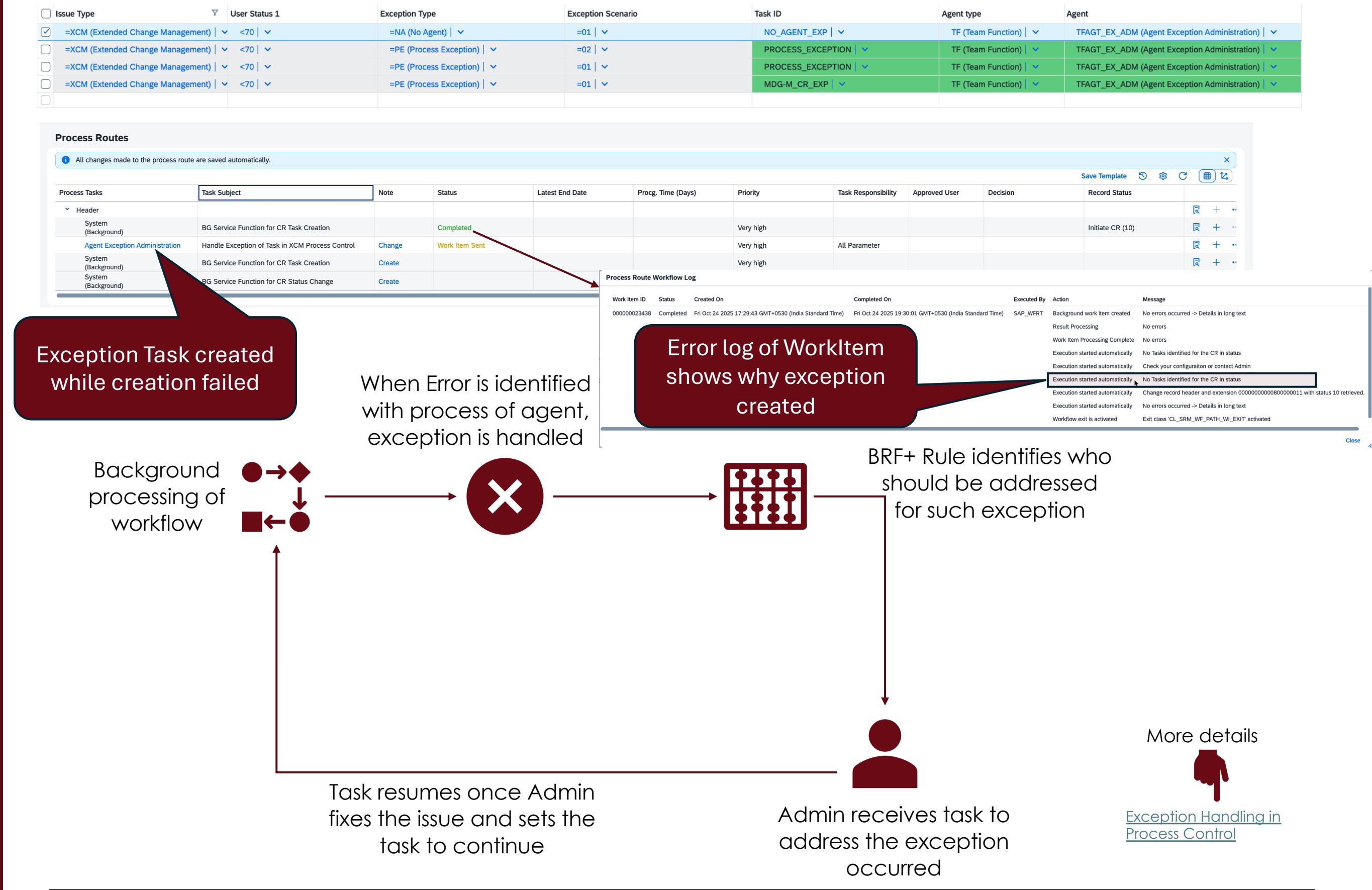
All changes made to the process route are saved automatically.

Activity Type	Activity Description	Workitem ID	Workitem Status	Decision	Decision Comment	Completed By	ER Status	Workitem Created on	Workitem Completed on
Dialog	Engineering Record Dialog	7009	✓	Approved		Deepthi Jayanth	Change Inquiry (Initial) (ST - 10)	2025-12-01	2025-12-05
Background	ER Background Service Function	7014	✓			System	Change Inquiry (Initial) (ST - 10)	2025-12-01	2025-12-05
Dialog	Engineering Record Dialog	7019	✓	Approved		Deepthi Jayanth	Change Request in Process (ST - 20)	2025-12-05	2025-12-05
Background	ER Background Service Function	7024	✓			System	Change Request in Process (ST - 20)	2025-12-05	2025-12-05
Dialog	Engineering Record Dialog	7031	✓	Approved		Deepthi Jayanth	Change Request Approved (ST - 30)	2025-12-05	2025-12-05
Dialog	Engineering Record Dialog	7032	✓	Approved		Deepthi Jayanth	Change Request Approved (ST - 30)	2025-12-05	2025-12-05
Background	ER Background Service Function	7033	✓				Change Request Approved (ST - 30)	2025-12-05	



Process Exception Handling

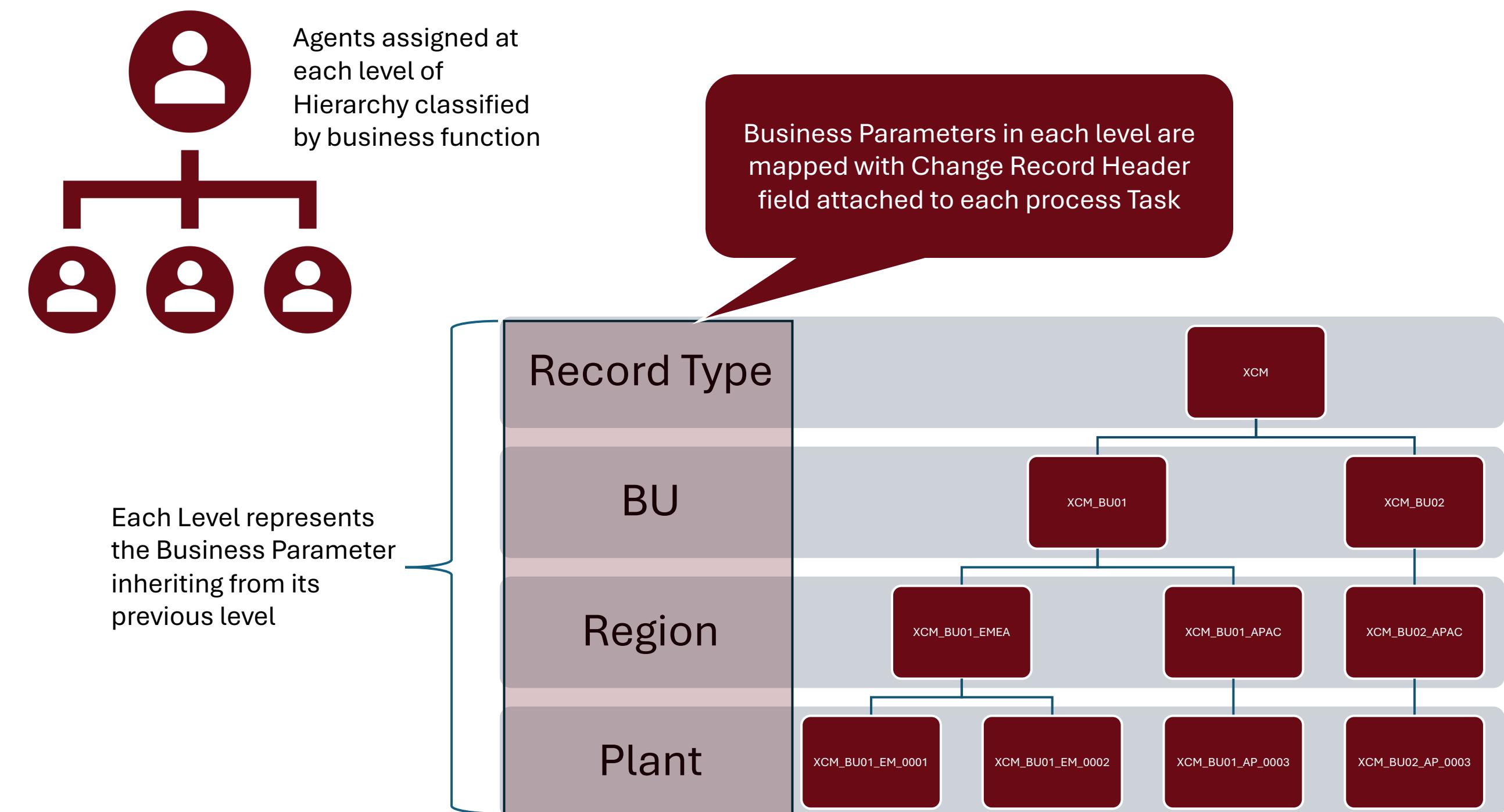
- Process exception and Agent Exceptions are captured during background processing
- In case of missing customizing or error in data, process exception is handled and task created to Admin to fix this issue
- In case of missing Agent, Agent exception is handled and task created to Admin to fix this issue
- Once Admin fixes and resumes the task, the background task which ended in exception is resumed again and completed

