

ERP-349 UI Extensions in Create Maintenance Notification App

Status	Approved
Owner	YILMAZTURK-ext, Gokhan
Stakeholders	LEIGHTON-ext, Dean
Jira Request ID	 ERP-98 - Jira project doesn't exist or you don't have permission to view it.
Jira Development ID	 ERP-349 - Jira project doesn't exist or you don't have permission to view it.

High- Level Specification

Parameter	Value
Application System	SAP S/4HANA ROW, SAP S/4HANA China, SAP S/4HANA CUI
Business Process Reference	07.05.01.01. Manage Asset, Faults and Incidents

Functional Overview

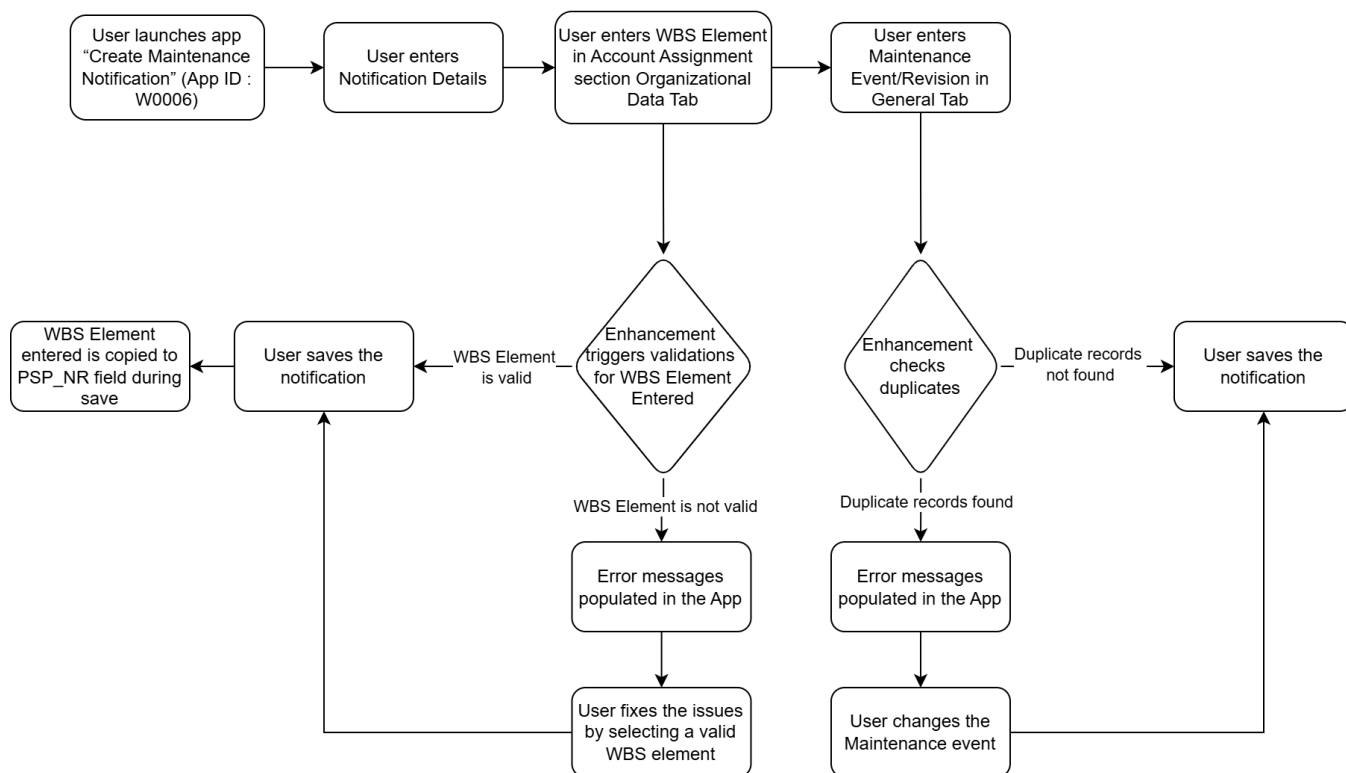
For requesting maintenance on regular activities, the app "Create Maintenance Request" (App ID : F1511A) will be used. However, when requesting Project Work, we will need to use a different WDA application called "Create Maintenance Notification" (App ID : W0006). In this application, the targeted users will add WBS Element to the notification when they are requesting a Project Work from Maintenance. Once the WBS Element is entered, we will need to validate if this WBSE is a valid one. (e.g. Accounting Indicator must be set etc.)

