



Operations Guide | PUBLIC

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Operations Guide for SAP Digital Manufacturing

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1 Prerequisites

The following prerequisites are required to perform operations.

SAP Business Technology Platform Cockpit

- To create subaccounts and manage members in an SAP Business Technology Platform global account, you must be a member of the global account.
- To assign entitlements and services to subaccounts, you must be a global account administrator.
- To subscribe to applications and perform other administrative tasks like creating destinations in subaccounts, you must be a member of the global account.
- To manage trust configuration and configure authorization using role collections, you must be a security administrator in the subaccount.

SAP Cloud Identity Services - Identity Authentication Tenant

If you use SAP Cloud Identity Services - Identity Authentication to manage users, you must be a tenant administrator and assigned the appropriate roles.

After being added to the tenant as an administrator, you receive an email with an account activation link. To perform tenant administrative tasks, you must first activate the user account.

Related Information

[Administrator Authorizations in SAP Cloud Identity Services - Identity Authentication](#)

2 Supported Data Centers

The following data centers support SAP Digital Manufacturing:

| Region Name | IaaS Provider | Region |
|----------------------|-----------------|--------|
| Europe (Netherlands) | Microsoft Azure | eu20 |
| US West (WA) | Microsoft Azure | us20 |

Related Information

[SAP Business Technology Platform Regions and Service Portfolio](#)
[Cloud Foundry Regions and API Endpoints](#)


3 Data Storage

Find out about data storage for SAP Digital Manufacturing.

For the latest information on data storage, see [2662178](#) .

4 Browser and Platform Support Matrix

Find out which browsers and platforms you can use to run SAP Digital Manufacturing.

For the latest information on the browsers and platforms supported by SAP Digital Manufacturing, see [2722235](#) .

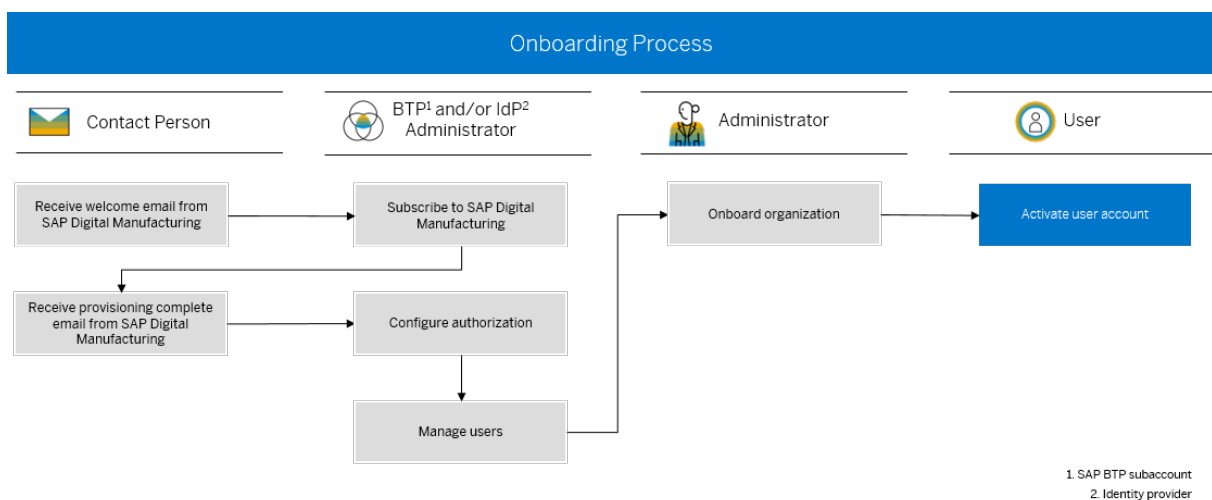
5 Language Support

Find out which languages the user interface of SAP Digital Manufacturing supports.

For the latest information on the languages supported by SAP Digital Manufacturing, see SAP note [2722461](#) .

6 Onboarding and User Management

The onboarding process starts after your organization purchases SAP Digital Manufacturing. During the process, the contact person of your organization receives a series of emails from SAP, with instructions for next steps and additional information. If your organization does not already have an SAP Business Technology Platform global account or an SAP Cloud Identity Services - Identity Authentication tenant, the contact person is automatically assigned as the first administrator for the global account or tenant.



- [Welcome Email from SAP Digital Manufacturing \[page 10\]](#)
- [Provisioning Complete Notification from SAP Digital Manufacturing \[page 10\]](#)
- [Subscribe to SAP Digital Manufacturing \[page 11\]](#)
- [Configure Authorization by Creating Role Collections \[page 13\]](#)
- [Manage Users and Authorization \[page 116\]](#)
- [Onboard Your Organization \[page 123\]](#)
- [Activate User Account \[page 125\]](#)

6.1 Emails from SAP

The contact person for an organization is responsible for the communication between the organization and SAP. The communication includes a series of emails from SAP.

During the provisioning process for SAP Digital Manufacturing, the contact person receives several emails.

When using the application, the contact person receives further emails such as upgrade and downtime notifications.

Welcome Email from SAP Business Technology Platform

If an organization doesn't already have an SAP Business Technology Platform account, a new global account is provisioned.

The contact person receives a welcome email with access information to an SAP Business Technology Platform account. An S-user (SAP user) is also created for the contact person and added as the first member of the account.

For information on adding additional contact persons to your account, see [Initial Access to Your SAP BTP Cockpit](#) .

Account Activation Email from SAP Cloud Identity Services - Identity Authentication

If an organization doesn't already have an SAP Cloud Identity Services - Identity Authentication tenant, a new tenant is also provisioned.

The contact person receives an account activation email and is redirected to the administration console when activating the user account.

Welcome Email from SAP Digital Manufacturing

After an organization purchases SAP Digital Manufacturing, the contact person receives a welcome email with the order details.

Provisioning Complete Notification from SAP Digital Manufacturing

When the provisioning process for SAP Digital Manufacturing is complete, the contact person receives a notification. This email includes information on getting started with SAP Digital Manufacturing and instructions for further actions.

Note

The provisioning process can take up to 24 hours.

6.2 Subscribe to SAP Digital Manufacturing

Subscribe to SAP Digital Manufacturing to trigger the provisioning process.

Prerequisites

- Your organization has purchased SAP Digital Manufacturing.
- The entitlement appropriate to the license has been allocated to your SAP Business Technology Platform global account.
- To add entitlements directly in a subaccount, you must be a member of the subaccount and a global account administrator. For more information, see [Configure Entitlements and Quotas for Subaccounts](#).

Context

Depending on the role of your organization (customer or partner), the license purchased, and the purpose of the subscription, different entitlements (SaaS applications) for SAP Digital Manufacturing are available.

For each customer, 2 SaaS applications for SAP Digital Manufacturing are available for subscription: one for production and one for testing. As a partner, you receive one application.

⚠ Caution

You must subscribe to the **production** and **test** applications in **different subaccounts**.

As the production and test applications use the same services, when you subscribe to an application, you may notice that the other application is automatically subscribed. However, the subscription doesn't trigger the provisioning process for the other application. Subscribe to the other application separately in another subaccount.

The video shows how you subscribe to SAP Digital Manufacturing on the SAP Business Technology Platform.

Procedure

1. Log into your global account on the SAP Business Technology Platform using the URL provided in your provisioning mail. For more information, see [Emails from SAP \[page 9\]](#).
2. Create a subaccount in the multi-cloud environment. Optionally, you can use an existing subaccount created in a region that supports SAP Digital Manufacturing. For more information, see [Supported Data Centers \[page 5\]](#).

If you create a new subaccount, fill in the following information:

| Field | Description |
|------------------------------|--|
| Display Name | Define a meaningful name for the subaccount. |
| Environment | Multi-cloud |
| Provider | Refer to Supported Data Centers [page 5] to select the infrastructure provider. |
| Region | Refer to Supported Data Centers [page 5] to select the region for the data center. |
| Subdomain | <p>The system automatically creates a subdomain based on the subaccount you select. You can change the name of the subdomain. If you change the name, ensure that the name you choose contains only lowercase letters and digits.</p> <p>The subdomain is part of the application URL for SAP Digital Manufacturing. Therefore, ensure that the subdomain is identifiable and meaningful for your users.</p> |

- In the subaccount [Overview](#) page, choose [Enable Cloud Foundry](#) and enter a name for your [Org](#).
- Create a space.
 - In the subaccount you created, choose [Create Space](#).
 - Enter a name for your space and choose [Create](#).
- Configure the entitlements of the subaccount.
 - Choose [Entitlements](#) from the left hand-side navigation to see the entitlements available for your subaccount.
 - Choose [Configure Entitlements](#).
 - Choose [Add Service Plans](#). From the dialog, you can select the services and the plans from each service that you would like to add to the subaccount.

You can also edit the quota assigned to service plans during this step.
 - Select the [SAP Digital Manufacturing for execution](#) application and the relevant plan.
 - When you're done, choose [Save](#) to save and exit edit mode.
- Subscribe to SAP Digital Manufacturing. Subscribe to the test tenant before you subscribe to the production tenant. Test tenant availability depends on your license:

| License | Available Test Tenant |
|--|---|
| Test and Demo | SAP Digital Manufacturing for execution, Test; Plan: partnertandd |
| SAP Digital Manufacturing for execution | SAP Digital Manufacturing for execution, Test; Plan: test |
| SAP Digital Manufacturing for insights | SAP Digital Manufacturing for insights, Test; Plan: test |

- From the side bar menu, choose [Service Marketplace](#).
- Search for the **application** SAP Digital Manufacturing.
- Choose the tile for the appropriate SAP Digital Manufacturing entitlement.
- Choose [Create](#).
- In the dialog box that appears, select the relevant plan and choose [Create](#).

The subscription is submitted.

- f. To check the status of your subscription, go to [Instances and Subscriptions](#).

The [Go to Application](#) link becomes available. Choose the link to launch the application and obtain its URL.

Caution

Once the provisioning process is completed, you'll receive a notification from SAP. At that point, you can share the application URL with the intended users of SAP Digital Manufacturing in your organization. Until then, the application will remain inaccessible.

- g. If your subscription fails, choose [View Details](#) and follow the steps described there.
7. If you've another entitlement for a production tenant for SAP Digital Manufacturing, create a new subaccount for production use and repeat steps 3 to 6.

| License | Available Production Tenant |
|---|---|
| SAP Digital Manufacturing for execution | SAP Digital Manufacturing for execution; Plan: production |
| SAP Digital Manufacturing for insights | SAP Digital Manufacturing for insights; Plan: production |

Results

Once you trigger the provisioning process, you'll receive a notification when it's complete. Provisioning can take up to 24 hours to complete.

Related Information

[Subscribe to Multitenant Business Applications Using the Cockpit](#)

6.3 Configure Authorization by Creating Role Collections

As a security administrator for an SAP Business Technology Platform subaccount, you can configure authorization for applications and services by creating role collections. A role collection contains one or more roles from the same or different applications or services. Each role is created based on a role template that defines the permissions for an application or service.

