


ERP-1018 Synch Status from PPM Item to PS Project/WBS

Status	Approved
Owner	FRUTEAU-ext, Sabrina
Stakeholders	UPADHYAY-ext, Anjali CONNELLY-ext, Delia BIDALIA-ext, Kuldeep
Jira Request ID	 ERP-1018 - Jira project doesn't exist or you don't have permission to view it.
Jira Development ID	 ERP-714 - Jira project doesn't exist or you don't have permission to view it.

High- Level Specification

Parameter	Value
Application System	SAP S/4HANA - CUI instance blocked URL SAP S/4HANA - China instance blocked URL SAP S/4HANA - Rest of World instance
Business Process Reference	10.02.04.01. Manage Project Settlement and Closure

Functional Overview

This functional specification defines the custom development required to automatically replicate specific **PPM Item User Statuses** to linked **PS Project** and **WBS Element User Statuses**.

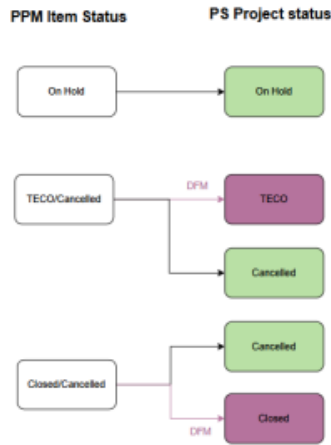
The enhancement ensures that when an Item in PPM is updated to statuses: **TECO/Cancelled**, **Closed/Cancelled** or **On Hold**, the corresponding **PS User Status** is automatically set on the associated Project Definition.

Scope and Objectives

Standard PPM to PS integration (via DFM configuration) supports mapping **PPM Item Status** to **PS System Status** only. Since **Cancelled** and **On Hold** are User Statuses in PS, standard functionality cannot be used, requiring custom development.

The objectives of this Functional Specification are to **ensure consistency between PPM and PS project status management** by synchronizing User Statuses across both modules whenever a relevant status change occurs in PPM.

Process Flow Diagram



Step	Description	Comment
1	Trigger: User changes of PPM Item Status to: <ul style="list-style-type: none"> ○ TECO/Cancelled or ○ Closed/Cancelled or ○ On Hold 	Upon saving, the PPM item status is updated.
2	System triggers the status change on the corresponding SAP PS project to Cancelled or On Hold.	<p>Item changed to status On Hold => PS project status changed to On Hold</p> <p>Item changed to status TECO/Cancelled =></p> <ul style="list-style-type: none"> • PS project system status updated to TECO via DFM • Event is created when PPM item status is changed to TECO/Cancelled, triggering the PS project status change to Cancelled. <p>Item changed to status Closed/Cancelled =></p> <ul style="list-style-type: none"> ▪ PS project system status updated to Closed via DFM ▪ Event is created when PPM item status is changed to Closed/Cancelled, triggering the PS project status change to Cancelled. <p>The statuses Cancelled and On Hold are assigned to the related WBS element of the same project.</p>
3	User changes the PPM item status from On hold to Approved. The system removed status On Hold on the corresponding PS project.	
4	User changes the PPM item status from TECO/Cancelled to Closed/Cancelled. PS project system status updated to Closed via DFM	Not in the scope of this FS.
5	User changes the PPM item status from TECO/Cancelled to TECO. The system removed status Cancelled on the corresponding PS project.	
6	User changes the PPM item status from Closed/Cancelled to TECO/Cancelled. PS project system status updated to TECO via DFM.	Not in the scope of this FS.

Assumptions

N/A

Dependencies

PPM item status configuration defined.

DFM configuration to synchronize PPM item status with SAP PS project system status.

SAP PS user statuses Cancelled and On Hold defined.