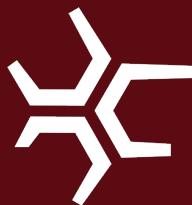




- ⌘ XCM Prefers to use the Standard Teams and Responsibility for Defining Agents in Org Hierarchy
- ⌘ Business Parameter is extended to Teams with its Responsibility Definition feature
- ⌘ Agent Determination is extended by XCM to identify the leaf of the hierarchy based on Business Parameter Hierarchy
- ⌘ Supports the user to understand from which Teams the agent was identified

Extension on Teams and Responsibility





- ❖ Sample Hierarchy with Agent assigned against the right function
- ❖ Agent is determined based on most matching parameter
- ❖ Identifies leaf of each hierarchy level to fetch the right agent

Teams Hierarchy – Agent Determination on Leaf Level

Record Type

ChangeRecordType=XCM	
Business Partner	Function
Sam	Admin



BU

ChangeRecordType = XCM BU = BU01	
Business Partner	Function
Bill	PM



ChangeRecordType = XCM BU = BU02	
Business Partner	Function
Jack	PM

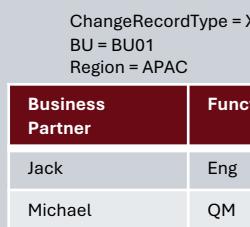


Region

ChangeRecordType = XCM BU = BU01 Region = EMEA	
Business Partner	Function
Tim	Eng
Cook	QM



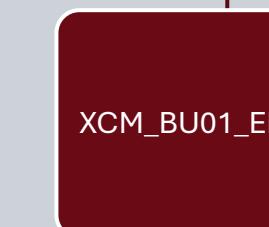
ChangeRecordType = XCM BU = BU01 Region = APAC	
Business Partner	Function
Jack	Eng
Michael	QM



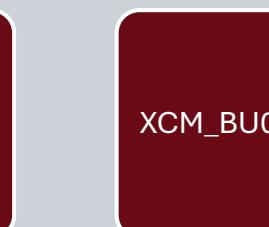
ChangeRecordType = XCM BU = BU02 Region = APAC	
Business Partner	Function
Sam	Eng
Henry	QM

Plant

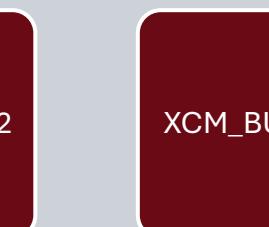
ChangeRecordType = XCM BU = BU01 Region = EMEA Plant = 0001	
Business Partner	Function
Ulla	BOM_Eng
Herald	Data_Resp



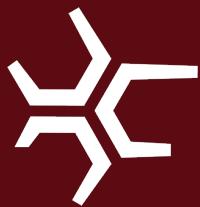
ChangeRecordType = XCM BU = BU01 Region = EMEA Plant = 0002	
Business Partner	Function
John	BOM_Eng
Peter	Data_Resp



ChangeRecordType = XCM BU = BU01 Region = APAC Plant = 0003	
Business Partner	Function
Mathew	Eng
George	QM



ChangeRecordType = XCM BU = BU02 Region = APAC Plant = 0003	
Business Partner	Function
Ram	Eng
George	QM



- Complex Team hierarchy can be created using Responsibility definitions within the standard Teams and Responsibility Management
- Teams can be maintained hierarchically by leveraging super and sub-teams with different responsibility parameter combinations
- This enables the determination of responsible agents for process tasks by matching CR header parameters with responsibility definitions in the Teams hierarchy
- Business Partners can be assigned to specific Functions

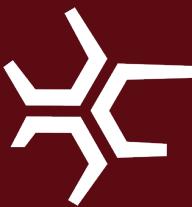
PLM CR Teams Hierarchy with XCM

The screenshot displays the SAP PLM interface for managing team hierarchies. On the left, the 'Manage Team Hierarchies' screen shows a hierarchical list of teams under a root node named 'S02_ROOT'. The hierarchy includes nodes like 'S02_ROOT_01', 'S02_ROOT_02', 'S02_ROOT_03', 'S02_ROOT_04', and various sub-nodes under them. On the right, a detailed view of a specific team, 'S02_03_EU_0004', is shown. This view includes tabs for 'General Information', 'Responsibility Definitions', 'Team Owners', and 'Team Members'. The 'Responsibility Definitions' tab is active, showing a table with columns 'Name' and 'Value'. It lists parameters such as 'ChangeRecordType' (Value: 'XCM(Extended Change Management) | S02(Prod. Eng. Change)'), 'Record Type' (Value: 'S02'), 'Z_BusinessUnit' (Value: 'S02'), 'Business Unit' (Value: 'S02'), 'Z_Plant' (Value: 'S02'), 'Plant' (Value: 'S02'), 'Z_Region' (Value: 'S02'), and 'Region' (Value: 'S02'). A callout bubble highlights the 'Inherited Responsibility from parent level of Hierarchy'.