Context

SAP Digital Manufacturing provides two types of role templates you can use to create role collections. Persona-based role templates authorize access to apps based on a persona such as the `Production_Engineer` or the

Production_Operator. Object-based role templates authorize access to apps required to manage or view an object, such as a nonconformance or a set point

Procedure

1. Go to your subaccount.
 - a. Log on to the SAP BTP cockpit and select a region.
 - b. Select a global account.
 - c. Select a subaccount.
2. From the side bar menu, choose **Security** > **Role Collections**.
3. To create a new role collection, choose **Create New Role Collection**, enter a name, and then choose **Create**.
4. To add roles to the role collection, choose the name of the role collection, and then **Edit**.
5. Choose **Add Role**.
6. In the **Select: Role** window, select a role, a role template, and the application identifier for SAP Digital Manufacturing and then choose **Add**.

Role templates and roles have a 1:1 mapping.

The application identifier for each application or service follows a certain pattern. The table contains an overview of the applications and services that are relevant to SAP Digital Manufacturing:

| Application / Service | Application Identifier Pattern | Example | Remarks |
|---|---|-------------------------------------|---|
| SAP Digital Manufacturing | <license>-dmc-sap- <landscape><randomString> | execution-dmc-sap! t7760 | |
| SAP Business Network Asset Collaboration | ain_broker_<landscape> ><randomString> | ac_broker_live!b622 | |
| SAP Digital Manufacturing Services | dmc-services- <landscape><randomString> | dmc-services!b3715 | Relevant for integration with Production Connector / SAP Plant Connectivity only. For more information, see Integrate with Production Connector for SAP Digital Manufacturing . |
| Audit Log Manager | auditlog- management<randomString> | auditlog-management! b6316 | |
| Audit Log Viewer | auditlog- viewer<randomString> | auditlog-viewer!t6316 | |
| Personal Data Manager | personal-data- manager<randomString> | personal-data- manager!b6007 | |
| Retention Manager | retention- manager<randomString> | retention-manager- service!b1824 | |

| Application / Service | Application Identifier Pattern | Example | Remarks |
|-----------------------|---------------------------------|------------------------|---------|
| SAP BTP Portal | portal-cf-service<randomString> | portal-cf-service!b254 | |
| UI Theme Designer | sap-theming<randomString> | sap-theming!b241 | |

Next Steps

There are two ways to manage authorizations. If you use a trusted identity provider, you can map role collections to user groups. Alternatively, you can assign role collections manually to users.

- If you use a trusted identity provider, map role collections to user groups in the identity provider. For more information, see [Configure Role Collection Mappings \[page 122\]](#).
- Assign role collections directly to users. For more information, see [Assign Users to Role Collections](#).

6.3.1 Role Templates (Persona-Based)

Find out about available persona-based role templates and the permissions each role template has.

Overview

The table contains an overview of all persona-based role templates that are available for SAP Digital Manufacturing.

| Role Template | Description |
|-------------------------|---|
| Global_Regional_Manager | A user who is in the management team or board taking tactical decisions to optimize the manufacturing performance. A user who is accountable for manufacturing and production functions across multiple plants. |
| Plant_Manager | A user who is accountable for manufacturing and production functions of a plant and needs complete visibility into the plant's operations. |
| Manufacturing_Admin | A user who manages plants and integration configuration. |

| Role Template | Description |
|----------------------------------|---|
| Production_Supervisor | <p>A user who ensures that the production runs according to the production plan, tracks the production progress, manages breakdowns and other exceptional situations.</p> <p>The user is responsible for allocating resources such as labor to the right place and at the right time, keeping all machines up and running, and ensuring all material at work.</p> |
| Production_Operator | A user who executes work in process transactions and performs data collection and nonconformance logging. |
| Production_Engineer | A user who defines and manages product and process configurations within a plant. |
| Automation_Engineer | A user who is responsible for manufacturing automation, for example, defining and maintaining the production processes on the operational level. |
| PQM_Analytical_User | A user who has all the authorizations of a PQM_Basic_User. In addition, the user can create new analytical data sets and analyze quality defects to evaluate the influence of 4Ms of manufacturing. The persona would be manufacturing engineer, quality engineer, process engineer, and so on. |
| PQM_Basic_User | A user who receives predictive quality alerts and can view the predictive evaluation results for a specific combination of plant and equipment. The persona would be a production operator or quality inspector. |
| PQM_Model_Manager | A user who has all the authorizations of PQM_Basic_UserPQM_Analytical_User. In addition, the user can create and change AI/ML scenarios, train models, subscribe alerts and review the results after the model is trained. The persona would be a manufacturing engineer or quality engineer. |
| Manufacturing_Extension_Provider | A user who manages extensions (registration, unregistration, and so on) and event subscriptions |
| Data_Privacy_Auditor | A user who has access to blocked data. |
| Edge_Production_Operator | A production operator who (also) works on the shop floor using the edge solution. |
| Edge_Production_Supervisor | A production supervisor who (also) works on the shop floor using the edge solution. |
| Edge_Admin | A user who manages edge devices and installation, and administrates edge settings. |

Note

You can also use the role templates `Manufacturing_Admin_Limited` and `Production_Engineer_Limited` to define roles. These role templates provide limited authorizations for some apps. For more information, see SAP note [3234565](#).

Role Templates, Apps, and Permission

The table describes the permissions each role template has on the SAP Digital Manufacturing apps. Use this table as a basis for configuring role collections.

SAP Business Network Asset Collaboration and Asset Central Foundation

⚠ Caution

The information on the reuse of features provided by SAP Business Network Asset Collaboration and Asset Central Foundation only applies to tenants hosted on Amazon Web Services.

The role templates for SAP Business Network Asset Collaboration and Asset Central Foundation are also included in this table. SAP Digital Manufacturing reuses some features provided by SAP Business Network Asset Collaboration and Asset Central Foundation, you need to configure these role templates along with the SAP Digital Manufacturing role templates.

- AIN_ORG_DATA_EXPERT (for reading, editing, and deleting data)
- AC_ORG_DATA_EXPERT (for reading, editing, and deleting data)

ℹ Note

To grant users access to features provided by SAP Business Network Asset Collaboration and Asset Central Foundation used in SAP Digital Manufacturing, you also need to add the users in the [Application Settings](#) app. For more information, see [Application Settings](#).

For granular level information on predefined roles within the role templates AIN_ORG_DATA_EXPERT and AC_ORG_DATA_EXPERT, see [Roles for SAP Intelligent Asset Management FLP](#).

→ Tip

You can filter by role template, app, and/or launchpad group to determine the best combinations.