Security, Integrity and Controls

N/A

Configuration Requirements

N/A

Language Requirements

N/A

Special Requirements

N/A

Design Rationale

Functional Requirements

1. Automatic Synchronization

When a user sets the Item Status in PPM to one of the below statuses:

- **TECO/Cancelled**
- **Closed/Cancelled**
- **On Hold**

The corresponding PS Project and its WBS Elements must automatically receive the corresponding PS User Status.

PPM is the controlling application. Users must not manually adjust the PS status for these cases.

The solution must ensure aligned user statuses between PPM and PS at all times.

The update must occur:

- Immediately upon Item status change
- With error logging and alerting in case of failures

2. Update related WBS elements with Cancelled or On hold statuses

When the status "Cancelled" or "On Hold" is assigned to a project definition, the same status must be automatically assigned to all underlying WBS elements. The replication should occur immediately upon status assignment at the project level.

3. Reversibility

If the PPM item status is changed from On Hold, TECO/Cancelled or Closed/Cancelled to another allowed status as per PPM configuration, the status change must be reflected on the SAP PS project, and removed from all dependent WBS elements.:

From	To	Expected behavior
On Hold	Approved	deactivate user status On Hold on PS Project
On Hold	TECO	deactivate user status On Hold on PS Project
TECO/Cancelled	TECO	deactivate user status Cancelled on PS Project
TECO/Cancelled	Closed/Cancelled	TECO system status handled by DFM configuration. User status Cancelled is already assigned to PS project.
Closed/Cancelled	TECO/Cancelled	Closed system status handled by DFM configuration. User status Cancelled is already assigned to PS project.

4 If corresponding SAP PS status is locked for edit by a user, do not allow the change on the PPM item. Error message in PPM stating that the SAP PS project is currently being used by user id, and therefore the status change is not allowed.

Proposed Technology to Use

Implement BADI **RPM_PROJ_CUST_FIELDS** to trigger synchronisation and update the PS using BAPI.

Data Source Considerations

Table	Field Name	Comments/Calculation/Field Manipulation
/RPM/ITEM_D	STATUS	Check PPM item status assigned
TJ30	ESTAT, TXT04, TXT30	SAP PS user statuses definition table
/RPM/STATUS_T	STATUS, TEXT	PPM item status definition table
PRPS	PSPHI	Check WBS elements related to project

Data Validation Considerations

N/A

Table	Field Name	Comments/Calculation/Field Manipulation

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

1. Detect change in Item Status.

If the field STATUS on the PPM item (table /RPM/ITEM_D) is changed to values On Hold, TECO/Cancelled, Closed/Cancelled:

- Identify related SAP PS Project definition: PPM item id = PS Project definition id.
- Set PS User Status **on the** SAP PS Project definition to the corresponding PS user status:

PPM Status	PPM status id	Corresponding SAP PS User status	PS - TXT04 status text
On Hold	Z006	On Hold	HOLD
TECO/Cancelled	Z007	Cancelled	CNCLD
Closed/Cancelled	Z008	Cancelled	CNCLD

- Set/remove User Status accordingly using: **STATUS_CHANGE_IN_PROJECT** or BAPI_BUS2001_SETSTATUS

2. Automatic Replication of User Statuses "Cancelled" and "On Hold" from Project to WBS Elements

For each WBS element, if the status is being set on the project, set the same status on the WBS element (if not already set).

If the status is removed from the project definition, it should also be removed from the WBS elements.

- Identify the related WBS elements:
Table PRPS field PSPHI = Project id
- Use standard SAP function modules or BAPIs for status updates, such as BAPI_BUS2054_SET_STATUS for WBS elements.

3. If status is changed from On Hold, TECO/Cancelled, Closed/Cancelled to another value:

- Identify related SAP PS Project definition: PPM item id = PS Project definition id.
- Set/remove User Status accordingly using: **STATUS_CHANGE_IN_PROJECT** or BAPI_BUS2001_SETSTATUS

From	PPM status id from	To	PPM status id To	Expected results
On Hold	Z006	Approved	Z002	Deactivate user status On Hold on PS Project
On Hold	Z006	TECO	Z006	Deactivate user status On Hold on PS Project
TECO/Cancelled	Z007	TECO	Z006	Deactivate user status Cancelled on PS Project
TECO/Cancelled	Z007	Closed/Cancelled	Z007	Check that user status Cancelled is already assigned to PS project. If not, Set.
Closed/Cancelled	Z008	TECO/Cancelled	Z008	Check that user status Cancelled is already assigned to PS project. If not, Set.

