Perfect data is perfectly possible with Utopia.

User Help Guide for SAP Asset Information Workbench (AIW) by Utopia for S/4HANA

Release 1.0

Document History

The following table provides an overview of the most important document changes and approvals.

Version	Date	Description	Name
1.0	22/09/2017	Final version	Manik Choudhary

Table of Contents

SAP Asset Information Workbench by Utopia

SAP Asset Information Workbench (AIW) provides an easy-to-use interactive governance platform for monitoring, tracking and managing structured and unstructured asset data among multiple systems-of-record in the digital core. It allows processing of structured and unstructured asset master data change management efficiently.

In addition, it can be used to request, approve, and execute changes to the following Enterprise Asset Management objects in Mixed Multi-Object scenario, and in a specific Change Request.

- Functional Location
- Equipment Master
- MRO Bill of Material (MRO BOM)
- Measuring Point
- Work Center
- Task List (General, Functional Location, Equipment)
- Maintenance Plan / Item

Features

AIW supports the following features:

- Mixed Multi-Object Change Request (MOCR)
- Copy of Functional Location Mixed Multi-object hierarchy
- Mass processing of Functional Location Mixed Multi-object hierarchy
- Hierarchy View
- Full Hierarchy

Mixed Multi-Object Change Request (MOCR)

The MOCR allows to create or change the mixed multiple records of different objects through Workbench in one session, as opposed to separate Change Requests per object in UGI EAM 730-SP01. This feature allows to handle mixed multi-object hierarchy efficiently. In addition, Workbench allows to search data from staging area (within change Request) and from the active area.

Group Id is used to link different MOCRs in a group. This concept supports sequential workflow. The parent Change Request number remains the group id for the active and the subsequent sequential Change Requests.

Inheritance is taken care of on the MOCR screen for Functional Location and Equipment for inherited fields.

Search and Hierarchy Processing

Multiple search options are provided to enable the users to choose Change Request types (Serial/Parallel) for copy Hierarchy and Mass processing execution. It will enable users to choose Change Request type before proceeding with execution. You can choose either of the following options available for "AIW: Search & Hierarchy Processing":

- Choose "Search & AIW Hierarchy Processing" option to select a specific Change Request type from the list of Change Requests.
- Choose "Search & AIW Hierarchy Processing (Parallel Approval)" option to Select Change Request type for Parallel Approval workflow.

- Choose "Search & AIW Hierarchy Processing (Serial Approval)" option to Select Change Request type for Serial Approval workflow.

Copy of FLOC Mixed Multi-Object Hierarchy

The source hierarchy can be copied by providing target New Location for Functional Location hierarchy. User can copy the entire Functional Location hierarchy with its objects attached to this hierarchy like Equipment, MRO BOM, Measuring Point, Task List, Maintenance Plan and Maintenance Item to a new Functional Location hierarchy.

The deleted or inactive objects does not show in the hierarchy list.

Inheritance is taken care on the Copy Hierarchy popup for inherited fields.

Mass Processing of FLOC Mixed Multi-Object hierarchy

It allows to process Mass changes by selecting the Functional Location hierarchy. User can search for a FLOC hierarchy and perform Mass changes to the complete structure in a single Change Request.

Hierarchy View

Single UI to view complete hierarchy of the objects and movement of objects via Drag and Drop in a Change Request.

Full Hierarchy

User can view all the hierarchy that exists in the system. It allows to move a hierarchy or part of hierarchy to adjust different hierarchies effectively.

Additional Enhancements

The following additional enhancements are discussed in the following section:

- Workflow
- E-mail Notifications
- Inheritance

Workflow

Influence the approval process by selecting different types of workflow. It is also possible to select 3 types of workflow like

- Parallel: Workflow Tasks needs to be executed in parallel
- Serial: Workflow Tasks needs to be executed one by one
- Sequential: Changes Requests is going to be processed Sequential. The Workflow for these Change Requests is going to be either Parallel or Serial.

E-mail Notifications

The Email functionality allows to execute and approve work items from external mail box. The work items will be delivered to an external mail out and user can execute and approve work items by clicking to the hyperlink.

A default e-mail will appear in the default e-mail sending client of your computer. It is possible to adapt all content except the link before sending the e-mail.

Utopia has provided 6 predefined e-mail templates, which can be adapted by the user:

E-mail Template	Purpose
/UGI7/EAM_SWN_SUBJECT_PROCES	Subject of the e-mail notification used in workflow step type 'Process / Approve'
/UGI7/EAM_SWN_SUBJECT_PROCE_REJ	Subject of the e-mail notification used in workflow step type 'Revise'
/UGI7/EAM_SWN_SUBJECT_SEQCR	Subject of the e-mail notification used in Sequence launch of CR.
/UGI7/EAM_SWN_BODY_PROCESS	Email content used in workflow step type 'Process / Approve'
/UGI7/EAM_SWN_BODY_PROCE_REJ	Email content used in workflow step type 'Revise'
/UGI7/EAM_SWN_BODY_SEQCR	Email content used in sequence launch of MOCR

These default templates are attached to the Change Request type and workflow steps.