More details



[Agent Determination Dynamically](#)



- Existing Org hierarchy or other agent hierarchy (like ACM) could be transformed and uploaded using the Fiori based Mass upload to Teams and Responsibility app
- Download the Template, either empty or with existing data, for reuse during upload
- Upload history can be reviewed at any time
- Data is uploaded asynchronously, creating and updating Teams, and log updated to Application log

Mass Upload of Teams and Responsibility

Created new Upload

History of Uploads available to review

Get Template

Upload the Excel File

Review the file uploaded

Uploaded data segregated by entity

Upload Status updated asynchronously

More details

Mass Creation & Update of Teams Hierarchy via Fiori App

User File

New: User File

Person Responsible: ARUNAS, Last Changed On: 04.12.2025, 16:32:05, File Status: File Not Selected

File Upload, Team Header Excel Data, Team Responsibility Excel Data, Team Member Excel Data

XCM_CR_DEMO_TEAMS_DATA_20251014100831.XLSX

Person Responsible: ARUNAS, Last Changed On: 14.10.2025, 12:11:41, File Status: File Uploaded

File Upload, Team Header Excel Data, Team Responsibility Excel Data, Team Member Excel Data

Team Header Excel Data

Creation Status	Line	Global ID	Team Name	Team Description	Team Type
✓	1	S02_ROOT	S02_ROOT	S02_Change_record_type	XCM_CR_DEMO
✓	2	S02_ROOT_01	S02_ROOT_01	S02_01	XCM_CR_DEMO
✓	3	S02_ROOT_02	S02_ROOT_02	S02_02	XCM_CR_DEMO
✓	4	S02_ROOT_03_04	S02_ROOT_03	S02_03	XCM_CR_DEMO
✓	5	S02_ROOT_04	S02_ROOT_04	S02_04	XCM_CR_DEMO
✓	6	S02_ROOT_01_AS_AF	S02_ROOT_01_AS_AF	S02_01_AF and AS	XCM_CR_DEMO



Process Builder

- * Process Builder is a XCM application designed to simulate end to end process at the start of the CR creation and when process relevant parameter(s) are changed
- * User can simulate and check the process tasks and ensure its consistency to deliver tasks to all the process responsible
- * Also simulates the agent determination with option to add or remove agents
- * Designed and developed to match the Process Route UI, keeping the design of Standard unchanged.

Simulate Tasks for CR

Simulates tasks for a CR by reading the configuration

Deactivation of Tasks

User has the option to deactivate optional tasks of configuration for a specific CR

Add Custom Tasks

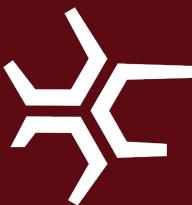
Adding of new tasks sequential or parallel possible by the user

Agent Determination

Simulates the agent determination based on all possible agent sources of Task

Modify Agents

Additional agents are possible to be added by the user for each specific task and remove existing agents



Process Builder

- ❖ Sample Simulation showed in diagram
- ❖ You can skip optional tasks by disabling the active task flag for specific CR
- ❖ Task Status shows “Green” if it can be delivered as Work Item, else shows “Red” with Error on mouse over
- ❖ Single Task by parameter in configuration is multiplied by rule based on the number of values in CR for this parameter.
- ❖ Task is differentiated as “Dialog”, “Background” or “Info Email” using icons in Process Tasks column

Tasks grouped by Status of CR

Parameter specific to task is displayed if task has Responsible

Task multiplied based on parameter with multi value

Task can be made inactive if optional in BRF+ rule

More details

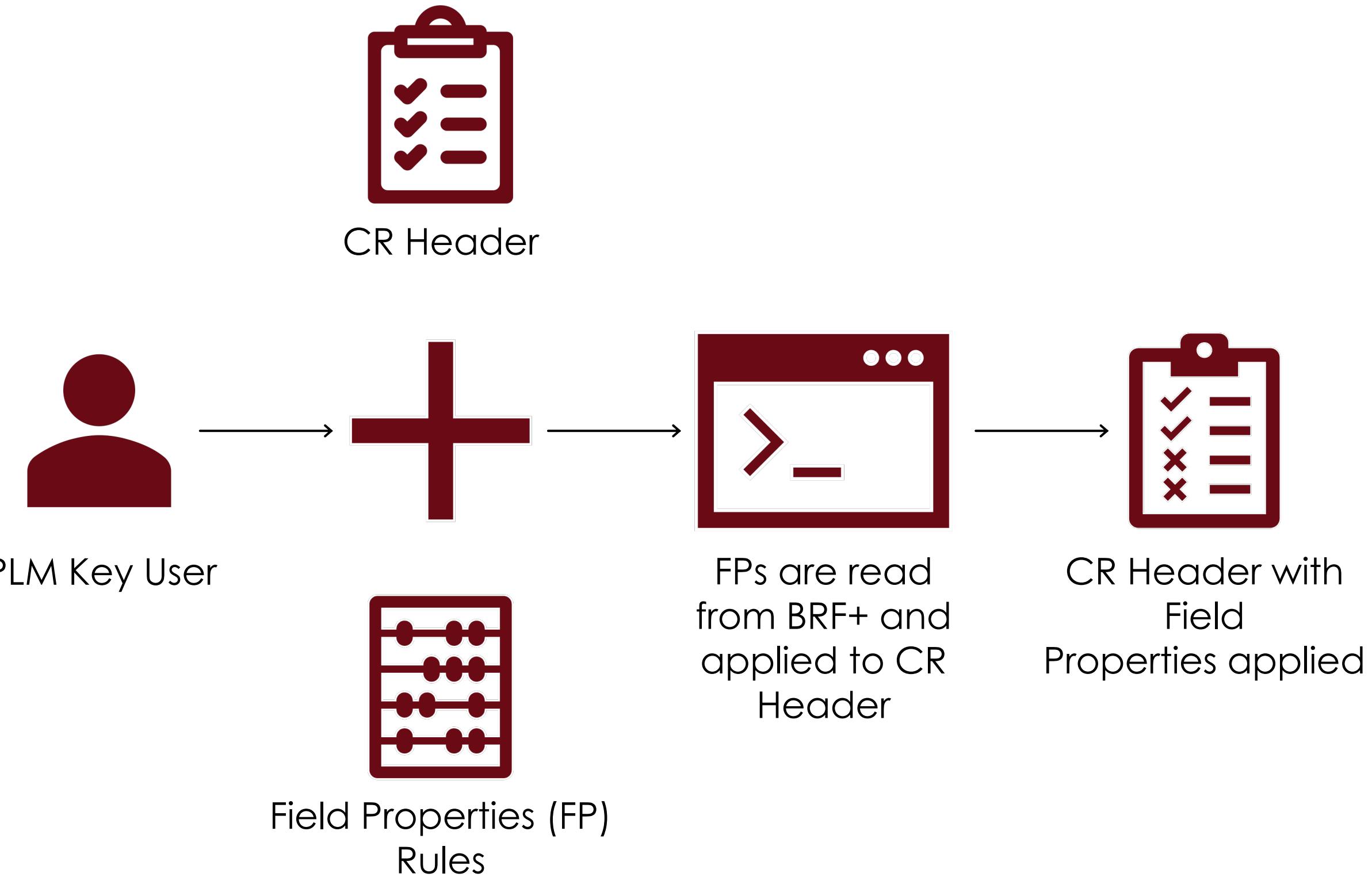
Process Builder

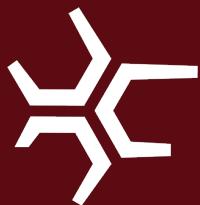
Process Tasks	Task Subject	Note	Task Responsibility	Due Days	Priority	Task Status	Active Task	Actions
Header								Edit + Add Edit Delete
Initiate CR (10)								Edit + Add Edit Delete
Change Coordinator	Submit and Initiate the Change Approval process	Change	Business Unit = Research & Development (01)	0 days		Green	<input checked="" type="checkbox"/>	Edit + Add Edit Delete
Re Work (11)								Edit + Add Edit Delete
Change Record Creator	Review the rejection reason and resubmit for approval	Change		0 days		Green	<input checked="" type="checkbox"/>	Edit + Add Edit Delete
Change Request in Review (20)								Edit + Add Edit Delete
Parallel Steps								Edit + Add Edit Delete
Development Manager	Validate and Design Proposal for this Change	Change	All Parameters	0 days		Green	<input checked="" type="checkbox"/>	Edit + Add Edit Delete
Design Engineer	Review the Design Proposal Changes.	Change	All Parameters	0 days		Green	<input checked="" type="checkbox"/>	Edit + Add Edit Delete
Development Manager	Review the Design Proposal Changes.	Change	All Parameters	0 days		Green	<input checked="" type="checkbox"/>	Edit + Add Edit Delete
in Design Changes (30)								Edit + Add Edit Delete
Parallel Steps								Edit + Add Edit Delete
Plant Manager	Review the Change Request and send for further approval	Change	Plant = sophisTex Heidelberg (0001)	0 days		Green	<input checked="" type="checkbox"/>	Edit + Add Edit Delete
Plant Manager	Review the Change Request and send for further approval	Change	Plant = sophisTex Bangalore (0002)	0 days		Green	<input checked="" type="checkbox"/>	Edit + Add Edit Delete
CR in Implementation (40)				0 days		Green	<input checked="" type="checkbox"/>	Edit + Add Edit Delete
S02_ROOT_01_AS_AF	Review Implementation Changes and Approve	Change						Edit + Add Edit Delete
Review Required (50)								Edit + Add Edit Delete
Parallel Steps								Edit + Add Edit Delete
Product Owner	Review and Approve Design and Implementation change	Change	All Parameters	0 days		Yellow	<input type="checkbox"/>	Edit + Add Edit Delete
QA Analyst	Validate the Implementation and Design changes	Change	All Parameters	0 days		Green	<input checked="" type="checkbox"/>	Edit + Add Edit Delete
Global Review and Close Change (60)								Edit + Add Edit Delete
Project Leader	Final Review of Change Request	Change	All Parameters	0 days		Green	<input checked="" type="checkbox"/>	Edit + Add Edit Delete



