

ERP-1600 PM Notification Creation app for external users ("Avis PM") - User Interface

Status	Approved
Owner	KIARED, Youcef
Stakeholders	
Jira Request ID	 ERP-594 - Jira project doesn't exist or you don't have permission to view it.
Jira Development ID	 ERP-1600 - Jira project doesn't exist or you don't have permission to view it.

High- Level Specification

Parameter	Value
Application System	SAP S/4HANA, PM Notification App
Business Process Reference	07.05.01.01. Manage Asset, Faults and Incidents

Functional Overview

The PM Notification application is a custom SAP Fiori application intended to allow end users to create and consult maintenance notifications in a simplified and user-friendly way.

The application will be developed on SAP BTP and integrated with SAP S/4HANA for notification creation and retrieval. The application is expected to be exposed to end users through two portals (one for internal and the other for the external)

The application provides two main capabilities:

- Create Notification
- Notifications List (similar to IW29)

The user experience is intentionally simplified in order to support non-SAP users (lab researchers), especially laboratory and site users. Technical SAP fields are hidden from the UI and automatically derived in the backend wherever possible.

Notifications are created in SAP S/4HANA through backend integration using a technical user. The actual requester identity is nevertheless captured and transferred as part of the notification data.

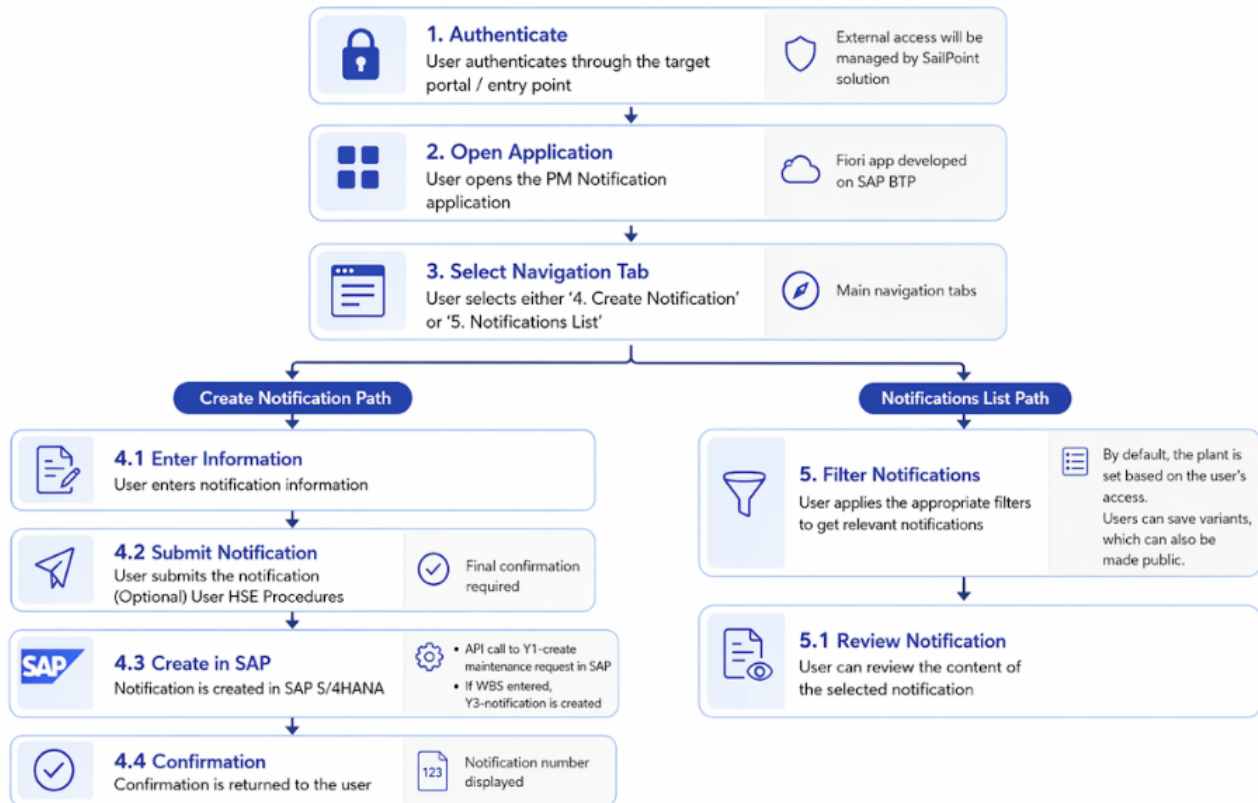
For this application we have around 80 external users (this number will increase in the coming months/years) with same role