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|---------------|-------------------|-------------------------------|-------------------------------------|--|
| dmc | Edge_Admin | -Execution | Edge Services | Manage Edge Devices | Assigned users can do the following: <ul style="list-style-type: none">• View, create, edit, and delete edge devices |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|----------------------------|-------------------|--|---|--|
| dmc | Edge_Admin | -Execution | Edge Services | Monitor Edge Transactions | Assigned users can do the following: <ul style="list-style-type: none"> View the transactions that have been routed from edge to cloud Retry failed transactions |
| dmc | Edge_Production_Supervisor | -Execution | Edge Services | Monitor Edge Transactions | Assigned users can do the following: <ul style="list-style-type: none"> View the transactions that have been routed from edge to cloud Retry failed transactions |
| dmc | Edge_Production_Operator | -Execution | Edge Services | Monitor Edge Transactions | Assigned users can do the following: <ul style="list-style-type: none"> View the transactions that have been routed from edge to cloud Retry failed transactions |
| dmc | DMCI_SAC_User | -Insights | Manufacturing Insights | Manage Dashboards | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and, delete data visualizations using embedded SAP Analytics Cloud |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|---------------------|-------------------|--|---|--|
| dmc | DMCI_SAC_Admin | -Insights | Manufacturing Insights | Initialize Embedded Analytics | Assigned users can do the following: <ul style="list-style-type: none"> Establish trust between the identity providers used by SAP Digital Manufacturing for insights and SAP Analytics Cloud |
| dmc | Manufacturing_Admin | -Execution | Manufacturing Master Data Management | Manage Set Points app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and, delete set point groups |
| dmc | Manufacturing_Admin | -Execution | Manufacturing Master Data Management | Manage Routings/Recipes app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete routings View, edit, and delete recipes imported from integrated ERP systems |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|-----------------------|-------------------|--|---|---|
| dmc | Production_Engineer | -Execution | Manufacturing Master Data Management | Manage Routings/Recipes app | Assigned users can do the following: <ul style="list-style-type: none"> • View, create, edit, and delete routings • View, edit, and delete recipes imported from integrated ERP systems |
| dmc | Production_Operator | -Execution | Manufacturing Master Data Management | Manage Routings/Recipes app | Assigned users can do the following: <ul style="list-style-type: none"> • View routings • View recipes imported from integrated ERP systems |
| dmc | Production_Supervisor | -Execution | Manufacturing Master Data Management | Manage Routings/Recipes app | Assigned users can do the following: <ul style="list-style-type: none"> • View routings, edit, and delete routings • View recipes imported from integrated ERP systems |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|-----------------------|-------------------|---|--------------------------------------|---|
| dmc | Production_Supervisor | -Execution | Manufacturing Execution | Manage Time Tracking | Assigned users can do the following: <ul style="list-style-type: none"> Create, edit, delete, approve, and view time records for assigned production operators |
| dmc | Production_Operator | -Execution | Manufacturing Execution | Manage Time Tracking | Assigned users can do the following: <ul style="list-style-type: none"> View their time records |
| dmc | Manufacturing_Admin | -Execution | Manufacturing Execution | Launch PODs app | Assigned users can do the following: <ul style="list-style-type: none"> Launch production operator dashboards (PODs) |
| dmc | Production_Engineer | -Execution | Manufacturing Execution | Launch PODs app | Assigned users can do the following: <ul style="list-style-type: none"> Launch production operator dashboards (PODs) |
| dmc | Production_Operator | -Execution | Manufacturing Execution | Launch PODs app | Assigned users can do the following: <ul style="list-style-type: none"> Launch production operator dashboards (PODs) |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|-----------------------|-------------------|---|--------------------------------------|--|
| dmc | Production_Supervisor | -Execution | Manufacturing Execution | Launch PODs app | Assigned users can do the following: <ul style="list-style-type: none"> Launch production operator dashboards (PODs) |
| dmc | Manufacturing_Admin | -Execution | Manufacturing Configuration | Manage POD Users app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete the assignment of users to production operator dashboards (PODs) |
| dmc | Production_Engineer | -Execution | Manufacturing Configuration | Manage POD Users app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete the assignment of users to production operator dashboards (PODs) |
| dmc | Production_Operator | -Execution | Manufacturing Configuration | Manage POD Users app | Assigned users can do the following: <ul style="list-style-type: none"> View production operator dashboards (PODs) |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|-----------------------|-------------------|---|--|---|
| dmc | Production_Supervisor | -Execution | Manufacturing Configuration | Manage POD Users app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete the assignment of users to production operator dashboards (PODs) |
| dmc | Production_Supervisor | -Execution | Manufacturing Configuration | Overlay Authoring Tool app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete projects and associated objects View and manage overlays |
| dmc | Manufacturing_Admin | -Execution | Manufacturing Configuration | Overlay Authoring Tool app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete projects and associated objects |
| dmc | Production_Operator | -Execution | Manufacturing Configuration | Overlay Authoring Tool app | Assigned users can do the following: <ul style="list-style-type: none"> View projects and associated objects |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|-------------------------|-------------------|--|---------------------------------------|---|
| dmc | Production_Supervisor | -Insights | Manufacturing Insights | Manage Alerts app | Assigned users can do the following: <ul style="list-style-type: none"> Monitor alerts raised by the applications and initiate a corrective action on the alerts |
| dmc | Production_Engineer | -Insights | Manufacturing Insights Configuration | Manage Alert Type app | Assigned users can do the following: <ul style="list-style-type: none"> View and manage alert types and actions associated with alerts |
| dmc | Production_Supervisor | -Insights | Manufacturing Insights Configuration | Manage Alert Type app | Assigned users can do the following: <ul style="list-style-type: none"> View and manage alert types and actions associated with alerts |
| dmc | Global_Regional_Manager | -Insights | Manufacturing Insights Configuration | Manage Alert Type app | Assigned users can do the following: <ul style="list-style-type: none"> View and manage alert types and actions associated with alerts |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|-----------------------|---------------------------|--|---|---|
| dmc | Production_Operator | -Insights | Manufacturing Insights Configuration | Manage Alert Type app | Assigned users can do the following: <ul style="list-style-type: none"> View alert types and actions associated with alerts |
| dmc | Production_Supervisor | -Manufacturing Automation | Manufacturing Automation | Configure Production Connectivity app | Assigned users can do the following: <ul style="list-style-type: none"> View objects of the production connectivity model |
| dmc | Production_Supervisor | -Manufacturing Automation | Manufacturing Automation | Manage Equipment Connectivity app | Assigned users can do the following: <ul style="list-style-type: none"> View equipment connectivity |
| dmc | Production_Supervisor | -Execution | Manufacturing Execution | Dispatching and Monitoring app | Assigned users can do the following: <ul style="list-style-type: none"> Monitor, schedule, and dispatch operations on the shop floor |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|-----------------------|-------------------|---|--|--|
| ac_broker | AC_ORG_DATA_EXPERT | -Execution | Manufacturing Execution | Dispatching and Monitoring app | <p>Roles required in addition to dmc Manufacturing_Admin and Production_Supervisor roles.</p> <p>Assigned users can view indicators and work orders.</p> <p>Note that with these roles alone, you cannot use this app.</p> |
| dmc | Production_Supervisor | -Execution | Manufacturing Execution | Schedule Labor app | <p>Assigned users can do the following:</p> <ul style="list-style-type: none"> Assign shifts and resources to the workers for a given calendar week |
| dmc | Production_Supervisor | -Execution | Manufacturing Execution | Manage Floor Stock app | <p>Assigned users can do the following:</p> <ul style="list-style-type: none"> Receive, edit and view the floor stock |
| dmc | Production_Supervisor | -Execution | Manufacturing Execution | Manage Staging 2.0 app | <p>Assigned users can do the following:</p> <ul style="list-style-type: none"> Stage materials configured with single-order or cross-order staging method View and check staging request status |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|-----------------------|-------------------|--|--|---|
| dmc | Production_Supervisor | -Execution | Manufacturing Execution | Manage Logistics Orders app | Assigned users can do the following: <ul style="list-style-type: none"> View, create and edit logistics orders |
| dmc | Production_Supervisor | -Execution | Manufacturing Execution | Execute Logistics Orders app | Assigned users can do the following: <ul style="list-style-type: none"> View and execute logistics orders |
| dmc | Production_Supervisor | -Execution | Manufacturing Master Data Management | Manage Storage Locations app | Assigned users can do the following: <ul style="list-style-type: none"> Create, edit, copy, and delete storage locations |
| dmc | Production_Operator | -Execution | Manufacturing Execution | View Labor Schedule app | Assigned users can do the following: <ul style="list-style-type: none"> View the assignments of workers for all shifts |
| dmc | Production_Engineer | -Insights | Manufacturing Insights | Manage Alerts app | Assigned users can do the following: <ul style="list-style-type: none"> Monitor the alerts raised by the applications and initiate a corrective action on the alerts |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|---------------------|---------------------------|--|---|---|
| dmc | Production_Operator | -Insights | Manufacturing Insights | Manage Alerts app | Assigned users can do the following: <ul style="list-style-type: none"> Monitor the alerts raised by the applications and initiate a corrective action on the alerts |
| dmc | Production_Engineer | -Manufacturing Automation | Manufacturing Automation | Configure Production Connectivity app | Assigned users can do the following: <ul style="list-style-type: none"> View objects of the production connectivity model |
| dmc | Production_Engineer | -Manufacturing Automation | Manufacturing Automation | Manage Web Servers app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, and delete web servers Manage connections to other web servers |
| dmc | Production_Engineer | -Manufacturing Automation | Manufacturing Automation | Manage Service Providers app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, update, and delete service providers |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|----------------------------------|---------------------------|--|--|---|
| dmc | Production_Engineer | -Insights | <i>Technical Configuration and Integration</i> | <i>Manage Service Registry</i> app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete service registry entries |
| dmc | Manufacturing_Extension_Provider | -Insights | <i>Technical Configuration and Integration</i> | <i>Manage Service Registry</i> app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete service registry entries |
| dmc | Production_Engineer | -Manufacturing Automation | <i>Manufacturing Automation</i> | <i>Manage Equipment Connectivity</i> app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, update, and delete connectivity between tags and equipment |
| dmc | Production_Engineer | -Execution | <i>Manufacturing Execution</i> | <i>Manage Floor Stocks</i> app | Assigned users can do the following: <ul style="list-style-type: none"> Receive, edit, and view floor stock |
| dmc | Production_Engineer | -Execution | <i>Manufacturing Master Data Management</i> | <i>Manage Storage Locations</i> app | Assigned users can do the following: <ul style="list-style-type: none"> Create, edit, copy, and delete storage locations |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|---------------------|---------------------------|--|--|---|
| dmc | Manufacturing_Admin | -Manufacturing Automation | <i>Manufacturing Automation</i> | <i>Design Production Processes</i> app | <p>Assigned users can do the following:</p> <ul style="list-style-type: none"> • View cloud-based production processes (cloud processes) • View production processes (automation sequences) based on the Production Connector / SAP Plant Connectivity • Export and import production process designs with cloud processes and relevant services • Manage users and work groups |
| dmc | Automation_Engineer | -Insights | <i>Technical Configuration and Integration</i> | <i>Manage Service Registry</i> app | <p>Assigned users can do the following:</p> <ul style="list-style-type: none"> • View service registry entries |
| dmc | Production_Operator | -Insights | <i>Technical Configuration and Integration</i> | <i>Manage Service Registry</i> app | <p>Assigned users can do the following:</p> <ul style="list-style-type: none"> • View service registry entries |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|-----------------------|---------------------------|--|--|--|
| dmc | Production_Supervisor | -Insights | <i>Technical Configuration and Integration</i> | <i>Manage Service Registry</i> app | Assigned users can do the following: <ul style="list-style-type: none"> View service registry entries |