Dynamic Field Control

- Standard Dynamic field property feature is restricted to handling field control by Status and Record Type
- XCM Add-on enhanced this with code and BRF+ decision table, enabling the key users to maintain the rule without any code
- PLM key user defines field properties in the BRF+ decision table based on CR header attributes
- Conditional field properties are supported based on the CR header





PLM CR Dynamic Field Control with XCM

- CR header fields can be dynamically controlled through BRF+ rules
- As shown in the screenshot, both standard and custom fields are handled through XCM's dynamic field control
- In the example here, after the CR is created, Business Parameters become mandatory
- Mandatory, Editable, Read-Only and Visible and supported field property

Field control applied based on BRF+ Rule

More details

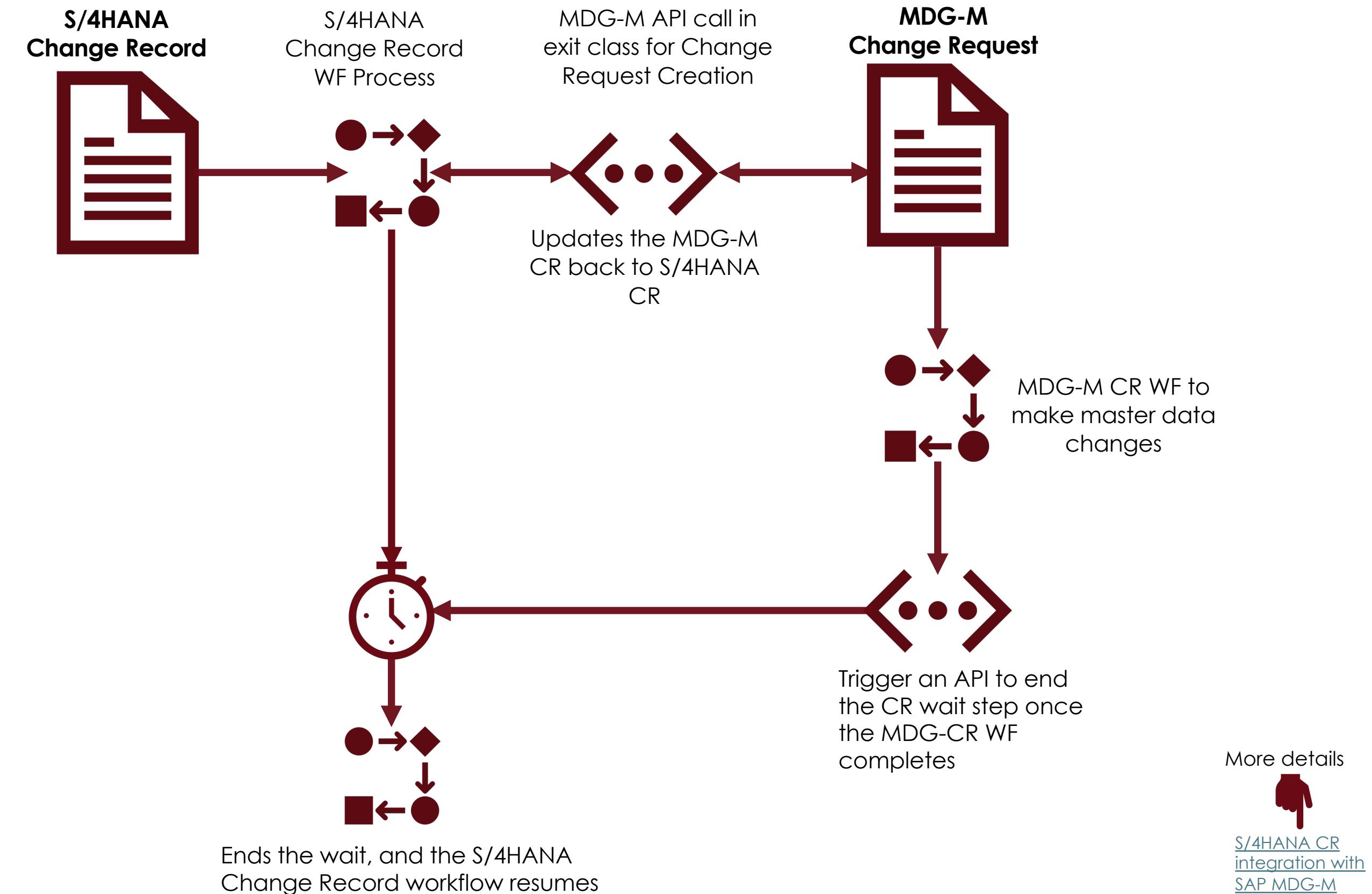
Dynamic Field Control

The screenshot shows the SAP Change Record (CR) interface for an 'XCM demo presentation' (ID: 800000042). The interface includes a header section with fields like Description, Record Type (set to 'Extended Change Management (XCM)'), Record Status (set to 'Initiate CR (10)'), and Change Responsible (set to '4'). Below the header is a 'General Information' section with fields for Change Number, Change Number Status, Priority (set to 'Medium (3)'), Authorization Group, Reason for Change (set to 'Standard (STD)'), and Effectivity Type. A callout bubble points to the 'Record Type' field with the text 'Field control applied based on BRF+ Rule'. The bottom of the interface shows sections for 'Business Parameters' and 'Customer Data', both of which are highlighted with a red box. A legend on the right indicates that blue represents 'Material', magenta represents 'Specification', yellow represents 'Document', and green represents 'Recipe'. A 'More details' callout points to the bottom right, and a 'Dynamic Field Control' link is located at the bottom right.



S/4HANA CR & MDG-M Integration

- MDG-M integration with S/4HANA CR is not in standard, its an out of the box feature delivered through XCM
- MDG-M integration is handled through the Process Route workflow, where XCM tasks can be configured in the desired Change Record status to trigger the MDG-M process
- After the MDG-M CR is created via API, the CR number is updated back to the Change Record, and a wait step is added to the Process Route
- On completion of the MDG-M CR Process, an API call ends the wait step and the CR process continues.