Scope and Objectives

- Allowing users to create maintenance notifications through a simplified Fiori UI (external users)
- Allowing users to consult existing notifications in a dedicated list screen
- Restricting user access based on plant/site authorization (attributes)
- Integrating the application with SAP S/4HANA for both create and get notifications

Process Flow Diagram

PM Notification Application – Process Flow Diagram



Step	Description	Comment
1	User authenticates through the target portal / entry point	External access will be managed by SailPoint solution
2	User opens the PM Notification application	Fiori app developed on SAP BTP
3	User selects either "4.Create Notification" or "5. Notifications List"	Main navigation tabs
4.1	User enters notification information	
4.2	User submits the notification (Optional) User HSE Procedures.	Final confirmation required
4.3	Notification is created in SAP S/4HANA	API call to Y1-create maintenance request in SAP if WBS entered Y3-notification is created
4.4	Confirmation is returned to the user	Notification number displayed
5	User apply the appropriate filters to get relevant notifications.	By default, the plant is set based on the user's access. Users can save variants, which can also be made public.
5.1	User can review the content of notification selected	
6	Email Notification sent based on custom tables content.	

Application Screen:

- First tab: **Notification creation**

Current Screen of the app: the red areas are no longer needed

Informations utilisateur

* Nom: * Adresse e-mail: * Téléphone:

* Prénom: Site: / Recevoir une copie par mail ? ☐

Objet de la demande

* Bâtiment / Laboratoire: Entité:

* Titre: N° Inventaire:

Observation:

* Date de début souhaitée: * Date de fin souhaitée:

Poste de travail

Imputation

☒ Centre de coûts Valideur:

☐ Bâtiment d'OTP

Faut-il établir un devis ?

☐ Oui ☒ Non

Risques liés à l'intervention

Risques Chim... ☐ Oui ☒ Non

Equipements: ☐ Oui ☒ Non

Incendie / Exp... ☐ Oui ☒ Non

Risques Electr... ☐ Oui ☒ Non

Autres risques: ☐ Oui ☒ Non

Surveillance médicale renforcée

Exposition des intervenants à des: ☐ Oui ☒ Non (6.6 Textes Réglementaires)

risques donnant lieu à une surveillance médicale renforcée?

Procédures HSE

Cette demande concerne-t-elle une ANOMALIE HSE ? ☐ Oui ☒ Non

Ces travaux conduisent-ils à modifier le dossier sécurité de l'installation ? ☐ Oui ☒ Non

Ces travaux concernent-ils une modification d'installation avec étude sécurité avec leader (ESP) ? ☐ Oui ☒ Non

Ces travaux créent-ils ou modifient-ils le plan de zone ATEX (atmosphère explosive) de votre local ? ☐ Oui ☒ Non

N° du Dossier: N° de l'inspecteur du pilote:

Si oui: donner les éléments au service HSE.

- Second tab: **Notification List**

PM Web Notification

[Create Notification](#) [List of notifications](#) [EHS Notifications](#)

List of notifications

Selection criteria

Notification status

☒ Outstanding ☐ postponed ☒ in process ☐ Completed

Notification selection

* Planning plant: To

Planner group: To

Main work center: To

Notification type: To

Notification: To

Status included: To

Status Excluded: To

Period: To

Creator Last name: First name:

View:

Notification	Reported by	Date	Inventory number	Time	Building / Laboratory	Description	System status	Partner	List name	Req. start	Req. End

Assumptions

- End users are not SAP experts and require a simplified interface
- The app is developed on SAP BTP
- SAP S/4HANA exposes the required backend services for notification creation and retrieval
- Internal users/externals can be associated with an authorization attribute identifying their plant/site

Dependencies

The application depends on the following components:

- SAP BTP
- SAP S/4HANA PM
- SAP Cloud Identity Services
- SailPoint for external access
- Internal Portal / External portal
- Backend integration services or APIs for create and get operations
- Custom configuration tables for approval and email routing, where applicable

Security, Integrity and Controls

for internal users shall be based on SAP Cloud Identity Services.

Authorization shall be controlled through user attributes, in particular the authorized plant/site. The application shall restrict both data visibility and data creation rights accordingly.

Users shall only be able to:

- create notifications for their authorized plant/site
- Display only notifications created by the user or by users from the same company (user group)
- access only the functional locations and equipment belonging to their authorized scope

Although the notification is technically created in S/4HANA by a technical user, the actual requester identity must be captured and transferred in the notification payload.

A backend validation shall ensure that no notification can be created outside the user's authorized scope, even if UI filtering is bypassed.

Authentication for external access model is still under discussion and will be finalized separately by the project technical team.

Configuration Requirements

The following configuration elements are required:

- User authorization attribute identifying the plant/site
- Filtering logic for functional locations and equipment by plant/site
- Email recipient mapping by cost center if approval remains in scope

Language Requirements

The application language shall be English/French

Additional language support may be considered later depending on project needs.