4. If the status update fails because the PS Project is locked:

- Display a meaningful error message to the PPM user: "Status update cannot be applied because Project <Project ID> is currently locked in SAP PS by user <username>. Please try again later."
- The status change is not saved on the PPM item.
- Log the failure in the PPM log or message queue.

Volumetrics

Unknown.

Performance Considerations

N/A

Error Handling

All failures logged in **SLG1**.

In case of failure the status change will not save. So the user will receive an error message, and can re iterate the status change save.

Testing

How to Test

To test the solution, open the PPM application and update the PPM item status to the relevant statuses (On Hold, TECO/Cancelled, and Closed /Cancelled). After saving, verify that the corresponding SAP PS project and its associated WBS elements reflect the same status changes. Additionally, confirm that reversing these statuses in the PPM item also reverses the statuses in the corresponding SAP PS project and WBS elements.

Test Conditions and Expected Results

ID	Condition	Expected Result
1	Create 3 PPM items and approve the first Stage Gate to trigger the PS Project creation.	SAP PS project created with same id as PPM item.
2	Change the projects status to: <ul style="list-style-type: none">▪ On Hold▪ TECO/Cancelled▪ Closed/Cancelled	Statuses are replicated to the corresponding SAP PS projects. Related WBS elements are updated with the same.
3	Change again the statuses on the 3 projects: <ul style="list-style-type: none">• From On Hold to approved• From TECO/Cancelled to TECO• From TECO/Cancelled to Closed/Cancelled• From Closed/Cancelled to TECO/Cancelled	Changes are reflected to the SAP PS project. Related WBS elements are updated with the same.
4	Open the SAP PS project and the PPM item in edit mode simultaneously. Change the PPM item with any of the above mentioned statuses. Save.	PS project lock error message and status change is not saved on the PPM item.

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
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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**

No files shared here yet.

Change log




Version	Published	Changed By	Comment
CURRENT (v. 21)	Jan 13, 2026 07:44	TORRES-ext, Benedict	
v. 20	Jan 12, 2026 18:02	FRUTEAU-ext, Sabrina	
v. 19	Jan 08, 2026 11:24	FRUTEAU-ext, Sabrina	
v. 18	Jan 08, 2026 11:09	TORRES-ext, Benedict	
v. 17	Jan 08, 2026 07:11	INAMDAR-ext, Dig Vijay	
v. 16	Jan 06, 2026 09:46	FRUTEAU-ext, Sabrina	
v. 15	Jan 06, 2026 09:46	FRUTEAU-ext, Sabrina	
v. 14	Dec 15, 2025 08:37	FRUTEAU-ext, Sabrina	
v. 13	Dec 12, 2025 09:43	FRUTEAU-ext, Sabrina	
v. 12	Dec 09, 2025 13:35	FRUTEAU-ext, Sabrina	

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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 13, 2026	Actor	Type	Activity	Version
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Approved	 TORRES-ext, Benedict	Edit	updated the page at 7:44 am	
	UPADHYAY-ext, Anjali	State	changed state to Approved at 7:00 am	v21
Lead Approval	UPADHYAY-ext, Anjali	State	gave <i>POD Lead Review</i> approval at 7:00 am	
	 TORRES-ext, Benedict	State	changed expiry date to '20 Jan, 2026 06:45 am' at 6:45 am	
		State	changed state to Lead Approval at 6:45 am	v21
Tech Review	 TORRES-ext, Benedict	State	gave <i>Tech Review</i> approval at 6:45 am	
			<i>Approved after review</i>	