S/4HANA CR & MDG-M Integration

- ❖ Change Record Initiates the change process, and MDG-M governs Material Master - seamless integration ensures smooth end-to-end changes
- ❖ Ensures data accuracy through governance, validations, and controlled workflows
- ❖ Improves efficiency for faster and controlled material master changes
- ❖ Reduces risk with complete audit trails, compliance checks, and consistent data
- ❖ Robust retry logic and exception handling

S/4HANA CR Integration with MDG-M

30001624

General Information

Items Document Document

Document Document ... Document V... Document Status Relevance

Place holder has been added for new Material Create scenario

MDG-M CRs created for change relevance, "Create" and "Change" through API call

Materials (3) Material CR*

Image Material Type Material Base Unit Material Status Relevance Processing Status MDG Request Number

PLACE HOLDER Create Initial (00) 162501624

butter 58 Semifinished Product (HALB) Kilogram (KG) Reference Initial (00)

egg 59 Semifinished Product (HALB) Kilogram (KG) Change Initial (00) 162701625

Process Routes

Wait step is created and once the MDG-M process is completed, an API call automatically completes this wait step and CR WF resumes

Save Template

Decision Record Status

Header

System (Background) XCM Service Function - CR Task Creation Completed

Change Record Responsible (CR Responsible) Review and submit the Change Record for Approval View Completed

Parallel Steps

Reg. Lifecycle Management (Team Function) Review and Approve the Design Changes View Completed

System (Background) Send Info Email View Completed

System (Background) XCM Service Function - CR Status Change Completed

System (Background) XCM Service Function - CR Task C Completed

Parallel Steps

Development Manager (Team Function) Review and Approve the Design Changes View Completed

System (Background) BG Service Function for MDG-M Creation View Completed

MDG-M Admin User (Team Function) Approve this task on completion of MDG-M Process Change Work Item Sent

Parallel Steps

Change Responsible (Team Function) As a Reviewer Engineer, perform the Review Change All Parameter

Design Reviewer (Team Function) Review and Approve the Design Changes Change All Parameter

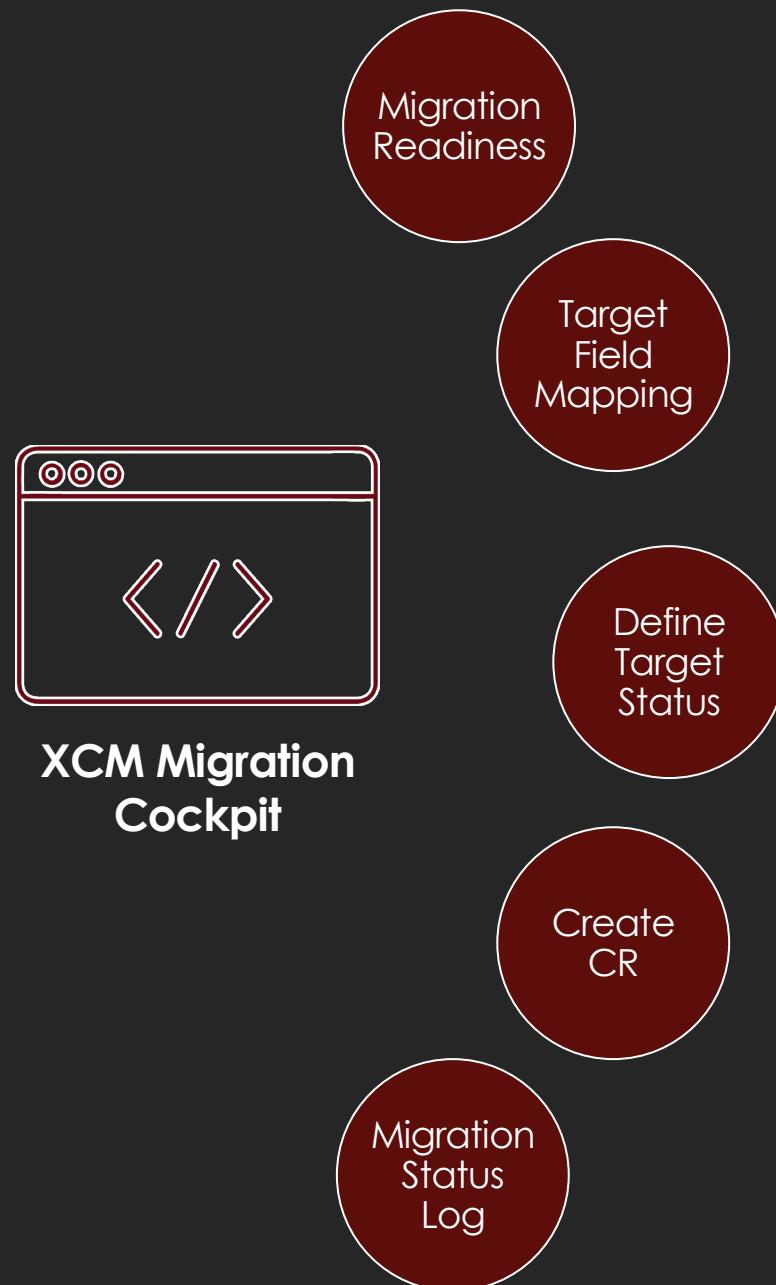
System (Background) XCM Service Function - CR Status Change Create Very high

More details

S/4HANA CR integration with SAP MDG-M



Migration Cockpit – Component Diagram



Migration readiness checks provide a summary of the readiness

- ⌘ If ER workflows have started and tasks are approved, the ER isn't ready for migration unless the user confirms and reinitiates the process from the current status.
- ⌘ If the ER workflow hasn't started or no tasks are approved, it is ready for migration, creates the CR and loads the corresponding route at the CR level.

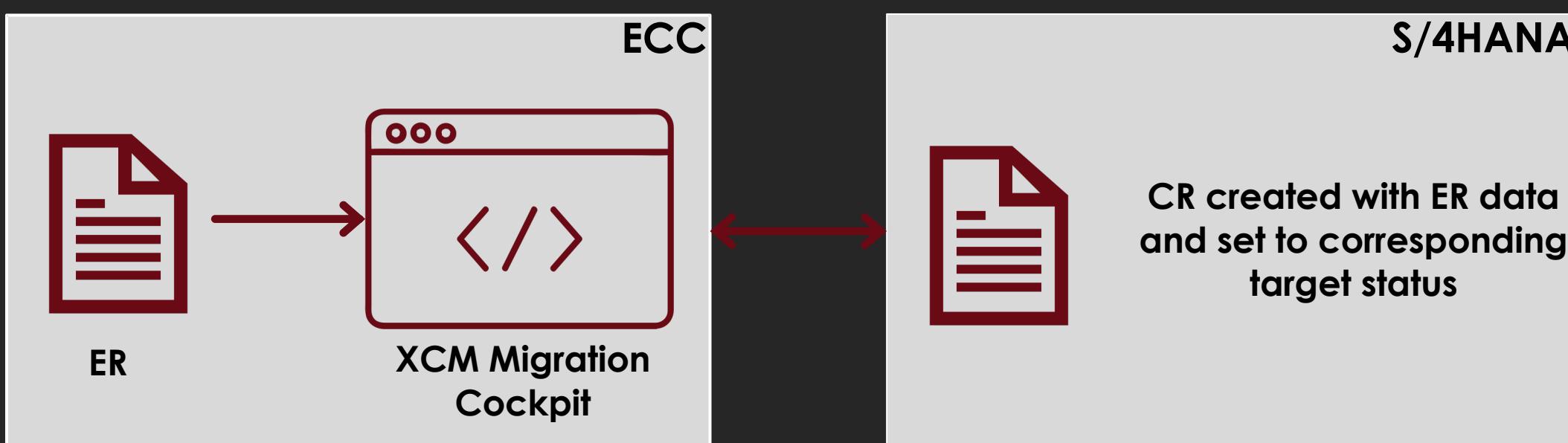
Target field mapping provides the mapping to ER and CR custom fields

