

SAP BUSINESS TECHNOLOGY PLATFORM | EXTERNAL

# Setup Guide

Manage Asset Retirement using SAP Build Process Automation or SAP Workflow Management

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## Overview

This document provides information about configuration steps to consume the workflow package Manage Asset Retirement. The primary audience of this document is technical IT / system administrators.

Manage Asset Retirement enables the customer to automate the deactivation of equipment, work orders, notifications, maintenance plans and retirement of asset. Notification requests for asset retirement is created from an UI5 application, post which is submitted for approval. After all the approvals are completed, deactivation process begins. There is a provision to set up variants wherein the levels of approval needed for the process can be configured. When a requestor creates a notification request for asset retirement, a preconfigured process variant is triggered in SAP Build Process Automation or SAP Workflow Management based on configurable business conditions.

Salient features of this content package are:

- Easily deployable package from SAP BTP Workflow Management Service with minimal developments in SAP S/4HANA.
- Configure multi-level approval based on various parameters like Company Code, Asset Net Book value, Plant, Approval Level, Cost Center etc.
- Approvers are determined using a configurable business rule.
- Provisioned with a process admin flow which get triggered in case of process exceptions.
- Exception handling during the asset retirement process to notify the Requestor for corrective measures.

***Disclaimer: Please note that this content package is a template to facilitate custom build extensions. A full-fledged master data management solution, with data quality management and governance capabilities is available on SAP Business Technology Platform, please see [SAP Master Data Governance](#).***

## Required SAP BTP Services

The content package “Manage Asset Retirement” is intended to be used for applications on SAP S/4HANA (1610 onwards) and requires the following services in SAP Business Technology Platform.

- SAP Build Process Automation or SAP Workflow Management to orchestrate the process.
- SAP Integration Suite to carry out deactivation/closure of workorders, notifications etc.
- SAP Connectivity service (cloud connector) to establish access to SAP S/4HANA on-Premise.
- SAP Cloud Portal service or SAP Launchpad service to access the apps that are involved in the process.
- SAP Cloud Identity Services - Identity Authentication (optional).
- SAP Business Application Studio or SAP WebIDE to modify/deploy the SAPUI5 applications (optional).
- SAP BTP Cloud Foundry runtime.

# Setup and Configuration

The **Manage Asset Retirement** content package requires SAP Build Process Automation or SAP Workflow Management subscription or a CPEA contract. Based on which service you plan to use, follow the appropriate section to configure either SAP Build Process Automation or SAP Workflow Management.

## Configure SAP Build Process Automation

Follow the setup and configuration section of SAP Build Process Automation:

1. [Subscribe to SAP Build Process Automation \(Standard Plan\)](#)
2. [Configure Destinations for Live Process Projects](#)
  - a. Import Package Destination
  - b. Business Rules Destination to support start and step conditions
3. [Optional] [Configure SAP Launchpad Service for SAP Build Process Automation](#)

### Configure Process Automation Destination

A HTTP destination is required in the BTP subaccount where SAP Build Process Automation is subscribed. Create a destination with name "sap\_process\_automation\_service" with the following configuration if it doesn't exist already. Please refer how to [create a HTTP destination](#) OAuth 2.0 Authentication (client credentials).

Name	sap_process_automation_service
Type	HTTP
Proxy Type	Internet
Authentication	OAuth2ClientCredentias
URL	<"endpoints"."api">
Client ID	<"uaa":"clientis">
Client Secret	<"uaa":"clientsecret">
Token Service URL	<"uaa":"url"/>/oauth/token

Note: While creating the service instance for SAP Build Process Automation service, make sure that at least the required scopes are assigned (help documentation to enable technical authentication to [access the SAP Build Process Automation APIs](#)). If the scopes are not assigned, you can also [update the service instance](#) with the required scopes.

### Configure OAuth2ClientCredentias SAP Build Process Automation Destination (Service Instance)

Ignore this step if there is already a destination using SAP Build Process Automation service instance

created.

Create new destination to call SAP Build Process Automation APIs using a service route from SAP UI5 component. For more details, follow the help document:

<https://help.sap.com/viewer/cca91383641e40ffbe03bdc78f00f681/Cloud/en-US/685f383cebb54c009b2fac633b32c90f.html>.