Scope and Objectives

This development has 3 main objectives as follows;

- Launchpad Design & App Tile Configuration:** In A2D, the app "Create Maintenance Request" (App ID : F1511A) will be used for raising maintenance requests on regular activities. However, we will need a separate Fiori application to raise "Project Work". For this purpose, the WDA application called "Create Maintenance Notification" (App ID : W0006) will be used with certain launchpad configuration which is mentioned in detail at the Configuration Details section. This app will be targeted only for certain user groups (e.g. Project Managers), which is also explained in the Security, Integrity and Controls section.
- Performing checks and validations:** In standard app "Create Maintenance Request" (App ID : F1511A), WBS Element field (which is also a standard field) is not present. It is also not supplied with OData Services/CDS Views the app is using as well. On the other hand, the field is already available in the app "Create Maintenance Notification" (App ID : W0006) which is intended to be used here. So, once this WBS element field is entered, a validation has to be done to check if the WBS Element is a valid one. A valid WBS Element has Accounting indicator as true ("X") and the Status for WBS Element needs to be "Released". Also, when the maintenance event is created and assigned, there should be another validation to see, there is no other open notification exists with Notification Type: 'Y3' and same maintenance event assigned.
- Updating the notification:** Once the WBS Element field is entered, Project Number should also be updated in the notification during save.

Process Flow Diagram



Step	Description	Comment
1	User launches app "Create Maintenance Notification" (App ID : W0006)	using a following parameter: "QMART=Y3". The initial screen where the notification type needs to be selected, will be skipped by providing this parameter in the target url.
2	User enters Notification Details	e.g. Notification Description, Technical Object, Maintenance Plant, Company Code, etc.
3	User enters WBS Element in Organizational Data Tab under Account Assignment section	While entering the WBS Element, users should be able to use the custom search helps developed via Jira Request:  ERP-610 - Jira project doesn't exist or you don't have permission to view it.
4	Enhancement triggers checks for WBS Element to see if it's valid	if not it will populate error messages
5	User enters Maintenance Event in General Tab	
6	Enhancement triggers checks for duplication with Notification Type (Y3) and Maintenance Event combination	if there is any duplication, it will populate error messages
7	User saves the notification	
	If WBS Element is fulfilled in the notification, it is also supplied to PSP_NR field in VIQMEL table.	

Assumptions

The "Create Maintenance Notification" (App ID : W0006) will only be used for creating Y3 Notifications via a targeted group of users. For regular maintenance activities, "Create Maintenance Request" (App ID : F1511A) app will be used instead.

Dependencies

WBS Element needs to be created prior to create a Y3 Notification as a prerequisite.

Security, Integrity and Controls

Since the app intended to be used, "Create Maintenance Notification" (App ID : W0006), is a standard one. The authorization checks it has is sufficient. Nevertheless, this app is intended for a targeted user group, therefore, following Launchpad design changes needs to be applied from Security, Integrity and Controls perspective;

- The app can be copied from Technical Catalog: SAP_TC_EAM_BE_APPS or from the business catalog: SAP_EAM_BC_NTF_MW to a new Business Catalog: ZSAP_EAM_BC_NTF_MW_PS, Description: EAM - Notification for Projects. The new business catalog and fiori app tile than can be added to the dedicated role created for this process.

The details of Fiori Tile configuration will be mentioned in the Configuration Requirements section below.

Configuration Requirements

Below you can find the details for the App Tile Configuration;

Configuration	Value
Title	Create Maintenance Notification
Subtitle	for Projects
Keywords	EAMS_WDA_ORDNTF_OIF
Icon	sap-icon://request
Use semantic object navigation	True
Semantic Object	MaintenanceNotification
Action	create
Parameters	sap-ui-tech-hint=WDA&QMART=Y3

Language Requirements

Since this is a standard Fiori app, there is no language requirement for the UI. However, the error messages that will be used, needs to be translated accordingly.