| dmc | Automation_Engineer | -Manufacturing Automation | <i>Manufacturing Automation</i> | <i>Manage Service Providers</i> app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, update, and delete service providers |
| dmc | Automation_Engineer | -Manufacturing Automation | <i>Manufacturing Automation</i> | <i>Configure Production Connectivity</i> app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, update, and delete objects of the production connectivity model |
| dmc | Automation_Engineer | -Manufacturing Automation | <i>Manufacturing Automation</i> | <i>Manage Web Servers</i> app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, delete web servers Manage connections to other web servers |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|-------------------------|---------------------------|---|--|---|
| dmc | Automation_Engineer | -Manufacturing Automation | <i>Manufacturing Automation</i> | <i>Manage Equipment Connectivity</i> app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, update, and delete connectivity between tags and equipment |
| dmc | Automation_Engineer | -Execution | <i>Manufacturing Execution</i> | <i>Manage Floor Stocks</i> app | Assigned users can do the following: <ul style="list-style-type: none"> Receive, edit, and view floor stock |
| dmc | Automation_Engineer | -Execution | <i>Manufacturing Execution</i> | <i>Manage Tool Assignments</i> app | Assigned users can do the following: <ul style="list-style-type: none"> Unassign orders and tools from a specific resource |
| dmc | Automation_Engineer | -Execution | <i>Manufacturing Master Data Management</i> | <i>Manage Storage Locations</i> app | Assigned users can do the following: <ul style="list-style-type: none"> View storage locations |
| dmc | Global_Regional_Manager | -Insights | <i>Manufacturing Insights</i> | <i>Manage Alerts</i> app | Assigned users can do the following: <ul style="list-style-type: none"> Monitor alerts raised by applications and initiate corrective actions for the alerts |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|-----------------|-------------------|--|---|---|
| dmc | Plant_Manager | -Insights | Manufacturing Insights | Manage Alerts app | Assigned users can do the following: <ul style="list-style-type: none"> Monitor alerts raised by the applications and initiate corrective action for the alerts. |
| dmc | Plant_Manager | -Insights | Manufacturing Insights Configuration | Manage Alert Type app | Assigned users can do the following: <ul style="list-style-type: none"> View and manage the alert types and actions associated with alerts |
| dmc | Plant_Manager | -Execution | Manufacturing Configuration | Manage Document Print Templates app | Assigned users can do the following: <ul style="list-style-type: none"> Specify, edit, and delete the information that is available for printing Define, edit, and delete print formats |
| ac_broker | DOCUMENT_DELETE | -Execution | Manufacturing Configuration | Manage Document Print Templates app | Assigned users can do the following: <ul style="list-style-type: none"> Upload print template files from an integrated SAP Asset Intelligence Network system |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|---------------------|-------------------|---|---|---|
| dmc | Plant_Manager | -Execution | Manufacturing Configuration | Manage Printers app | Assigned users can do the following: <ul style="list-style-type: none"> Set up, edit, and delete printers to print various types of production-related documents |
| dmc | Plant_Manager | -Execution | Manufacturing Configuration | Reprint Documents app | Assigned users can do the following: <ul style="list-style-type: none"> Reprint or view documents that printed for specific SFCs or orders |
| dmc | PQM_Analytical_User | -Insights | AI/ML Scenarios Management | Manage Analytical Data Sets app | Assigned users can do the following: <ul style="list-style-type: none"> Create, edit, delete, and clone analytical data sets |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|---------------------|-------------------|--|---|--|
| dmc | PQM_Analytical_User | -Insights | AI/ML Scenarios Management | Manage AI/ML Scenarios app | Assigned users can do the following: <ul style="list-style-type: none"> • Create, edit, delete, and clone AI/ML scenarios • Configure alerts to define alert conditions • Subscribe to alerts so that they are notified whenever an alert is triggered |
| dmc | PQM_Model_Manager | -Insights | AI/ML Scenarios Management | Manage Analytical Data Sets app | Assigned users can do the following: <ul style="list-style-type: none"> • Create, edit, delete, and clone analytical data sets |
| dmc | PQM_Model_Manager | -Insights | AI/ML Scenarios Management | Manage AI/ML Scenarios app | Assigned users can do the following: <ul style="list-style-type: none"> • Create, edit, delete, and clone AI/ML scenarios for defect detection and visual inspection. • Configure alerts to define alert conditions • Subscribe to alerts so that they are notified whenever an alert is triggered. |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|-----------------------|-------------------|---|--|---|
| dmc | Production_Supervisor | -Execution | Manufacturing Execution | Manage Orders app | <p>Assigned users can do the following:</p> <ul style="list-style-type: none"> • Create, edit, and view orders • Release orders to create SFCs |
| dmc | Production_Supervisor | -Execution | Manufacturing Execution | Manage Cancellations app | <p>Assigned users can do the following:</p> <ul style="list-style-type: none"> • View activity confirmations, EWM goods issues and EWM goods receipts, and IM goods receipts that are posted against the order • Cancel activity confirmations, EWM goods issues and EWM goods receipts, and IM goods receipts that are successfully posted against the order |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|-----------------------|-------------------|---|--|--|
| dmc | Production_Supervisor | -Execution | Manufacturing Execution | Manage Resource Assignments app | Assigned users can do the following: <ul style="list-style-type: none"> Assign orders to a resource View a resource with assigned orders |
| dmc | Production_Supervisor | -Execution | Manufacturing Execution | Load Resources with Components app | Assigned users can do the following: <ul style="list-style-type: none"> Load components or floor stock inventories into the empty resource bins Unload components or floor stock inventories from the loaded resource bins |
| dmc | Production_Supervisor | -Execution | Manufacturing Execution | Manage Holds app | Assigned users can do the following: <ul style="list-style-type: none"> View SFCs placed on hold or released from hold Place SFCs on hold or release SFCs from hold |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|-----------------------|-------------------|--------------------------------|--|---|
| dmc | Production_Supervisor | -Execution | <i>Manufacturing Execution</i> | <i>Work Center POD (Default)</i> app | Assigned users can do the following: <ul style="list-style-type: none"> Execute production activities at the selected work center |
| dmc | Production_Supervisor | -Execution | <i>Manufacturing Execution</i> | <i>Operation POD (Default)</i> app | Assigned users can do the following: <ul style="list-style-type: none"> Execute production at the selected operation activity and resource |
| dmc | Production_Supervisor | -Execution | <i>Manufacturing Execution</i> | <i>Order POD (Default)</i> app | Assigned users can do the following: <ul style="list-style-type: none"> Execute production activities for the selected process order |
| dmc | Production_Supervisor | -Execution | <i>Manufacturing Execution</i> | <i>Post-Production Reporting POD</i> | Assigned users can do the following: <ul style="list-style-type: none"> Execute production activities for the selected process order |
| dmc | Production_Supervisor | -Execution | <i>Manufacturing Execution</i> | <i>Standalone Nonconformance POD</i> app | Assigned users can do the following: <ul style="list-style-type: none"> View and log nonconformances against SFCs. |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|-----------------------|-------------------|--|---|---|
| dmc | Production_Supervisor | -Execution | Manufacturing Execution | Quality Inspection Characteristic List plugin | Assigned users can do the following: <ul style="list-style-type: none"> • View inspection characteristics • View summarized results |
| dmc | Production_Supervisor | -Execution | Manufacturing Execution | Quality Inspection Results plugin | Assigned users can do the following: <ul style="list-style-type: none"> • View single-value recordings • Record inspection results • Upload and download attachments |
| dmc | Production_Supervisor | -Execution | Manufacturing Execution | Manage Tool Assignments | Assigned users can do the following: <ul style="list-style-type: none"> • Assign orders and tools to a specific resource • Unassign orders and tools from a specific resource |
| dmc | Production_Supervisor | -Execution | Manufacturing Master Data Management | Manage BOMs app | Assigned users can do the following: <ul style="list-style-type: none"> • View, create, edit, and delete bills of materials (BOMs) |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|-----------------------|-------------------|--|--|--|
| dmc | Production_Supervisor | -Execution | Manufacturing Master Data Management | Manage Routings (deprecated) app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete routings |
| dmc | Production_Supervisor | -Execution | Manufacturing Master Data Management | Manage Recipes (deprecated) app | Assigned users can do the following: <ul style="list-style-type: none"> View recipes imported from SAP S/4HANA Cloud |
| dmc | Production_Supervisor | -Execution | Manufacturing Master Data Management | Manage Operation Activity Master app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete operation activities |
| dmc | Production_Supervisor | -Execution | Manufacturing Master Data Management | Manage Work Instructions app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, and edit work instructions |
| dmc | Production_Supervisor | -Execution | Manufacturing Master Data Management | Manage Materials app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete materials |
| dmc | Production_Supervisor | -Execution | Manufacturing Master Data Management | Manage Material Groups app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete material groups |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|-----------------------|-------------------|--|--|--|
| dmc | Production_Supervisor | -Execution | Manufacturing Master Data Management | Manage Data Collection app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete data collection groups |
| dmc | Production_Supervisor | -Execution | Manufacturing Master Data Management | Manage Resources app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete resources |
| dmc | Production_Supervisor | -Execution | Manufacturing Master Data Management | Manage Resource Types app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete resource types |
| dmc | Production_Supervisor | -Execution | Manufacturing Master Data Management | Manage Work Centers app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete work centers |
| dmc | Production_Supervisor | -Execution | Manufacturing Master Data Management | Manage Shifts app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete shifts |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|-----------------------|-------------------|--|---|--|
| dmc | Production_Supervisor | -Execution | Manufacturing Master Data Management | Manage Set Points app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete set point groups |
| dmc | Production_Supervisor | -Execution | Manufacturing Master Data Management | Manage Tools | Assigned users can do the following: <ul style="list-style-type: none"> Create, edit, and view tools Define tool logging method Track tool usage View tool schedules planned in Resource Orchestration (REO) |
| dmc | Production_Supervisor | -Execution | Manufacturing Master Data Management | Manage Carriers app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, and edit carriers |
| dmc | Production_Supervisor | -Execution | Manufacturing Configuration | Manage Nonconformance Codes app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete nonconformance codes |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|-----------------|-------------------|---|---|---|
| ac_broker | DOCUMENT_DELETE | -Execution | Manufacturing Execution | Data Collection plugin | Assigned users can do the following: <ul style="list-style-type: none"> • Upload images when logging data collection parameters |
| ain_broker | DOCUMENT_READ | -Execution | Manufacturing Execution | Header Information plugin | Assigned users can do the following: <ul style="list-style-type: none"> • Display a material thumbnail in the header information on a POD page in both the Work Center POD (Default) and the Operation POD (Default) |
| ac_broker | DOCUMENT_DELETE | -Execution | Manufacturing Execution | NC Selection plugin | Assigned users can do the following: <ul style="list-style-type: none"> • Upload images when logging non-conformance codes |
| ac_broker | DOCUMENT_DELETE | -Execution | Manufacturing Execution | NC Data Tree plugin | Assigned users can do the following: <ul style="list-style-type: none"> • Upload images when logging non-conformance codes |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|-----------------------|-------------------|---|--|--|
| dmc | Production_Supervisor | -Execution | Manufacturing Configuration | Manage Nonconformance Groups app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete nonconformance groups |
| dmc | Production_Supervisor | -Execution | Manufacturing Configuration | Manage OEE Reason Codes app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, and edit OEE reason codes |
| dmc | Production_Supervisor | -Execution | Manufacturing Configuration | Assign OEE Reason Codes app | Assigned users can do the following: <ul style="list-style-type: none"> Assign OEE reason codes to resources Change the assignment of the OEE reason codes |
| dmc | Production_Supervisor | -Execution | Manufacturing Configuration | Manage User Assignments app | Assigned users can do the following: <ul style="list-style-type: none"> View user data, assign business attributes to users, and delete user settings |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|-----------------------|-------------------|---|--|--|
