



# Application Help for Edge

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SAP Digital Manufacturing | latest

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# Basic Functions

Once you have installed SAP Digital Manufacturing for edge computing, you can use the various APIs and cloud applications to perform different tasks.

Here are some of the things that can be achieved:

## 1. Cache master data at the edge

SAP Digital Manufacturing for edge computing can save and retrieve master data like materials and routings directly on the edge. See [Get Business Data Synchronized to Edge](#) for details.

## 2. Process transactions asynchronously at the edge

SAP Digital Manufacturing for edge computing allows you to process transactional API requests asynchronously at the edge, so you can continue working even when you're offline. The transactions get synchronized with the cloud once the connection is restored. See [Post Transactions to Cloud via Edge](#) for details.

## 3. Monitor edge transactions

You have the option to monitor transactions that occur at the edge. You can do this either through an edge API or a cloud application. See [Get Overview of Edge Transactions](#) and [Monitor Edge Transactions](#) for details.

## 4. Manage edge devices

SAP Digital Manufacturing for edge computing gives you the ability to manage the settings of the devices used for edge installation through a cloud application. See [Manage Edge Devices](#) for details.

## 5. Extensibility and integration

SAP Digital Manufacturing for edge computing can receive inbound calls from external systems, such as the Production Connector. It also can be easily integrated with your custom applications. This allows you to extend the functionality and tailor it to your unique requirements. See [Enable Production Connector to Invoke Edge Services, API Integration](#) and [UI Integration](#) for details.

In addition to edge APIs, SAP Digital Manufacturing for edge computing offers two cloud-based applications:

- **Manage Edge Devices:** This application provides a comprehensive overview of all edge devices that are registered with the tenant.
- **Monitor Edge Transactions:** With this application, you can monitor and track the status of all transactions relayed from edge to cloud. You also have the flexibility to retry any failed transactions at your convenience.

With modules, SAP Digital Manufacturing for edge computing also offers two edge-based applications on the landing page on the edge:

- **Cloud Connection Status:** You can check the connection status between cloud and edge with this application.
- **Monitor Production Processes:** You can monitor and track the execution status of edge processes and automation sequences of Production Connector on edge runtime in a specified period of time. You need to have deployed the **Automation** module group to use it. For details, see [Modular Deployment](#) and [Monitor Production Processes](#).

For information on accessing the edge landing page, see [Edge UI Applications](#).

# Introduction

This guide provides you with information on how to use the cloud and edge applications provided by SAP Digital Manufacturing for edge computing after installation. For other usage information, refer to the links below.

## Related Information

[APIs for SAP Digital Manufacturing for edge computing](#)

[SAP Digital Manufacturing for edge computing Integration](#)

[SAP Digital Manufacturing for edge computing - Developer's Guide](#)

# Manage Edge Devices

Use the **Manage Edge Devices** app to register and manage edge devices, a virtualization of SAP Digital Manufacturing for edge computing instances.

## Key Features

- Get an overview of the edge devices
- Get details about an edge device
- Define the deployment option, associated plant, and additional modules to be deployed
- Delete the edge device from the cloud

## Related Information

[Create Edge Device \(Edge Lifecycle Management\)](#)

[Delete Edge Device \(Edge Lifecycle Management\)](#)

[Create Edge Device \(Self-managed\)](#)

[Delete Edge Device \(Self-managed\)](#)

# Monitor Edge Transactions

With the **Monitor Edge Transactions** app, you can monitor and track the status of all transactions that are relayed from edge to cloud, and retry failed transactions as needed. All transactions forwarded from the edge instance connected to the current edge device and plant (except pending transactions) are displayed in the list.

## Key Features

In addition to the edge API `/api/edge/transactions/v1/transactions` (See [Get Overview of Edge Transactions](#)) for getting an overview of the edge transactions and their delivery status, use this app to:

- Get an overview of the transactions that have been delivered from edge to cloud.
- Check the details of each transaction.
- Use the **Transactions Pending** button to get the total number of transactions for each edge device and plant that are yet to arrive in the cloud.
- Retry failed transactions, if appropriate.

## Related Information

[Search and Filter Edge Transactions](#)

# Search and Filter Edge Transactions

You can search for transactions relayed from edge to cloud. To search for transactions, do the following:

## Prerequisites

1. You have been assigned the role of `Edge_Admin`, `Edge_Production_Supervisor`, or `Edge_Production_Operator`.
2. You are assigned to the plant of the edge device.

## Procedure

1. Open the [Monitor Edge Transactions](#) app.
2. Select the edge device and plant. You can also select the transaction type and status.

### **i** Note

Three types of statuses are available for selection:

- o **In Process:** Transactions that have been forwarded from edge to cloud, but haven't been processed by relevant micro-services
- o **Completed:** Transactions successfully processed by micro-service
- o **Failed:** Transactions failed to be processed by micro-service (status code: 4xx, 5xx). You can see a record of all activities in the alert.

To search for transactions by correlation ID, input the ID in the [Search](#) field and choose [Go](#).

3. Specify when the transaction was posted to the edge and when it was last updated to further filter transactions.
4. Choose [Go](#).

You can retry the failed transactions on both the list and the detailed page.

## Edge UI Applications

With each edge device, a landing page is provided for accessing UI applications. The landing page URL is available in the [Manage Edge Devices](#) app on the cloud Fiori launchpad in this format: `https://edge-ui.<dm-edge-hostname>`.

To access the edge landing page, there are some prerequisites:

- Your administrator has enabled Dex integration.
- Your SAP Digital Manufacturing for edge computing server certificate has "edge-ui.<dm-edge-hostname>" as one of the alternative names and has the external IP mapped to it in the DNS server.
- You need to have been assigned to either the supervisor or operator user group.
- The POD module has been deployed.

This table shows which apps you can access based on the modules you've deployed:

App	Module	Note
Cloud Connection Status	POD	Provided by default.
Monitor Production Processes	POD All modules in the <a href="#">Automation</a> module group	This app only supports monitoring edge process instances in the edge runtime environment and automation sequence instances in Production Connector on edge runtime environment for given edge device. For details, see <a href="#">Monitor Production Processes</a> .

### **i Note**

Some apps can only be opened in a separate window due to different UI technologies.

The landing page is only supported in self-managed deployment option.