Special Requirements

Design Rationale

Functional Requirements

During notification creation, a valid WBS Element needs to be entered. For this process, a valid WBS Element requires Accounting Element field (PRPS-BELKZ) to be set as true (X) and the Status for WBS Element needs to be "Released". In addition to System Status, following user statuses will require another check as well -> In case of User Statuses ONHOLD and CNCL, it should also throw an error. This is because only than the maintenance costs later in the maintenance order can be settled to this WBS Element.

When the notification is created using this WDA app, the WBS Element in Organization Tab will be entered. Once saved, this entry only populates VIQMEL-PROID field with corresponding data. However, it's also required to fill the following field: VIQMEL-PSP_NR with same value. This is not possible in the standard behavior. For that, Save BADI mentioned below can be used.

Proposed Technology to Use

1. **Check if the WBS Element field is valid & validate if the notification does not have duplicates:** For that purpose, SAP BADI: EAM_NOTIFICATION_FIELD_CONTROL can be used.
 - a. Once the field "WBS Element" is populated with a value, it needs to go to PRPS table and see if Accounting Indicator (BELKZ) is set. If not, it needs to throw an error with following message; "This WBS Element is not set as Accounting Element, please use a valid WBS Element".

- b. The Status of the WBS Element needs to be read using FM STATUS_READ . In order to call this FM, OBJNR can be taken from PRPS. Once the FM called, check if it returns I0002 (Released). If not, throw an error with following message; "This WBS Element is not Released, please use a valid WBS Element".
- c. When both "WBS Element" and "Maintenance Event" field is populated, this enhancement needs to check if there is any other open maintenance notification exists with following criteria;
 - i. Maintenance Notification is not closed: VIQMEI-PHASE < 4
 - ii. Maintenance Notification Type is "Y3": VIQMEI-QMART = "Y3"
 - iii. Maintenance Notification has the same "WBS Element" (VIQMEI-PROID) & "Maintenance Event/Revision" (VIQMEI-REVN) with the current one
 - iv. In this case, it should throw following error: "There is already a maintenance notification with &1 and &2 is assigned. Please check notification &3" (&1=Maintenance Event/Revision, &2=WBS Element, &3=Maintenance Notification)
2. **Pass WBS Element from PROID to PSP_NR field in VIQMEI:** For this purpose, SAP BADI: NOTIF_EVENT_SAVE can be used to pass WBS Element data accordingly. In this BADI, filter type: QMART is used. Here the filter value will be "Y3". In the CHANGE_DATA_AT_SAVE method, if the PROID field is not empty, it needs to be also copied to PSP_NR field in the structure; CS_VIQMEI.

Here is an example code;

```
METHOD if_ex_notif_event_save~change_data_at_save.
  IF cs_viqmei-proid IS NOT INITIAL AND cs_viqmei-psp_nr IS INITIAL.
    cs_viqmei-psp_nr = cs_viqmei-proid.
  ENDIF.
ENDMETHOD.
```

Data Source Considerations

Table	Field Name	Comments/Calculation/Field Manipulation
VIQMEI	PROID	If PROID is not initial pass PROID to PSP_NR during save
VIQMEI	PSP_NR	If PROID is not initial pass PROID to PSP_NR during save

Data Validation Considerations

Table	Field Name	Comments/Calculation/Field Manipulation
VIQMEI	PROID	Get PROID
PRPS	PSPNR	Go to PRPS with PROID = PSPNR
PRPS	BELKZ	Check if BELKZ is True "X", if not throw an error.
VIQMEI	REVN	Check if there is a record in VIQMEI with same PROID and same REVNR, if there is, throw an error.
JEST	STAT	Check if the WBS is Released (I0002 is active for the Object)
TJ30	ESTAT	Get User Status Numbers relevant for checks.

Custom Tables

N/A

Master Data

N/A

Field	Description	Data Type/Length	Validation rule/ Value Help

Configuration Table

N/A

Field	Description	Data Type/Length	Validation rule/ Value Help

Selection Screen Enhancement

N/A

Field Name	Description	Select:	Data Type/Length	Default Value/ Validation rule/ Value Help	Selection Logic

Processing Logic

N/A

Volumetrics

N/A

Performance Considerations

N/A

Error Handling

In the first scenario; "**Check if the WBS Element field is valid & validate if the notification does not have duplicates**", if the WBS Element is not valid or the notification has duplicates, it should not be possible to save the notification.