| dmc | Production_Supervisor | -Execution | Manufacturing Configuration | Manage Certifications app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete certifications |
| dmc | Production_Supervisor | -Execution | Manufacturing Configuration | Manage Plants app | Assigned users can do the following: <ul style="list-style-type: none"> View and create plants |
| dmc | Production_Supervisor | -Execution | Technical Configuration and Integration | Manage Business Settings app | Assigned users can do the following: <ul style="list-style-type: none"> View and change business settings |
| dmc | Production_Supervisor | -Execution | Manufacturing Configuration | Manage Custom Data app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete custom field definitions |
| dmc | Production_Supervisor | -Execution | Manufacturing Configuration | Manage Data Types app | Assigned users can do the following: <ul style="list-style-type: none"> Group data fields created in the Manage Data Fields app |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|-----------------------|-------------------|---|---|---|
| dmc | Production_Supervisor | -Execution | Manufacturing Configuration | Manage Data Fields app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete data fields |
| dmc | Production_Supervisor | -Execution | Manufacturing Configuration | POD Designer app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete production operator dashboards (PODs) |
| dmc | Production_Supervisor | -Execution | Manufacturing Configuration | Manage OEE Time Model Configuration app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, and edit OEE time elements |
| dmc | Production_Supervisor | -Execution | Manufacturing Configuration | Manage Standard Rates app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete standard rates |
| dmc | Production_Supervisor | -Execution | Manufacturing Configuration | Assign Time Element Types app | Assigned users can do the following: <ul style="list-style-type: none"> Assign resource statuses to time element types Change the assignment of the resource statuses |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|-----------------------|-------------------|---|---|--|
| dmc | Production_Supervisor | -Execution | Manufacturing Configuration | Manage Next Numbers app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, and edit numbering patterns |
| dmc | Production_Supervisor | -Execution | Manufacturing Configuration | Manage Buyoffs app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete buyoffs |
| dmc | Production_Operator | -Execution | Manufacturing Execution | Manage Orders app | Assigned users can do the following: <ul style="list-style-type: none"> View orders |
| dmc | Production_Operator | -Execution | Manufacturing Execution | Manage Cancellations app | Assigned users can do the following: <ul style="list-style-type: none"> View activity confirmations, EWM goods issues and EWM goods receipts, and IM goods receipts that are posted against the order |
| dmc | Production_Operator | -Execution | Manufacturing Execution | Manage Resource Assignments app | Assigned users can do the following: <ul style="list-style-type: none"> View a resource with assigned orders |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|---------------------|-------------------|---|--|--|
| dmc | Production_Operator | -Execution | Manufacturing Execution | Manage Staging 2.0 app | <p>Assigned users can do the following:</p> <ul style="list-style-type: none"> • Stage materials configured with single-order or cross-order staging method • View and check staging request status |
| dmc | Production_Operator | -Execution | Manufacturing Execution | Packing List plugin | <p>Assigned users can do the following:</p> <ul style="list-style-type: none"> • View and assign destinations to packing units • Create packing units • Add items to packing units • Remove items from packing units • Close and unpack a packing unit • Unload a packing unit |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|-----------------------|-------------------|---|-------------------------------------|--|
| dmc | Production_Supervisor | -Execution | Manufacturing Execution | Packing List plugin | <p>Assigned users can do the following:</p> <ul style="list-style-type: none"> • View and assign destinations to packing units • Create packing units • Add items to packing units • Remove items from packing units • Close and unpack a packing unit • Unload a packing unit |
| dmc | Production_Operator | -Execution | Manufacturing Execution | Process Lot plugin | <p>Assigned users can do the following:</p> <ul style="list-style-type: none"> • Add and remove SFCs from process lots. |
| dmc | Production_Supervisor | -Execution | Manufacturing Execution | Process Lot plugin | <p>Assigned users can do the following:</p> <ul style="list-style-type: none"> • Add and remove SFCs from process lots. |
| dmc | Production_Engineer | -Execution | Manufacturing Execution | Process Lot plugin | <p>Assigned users can do the following:</p> <ul style="list-style-type: none"> • Add and remove SFCs from process lots. |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|-----------------------|-------------------|---|--|---|
| dmc | Production_Operator | -Execution | Manufacturing Execution | Process Lot List plugin | Assigned users can do the following: <ul style="list-style-type: none"> View, create, and delete process lots. |
| dmc | Production_Supervisor | -Execution | Manufacturing Execution | Process Lot List plugin | Assigned users can do the following: <ul style="list-style-type: none"> View, create, and delete process lots. |
| dmc | Production_Engineer | -Execution | Manufacturing Execution | Process Lot List plugin | Assigned users can do the following: <ul style="list-style-type: none"> View, create, and delete process lots. |
| dmc | Production_Operator | -Execution | Manufacturing Execution | Execute Logistics Orders app | Assigned users can do the following: <ul style="list-style-type: none"> View and execute logistics orders |
| dmc | Production_Operator | -Execution | Manufacturing Execution | Logistics Order Creation plugin | Assigned users can do the following: <ul style="list-style-type: none"> View assigned destinations to SFCs |
| dmc | Production_Operator | -Execution | Manufacturing Execution | Load Resources with Components app | Assigned users can do the following: <ul style="list-style-type: none"> View empty and loaded resource bins |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|---------------------|-------------------|--------------------------------|--|---|
| dmc | Production_Operator | -Execution | <i>Manufacturing Execution</i> | <i>Work Center POD (Default)</i> app | Assigned users can do the following: <ul style="list-style-type: none"> Execute production activities at the selected work center |
| dmc | Production_Operator | -Execution | <i>Manufacturing Execution</i> | <i>Operation POD (Default)</i> app | Assigned users can do the following: <ul style="list-style-type: none"> Execute production at the selected operation activity and resource |
| dmc | Production_Operator | -Execution | <i>Manufacturing Execution</i> | <i>Order POD (Default)</i> app | Assigned users can do the following: <ul style="list-style-type: none"> Execute production activities for the selected process order |
| dmc | Production_Operator | -Execution | <i>Manufacturing Execution</i> | <i>Post-Production Reporting POD</i> app | Assigned users can do the following: <ul style="list-style-type: none"> Execute production activities for the selected process order |
| dmc | Production_Operator | -Execution | <i>Manufacturing Execution</i> | <i>Standalone Nonconformance POD</i> app | Assigned users can do the following: <ul style="list-style-type: none"> View or log nonconformances against SFCs. |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|---------------------|-------------------|--|---|---|
| dmc | Production_Operator | -Execution | Manufacturing Execution | Quality Inspection Characteristic List plugin | Assigned users can do the following: <ul style="list-style-type: none"> • View inspection characteristics • View summarized results |
| dmc | Production_Operator | -Execution | Manufacturing Execution | Quality Inspection Results plugin | Assigned users can do the following: <ul style="list-style-type: none"> • View single-value recording • Record inspection results • Upload and download attachments |
| dmc | Production_Operator | -Execution | Manufacturing Execution | Manage Tool Assignments | Assigned users can do the following: <ul style="list-style-type: none"> • Assign orders and tools to a specific resource • Unassign orders and tools from a specific resource |
| dmc | Production_Operator | -Execution | Manufacturing Master Data Management | Manage BOMs app | Assigned users can do the following: <ul style="list-style-type: none"> • View bills of materials (BOMs) |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|---------------------|-------------------|--|--|---|
| dmc | Production_Operator | -Execution | Manufacturing Master Data Management | Manage Routings (deprecated) app | Assigned users can do the following: <ul style="list-style-type: none"> View routings |
| dmc | Production_Operator | -Execution | Manufacturing Master Data Management | Manage Recipes (deprecated) app | Assigned users can do the following: <ul style="list-style-type: none"> View recipes imported from SAP S/4HANA Cloud |
| dmc | Production_Operator | -Execution | Manufacturing Master Data Management | Manage Operation Activity Master app | Assigned users can do the following: <ul style="list-style-type: none"> View operation activities |
| dmc | Production_Operator | -Execution | Manufacturing Master Data Management | Manage Work Instructions app | Assigned users can do the following: <ul style="list-style-type: none"> View work instructions |
| dmc | Production_Operator | -Execution | Manufacturing Master Data Management | Manage Materials app | Assigned users can do the following: <ul style="list-style-type: none"> View materials |
| dmc | Production_Operator | -Execution | Manufacturing Master Data Management | Manage Material Groups app | Assigned users can do the following: <ul style="list-style-type: none"> View material groups |
| dmc | Production_Operator | -Execution | Manufacturing Master Data Management | Manage Data Collection app | Assigned users can do the following: <ul style="list-style-type: none"> View data collection groups |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|---------------------|-------------------|--|--|---|
| dmc | Production_Operator | -Execution | Manufacturing Master Data Management | Manage Resources app | Assigned users can do the following: <ul style="list-style-type: none"> View resources |
| dmc | Production_Operator | -Execution | Manufacturing Master Data Management | Manage Resource Types app | Assigned users can do the following: <ul style="list-style-type: none"> View resource types |
| dmc | Production_Operator | -Execution | Manufacturing Master Data Management | Manage Work Centers app | Assigned users can do the following: <ul style="list-style-type: none"> View work centers |
| dmc | Production_Operator | -Execution | Manufacturing Master Data Management | Manage Shifts app | Assigned users can do the following: <ul style="list-style-type: none"> View shifts |
| dmc | Production_Operator | -Execution | Manufacturing Master Data Management | Manage Carriers app | Assigned users can do the following: <ul style="list-style-type: none"> View carriers |
| dmc | Production_Operator | -Execution | Manufacturing Configuration | Manage Nonconformance Codes app | Assigned users can do the following: <ul style="list-style-type: none"> View nonconformance codes |
| dmc | Production_Operator | -Execution | Manufacturing Configuration | Manage Nonconformance Groups app | Assigned users can do the following: <ul style="list-style-type: none"> View nonconformance groups |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|---------------------|-------------------|---|--|---|
| dmc | Production_Operator | -Execution | Manufacturing Configuration | Manage OEE Reason Codes app | Assigned users can do the following: <ul style="list-style-type: none"> View OEE reason codes |
| dmc | Production_Operator | -Execution | Manufacturing Configuration | Assign OEE Reason Codes app | Assigned users can do the following: <ul style="list-style-type: none"> View OEE reason code assignments |
| dmc | Production_Operator | -Execution | Manufacturing Configuration | Manage User Assignments app | Assigned users can do the following: <ul style="list-style-type: none"> View user data |
| dmc | Production_Operator | -Execution | Manufacturing Configuration | Manage Certifications app | Assigned users can do the following: <ul style="list-style-type: none"> View certifications |
| dmc | Production_Operator | -Execution | Manufacturing Configuration | Manage Plants app | Assigned users can do the following: <ul style="list-style-type: none"> View plants |
| dmc | Production_Operator | -Execution | Technical Configuration and Integration | Manage Business Settings app | Assigned users can do the following: <ul style="list-style-type: none"> View business settings |
| dmc | Production_Operator | -Execution | Manufacturing Configuration | Manage Custom Data app | Assigned users can do the following: <ul style="list-style-type: none"> View custom field definitions |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|---------------------|-------------------|---|---|---|
| dmc | Production_Operator | -Execution | Manufacturing Configuration | Manage Data Types app | Assigned users can do the following: <ul style="list-style-type: none"> View data fields created in the Manage Data Fields app |
| dmc | Production_Operator | -Execution | Manufacturing Configuration | Manage Data Fields app | Assigned users can do the following: <ul style="list-style-type: none"> View data fields |
| dmc | Production_Operator | -Execution | Manufacturing Configuration | POD Designer app | Assigned users can do the following: <ul style="list-style-type: none"> View production operator dashboards (PODs) |
| dmc | Production_Operator | -Execution | Manufacturing Configuration | Manage OEE Time Model Configuration app | Assigned users can do the following: <ul style="list-style-type: none"> View OEE time elements |