Target status provides the ER to CR status mapping when status nets differ

Once all validations are successful, the CR is created

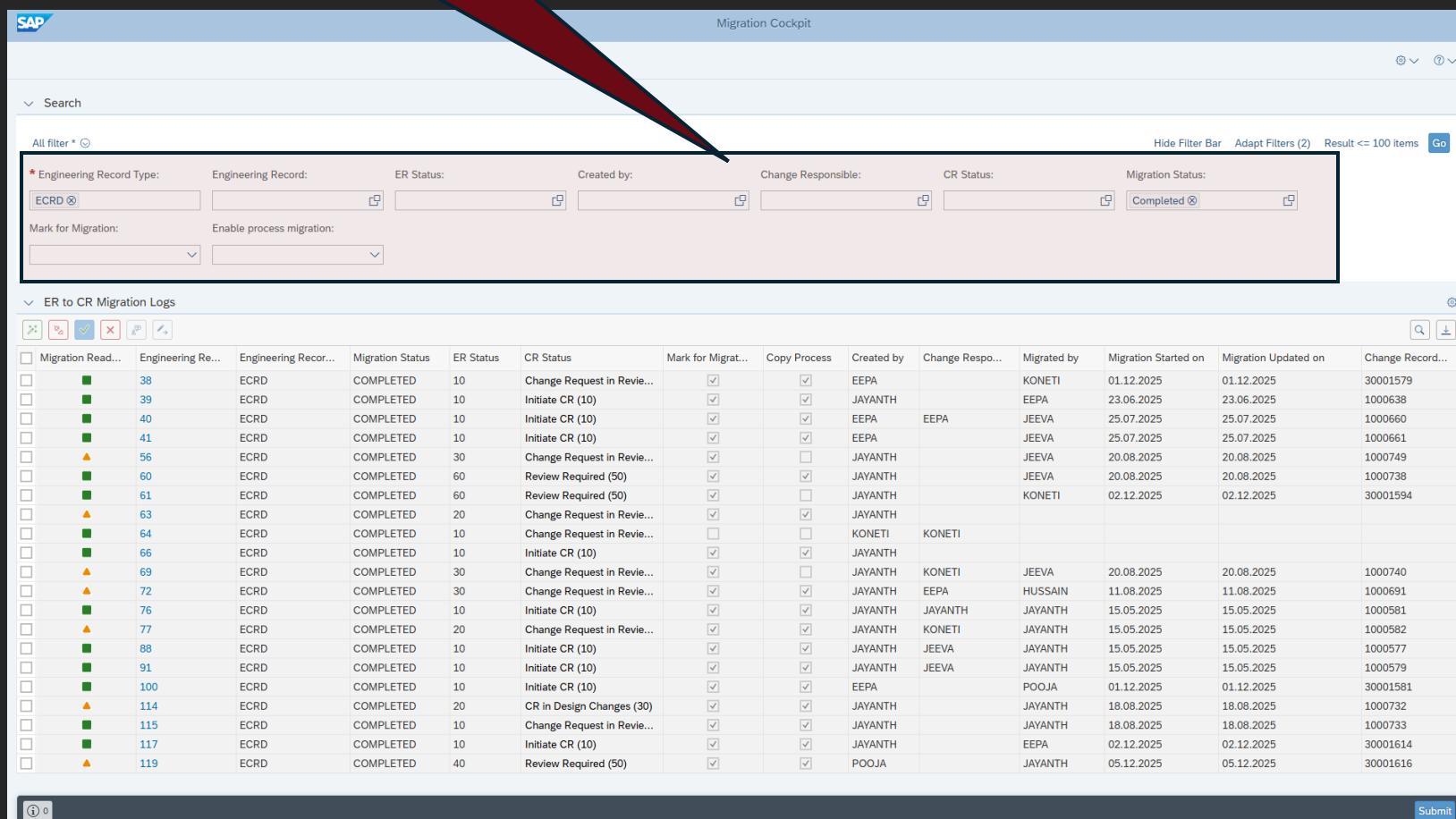
Migration status is updated back to the XCM Migration Cockpit to provide a summary of migration, reprocess tasks, and prevent duplicate CR creation.

XCM Migration Cockpit also offers on-demand migration through a custom button at the ER level, allowing authorized users to migrate a specific ER to CR at any time.