Destination Configuration Blank Template Service Instance

Service Instance: \* sap\_processautomation

Name: \* process\_atuomation\_service\_destination

Description: Call SAP Process Automation APIs using a service route

Additional Properties New Property

Next Cancel

Destination Configuration

Name: \* process\_automation\_service\_destination

Type: HTTP

Description: Call SAP Process Automation APIs using a s...

URL: \* https://sap.com/DUMMY\_URL

Proxy Type: Internet

Authentication: OAuth2ClientCredentials

Use mTLS for token retrieval

Client ID: \* sb-... I9...

Client Secret: \*\*\*\*\*

Token Service URL Type: \* Dedicated Common

Token Service URL: \* https://... ..

Token Service User: .....

Token Service Password: .....

Additional Properties

endpoints	{ "api": "https://..." }	
html5-apps-...	{ "app_host_id": "..." }	
saasregistry...	true	
sap.cloud.s...	com.sap.spa.process...	
sap.cloud.s...	spa	

Use default JDK truststore

Save Cancel

## Configure SAP Workflow Management

Follow the setup and configuration section of SAP Workflow Management.

<https://help.sap.com/viewer/6f55baaf330443bd8132d071581bbae6/Cloud/en-US/d7910e2bf7f64afc9d0eb21b0cc9e84d.html>

Note: While creating the service instance for Workflow service, make sure that at least the following scopes are assigned (help documentation to [enable technical authentication](#) to access the workflow APIs). If the scopes are not assigned, you can also [update the service instance](#) with the following scopes.

- WORKFLOW\_INSTANCE\_GET
- WORKFLOW\_INSTANCE\_START
- WORKFLOW\_INSTANCE\_CANCEL

## Configure Workflow Email Destination

Configure workflow email destination to automatically send email notification to the involved parties. For more information on configuring the destination, see [configure workflow email destination](#).

## Configure OAuth2ClientCredentials Workflow Destination

Use an existing or create a new Workflow service instance with at least the following authorities (scopes):

WORKFLOW_INSTANCE_START
WORKFLOW_INSTANCE_GET

Please refer to the documentation on how to [Enable Technical Authentication](#) with specific authorities. Configure a destination with the following parameters:

Name	Workflow
Type	HTTP
Proxy Type	Internet
Authentication	OAuth2ClientCredentials
URL	https://api.workflow.<region-host>.hana.onedemand.com/workflow-service/rest
Client ID	*****
Client Secret	*****
Token Service URL	<"uaa":'url"/>/oauth/token

Please refer help documentation -> how to get URL, Client ID , Client Secret and Token Service URL [Determine Service Configuration Parameters](#)

For more information refer to how to create a HTTP destination-> [Create HTTP Destinations](#) and how to use Workflow APIs-> [Using Workflow APIs s](#)

## Configure OAuth2ClientCredentials Business Rules Destination

Business Rules destination with the following parameters:

Name	BUSINESS_RULES
Type	HTTP
Description	
URL	https://bpmrulesruntime.<region-host>.hana.onedemand.com/rules-service

Proxy Type	Internet
Authentication	Oauth2ClientCredentials
Use MTLS for token retrieval	Not checked
Client ID	<clientid>
Client Secret	<clientsecret>
Token Service URL Type	Dedicated
Token Service URL	<uaa.url>/oauth/token
Token Service User	
Token Service Password	

Please refer help documentation Please refer help documentation -> how to get URL, Client ID , Client Secret and Token Service URL [Determine Service Configuration Parameters](#)

For more information refer to how to [Create HTTP Destinations](#) [Determine Service Configuration Parameters](#) [Access Business Rules Capability APIs Using OAuth 2.0 Authentication \(Client Credentials\)](#)

#### Configure Destination to Enable Start & Step Conditions

To enable the usage of start conditions and step conditions on a process variant, create a destination for business rules with the configuration as mentioned in the following help document:

[Configure SAP Workflow Management Destinations](#)



## Configure OAuth2ClientCredentials Workflow Destination (Service Instance)

Ignore this step if there is already a destination using Workflow service instance created.

