


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**.

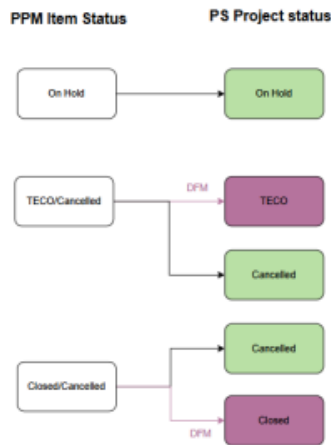
The enhancement ensures that when an Item in PPM is updated to statuses: **TECO/Cancelled**, **Closed/Cancelled** or **On Hold**, the corresponding **PS User Status** is automatically set on the associated Project Definition.

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. | Item changed to status On Hold => PS project status changed to On Hold Item changed to status TECO/Cancelled => <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. Item changed to status Closed/Cancelled => <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. The statuses Cancelled and On Hold are assigned to the related WBS element of the same project. |
| 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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