Special Requirements

- Intuitive and simplified UI
- Plant/site-based filtering for both creation and consultation
- Separate list tab for consultation of existing notifications
- Priority field available in the creation form
- A section for HSE evaluation needs to be added at the bottom

Design Rationale

The following design choices have been made:

- technical fields such as planner group, work center, and cost center are exposed to end users.
- a simplified HSE / Safety section may be retained for high-level information only
- a notification list screen is introduced to provide users with visibility on previously created requests
- priority is explicitly captured in the UI to help classify the request from the start

This approach is aligned with SAP best practices, where the notification captures the maintenance need, while technical, planning, and safety assessments are handled later during order preparation and execution.

Functional Requirements

The application shall provide the following functionalities.

1. Create Notification

The user shall be able to create a maintenance notification through a simplified form.

The form shall allow the user to maintain:

- Functional location
- equipment (optional)
- title (short description)
- description (long text)
- priority
- requested start date
- requested end date
- simplified safety / HSE information if retained

The system shall:

- validate mandatory fields
- restrict selectable technical objects based on plant/site authorization
- create the notification in SAP S/4HANA
- display a confirmation message with the notification number

1. Notifications List (similar to IW29)

The user shall be able to consult previously created maintenance notifications through a dedicated list tab.

The user shall be able to:

- retrieve a list of notifications
- filter the list by predefined criteria
- view notification details in read-only mode

The system shall ensure that the user only sees notifications related to the authorized plant/site.

1. Automatic Derivation

The system shall automatically derive from technical object:

- **planner group**
- **work center**
- **cost center**

The user will be able to suggest the cost center with an activity code

Recommended UI Technology

The application shall be developed as a SAP Fiori (SAPUI5) application on SAP BTP.

The final launch mechanism to end users, including the potential use of SAP Build Work Zone, shall be confirmed by the tech team.

Application Screen

The application consists of two main tabs:

- Create Notification
- Notifications List

Wireframe or Mock-Up

Screenshots and mock-ups shall be inserted in this section.

They shall illustrate:

- creation screen
- notification list screen
- priority field
- simplified HSE / Safety section

Screen Behavior

Create Notification

- requester information shall be prefilled when available from the authentication context
- user scope shall be automatically restricted by plant/site
- functional location value help shall be filtered by the authorized plant/site
- equipment value help shall be filtered by the authorized plant/site

- priority shall be selected from a predefined list
- description shall be guided by a standard text template
- mandatory fields shall be validated before submission
- submit action shall trigger a final confirmation popup
- upon successful creation, the notification number shall be displayed

Notifications List

- the list shall be filtered by authorized scope by default
- the user shall be able to apply additional filters
- the user shall be able to open a notification in read-only mode
- the list shall display key business information in a readable table format

Screen Navigation

Entry

The user accesses the PM Notification application through the target portal / launch mechanism.

Main Navigation

The application provides two main tabs:

Tab 1: Create Notification

- Sections:
- User Information
- Request Details
- Dates
- HSE Information
- Submission

Tab 2: Notifications List

Sections:

- Filters
- Results Table
- Notification Detail View

Data Integration

Field	Table-Field Name	Comments / Calculation / Field Manipulation / Input / Output / Validation rule / Value help
First Name/Last Name/Email Address	Authentication context	Auto-populated where available
Plant / Site	Authorization attribute	Drives filtering and restriction
Functional Location/Equipment	SAP standard technical object	Mandatory, value help filtered by plant/site
Title	Notification short text	Mandatory
Description	Notification long text	Mandatory
Requested Start Date	Notification date field	Input field
Requested End Date	Notification date field	Input field
Planner Group	Derived	Derived from technical object
Work Center	Derived	Derived from technical object
Cost Center	Derived	Derived from technical object
Created By	Technical user In S /4HANA	
Reported By	Derived from authenticated user	Actual requester identity

Custom Tables

Master data

The application relies primarily on SAP standard master data, including:

- Functional Locations
- Equipment
- Planner Groups
- Work Centers
- Cost Centers
- WBS
- Set of priority

Configuration table

Configuration tables may be used for:

- approval recipient mapping by cost center
- email routing
- derivation rules where standard logic requires supplement
- potentially priority mapping if needed

The current solution has a pgm that triggers emails to inform different stakeholders of site once a notification is created or closed, this needs to be evaluated if we can replace it by a workflow (the usage of workflows is part of our S4 design)

Processing Logic

Create Notification:

- User opens the Create Notification tab.
- User information and plant/site authorization are determined from the authentication context.
- Functional location and equipment value helps are filtered by authorized scope.
- User enters the required notification data.
- If necessary user can select a WBS element from dropdown list, that WBS will be posted as an activity in the notification
- System validates mandatory fields and data consistency.
- Backend derives planner group, work center, and cost center.
- Notification is created in SAP S/4HANA through the backend integration service using the technical user.
- The actual requester identity is passed into the notification as Reported By.
- Confirmation is returned to the user.
- If applicable, an email notification is triggered based on configured approval logic.