Create new Destination from the workflow service instance to call Workflow APIs using a service route from SAP UI5 Component. For more details, follow the official help document: [Destinations Pointing to Service Instances](#)

## Configure a Destination to SAP S/4HANA system

Create a destination to connect to SAP S/4HANA in the tenant where you have subscribed to SAP Workflow Management.

Configure a destination with the name as "S4HANA", with Type as HTTP, Proxy Type as Internet, URL as hostname of your SAP S/4HANA, and authentication as BasicAuthentication.

Please refer to [Create HTTP Destinations](#)

Name	S4HANA
Type	HTTP
Description	S/4 HANA Cloud tenant for LP content
URL	https://****api.s4hana.ondemand.com
Proxy Type	OnPremise
Authentication	Basic Authentication
User	*****
Password	*****

Additional Property	Value
sap-client	<client number of the backend>
HTML5.DynamicDestination	true
WebIDEEnabled	true
WebIDEUsage	ui5_execute_abap,odata_gen,odata_abap,dev_abap,bsp_execute
WebIDESystem	<id of the backend system>

## Configure Cloud Integration Destination

To call an integration flow, a HTTP destination is required in the SAP BTP tenant where the SAP Build Process Automation or SAP Workflow Management is subscribed. Create a destination called CPI with either Basic Authentication **or** OAuth2ClientCredentials.

### Destination with Basic Authentication

Name	CPI
Type	HTTP
Proxy Type	Internet
Authentication	Basic Authentication
URL	<runtime.url>
Username	<user>
Password	<password>

Note: For the UI application Asset Retirement, Destination of Basic Auth. Is needed.

### Destination with OAuth2ClientCredentials Authentication

Name	CPI
Type	HTTP
Proxy Type	Internet
Authentication	OAuth2ClientCredentials
URL	<runtime.url>
Client Id	<client ID>
Client Secret	<client secret>
Token Service URL	<oauth.url.for.clientCredentials>

## Configure Cloud Connector

For SAP S/4HANA on-premise landscape, configure cloud connector to enable secure tunnel to SAP BTP tenant. Please refer the help documentation to [configure Cloud Connector](#).

Services/Resources that need to be exposed from SAP S/4HANA on-premise using Cloud Connector are as mentioned below:

Resource	Protocol	Use
EAM_OBJPG_TECHNICALOBJECT_SRV	HTTP	Fetch Equipment, work order, list of notification, maintenance plans details
EAM_OBJPG_MAINTNOTIFICATION_SRV	HTTP	Fetch the notification details
ZARTWF_ALM_NOTIF_CHANGEUSRTA	RFC	Used to change the notification user status
BAPI_ALM_NOTIF_CLOSE	RFC	Closing the Notification

ZARTWF_BAPI_ALM_NOTIF_CREATE	RFC	Create Maintenance Notification
IBAPI_EQUI_SET_INACTIVE	RFC	Deactivate Equipment
BAPI_ALM_ORDER_MAINTAIN	RFC	Deactivate Work Order
MPLAN_DEACTIVATE	RFC	Deactivate Maintenance Plan
TH_GET_VIRT_HOST_DATA	RFC	Fetch Host and port of SAP S/4HANA system
ZARTWF_FIAA_NBV_SHOW	RFC	Get Asset NBV
ZARTWF_ALM_NOTIF_CHANGEUSRSTA	RFC	Used to change the notification user status to REJC
BAPI_ASSET_RETIREMENT_POST	RFC	Retire the Asset

## Configure RFC Destination

Configure a RFC destination to connect with SAP S/4HANA on-premise. Below is a destination configuration for SAP S/4HANA on-premise

Note: This destination is required by Cloud Platform Integration.