Inheritance

It allows to inherit attributes from superior to lower level objects within a Functional Location hierarchy and Equipment hierarchy. Within MOCR, Inheritance is supported from superior Functional Location to the subordinate Functional Location; from superordinate Equipment to the subordinate Equipment.

The following will support the inheritance

- Hierarchical Data Transfer: While creating new Functional Location in AIW, system derives data from superior to subordinate by clicking the check button.
- System tries to find superior from Label. While creating a Functional Location or reference Functional Location, the system tries to determine the superior location from the label and spontaneously derives this in the master record for the new location. In AIW, the system determines superior Functional Location from label and level. During creation of new multiple Functional Location hierarchy, system reads the label and level from the superior within hierarchy and derives its superior functional location automatically and inherit all attributes of Superior Functional Location.

POWL for AIW

POWL is referred as Personal Object Work List or Personal Object Work Entity Repository List (POWER List). It is a Web Dynpro based portal window that allows user to access different applications specific to his assigned roles. POWL provides an easy-to-use interactive governance platform with query driven work list that contains object from user's work area.

POWL for AIW Overview

As a business user, POWL provides a general overview of the work environment and all related business objects. POWL serves as a central point for accessing, managing, and tracking your object-related tasks.

POWL supports the following features:

- Query based Work List
- Processing of Mixed Multi-Object Change Request (MOCR)
- Processing of objects linked with different Change Request

The following functionalities are supported through POWL for each work items:

- Approve
- Activate
- Activate & Launch New MOCR
- Reject
- Resubmit
- Withdraw
- Forward
- Resubmit On
- Assign to Me
- Maintain Substitution

List of EAM Objects supported by POWL:

- Functional Location
- Equipment
- MRO Bill of Material
- Measuring Point
- Work Center
- General Task List
- Equipment Task List
- Functional Location Task List
- Maintenance Plan/Item

Query based Work List

POWL provides a predefined criterion for listing Work items. The need for user defined work list has led to development of POWL. It focuses on having a pre-defined query which user can change or adapt. Based on the query, objects are listed in the work items. This gives user the flexibility for repetitive work or periodic tasks. The following list are the query criteria supported by POWL:

- Query Criteria Maintenance
  - New and In Progress Work Items
  - Work Items for Resubmission
  - Completed Work Items
- Task ID
- Status
- High Priority
- Sent Date

Mixed Multi-Object Change Request (MOCR)

MOCR allows to create or change the mixed multiple records of different objects through AIW in one session, as opposed to separate Change Requests per object. This feature allows to handle mixed multi object hierarchy efficiently. Once the MOCR is created through AIW it can be processed further through POWL as well. All Objects of the MOCR will be available in POWL screen as a separate line item in each tab under same Change Request.

If the user selects single work item from a MOCR, all objects created/updated in the MOCR are reflected in POWL screen in their respective sections from where it can be processed further.

Multiple Change Request

Work item of more than one Change Request can also be selected for processing. Each object is available in their respective object sections as a separate line item in each tab under different Change Request.

All objects that belong to different Change Requests should be in the same status for processing of multiple objects. Otherwise, the system displays an error message "Work items does not belong to the same action".

Object views in POWL window

Each Object supported by POWL is divided in different sections, which displays the details of respective work items selected in work list. Object attributes are further divided into different tabs based on their features. The following is a list of different objects and their sections.

- Functional Location
    - o Functional Location: General Data
    - o Functional Location: LAM Attributes
    - o Functional Location: Class Assignment
    - o Functional Location: Characteristics Assignment

- Equipment
    - o Equipment: General Data
    - o Equipment: LAM Attributes
    - o Equipment: Class Assignment
    - o Equipment: Characteristics Assignment

- MRO Bill of Material
    - o Material BOM: Header
    - o Material BOM: Item Overview

- Measuring Point
    - o Measuring Point: General Data
    - o Measuring Point: LAM Attributes
    - o Measuring Point: Class Assignment
    - o Measuring Point: Characteristics Assignment

- Work Center
    - o Work Center: Basic Data
    - o Work Center: Costing
    - o Work Center: Capacities Overview

- General Task List
    - o General Task List: Header
    - o General Task List: List overview
    - o General Task List: Operations

- Equipment Task List
    - o Equipment Task List: Header
    - o Equipment Task List: List overview
    - o Equipment Task List: Operations

- Functional Location Task List
    - o Functional Location Task List: Header
    - o Functional Location Task List: List overview
    - o Functional Location Task List: Operations

- Maintenance Plan
    - o Maintenance Plan: Basic data
    - o Maintenance Plan: Cycle details
    - o Maintenance Plan: Item details

ⁱ Note

Refer to How-To Guide for more information on POWL features.

Personal Object
Work List (POWL).pp