Testing

How to Test

Test Conditions and Expected Results

ID	Condition	Expected Result
1	User launches app "Create Maintenance Notification" (App ID : W0006) with configured App Tile : Create Maintenance Notification for Projects	using a following parameter: "QMART=Y3". The initial screen where the notification type needs to be selected, will be skipped by providing this parameter in the target url.
2	User enters WBS Element in Organizational Data Tab under Account Assignment tab, Enhancement triggers validations for WBS Element to see if it's valid	Negative Scenario: WBS is not valid, enhancement populates error messages, user should not be able to save the notification if the error messages are not resolved by selecting correct WBS element.
3		Positive Scenario: WBS is valid, user can continue and save the notification.
4	User assigns Maintenance Event/Revision to notification, Enhancement triggers validations for the Maintenance Event to see if there is any duplication	Negative Scenario: There is already a saved notification with Y3 Type and same Maintenance Event assigned, enhancement populates error messages, user should not be able to save the notification if the error messages are not resolved by selecting a different Maintenance Event which is not a duplicate.

5		Positive Scenario: There is no duplication, user can continue and save the notification.
6	User saves the notification, If WBS Element is fulfilled in the notification, it is also supplied to PSP_NR field in VIQMEL table.	Negative Scenario: WBS is not fulfilled but PSP_NR field is already populated in VIQMEL before. This might happen when the WBS is entered in a previous save but deleted afterwards. In this case, PSP_NR needs to be cleared as well.
7		Positive Scenario: WBS is fulfilled, PSP_NR field is populated in VIQMEL.

Test Considerations/Dependencies

Other Information

Development Details

Package

Package Name	Parent Package

Enhancement Implementation

Enhancement Type	Standard Definition Name	Custom Implementation Name	Design Rationale Reference
BADI	EAM_NOTIFICATION_FIELD_CONTROL		
BADI	NOTIF_EVENT_SAVE		

Other Development Objects

Object Type	Object Name	Purpose/High Level Logic	Design Rationale Reference

Appendix

Custom Authorization Group Naming Convention

This table is based on the Syensqo development standards document. It provides the naming conventions for authorization groups to associated with custom reports and tables to comply with security requirements.

ABAP	ZFI	ZMM	ZPS	ZCO	ZSD	ZBC	ZFI	ZCA
TABLES	ZFIT	ZMMT	ZPST	ZCOT	ZSDT	ZBCT	ZFIT	ZCAT

See also

File	Modified
File ERP-349-Flow draw.io diagram	Dec 02, 2025 by YILMAZTURK-ext, Gokhan

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Change log

Version	Published	Changed By	Comment
CURRENT (v. 24)	Dec 02, 2025 17:30	YILMAZTURK-ext, Gokhan	
v. 23	Dec 02, 2025 17:22	YILMAZTURK-ext, Gokhan	
v. 22	Dec 02, 2025 17:17	YILMAZTURK-ext, Gokhan	
v. 21	Nov 20, 2025 09:49	YILMAZTURK-ext, Gokhan	
v. 20	Nov 13, 2025 14:22	YILMAZTURK-ext, Gokhan	
v. 19	Nov 13, 2025 13:44	YILMAZTURK-ext, Gokhan	
v. 18	Nov 12, 2025 14:10	YILMAZTURK-ext, Gokhan	
v. 17	Nov 11, 2025 17:27	YILMAZTURK-ext, Gokhan	
v. 16	Nov 11, 2025 17:24	YILMAZTURK-ext, Gokhan	
v. 15	Nov 11, 2025 17:16	YILMAZTURK-ext, Gokhan	

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Workflow history

This view shows the 5 most recent entries. The complete workflow log is available from the 'Document Activity' menu item.

Jan 08, 2026	Actor	Type	Activity	Version
Approved	LEIGHTON-ext, Dean	State	changed state to Approved at 5:31 am	v24
Lead Approval	LEIGHTON-ext, Dean	State	gave <i>POD Lead Review</i> approval at 5:31 am	
Dec 08, 2025				
	WEINERT-ext, Patrick	State	changed expiry date to '15 Dec, 2025 07:39 am' at 7:39 am	
		State	changed state to Lead Approval at 7:39 am	v24
Tech Review	WEINERT-ext, Patrick	State	gave <i>Tech Review</i> approval at 7:39 am	
Dec 02, 2025				
	 YILMAZTURK-ext, Gokhan	Edit	updated the page at 5:17 pm	