Name	<RFC_DESTINATION_NAME>
Type	RFC
Proxy Type	OnPremise
User	<ONPREMISE_USER>
Password	<ONPREMISE_PASSWORD>
Repository User	<ONPREMISE_USER>
Repository Password	<ONPREMISE_PASSWORD>

jco.client.ashost	<host name configured in cloud connector>
jco.client.client	<client number>
jco.client.lang	<system language>
jco.client.sysnr	<system number>

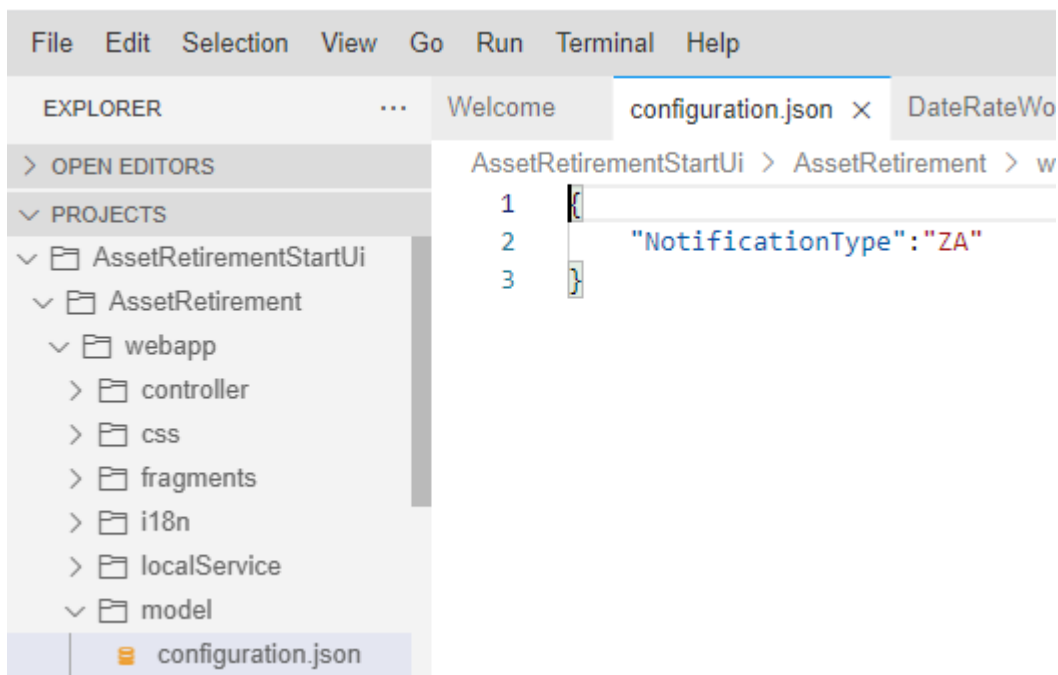
## Configure SAP Central Fiori Launchpad Site for SAP Workflow Management

If you plan to use SAP Launchpad service, then configure [SAP Central Fiori Launchpad Site with Workflow Applications](#) using help documentation

## Importing Workflow Start UI Source Code

The Manage Asset Retirement process content package requires a SAPUI5 application in order to initiate the asset retirement. The UI application is automatically deployed in the SAP BTP tenant when the content package is imported.

To make changes to the UI application to suit any requirement (for example, to support a notification type that is different from the default - ZA), the source code of the SAPUI5 application can be downloaded from the sources tab of the Manage Content Package application. Once the source code is imported into SAP Business Application Studio or SAP WEB IDE, the changes can be performed and deployed to the SAP BTP tenant. Ex, the Notification type is maintained in the configuration.json as shown below.

