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Document Version: 2308 – 2023-08-19

Getting Started Guide for Integration via Fleet Management Systems

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1 Getting Started with Integration via Fleet Management Systems

This tutorial guides you through the main steps for setting up and using SAP Warehouse Robotics integrated with robots via the integration with fleet management systems.

To view more detailed information about the steps, see the links provided.

Here are the main steps:

1. [Get Onboarded in the SAP BTP Cockpit](#)
2. [Prepare the Fleet Management System](#)
3. [Configure SAP EWM](#)
4. [Use SAP Warehouse Robotics](#)

1.1 Get Onboarded in the SAP BTP Cockpit

Before using SAP Warehouse Robotics, you need to perform the following steps in the SAP BTP cockpit:

1. Define a role collection and assign it to users.
There are three business roles for SAP Warehouse Robotics: warehouse clerk, business configuration expert, and robot administrator. For more information, see [Defining and Bundling Roles](#).
2. Configure the Cloud Connector to connect to an on-premise system, for example, SAP EWM.
3. Create HTTP destinations, for example, to connect to an SAP EWM system.

For more information, see the relevant how-to guide in SAP Note [3198030](#) .

1.2 Prepare the Fleet Management System

For a robot that is integrated with SAP Warehouse Robotics via a fleet management system, you need to prepare the fleet management system for the integration.

Perform the following steps in the fleet management system:

1. Develop an adapter or use the existing adapter from your robot vendor to communicate with the API of SAP Warehouse Robotics.
To ensure that the adapter can connect to SAP Warehouse Robotics, follow the specified guidelines on the development. For more information, see [Connection Guide for the Adapter for Fleet Management Systems](#).
2. Ensure that all storage bins and handling units (HUs) are from the warehouse management system, for example, SAP EWM.

1.3 Configure SAP EWM

The relevant configuration in SAP EWM includes, for example, defining the OData service and assigning OData service authorizations. To do this, implement SAP Note [3335287](#) for support packages lower than SAP S/4HANA 1909 SPS08 and SAP S/4HANA 2020 SPS06.

Implement the SAP Notes [3147663](#) and [3247030](#) for support packages lower than SAP S/4HANA 2021 SPS03.

To connect SAP Warehouse Robotics to an SAP EWM system, see the sections “Configure Cloud Connector” and “Create HTTP Destination” in the how-to guide *Onboarding of SAP Warehouse Robotics* in SAP Note [3198030](#).

1.4 Use SAP Warehouse Robotics

The following steps show an example of how you can configure and use SAP Warehouse Robotics for robots integrated with SAP Warehouse Robotics via fleet management systems:

1. Onboard robots.
 1. Open the *Onboard Robots - Fleet Management* app.
 2. Define fleet management systems.
 3. Define robots.
2. Configure your solution.
 1. Open the *Configure Your Solution* app.
 2. Create one or more warehouses.
 3. Define integration settings for the warehouse management system. For more information, see [Define EWM Integration Settings](#).
 4. Upload warehouse data. For more information, see [Upload Warehouse Data](#).
3. Define robot processes.
 1. Open the *Define Robot Processes - Fleet Management* app.
 2. Assign resources of your warehouse management system to robots.
 3. Define clarification bins to resolve destination bin errors in fleet management systems.
 4. Define robot processes.
4. Monitor robots.
 1. Open the *Monitor Robots* app.
 2. Check the warehouse order processing statuses, for example, the robot task statuses.
 3. If necessary, handle exceptions for robots.

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