Notifications List:

- User opens the Notifications List / My Requests tab.
- System retrieves notifications limited to the user's authorized scope.
- User applies filters as needed.
- System refreshes the result list.
- User opens a notification in read-only mode if needed.

Tooltips

Tooltips shall be provided where needed to support non-SAP users, especially for:

- Functional Location
- Equipment
- Priority
- Safety Information

Front-End

The application front-end shall be developed as a custom SAP Fiori application using SAPUI5 on SAP BTP.

Mobile Services

The application is primarily intended for browser-based usage.

Authentication & Authorization

Internal Users shall authenticate through SAP Cloud Identity Services.

Each user shall carry an authorization attribute identifying the authorized plant/site.

This attribute shall drive:

- field value filtering
- notification creation scope
- notification consultation scope

External Users: the authentication and authorization model for external users is still under discussion by the technical team.

Accessibility

The application shall follow standard SAP Fiori accessibility principles as far as possible

Volumetrics

The application is expected to support:

- regular daily notification creation by site users
- notification consultation across an active but limited user population

Performance Consideration

- notification retrieval in the list screen shall remain performant under standard filtering usage
- backend filtering shall be used to avoid unnecessary data loading
- plant/site restriction shall be applied as early as possible in the request flow

Error Handling

The application shall handle at least the following error cases:

- mandatory field missing
- invalid date range
- backend service unavailable
- notification creation failure
- notification retrieval failure

Error messages shall be clear and business-friendly.

Examples:

- "Please complete all mandatory fields."
- "The notification could not be created. Please try again later."
- "The notifications list could not be loaded. Please try again later."

Testing

How to Test

The following test categories shall be executed:

- authentication and authorization tests
- notification creation tests
- notification consultation tests
- filter behavior tests
- error handling tests
- integration tests with SAP S/4HANA

Test Conditions and Expected Results

ID	Condition	Expected Result
T01	User opens the app with valid access	App is accessible
T02	User creates a notification with all mandatory fields	Notification is created successfully
T03	Mandatory field is missing	Error message is displayed
T04	User selects a priority and submits	Priority is transferred correctly

T05	User filters notifications by status, date, or planner grp	List is refreshed correctly
T06	Backend service is unavailable	Technical error message is displayed

Test Considerations/Dependencies

Testing depends on:

- SAP BTP test environment
- SAP Cloud Identity Services setup
- SAP S/4HANA test APIs / services
- test users with correct plant/site authorization attributes

Other Information

NA

Development Details

Package

Package Name	Parent Package

UI Implementation

UI Type	UI Name	Fiori Catalogue	Design Rationale Reference

API Implementation

API Type	API Name	Purpose / High Level Logic	API Product	Design Rationale Reference

Other Development Objects

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

Appendix

See also

Change log

Version	Published	Changed By	Comment
CURRENT (v. 21)	Apr 24, 2026 07:20	KIARED, Youcef	
v. 20	Apr 23, 2026 12:42	KIARED, Youcef	

v. 19	Apr 23, 2026 10:43	KIARED, Youcef
v. 18	Apr 23, 2026 10:42	KIARED, Youcef
v. 17	Apr 03, 2026 17:58	KIARED, Youcef
v. 16	Apr 03, 2026 17:14	KIARED, Youcef
v. 15	Apr 02, 2026 11:04	KIARED, Youcef
v. 14	Apr 02, 2026 11:02	KIARED, Youcef
v. 13	Apr 01, 2026 11:06	KIARED, Youcef
v. 12	Apr 01, 2026 10:56	KIARED, Youcef

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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.

May 07, 2026	Actor	Type	Activity	Version
Approved	LEIGHTON-ext, Dean	State	changed state to Approved at 11:26 am	v21
Lead Approval	LEIGHTON-ext, Dean	State	gave <i>POD Lead Review</i> approval at 11:26 am	
Apr 27, 2026				
	 BANSAL-ext, Mohit	State	changed expiry date to '04 May, 2026 05:42 am' at 5:42 am	
		State	changed state to Lead Approval at 5:42 am	v21
Tech Review	 BANSAL-ext, Mohit	State	gave <i>Tech Review</i> approval at 5:42 am	
From Apr 23, 2026 to Apr 24, 2026				
	 KIARED, Youcef	Edit	updated the page at 10:42 am	