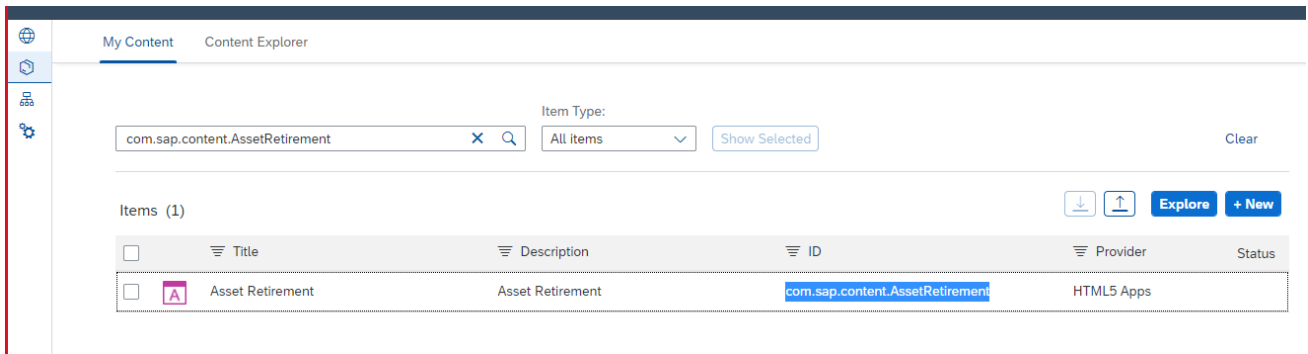


The screenshot shows the SAP Business Application Studio interface. The Explorer view on the left displays the project structure for 'AssetRetirementStartUi', including folders for 'webapp', 'controller', 'css', 'fragments', 'i18n', 'localService', and 'model'. The 'configuration.json' file is selected in the Explorer. The Editor view on the right shows the content of 'configuration.json' with the following code:

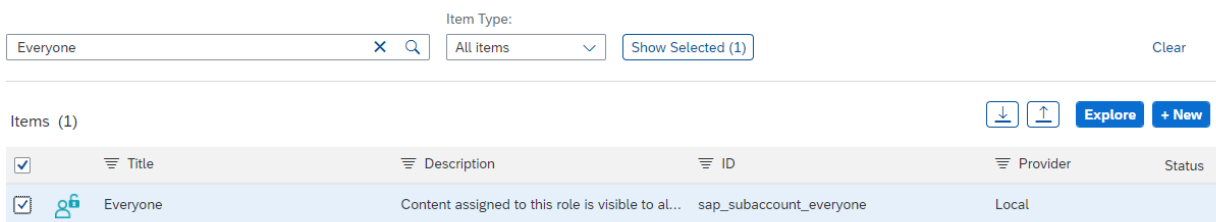
```
1 {  
2   "NotificationType": "ZA"  
3 }
```

## Add Custom UI Application (as Workflow Start UI) in Fiori Launchpad Site

- Open SAP Launchpad site manager application.
- Select Content Manager and Content Explorer.
- Search com.sap.content.AssetRetirement and select SAP UI5 component.
- Click Add to My Content button to include the UI5 component.



- Select My Content tab and search Everyone.
- Click Everyone from the result and navigate to the details.



Click Edit button to enable all users to access the new Start UI tile.

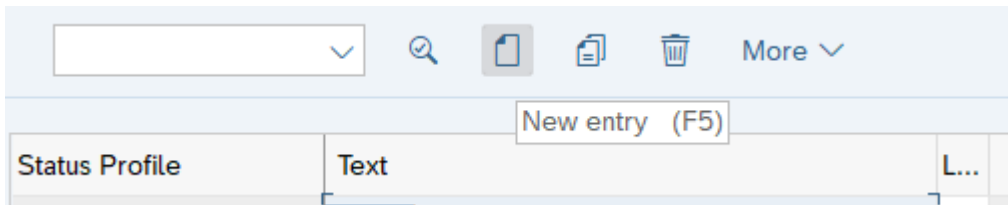
- In Assignments section on right, search for text info and select Asset Retirement from the Results.
- Click the + button and click Save.
- Under My Content tab, click New button and select Group.
- Add a Title for e.g.: Asset Retirement under PROPERTIES.
- In the Assignments section on right, search for text info and select Asset retirement from the Results.
- Click + button and Save button.

Please refer help documentation to know more about [Create Custom Start UI Tiles on the Central Launchpad](#)