| dmc | Production_Operator | -Execution | Manufacturing Configuration | Manage Standard Rates app | Assigned users can do the following: <ul style="list-style-type: none"> View standard rates |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|---------------------|-------------------|--|---|---|
| dmc | Production_Operator | -Execution | Manufacturing Configuration | Assign Time Element Types app | Assigned users can do the following: <ul style="list-style-type: none"> Assign resource statuses to time element types Change the assignment of the resource statuses |
| dmc | Production_Operator | -Execution | Manufacturing Configuration | Manage Next Numbers app | Assigned users can do the following: <ul style="list-style-type: none"> View numbering patterns |
| dmc | Production_Operator | -Execution | Manufacturing Configuration | Manage Buyoffs app | Assigned users can do the following: <ul style="list-style-type: none"> View and log buyoffs |
| dmc | Production_Operator | -Execution | Manufacturing Execution | Manage Floor Stocks app | Assigned users can do the following: <ul style="list-style-type: none"> Receive, edit, and view floor stock |
| dmc | Production_Operator | -Execution | Manufacturing Master Data Management | Manage Storage Locations app | Assigned users can do the following: <ul style="list-style-type: none"> Create, edit, copy, and delete storage locations |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|-----------------------|---------------------------|--|--|--|
| dmc | Production_Engineer | -Manufacturing Automation | Manufacturing Automation | Monitor Production Processes app | Assigned users can do the following: <ul style="list-style-type: none"> • View the execution result and progress of production processes • Terminate cloud processes • View statistics report |
| dmc | Production_Supervisor | -Manufacturing Automation | Manufacturing Automation | Monitor Production Processes app | Assigned users can do the following: <ul style="list-style-type: none"> • View the execution result and progress of production processes • Terminate cloud processes • View statistics report |
| dmc | Production_Operator | -Manufacturing Automation | Manufacturing Automation | Monitor Production Processes app | Assigned users can do the following: <ul style="list-style-type: none"> • View the execution result and progress of production processes • Terminate cloud processes • View statistics report |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|-----------------------|---------------------------|--|--|---|
| dmc | Plant_Manager | -Manufacturing Automation | Manufacturing Automation | Monitor Production Processes app | Assigned users can do the following: <ul style="list-style-type: none"> • View the execution result and progress of production processes • View statistics report |
| dmc | Automation_Engineer | -Manufacturing Automation | Manufacturing Automation | Monitor Production Processes app | Assigned users can do the following: <ul style="list-style-type: none"> • View the execution result and progress of production processes |
| dmc | Production_Supervisor | -Manufacturing Automation | Manufacturing Automation | Recover Production Processes app | Assigned users can do the following: <ul style="list-style-type: none"> • Search and retry production processes terminated with error |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|---------------------|---------------------------|---------------------------------|--|---|
| dmc | Production_Engineer | -Manufacturing Automation | <i>Manufacturing Automation</i> | <i>Production Process Administration</i> app | <p>Assigned users can do the following:</p> <ul style="list-style-type: none"> • View, create, edit, and delete work groups • Manage users in work groups • Change the log level of cloud processes • Configure debug mode settings • Configure booster mode settings • Delete process instances • Download archived process instance logs |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|---------------------|---------------------------|---------------------------------|--|--|
| dmc | Automation_Engineer | -Manufacturing Automation | <i>Manufacturing Automation</i> | <i>Production Process Administration</i> app | <p>Assigned users can do the following:</p> <ul style="list-style-type: none"> • View, create, edit, and delete work groups • Manage users in work groups • Change the log level of production processes (automation sequences) based on the Production Connector / SAP Plant Connectivity • Download archived process instance logs |
| dmc | Plant_Manager | -Manufacturing Automation | <i>Manufacturing Automation</i> | <i>Production Process Administration</i> app | <p>Assigned users can do the following:</p> <ul style="list-style-type: none"> • Download archived process instance logs |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|-----------------------|---------------------------|--|---|--|
| dmc | Production_Supervisor | -Manufacturing Automation | Manufacturing Automation | Production Process Administration app | Assigned users can do the following: <ul style="list-style-type: none"> • Change the log level of cloud processes • Configure booster mode settings • Delete process instances • Download archived process instance logs |
| dmc | Production_Engineer | -Execution | Manufacturing Execution | Manage Orders app | Assigned users can do the following: <ul style="list-style-type: none"> • Create, edit, and view orders • Release orders to create SFCs |
| dmc | Production_Engineer | -Execution | Manufacturing Execution | Manage Staging 2.0 app | Assigned users can do the following: <ul style="list-style-type: none"> • Stage materials configured with single-order or cross-order staging method • View and check staging request status |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|---------------------|-------------------|--------------------------------|---|--|
| dmc | Production_Engineer | -Execution | <i>Manufacturing Execution</i> | <i>Manage Resource Setup</i> app | Assigned users can do the following: <ul style="list-style-type: none"> View resources with assigned orders |
| dmc | Production_Engineer | -Execution | <i>Manufacturing Execution</i> | <i>Load Resources with Components</i> app | Assigned users can do the following: <ul style="list-style-type: none"> Load components or floor stock inventories into the empty resource bins Unload components or floor stock inventories from the loaded resource bins |
| dmc | Production_Engineer | -Execution | <i>Manufacturing Execution</i> | <i>Work Center POD (Default)</i> app | Assigned users can do the following: <ul style="list-style-type: none"> Execute production activities at the selected work center |
| dmc | Production_Engineer | -Execution | <i>Manufacturing Execution</i> | <i>Operation POD (Default)</i> app | Assigned users can do the following: <ul style="list-style-type: none"> Execute production at the selected operation activity and resource |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|---------------------|-------------------|--------------------------------|--|---|
| dmc | Production_Engineer | -Execution | <i>Manufacturing Execution</i> | <i>Order POD (Default)</i> app | Assigned users can do the following: <ul style="list-style-type: none"> Execute production activities for the selected process order |
| dmc | Production_Engineer | -Execution | <i>Manufacturing Execution</i> | <i>Post-Production Reporting POD</i> app | Assigned users can do the following: <ul style="list-style-type: none"> Execute production activities for the selected process order |
| dmc | Production_Engineer | -Execution | <i>Manufacturing Execution</i> | <i>Standalone Nonconformance POD</i> app | Assigned users can do the following: <ul style="list-style-type: none"> View or log nonconformances against SFCs. |
| dmc | Production_Engineer | -Execution | <i>Manufacturing Execution</i> | <i>Manage Tools</i> | Assigned users can do the following: <ul style="list-style-type: none"> Create, edit, and view tools Define tool logging methods Track tool usage View tool schedules planned in Resource Orchestration (REO) |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|---------------------|-------------------|---|---|---|
| dmc | Production_Engineer | -Execution | <i>Manufacturing Execution</i> | <i>Manage Carriers</i> app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete carriers |
| dmc | Production_Engineer | -Execution | <i>Manufacturing Master Data Management</i> | <i>Manage BOMs</i> app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete bills of materials (BOMs) |
| dmc | Production_Engineer | -Execution | <i>Manufacturing Master Data Management</i> | <i>Manage Routings (deprecated)</i> app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete routings |
| dmc | Production_Engineer | -Execution | <i>Manufacturing Master Data Management</i> | <i>Manage Recipes (deprecated)</i> app | Assigned users can do the following: <ul style="list-style-type: none"> View, edit, and delete recipes imported from SAP S/4HANA Cloud |
| dmc | Production_Engineer | -Execution | <i>Manufacturing Master Data Management</i> | <i>Manage Operation Activity Master</i> app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete operation activities |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|---------------------|-------------------|--|--|--|
| dmc | Production_Engineer | -Execution | Manufacturing Master Data Management | Manage Work Instructions app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, and edit work instructions |
| dmc | Production_Engineer | -Execution | Manufacturing Master Data Management | Manage Materials app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete materials |
| dmc | Production_Engineer | -Execution | Manufacturing Master Data Management | Manage Material Groups app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete material groups |
| dmc | Production_Engineer | -Execution | Manufacturing Master Data Management | Manage Data Collection app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete data collection groups |
| dmc | Production_Engineer | -Execution | Manufacturing Master Data Management | Manage Resources app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete resources |
| dmc | Production_Engineer | -Execution | Manufacturing Master Data Management | Manage Resource Types app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete resource types |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|---------------------|-------------------|--|---|---|
| dmc | Production_Engineer | -Execution | Manufacturing Master Data Management | Manage Work Centers app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete work centers |
| dmc | Production_Engineer | -Execution | Manufacturing Master Data Management | Manage Shifts app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete shifts |
| dmc | Production_Engineer | -Execution | Manufacturing Master Data Management | Manage Set Points app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete set point groups |
| dmc | Production_Engineer | -Execution | Manufacturing Master Data Management | Manage Tool Assignments | Assigned users can do the following: <ul style="list-style-type: none"> Assign orders and tools to a specific resource Unassign orders and tools from a specific resource |
| dmc | Production_Engineer | -Execution | Manufacturing Configuration | Manage Nonconformance Codes app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete nonconformance codes |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|---------------------|-------------------|---|--|--|
| dmc | Automation_Engineer | -Execution | Manufacturing Configuration | Manage Nonconformance Codes app | Assigned users can do the following: <ul style="list-style-type: none"> View nonconformance codes |
| dmc | Production_Engineer | -Execution | Manufacturing Configuration | Manage Nonconformance Groups app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete nonconformance groups |
| dmc | Automation_Engineer | -Execution | Manufacturing Configuration | Manage Nonconformance Groups app | Assigned users can do the following: <ul style="list-style-type: none"> View nonconformance groups |
| dmc | Production_Engineer | -Execution | Manufacturing Configuration | Manage OEE Reason Codes app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, and edit OEE reason codes |
| dmc | Production_Engineer | -Execution | Manufacturing Configuration | Assign OEE Reason Codes app | Assigned users can do the following: <ul style="list-style-type: none"> Assign OEE reason codes to resources Change the assignment of the OEE reason codes |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|---------------------|-------------------|---|--|--|
| dmc | Production_Engineer | -Execution | Manufacturing Configuration | Manage User Assignments app | Assigned users can do the following: <ul style="list-style-type: none"> View user data, assign business attributes to users, and delete user settings |
| dmc | Production_Engineer | -Execution | Manufacturing Configuration | Manage Certifications app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete certifications |
| dmc | Production_Engineer | -Execution | Manufacturing Configuration | Manage Plants app | Assigned users can do the following: <ul style="list-style-type: none"> View and create plants |
| dmc | Production_Engineer | -Execution | Technical Configuration and Integration | Manage Business Settings app | Assigned users can do the following: <ul style="list-style-type: none"> View and change business settings |
| dmc | Production_Engineer | -Execution | Manufacturing Configuration | Manage Custom Data app | Assigned users can do the following: <ul style="list-style-type: none"> |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|---------------------|-------------------|---|---|--|
| dmc | Production_Engineer | -Execution | Manufacturing Configuration | Manage Data Types app | Assigned users can do the following: <ul style="list-style-type: none"> Group data fields created in the Manage Data Fields app |
| dmc | Production_Engineer | -Execution | Manufacturing Configuration | Manage Data Fields app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete data fields |
| dmc | Production_Engineer | -Execution | Manufacturing Configuration | POD Designer app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete production operator dashboards (PODs) |
| dmc | Production_Engineer | -Execution | Manufacturing Configuration | Manage OEE Time Model Configuration app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, and edit OEE time elements |