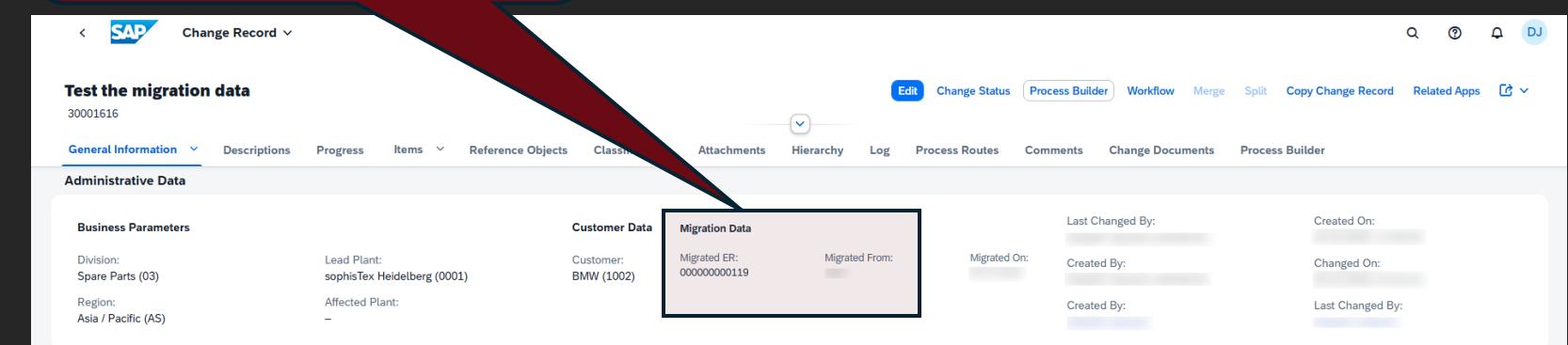
Migration Cockpit

Migration can be done for selected record using the filter in Migration Cockpit

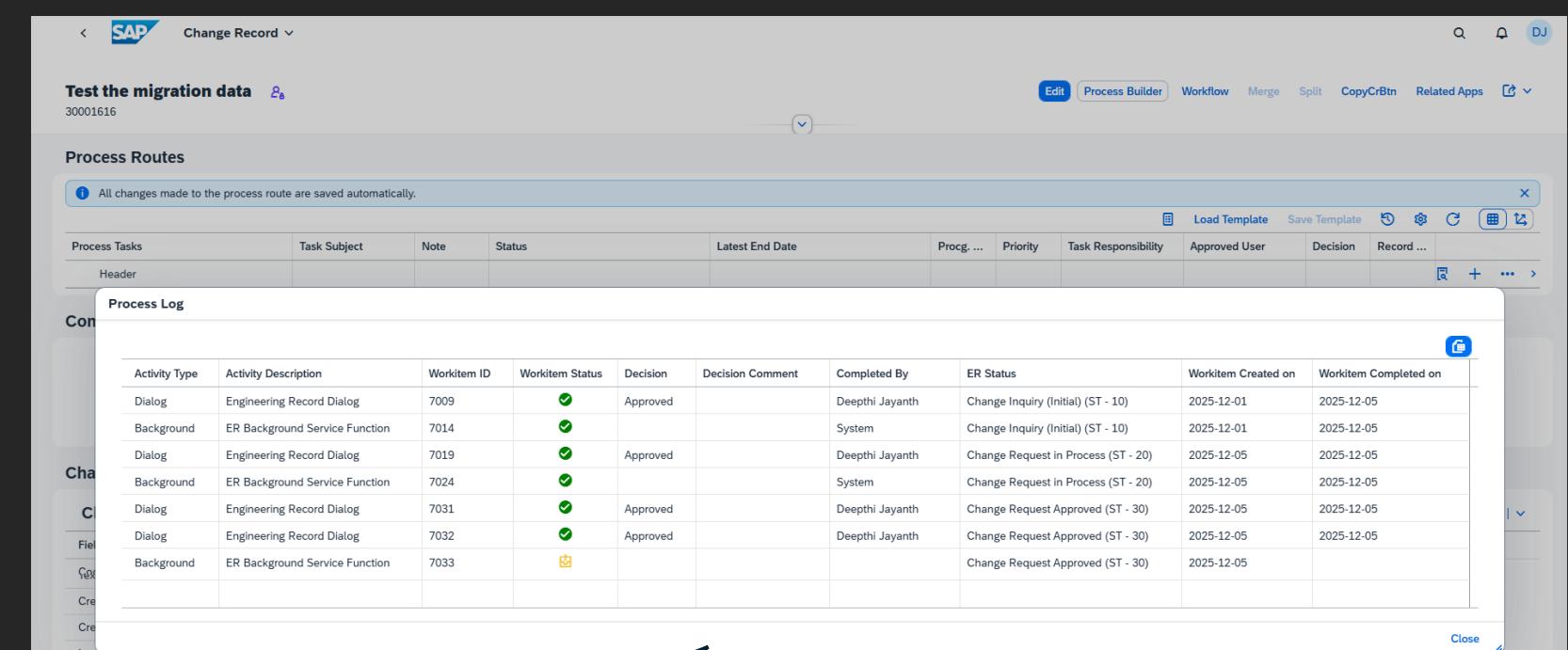


The screenshot shows the SAP Migration Cockpit interface. At the top, there is a filter bar with fields for 'Engineering Record Type', 'Engineering Record', 'ER Status', 'Created by', 'Change Responsible', 'CR Status', and 'Migration Status'. Below the filter bar is a table titled 'ER to CR Migration Logs' containing numerous rows of data. The table includes columns for 'Migration Read...', 'Engineering Re...', 'Engineering Recor...', 'Migration Status', 'ER Status', 'CR Status', 'Mark for Migrat...', 'Copy Process', 'Created by', 'Change Respo...', 'Migrated by', 'Migration Started on', 'Migration Updated on', and 'Change Record...'. A 'Submit' button is located at the bottom right of the table.

Information of migrated data



The screenshot shows the SAP Change Record interface. The top navigation bar includes 'Edit', 'Change Status', 'Process Builder', 'Workflow', 'Merge', 'Split', 'Copy Change Record', and 'Related Apps'. The main content area is titled 'Test the migration data' and shows 'General Information' for record 30001616. The 'Administrative Data' section includes 'Business Parameters' (Division: Spare Parts (03), Region: Asia / Pacific (AS)), 'Customer Data' (Lead Plant: sophisTex Heidelberg (0001), Customer: BMW (1002), Affected Plant: -), and a 'Migration Data' section (Migrated ER: 00000000119, Migrated From:). The right side of the screen shows 'Last Changed By', 'Created On', 'Migrated On', 'Created By', 'Changed On', and 'Created By' fields.



The screenshot shows the SAP Change Record interface. The top navigation bar includes 'Edit', 'Process Builder', 'Workflow', 'Merge', 'Split', 'CopyCrBttn', 'Related Apps', and 'More details'. The main content area is titled 'Test the migration data' and shows 'Process Routes'. A note says 'All changes made to the process route are saved automatically.' Below this is a table titled 'Process Log' with columns for 'Activity Type', 'Activity Description', 'Workitem ID', 'Workitem Status', 'Decision', 'Decision Comment', 'Completed By', 'ER Status', 'Workitem Created on', and 'Workitem Completed on'. The table lists several entries, including 'Dialog' and 'Background' types.

Process Information is migrated and shown as log on demand





Features availability matrix

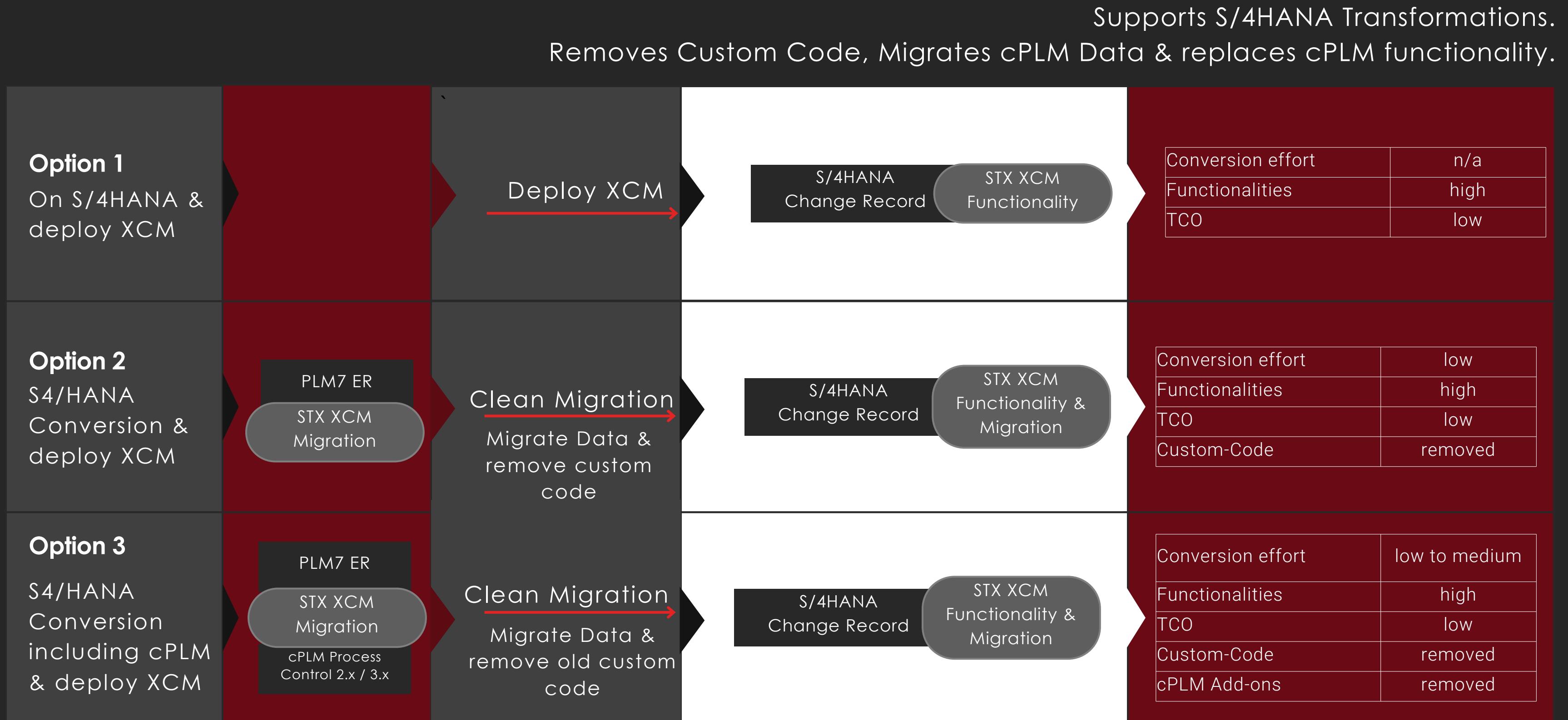
– PLM7 ER vs S/4HANA CR vs CR+XCM

* SAP Standard offers Team and Responsibility (T&R) Management, within the standard, only the CR Type parameter supported