## Configure Status Profile & Notification User Status

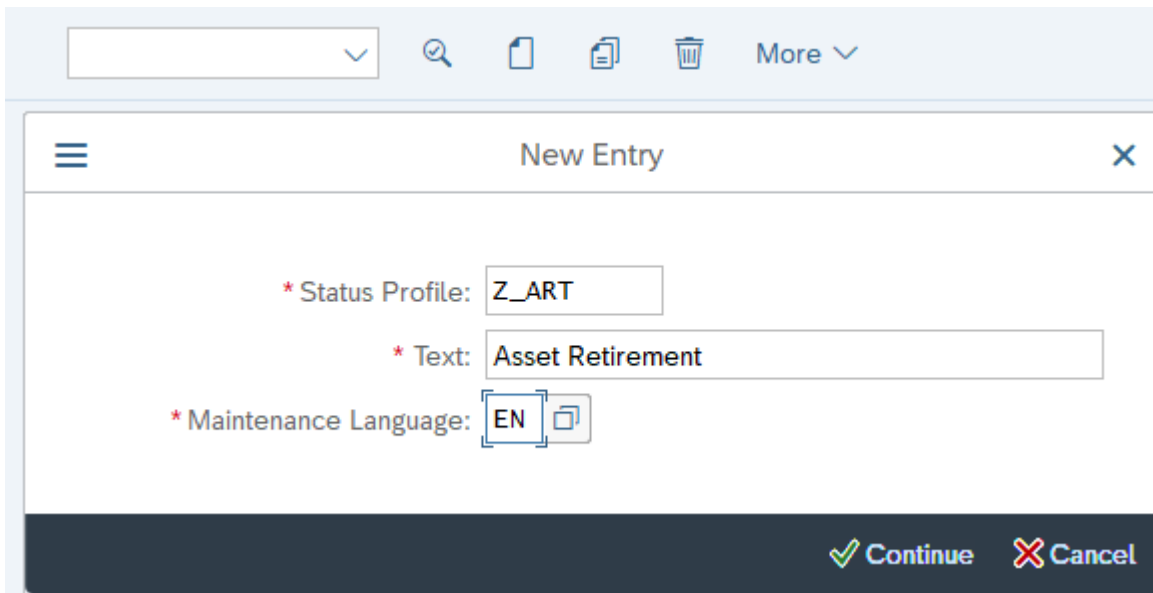
Perform the following actions in SAP S/4HANA to create the status profile and notification user status.

1. Go the transaction OK02.
2. Press the “New entry” from the Menu.

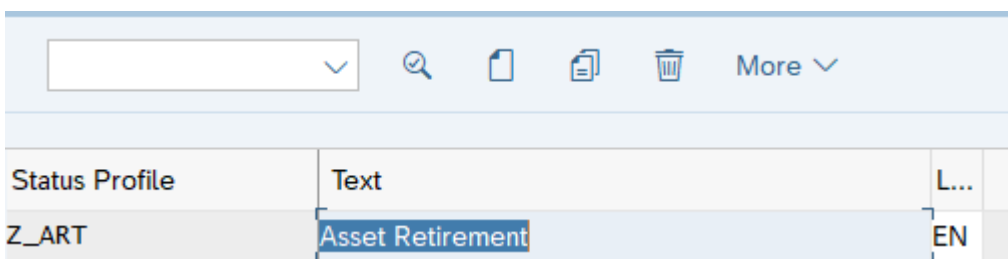


3. Provide the Status Profile as **Z\_ART**, Text and Maintenance Language. Click Continue

*Note: The status profile is later used in the function module ZARTWF\_ALM\_NOTIF\_CHANGEUSRSTA.*



4. Double click on the entry



5. Enter the Status number, Status and Short description along with Lowest status number, Highest Status number, Position and Priority.

*Note: These user statuses are used in the function modules created in the next section. The*

approval level user statuses are used in the process variant as a step property (refer to the configuration guide for this content package).

