Integration Guide

SAP Build Process Automation Integration with SAP S/4HANA to Manage Asset Retirement

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Overview

This document provides information about setting up the SAP Business Technology Platform account to consume the live process content package "**Manage Asset Retirement**". The main audience of this document are technical IT/system administrators.
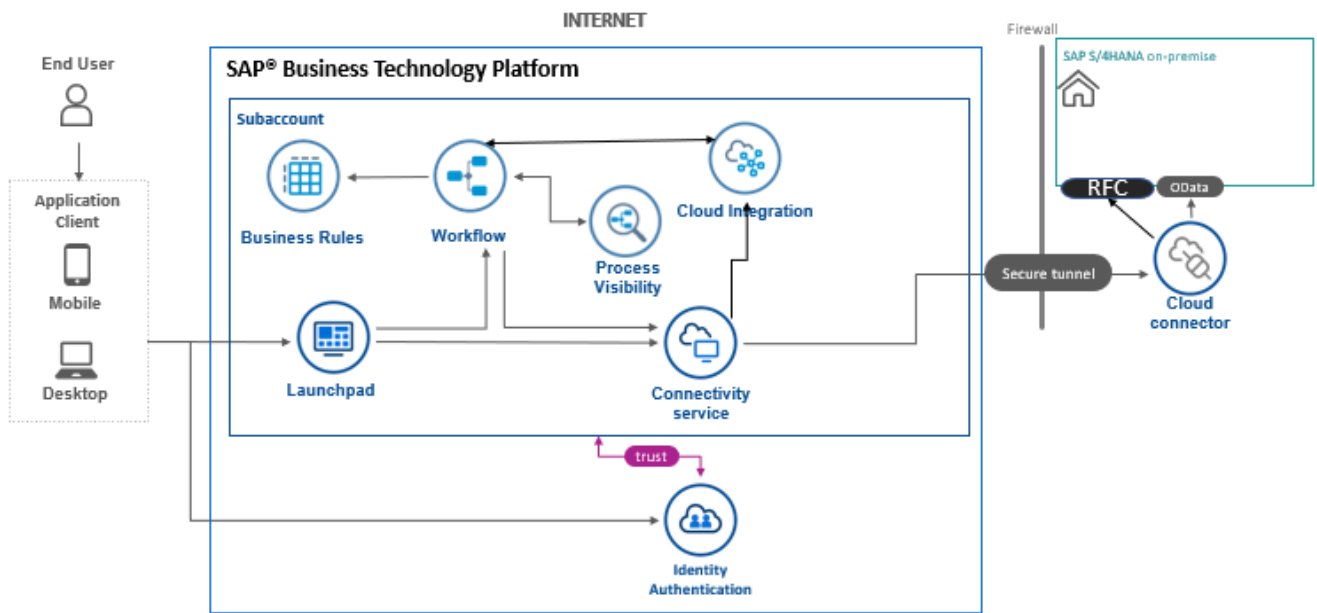
Manage Asset Retirement enables the customer to automate the deactivation of equipment, work orders, notifications, maintenance plans and retirement of asset. Notification requests for asset retirement is created from an UI5 application, post which is submitted for approval. After all the approvals are 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 the content package are:

- 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 no approvers are determined.
- Provision for exception handling with the help of Out-Of-Box features of My Inbox.
- Exception handling during the Deactivation 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.

Solution Architecture

Required SAP Business Technology Platform Services

The workflow content packages **Manage Asset Retirement** is intended to be used for SAP S/4HANA 1610 on-premise and requires the following services in SAP BTP:

- 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 WEB IDE to modify/deploy the SAPUI5 applications. (optional)
- SAP BTP, Cloud Foundry runtime.

Setup and Configuration

This section will explain how to setup the integration content that is required for the live process content package **Manage Asset Retirement.**

Configure RFC Destination

Configure an 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 for SAP Cloud Integration. **If the below mentioned Destination name is changed, then the integration flow needs to be configured accordingly.**

Name	S4URFC
Type	RFC
Proxy Type	OnPremise
User	<ONPREMISE_USER>
Password	<ONPREMISE_PASSWORD>
Repository User	<ONPREMISE_USER>
Repository Password	<ONPREMISE_PASSWORD>

Additional Properties	jco.client.ashost: <host>
Additional Properties	jco.client.client:<client number>
Additional Properties	jco.client.lang
Additional Properties	jco.client.sysnr:

[Optional] 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
BAPI_ASSET_RETIREMENT_POST	RFC	Retire the Asset

Import, configure and deploy cloud integration content

This live process content **Manage Asset Retirement** requires the cloud integration package SAP Build Process Automation Integration with SAP S/4HANA to Manage Asset Retirement for retiring the asset. The integration content package SAP Build Process Automation Integration with SAP S/4HANA to Manage Asset Retirement is available in SAP API Business hub. Integration models use Function Modules/BAPI'S to integrate with SAP S/4HANA. The following integration models are available in this package.

1. Create Maintenance Notification
2. Deactivate Equipment
3. Deactivate Work Order
4. Fetch Host and port of SAP S/4HANA system
5. Deactivate Maintenance Plan
6. Get Asset NBV
7. Retire the Asset
8. Close Maintenance Notification
9. Change Notification User Status

Import the integration package to your SAP Cloud Integration tenant. To be able to import and deploy integration flows, you need the role AuthGroup.IntegrationDeveloper (in Neo environment) or PI_Integration_Developer (in cloud foundry environment) assigned in your tenant.

Import pre-packaged Integration content in SAP Integration Suite

- Access your SAP Integration Suite tenant management node (https://<integrationtenant> /itspaces).

- View all pre-packaged integration flow under Discover->Integration. (https://<integrationtenant>/itspaces/shell/discover)

- Search content package "SAP Build Process Automation Integration with SAP S/4HANA to Manage Asset Retirement ".

- Click on the package SAP Build Process Automation Integration with SAP S/4HANA to Manage Asset Retirement .

- Click Copy to import the Integration content package to your workspace.

RFC Adapter Configuration

- Open the integration model "Change Notification User Status".
- Click Configure button, choose the appropriate receivers and set the respective RFC destination name that was previously created.

- Click on Save and deploy.
- Follow the same approach for all other integration models.