| dmc | Production_Engineer | -Execution | Manufacturing Configuration | Manage Standard Rates app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete standard rates |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|---------------------|-------------------|---|---|---|
| dmc | Production_Engineer | -Execution | Manufacturing Configuration | Assign Time Element Types app | Assigned users can do the following: <ul style="list-style-type: none"> Assign resource statuses to time element types Change the assignment of the resource statuses |
| dmc | Production_Engineer | -Execution | Manufacturing Configuration | Manage Next Numbers app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, and edit numbering patterns |
| dmc | Production_Engineer | -Execution | Manufacturing Configuration | Manage Document Print Templates app | Assigned users can do the following: <ul style="list-style-type: none"> Specify, edit, and delete the information that is available for printing Define, edit, and delete print formats |
| dmc | Production_Engineer | -Execution | Manufacturing Configuration | Manage Printers app | Assigned users can do the following: <ul style="list-style-type: none"> Set up, edit, and delete printers to print various types of production-related documents |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|---------------------|-------------------|---|--|--|
| dmc | Production_Engineer | -Execution | Manufacturing Configuration | Reprint Documents app | Assigned users can do the following: <ul style="list-style-type: none"> Reprint or view documents that were printed for specific SFCs or orders |
| dmc | Production_Engineer | -Execution | Manufacturing Configuration | Manage Buyoffs app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, and edit buy-offs |
| dmc | Manufacturing_Admin | -Administration | Administration | License Usage Report app | Assigned users can do the following: <ul style="list-style-type: none"> Monitor the resource consumption of the SAP Digital Manufacturing license |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|-------------------------|-------------------|---|---|--|
| dmc | Manufacturing_ Admin | -Execution | Manufacturing Configuration | Configure Inspection Points app | Assigned users can do the following: <ul style="list-style-type: none"> • Create, change, display and delete user field combinations for inspection points. • Import and define validation codes for inspection point valuation from integrated ERP systems. |
| dmc | Manufacturing_ Admin | -Execution | Manufacturing Execution | Manage Orders app | Assigned users can do the following: <ul style="list-style-type: none"> • Create, edit, and view orders • Release orders to create SFCs |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|---------------------|-------------------|---|---|---|
| dmc | Manufacturing_Admin | -Execution | Manufacturing Execution | Manage Cancellations app | <p>Assigned users can do the following:</p> <ul style="list-style-type: none"> View activity confirmations, EWM goods issues and EWM goods receipts, and IM goods receipts that are posted against the order Cancel activity confirmations, EWM goods issues and EWM goods receipts, and IM goods receipts that are successfully posted against the order |
| dmc | Manufacturing_Admin | -Execution | Manufacturing Execution | Manage Resource Assignments app | <p>Assigned users can do the following:</p> <ul style="list-style-type: none"> Assign orders to a resource View a resource with assigned orders |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|---------------------|-------------------|--------------------------------|---|---|
| dmc | Manufacturing_Admin | -Execution | <i>Manufacturing Execution</i> | <i>Load Resources with Components</i> app | <p>Assigned users can do the following:</p> <ul style="list-style-type: none"> • Load components or floor stock inventories into the empty resource bins • Unload components or floor stock inventories from the loaded resource bins |
| dmc | Manufacturing_Admin | -Execution | <i>Manufacturing Execution</i> | <i>Manage Holds</i> app | <p>Assigned users can do the following:</p> <ul style="list-style-type: none"> • View SFCs placed on hold or released from hold • Place SFCs on hold or release SFCs from hold |
| dmc | Manufacturing_Admin | -Execution | <i>Manufacturing Execution</i> | <i>Work Center POD (Default)</i> app | <p>Assigned users can do the following:</p> <ul style="list-style-type: none"> • Execute production activities at the selected work center |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|-------------------------|-------------------|--------------------------------|--|---|
| dmc | Manufacturing_ Admin | -Execution | <i>Manufacturing Execution</i> | <i>Operation POD (Default)</i> app | Assigned users can do the following: <ul style="list-style-type: none"> Execute production at the selected operation activity and resource |
| dmc | Manufacturing_ Admin | -Execution | <i>Manufacturing Execution</i> | <i>Order POD (Default)</i> app | Assigned users can do the following: <ul style="list-style-type: none"> Execute production activities for the selected process order |
| dmc | Manufacturing_ Admin | -Execution | <i>Manufacturing Execution</i> | <i>Post-Production Reporting POD</i> app | Assigned users can do the following: <ul style="list-style-type: none"> Execute production activities for the selected process order |
| dmc | Manufacturing_ Admin | -Execution | <i>Manufacturing Execution</i> | <i>Standalone Nonconformance POD</i> app | Assigned users can do the following: <ul style="list-style-type: none"> View or log nonconformances against SFCs. |
| dmc | Manufacturing_ Admin | -Execution | <i>Manufacturing Execution</i> | <i>Dispatching and Monitoring</i> app | Assigned users can do the following: <ul style="list-style-type: none"> Monitor, schedule, and dispatch operations on the shop floor |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|-------------------------|-------------------|---|---|--|
| dmc | Manufacturing_ Admin | -Execution | Manufacturing Execution | Schedule Labor app | Assigned users can do the following: <ul style="list-style-type: none"> Assign shifts and resources to the workers for a given calendar week. |
| dmc | Manufacturing_ Admin | -Execution | Manufacturing Execution | Manage Tool Assignments | Assigned users can do the following: <ul style="list-style-type: none"> Assign orders and tools to a specific resource Unassign orders and tools from a specific resource |
| dmc | Manufacturing_ Admin | -Execution | Manufacturing Execution | Manage Staging 2.0 app | Assigned users can do the following: <ul style="list-style-type: none"> Stage materials configured with single-order or cross-order staging method View and check staging request status |
| dmc | Manufacturing_ Admin | -Execution | Manufacturing Execution | Manage Logistics Orders app | Assigned users can do the following: <ul style="list-style-type: none"> View, create and edit logistics orders |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|---------------------|-------------------|---|--|---|
| dmc | Manufacturing_Admin | -Execution | Manufacturing Execution | Execute Logistics Orders app | Assigned users can do the following: <ul style="list-style-type: none"> View and execute logistics orders |
| dmc | Manufacturing_Admin | -Execution | Manufacturing Execution | Manage Transport Systems app | Assigned users can do the following: <ul style="list-style-type: none"> View, create and edit transport systems |
| dmc | Manufacturing_Admin | -Execution | Manufacturing Execution | Packing List plugin | Assigned users can do the following: <ul style="list-style-type: none"> View and assign destinations to packing units Create packing units Add items to packing units Remove items from packing units Close and unpack a packing unit Unload a packing unit |
| dmc | Manufacturing_Admin | -Execution | Manufacturing Execution | Process Lot plugin | Assigned users can do the following: <ul style="list-style-type: none"> Add and remove SFCs from process lots. |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|---------------------|-------------------|--|--|---|
| dmc | Manufacturing_Admin | -Execution | Manufacturing Execution | Process Lot List plugin | Assigned users can do the following: <ul style="list-style-type: none"> View, create, and delete process lots. |
| dmc | Manufacturing_Admin | -Execution | Manufacturing Execution | Logistics Order Creation plugin | Assigned users can do the following: <ul style="list-style-type: none"> Assign destinations to SFCs |
| dmc | Manufacturing_Admin | -Execution | Manufacturing Master Data Management | Manage BOMs app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete bills of materials (BOMs) |
| dmc | Manufacturing_Admin | -Execution | Manufacturing Master Data Management | Manage Routings (deprecated) app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete routings |
| dmc | Manufacturing_Admin | -Execution | Manufacturing Master Data Management | Manage Recipes (deprecated) app | Assigned users can do the following: <ul style="list-style-type: none"> View, edit, and delete recipes imported from SAP S/4HANA Cloud |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|---------------------|-------------------|--|--|--|
| dmc | Manufacturing_Admin | -Execution | Manufacturing Master Data Management | Manage Operation Activity Master app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete operation activities |
| dmc | Manufacturing_Admin | -Execution | Manufacturing Master Data Management | Manage Work Instructions app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, and edit work instructions |
| dmc | Manufacturing_Admin | -Execution | Manufacturing Master Data Management | Manage Materials app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete materials |
| dmc | Manufacturing_Admin | -Execution | Manufacturing Master Data Management | Manage Material Groups app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete material groups |
| dmc | Manufacturing_Admin | -Execution | Manufacturing Master Data Management | Manage Data Collection app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete data collection groups |
| dmc | Manufacturing_Admin | -Execution | Manufacturing Master Data Management | Manage Resources app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete resources |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|-------------------------|-------------------|--|---|--|
| dmc | Manufacturing_ Admin | -Execution | Manufacturing Master Data Management | Manage Resource Types app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete resource types |
| dmc | Manufacturing_ Admin | -Execution | Manufacturing Master Data Management | Manage Work Centers app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete work centers |
| dmc | Manufacturing_ Admin | -Execution | Manufacturing Master Data Management | Manage Shifts app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete shifts |
| dmc | Manufacturing_ Admin | -Execution | Manufacturing Master Data Management | Manage Tools | Assigned users can do the following: <ul style="list-style-type: none"> Create, edit, and view tools Define tool logging method Track tool usage View tool schedules planned in Resource Orchestration (REO) |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|---------------------|-------------------|--|--|--|
| dmc | Manufacturing_Admin | -Execution | Manufacturing Master Data Management | Manage Carriers app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete carriers |
| dmc | Manufacturing_Admin | -Execution | Manufacturing Configuration | Manage Nonconformance Codes app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete nonconformance codes |
| dmc | Manufacturing_Admin | -Execution | Manufacturing Configuration | Manage Nonconformance Groups app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete nonconformance groups |
| dmc | Manufacturing_Admin | -Execution | Manufacturing Configuration | Manage OEE Reason Codes app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, and edit OEE reason codes |
| dmc | Manufacturing_Admin | -Execution | Manufacturing Configuration | Assign OEE Reason Codes app | Assigned users can do the following: <ul style="list-style-type: none"> Assign OEE reason codes to resources Change the assignment of the OEE reason codes |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|-------------------------|-------------------|---|---|--|
| dmc | Manufacturing_ Admin | -Execution | Manufacturing Configuration | Manage User Assignments app | Assigned users can do the following: <ul style="list-style-type: none"> View user data, assign business attributes to users, and delete user settings |
| dmc | Manufacturing_ Admin | -Execution | Manufacturing Configuration | Manage Certifications app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete certifications |
| dmc | Manufacturing_ Admin | -Execution | Manufacturing Configuration | Manage Plants app | Assigned users can do the following: <ul style="list-style-type: none"> View and create plants |
| dmc | Manufacturing_ Admin | -Execution | Manufacturing Configuration | Manage Custom Data app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete custom field definitions |
| dmc | Manufacturing_ Admin | -Execution | Manufacturing Configuration | Manage Data Types app | Assigned users can do the following: <ul style="list-style-type: none"> Group data fields created in the Manage Data Fields app |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|---------------------|-------------------|---|---|---|
| dmc | Manufacturing_Admin | -Execution | Manufacturing Configuration | Manage Data Fields app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete data fields |
| dmc | Manufacturing_Admin | -Execution | Manufacturing Configuration | POD Designer app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete production operator dashboards (PODs) |
| dmc | Manufacturing_Admin | -Execution | Manufacturing Configuration | Manage OEE Time Model Configuration app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, and edit OEE time elements |
| dmc | Manufacturing_Admin | -Execution | Manufacturing Configuration | Manage Standard Rates app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete standard rates |
| dmc | Manufacturing_Admin | -Execution | Manufacturing Configuration | Assign Time Element Types app | Assigned users can do the following: <ul style="list-style-type: none"> Assign resource statuses to time element types Change the assignment of the resource statuses |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|-------------------------|-------------------|---|---|--|