Object Types More

Status Profile:  Asset Retirement

Maintenance Language:  English

**User Status**

Status...	Status	Short Text	Long t...	Init. status	Lowest st...	Highest S...	Position	Priority	Auth. code
1	INTL	INITIAL	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	6	1	1	
2	SUBM	SUBMITTED	<input type="checkbox"/>	<input type="checkbox"/>	1	6	1	1	
3	LVL1	OPRCON_APPR (OPERATIONA...	<input type="checkbox"/>	<input type="checkbox"/>	1	6	1	1	
4	GEOM	GEOMKT_APPR	<input type="checkbox"/>	<input type="checkbox"/>	1	6	1	1	
5	SEGC	SEGCON_APPR	<input type="checkbox"/>	<input type="checkbox"/>	1	6	1	1	
6	FINC	FINCON_APPR	<input type="checkbox"/>	<input type="checkbox"/>	1	6	1	1	
7	SEGP	SEGPRE_APPR	<input type="checkbox"/>	<input type="checkbox"/>	1	7	1	1	
8	REJC	REJECTED	<input type="checkbox"/>	<input type="checkbox"/>	1	8	1	1	
9	APPR	APPROVED	<input type="checkbox"/>	<input type="checkbox"/>	1	9	1	1	
10	CMPL	COMPLETED	<input type="checkbox"/>	<input type="checkbox"/>	1	10	1	1	
11	EROR	ERROR	<input type="checkbox"/>	<input type="checkbox"/>	1	11	1	1	

- Save the entry.
- Assign Object Type by press the Yes.

Status Profile:  Asset Retirement

Maintenance Language:  English

**User Status**

**Assign Object Type**

No valid object types assigned to this status profile yet.

Do you want to assign now?

Position	Priority	Auth
1		
1		
1		
1		
1		
1		
1		

- Click the Object Types. Then Save the entry.

User Status More ▾

Status Profile:  Asset Retirement

**Allowed Object Types**

X	Obj. Type	
<input checked="" type="checkbox"/>	Equipment	
<input checked="" type="checkbox"/>	Equipment (Deployment Status)	
<input checked="" type="checkbox"/>	Equipment (Technical Status)	
<input type="checkbox"/>	Equipment (Logistics)	

9. Provide the Transport request number and continue.



# Configure Custom Function Modules

## Create Function Group

Create a Custom Function group 'ZSWW\_SRV' and save it to a package and transport request. Use this package and transport request in the next sections in creating function modules.

## Create Remote Enabled Function Module for Creation of Notification 'INTL'

1. Go to the transaction SE37.
2. Create an RFC enabled function module ZARTWF\_BAPI\_ALM\_NOTIF\_CREATE and Provide the Function group as ZSWW\_SRV and the short description.
3. Save it.
4. Assign the Importing parameters.

Parameter Name	Typing	Associated Type	Pass by Value	Short text
NOTIF_TYPE	TYPE	QMART	Yes	Notification Type
NOTIFHEADER	TYPE	BAPI2080_NOTHDRI	Yes	BAPI Service Notification Header for creation

5. Assign the Exporting parameters.

Parameter Name	Typing	Associated Type	Pass by Value	Short text
NOTIFHEADER_EXPORT	TYPE	BAPI2080_NOTHDRE	Yes	BAPI Service Notification Header
MAINTACTYTYPE_EXPORT	TYPE	ILA	Yes	Maintenance activity type
ET_MESSAGE	TYPE	BAPI_MSG	Yes	Message Text
Y_DB_UPDATE	TYPE	REGEN-DB_UPDATE	Yes	Database updated (x) or not (SPACE)

Copy the code snippet from SAP Note 3157262 and paste it in the Source code section of the Function Module ZARTWF\_BAPI\_ALM\_NOTIF\_CREATE. Then Save and Activate it.

## Create Remote Enabled Function Module to get the Net Book Value

1. Go to the transaction SE37.
2. Create an RFC enabled function module Create an RFC enabled function module ZARTWF\_FIAA\_NBV\_SHOW and Provide the Function group as ZSWW\_SRV and the short description.
3. Save it.
4. Assign the Importing parameters.

Parameter Name	Typing	Associated Type	Pass by Value	Short text
I_BUKRS	TYPE	BUKRS		Company Code
I_AFABE	TYPE	AFABE		Real depreciation area
I_BZDAT	TYPE	BZDAT		Asset Value Date
I_DIALOG	TYPE	ANUPD		Indicator: Type of change to table
I_ANLN1	TYPE	ANLN1		Main Asset Number
I_ANLN2	TYPE	ANLN2		

5. Assign the Exporting parameters.

Parameter Name	Typing	Associated Type	Pass by Value	Short text
E_NBV	TYPE	KANSW	Yes	Cumulative Acquisition and Production Costs
Y_DB_UPDATE	TYPE	REGEN-DB_UPDATE	Yes	Database updated (x) or not (SPACE)
EXCEPTION_REASON	TYPE	BAPIRET2	Yes	Message Text
CURR_KEY	TYPE	WAERS	Yes	Currency Key
ET_MESSAGE	TYPE	BAPI_MSG	Yes	Message Text

Copy the code snippet from SAP Note 3157262 and paste it in the Source code section of the Function Module ZARTWF\_FIAA\_NBV\_SHOW. Then Save and Activate it.