** Team and Responsibility enabled to support multiple parameters to determine Teams, Functions, and Team members, additionally supports the Teams hierarchy

Feature	PLM7 ER - Standard	PLM7 ER + cPLM	S/4HANA CR-Standard	S/4HANA CR + XCM
Custom Fields on header area	Yes	Yes	Yes	Yes
Dynamic Field Control via BRF+	Limited to ER Type	Yes	Limited to CR Type	Fully Dynamic Possible
Auto-determine Process Route Templates for CR Status and other fields	No	Yes	Yes	Yes (But only Process tasks are determined, no templates required)
Process Route Background Tasks	No	Yes	Yes	Yes
Process Route tasks with Parameters	No	Yes	No	Yes
Task Multiplication (create same task for different plants or for other parameters)	No	Yes	No	Yes
Approval Decision Exits	No	Yes	No	Yes
Status Transition with BRF+	No	Yes	Yes	Yes
Process Route Simulator	No	Yes	No	Yes (Displays PR Steps and Agents from T&R)
Teams & Responsibility (T&R)	No	Yes, via ACM Parameters	Yes, via SAP Standard T&R, limited options*	Yes, full flexibility**
UX Experience & Performance	Old WDY screens with slow backend logic	cPLM ACM slows down further ER performance	SAP Fiori (Modern, stable, device agnostic)	SAP Fiori UX with CDS & RAP scalable solution
ER to CR Migration	-	-	No	Yes, with different Migration options

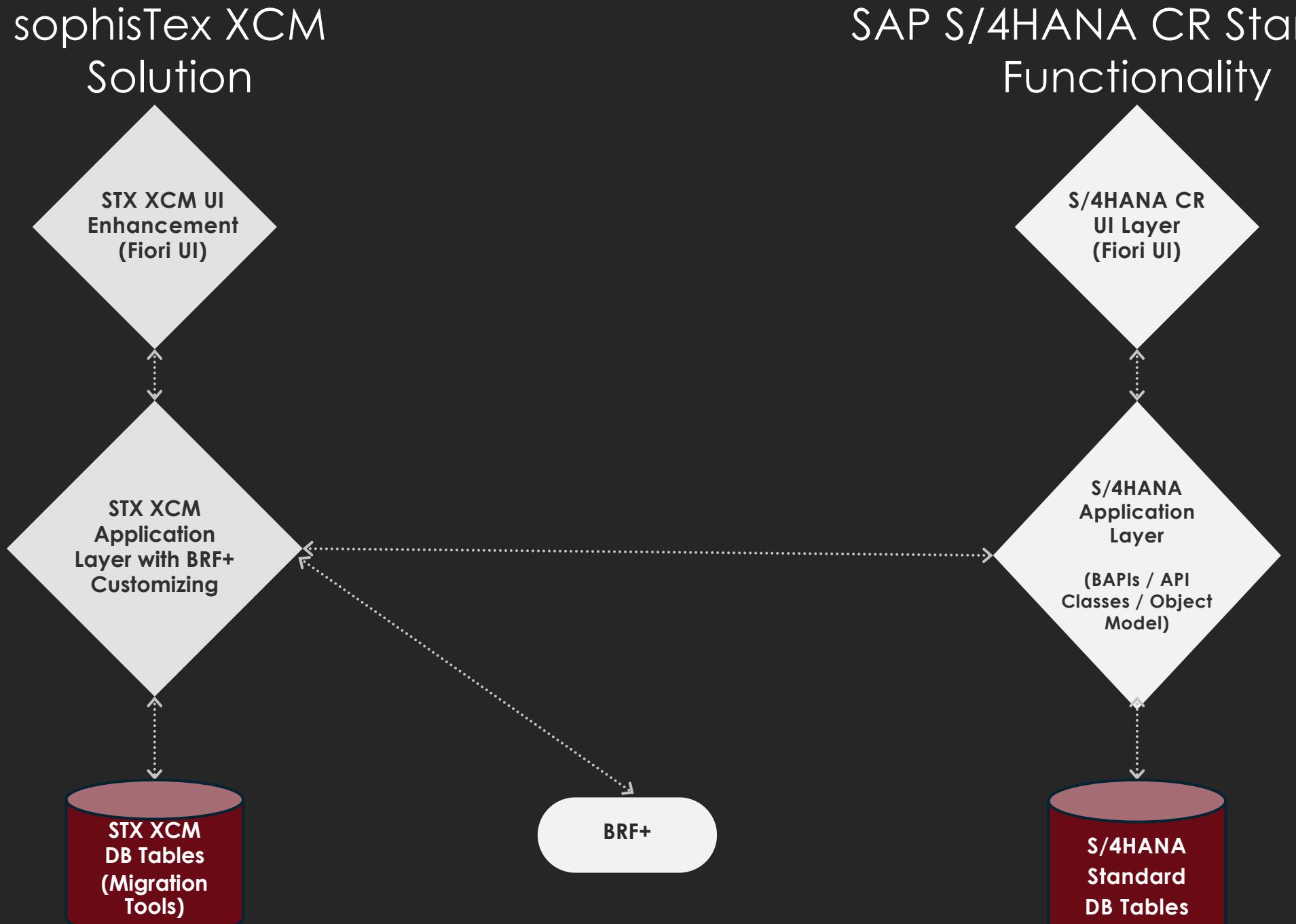
Deployment Options: Full Flexibility





Technical Architecture

- ⌘ STX XCM is technically separated from SAP S/4HANA Standard and certified by SAP*
- ⌘ All add-on functionalities are fully switchable
- ⌘ STX database tables for migration functionality
- ⌘ Uses SAP BRF+ for configuration
- ⌘ Deployment possible on SAP S/4HANA 2023+ and on SAP ECC EhP7+ (ECC only needed for data migration)



* SAP certification completed in 2025

- STX XCM deployed on SAP S/4HANA On-Premise / Private Cloud
- Migration Tools of STX XCM must be deployed on SAP ECC as well

SAP Standard Functionality
on
SAP S/4HANA On-Premise



Seamless Integration with MDG-M:

The change record integrates smoothly with MDG-M, provides the flexibility to initiate the change process directly from MDG-M by creating the change record or optionally create it from the PLM "Manage Change Record" application based on your requirement

This integration is partially supported by SAP S/4HANA standard, but XCM Add-On solution provides the bi-directional integration between MDG-M and PLM CR

Optimized Team & Responsibility Management:

Existing organizational structures and agent determination functionalities can be seamlessly migrated to S/4HANA Teams and Responsibility Management. This ensures the right process participants are identified, leading to effective decision-making.

Teams Hierarchy is fully supported by S/4HANA Standard, but Automatic Process participants determination by business parameters is only possible with XCM

Targeted Process Tasks:

Change management tasks can be assigned at the plant or business unit level, ensuring the right teams are involved for efficient and structured change handling.

This is fully covered by XCM, standard process route functionality is not very flexible with a pre-configured process route functionality



PLM CR with XCM

Modern & User-Friendly Experience:

The S/4HANA Change Record offers a modern, flexible, and high-performance user experience, enhancing productivity for business users.

This is fully supported by SAP Standard, but XCM provides additional UIs like process simulation and extended search to enhance the user experience

Comprehensive PLM Integration:

The change record is tightly integrated with PLM objects such as Material, BOM, and Routing. All impacted objects are maintained in one place, with their statuses automatically updated in sync with the change record's progress.

Status transition of change items is fully covered by XCM

Custom fields can be added to the CR header to personalize the Change Record for your requirement

Fully supported by SAP Standard

Thank you

Contact Us

contact@sophisTex.com
sophistex.com
+4962025781540

