How-To-Guide SAP-OEE - To configure Weigh and Dispense functionality

Applicable Release: MII 15.1

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# SAP OEE How-To-Guide to configure Weigh and Dispense functionality

## Document History

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1 Introduction

1.1 Purpose
This document explains process to configure and enable Weigh and Dispense feature of SAP Overall Equipment Effectiveness (OEE).

1.2 Scope
This document will cover various configurations needed to setup weigh and dispense in SAPOEE on MII.

2 Feature Overview

2.1 Description and Applicability
Goods Issue is basically movement of materials within plant for manufacturing purpose. Goods Issue can be done in two ways from Goods Issue application of SAP-OEE.

- Specifying the quantity to be consumed manually and posting it to Enterprise Warehouse Management (EWM) system.
- Weighing the component and then posting the consumption to Enterprise Warehouse Management (EWM) system.

To post goods issue using Weigh and Dispense solution, the system needs to be configured and integrated with the Weighing Scale. Real time values will be shown on the Goods Issue screen from where operator can post goods movement to Enterprise Warehouse Management (EWM) system.

3 Feature Setup

3.1 Prerequisite:
MII-OEE 15.1 is installed and Goods Issue and Goods Receipt is configured in the system.

3.2 Configuration:

3.2.1 Weigh and Dispense UI Configuration:
Weigh and Dispense user exit is used to configure and plug-in a custom defined screen which can be used to weigh the component and then post goods movement to Enterprise Warehouse Management (EWM) system.

By default, Goods Issue application is configured to post the goods movement after entering quantity manually. Below screenshot shows the default behavior of Material Consumption screen of Goods Issue application.
After enabling weigh and dispense user exit, quantity cannot be posted directly from material consumption screen. Instead of Consume button, Weigh and Dispense button will be shown in footer bar. Custom screen is launched on click of this button.

For reference purpose, sample Weigh and Dispense UI files and supporting transactions are delivered as a part of standard solution. The files can be downloaded from MII Workbench. These files can be modified based on the use cases and these should only be treated as reference to create custom weigh and dispense screen.
Download the WeighAndDispense.zip file from the workbench. Extract the zip file, it will contain following folders:

- Web: This folder contains weigh and dispense UI files i.e. SAP UI5 view and controller.
- W and D: This folder contains transactions to support various functions on UI screen.

### 3.2.1.1 Steps to configure sample Weigh and Dispense UI and Transactions:

1. Create a web project in MII Workbench and create a folder “customActivity” in WEB folder of the Project. In below example, a project “WeighAndDispense” is defined in MII Workbench. Import view and controller files inside the customActivity folder of the project.
II. After importing Web files, transactions should be imported to MII workbench. The UI files expect transactions to be in some specific folder location. To check or change the folder location of the transactions, open weighAndDispense.controller.js file and search for keyword “queryTemplate”. This is the path where transactions should be imported in the workbench. The path can be updated in the complete controller file with the path where you are importing the transactions.
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By default, UI files expects transaction to be in location “Default” location. To avoid path changes in controller file, W and D folder should be imported to “Default” project location as shown in below screenshot.
3.2.2 OEE Configurations to enable Weigh and Dispense:
To setup Weigh and Dispense in Goods Issue Application, “Application Launchpad” dashboard should be assigned to the logged in user.

1. Go to General Configuration Screen and navigate to “Dashboard Assignment” tab. Assign Application Launchpad to the work center for which you want to perform Goods Issue.
2. Go to “Customization Configuration” tab of General Configuration screen and mark customization “Goods Issue: Enable Weigh & Dispense User Exit” as Yes.

3. Open Activity Configuration screen to give path of Weigh and Dispense UI project. There are two activity options defined for Goods Issue Activity.

   - ACT_W_D_BULK - For Bulk Materials
   - ACT_W_D_HU - For HU Managed Materials

It is possible to define different Weigh and Dispense screens for HU and Bulk managed materials. The Activity Option should contain relative or absolute path of the UI project. You can

**Note:**
- Relative path of custom weigh and dispense screen should start from /XMII. For Example: /XMII/CM/WeighAndDispense/customActivity/weighAndDispense
- The activity option value should not contain files extensions like “.controller.js” or “.view.xml”.
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4. Open Application Launchpad from MII Home Page to check if dashboard is correctly assigned to the user and the work center.
5. Click on Goods Issue tile and select an order from Order List screen. After selecting an order, component list screen appears which shows all the components maintained for the selected order.
6. Select a component for which posting needs to be triggered to EWM system.
7. Material Consumption screen will be shown with the selected component. The quantity input field will be disabled because we have enabled Weigh and Dispense user exit and direct quantity posting will not be possible now.

Also, Weigh and Dispense button is shown as one of footer buttons. On Click of Weigh and Dispense button, custom weigh and dispense screen is launched.
Weigh and Dispense Screen:

4 Integration
Not Applicable

5 Links to Additional Information
http://help.sap.com/MII