Once the Asset Retirement request has been created then further it will go for submission and update the status of Asset and Status of Notification to Submitted (SUBM) by calling an RFC Enabled Function Module BAPI\_ALM\_NOTIF\_CHANGEUSRSTAT. After successful submission it will go for multiple Approvals. Here define the multiple Approvals Levels and Approver Agent Id in the Workflow. After successful approval, corresponding user status maintained is updated in SAP S/4HANA by making an integration flow call to BAPI\_ALM\_NOTIF\_CHANGEUSRSTAT.

## Create Remote Enabled Function Module to Change the Notification Status 'SUBM'

1. Go to the transaction SE37.
2. Create an RFC enabled function module Create an RFC enabled function module ZARTWF\_ALM\_NOTIF\_CHANGEUSRSTA and Provide the Function group as ZSWW\_SRV and the short description.
3. Save it.
4. Assign the Importing parameters.

Parameter Name	Typing	Associated Type	Pass by Value	Short text
NUMBER	TYPE	QMNUM	Yes	Notification Number
USR_STATUS	TYPE	BAPI2080_NOTUSRSTATI	Yes	BAPI Service notification user status

5. Assign the Exporting parameters.

Parameter Name	Typing	Associated Type	Pass by Value	Short text
SYSTEMSTATUS	TYPE	BAPI2080_NOTADT-SYSTATUS	Yes	System Status for Notification
USERSTATUS	TYPE	BAPI2080_NOTADT-USRSTATUS	Yes	Field displaying user status
Y_DB_UPDATE	TYPE	REGEN-DB_UPDATE	Yes	Database updated (x) or not (SPACE)
ET_MESSAGE	TYPE	BAPI_MSG	Yes	Message Text

Copy the code snippet from SAP Note 3157262 and paste it in the Source code section of the Function Module ZARTWF\_ALM\_NOTIF\_CHANGEUSRSTA. If the status profile is different than Z\_ART, then the same needs to be updated in the function module for the variable lc\_z\_art. Then Save and Activate it.

After Submit the request a Workflow will gets trigger, and it will go for multiple Approvals. If Approver rejects the request, then update the status of Asset and Status of Notification to Rejected (REJC) by calling an RFC Enabled Function Module BAPI\_ALM\_NOTIF\_CHANGEUSRSTAT. This process is defined in the Integration Flow.

## Create Remote Enabled Function Module to Change the Notification Status 'REJC'

1. Go to the transaction SE37.
2. Create an RFC enabled function module Create an RFC enabled function module ZARTWF\_ALM\_NOTIF\_CHANGEUSRSTA and Provide the Function group as ZSWW\_SRV and the short description.
3. Save it.
4. Assign the Importing parameters.

Parameter Name	Typing	Associated Type	Pass by Value	Short text
NUMBER	TYPE	QMNUM	Yes	Notification Number
USR_STATUS	TYPE	BAPI2080_NOTUSRSTATI	Yes	BAPI Service notification user status

5. Assign the Exporting parameters.

Parameter Name	Typing	Associated Type	Pass by Value	Short text
SYSTEMSTATUS	TYPE	BAPI2080_NOTADT-SYSTATUS	Yes	System Status for Notification
USERSTATUS	TYPE	BAPI2080_NOTADT-USRSTATUS	Yes	Field displaying user status
Y_DB_UPDATE	TYPE	REGEN-DB_UPDATE	Yes	Database updated (x) or not (SPACE)
ET_MESSAGE	TYPE	BAPI_MSG	Yes	Message Text

Copy the code snippet from SAP Note 3157262 and paste it in the Source code section of the Function Module ZARTWF\_ALM\_NOTIF\_CHANGEUSRSTA. Then Save and Activate it.