| dmc | Manufacturing_ Admin | -Execution | Manufacturing Configuration | Manage Next Numbers app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, and edit numbering patterns |
| dmc | Manufacturing_ Admin | -Execution | Manufacturing Configuration | Manage Document Print Templates app | Assigned users can do the following: <ul style="list-style-type: none"> Specify, edit, and delete the information that is available for printing and define, edit, and delete print formats |
| dmc | Manufacturing_ Admin | -Execution | Manufacturing Configuration | Manage Printers app | Assigned users can do the following: <ul style="list-style-type: none"> Set up, edit, and delete printers to print various types of production-related documents |
| dmc | Manufacturing_ Admin | -Execution | Manufacturing Configuration | Reprint Documents app | Assigned users can do the following: <ul style="list-style-type: none"> Reprint or view documents that were printed for specific SFCs or orders. |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|---------------------|-------------------|---|---|--|
| dmc | Manufacturing_Admin | -Execution | Manufacturing Configuration | Manage Buyoffs app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, and edit buy-offs |
| dmc | Manufacturing_Admin | -Execution | Technical Configuration and Integration | Manage Collaboration Links app | Assigned users can do the following: <ul style="list-style-type: none"> Map directives to a system action for use with the collaboration |
| dmc | Manufacturing_Admin | -Execution | Technical Configuration and Integration | Manage Collaboration Directives app | Assigned users can do the following: <ul style="list-style-type: none"> Create directives by copying existing ones to use with the collaboration |
| dmc | Manufacturing_Admin | -Execution | Technical Configuration and Integration | Integration Message Dashboard app | Assigned users can do the following: <ul style="list-style-type: none"> View, process, and delete integration messages Retry failed integration messages and submessages |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|---------------------|---------------------------|--|--|---|
| dmc | Manufacturing_Admin | -Execution | <i>Technical Configuration and Integration</i> | <i>Manage Integration Workflows</i> | Assigned users can do the following: <ul style="list-style-type: none"> View and update the workflow configurations for inbound and outbound collaboration |
| dmc | Manufacturing_Admin | -Execution | <i>Manufacturing Execution</i> | <i>Manage Floor Stock</i> app | Assigned users can do the following: <ul style="list-style-type: none"> Receive, edit, and view floor stock |
| dmc | Manufacturing_Admin | -Execution | <i>Manufacturing Master Data Management</i> | <i>Manage Storage Locations</i> app | Assigned users can do the following: <ul style="list-style-type: none"> Create, edit, copy, and delete storage locations |
| dmc | Manufacturing_Admin | -Manufacturing Automation | <i>Manufacturing Automation</i> | <i>Manage Automatic Triggers</i> app | Assigned users can do the following: <ul style="list-style-type: none"> View subscriptions, timers, and business rules |
| dmc | Manufacturing_Admin | -Manufacturing Automation | <i>Manufacturing Automation</i> | <i>Production Process Administration</i> app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, edit, and delete work groups Manage users in work groups |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|---------------------|---|---------------------------------|---------------------------------------|--|
| dmc | Production_Engineer | -Execution -Manufacturing Automation | <i>Manufacturing Automation</i> | <i>Deploy Shop Floor Elements</i> app | <p>Assigned users can do the following:</p> <ul style="list-style-type: none"> • View, create, edit, and delete deployment groups • Deploy and activate shop floor elements • Remove shop floor elements from deployment groups • Manage users in deployment groups • View activity logs of shop floor elements |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|---------------------|---|--|--|--|
| dmc | Automation_Engineer | -Execution -Manufacturing Automation | Manufacturing Automation | Deploy Shop Floor Elements app | <p>Assigned users can do the following:</p> <ul style="list-style-type: none"> • View, create, edit, and delete deployment groups • Deploy and activate shop floor elements • Remove shop floor elements from deployment groups • Manage users in deployment groups • View activity logs of shop floor elements |
| dmc | Manufacturing_Admin | -Execution -Manufacturing Automation | Manufacturing Automation | Deploy Shop Floor Elements app | <p>Assigned users can do the following:</p> <ul style="list-style-type: none"> • View deployment groups • Manage users in deployment groups |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|-------------------------|---|---------------------------|--|---|--|
| dmc | Production_Engineer | -Manufacturing Automation | Manufacturing Automation | Manage Automatic Triggers app | Assigned users can do the following: <ul style="list-style-type: none"> • View subscriptions • View, create, edit, copy, deploy, pause, resume, and delete timers and business rules |
| dmc | Automation_Engineer | -Manufacturing Automation | Manufacturing Automation | Manage Automatic Triggers app | Assigned users can do the following: <ul style="list-style-type: none"> • View timers and business rules • View, create, edit, copy, deploy, pause, resume, and delete subscriptions |
| ac_broker ain_broker | EQUIPMENT_READ INDICATOR_READ MODEL_READ TEMPLATE_READ | -Manufacturing Automation | Manufacturing Automation | Manage Automatic Triggers app | Roles required in addition to dmc Production_Engineer or Automation_Engineer role Note that with these roles alone, you cannot use this app. |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|---------------------|---|---------------------------------|--|---|
| dmc | Production_Engineer | -Execution -Manufacturing Automation | <i>Manufacturing Automation</i> | <i>Design Production Processes</i> app | <p>Assigned users can do the following:</p> <ul style="list-style-type: none"> • View, create, edit, copy, and delete production process designs • View, create, run, edit, download, and delete cloud processes • View, download, production processes (automation sequences) based on the Production Connector / SAP Plant Connectivity • Export and import production process designs with cloud processes and relevant services • Import cloud processes and automation sequences from other production process designs • Submit production proc- |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|---------------|-------------------|-----------------|------------|---|
| | | | | | ess designs with cloud processes for deployment and activation |
| | | | | | <ul style="list-style-type: none"> • Debug cloud processes • Manage users and work groups • Manage error codes • View activity logs of production process designs |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|---------------------|---|---------------------------------|--|---|
| dmc | Automation_Engineer | -Execution -Manufacturing Automation | <i>Manufacturing Automation</i> | <i>Design Production Processes</i> app | <p>Assigned users can do the following:</p> <ul style="list-style-type: none"> • View, create, edit, copy, and delete production process designs • View, download, cloud processes • View, create, run, edit, download, and delete production processes (automation sequences) based on the Production Connector / SAP Plant Connectivity • Export production process designs with cloud processes and relevant services • Import automation sequences from other production process designs • Submit production process designs with production processes (auto- |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|-------------------------|---|---|------------------------------------|--|--|
| | | | | | <p>mation sequences) based on the Production Connector / SAP Plant Connectivity for deployment and activation</p> <ul style="list-style-type: none"> • Manage users and work groups • Manage error codes • View activity logs of production process designs |
| ac_broker ain_broker | DOCUMENT_READ EQUIPMENT_READ INDICATOR_READ AC_ORG_DATA_READ | -Execution -Manufacturing Automation | <i>Manufacturing Automation</i> | <i>Design Production Processes</i> app | <p>Roles required in addition to dmc Production_Engineer Or Automation_Engineer role</p> <p>Note that with these roles alone, you cannot use this app.</p> |
| dmc | Automation_Engineer | -Execution -Manufacturing Automation | <i>Manufacturing Configuration</i> | <i>Manage Document Print Templates</i> app | <p>Assigned users can do the following:</p> <ul style="list-style-type: none"> • Specify, edit, and delete the information that is available for printing • Define, edit, and delete print formats |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|---------------------|-------------------|--|---------------------------------------|---|
| dmc | Automation_Engineer | -Execution | Manufacturing Configuration | Manage Printers app | Assigned users can do the following: <ul style="list-style-type: none"> Set up, edit, and delete printers to print various types of production-related documents |
| dmc | Automation_Engineer | -Execution | Manufacturing Master Data Management | Manage Carriers app | Assigned users can do the following: <ul style="list-style-type: none"> View carriers |
| dmc | Automation_Engineer | -Execution | Manufacturing Configuration | Reprint Documents app | Assigned users can do the following: <ul style="list-style-type: none"> Reprint or view documents that were printed for specific SFCs or orders |
| dmc | Automation_Engineer | -Execution | Manufacturing Configuration | Manage Buyoffs app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, and edit buy-offs |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|---|---------------------------|---|--|--|
| ac_broker | EQUIPMENT_DELETE TEMPLATE_DELETE | -Manufacturing Automation | <i>Manufacturing Automation</i> | <i>Manage Equipment Connectivity</i> app | <p>Roles required in addition to dmc roles.</p> <p>Assigned users can do the following:</p> <ul style="list-style-type: none"> View, create, update, and delete connectivity between tags and equipment |
| ac_broker | EQUIPMENT_READ TEMPLATE_READ | -Manufacturing Automation | <i>Manufacturing Automation</i> | <i>Manage Equipment Connectivity</i> app | <p>Roles required in addition to dmc roles.</p> <p>Assigned users can do the following:</p> <ul style="list-style-type: none"> View connectivity between tags and equipment |
| ac_broker | DOCUMENT_READ | -Execution | <i>Manufacturing Master Data Management</i> | <i>Manage Materials</i> app | <p>Assigned users can do the following:</p> <ul style="list-style-type: none"> View materials |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|-------------------------|------------------------|-------------------|--------------------------------|--|--|
| ac_broker ain_broker | CONFIGURATION_ EDIT | -Administration | Administration | Application Settings app | <p>Assigned users can do the following:</p> <ul style="list-style-type: none"> • Add, view, and edit users • Add, view, and edit invitee users • Add and delete email domains for automatic user onboarding • Maintain the external IDs of integrated systems • Manage external systems to add SAP IoT as an external system • Change other application settings |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|-------------------------|--------------------------|-------------------|-----------------------|-------------------------------------|---|
| ac_broker ain_broker | CONFIGURATION_ DELETE | -Administration | <i>Administration</i> | <i>Application Settings</i> app | <p>Assigned users can do the following:</p> <ul style="list-style-type: none"> • Add, view, edit, and delete users • Add and delete email domains for automatic user onboarding • Maintain the external IDs of integrated systems • Manage external systems to add SAP IoT as an external system • Change other application settings |
| ac_broker | CONFIGURATION_ READ | -Administration | <i>Administration</i> | <i>Application Settings</i> app | <p>Assigned users can do the following:</p> <ul style="list-style-type: none"> • View users and other application settings |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|-------------------------|---------------------------|-------------------|-----------------------|--|--|
| ac_broker ain_broker | COMPANYPROFILE _DELETE | -Administration | <i>Administration</i> | <i>Company Profile</i> app | Assigned users can do the following: <ul style="list-style-type: none"> • View and edit the organization's company profile • Add and edit invitee organizations • Add and edit subsidiaries |
| ac_broker | COMPANYPROFILE _EDIT | -Administration | <i>Administration</i> | <i>Company Profile</i> app | Assigned users can do the following: <ul style="list-style-type: none"> • View and edit the organization's company profile |
| ac_broker | COMPANYPROFILE _READ | -Administration | <i>Administration</i> | <i>Company Profile</i> app | Assigned users can do the following: <ul style="list-style-type: none"> • View the organization's company profile |
| ac_broker ain_broker | DPP_AUTH | -Administration | <i>Administration</i> | <i>Data Protection and Privacy</i> app | Assigned users can do the following: <ul style="list-style-type: none"> • View your personal data and the personal data of other data subjects |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|-------------------------------------|---------------------------|---|--------------------------------------|--|
| ain_broker | PARTNERS_READ | -Administration | <i>Administration</i> | <i>Business Partners</i> app | Assigned users can do the following: <ul style="list-style-type: none"> View the details of business partners |
| ain_broker | DOCUMENT_READ | -Execution | <i>Manufacturing Master Data Management</i> | <i>Manage Materials</i> app | Assigned users can do the following: <ul style="list-style-type: none"> View material attachments |
| ac_broker | EQUIPMENT_READ TEMPLATE_READ | -Manufacturing Automation | <i>Manufacturing Automation</i> | <i>Manage Automatic Triggers</i> app | Roles are required in addition to dmc roles. Assigned users can do the following: <ul style="list-style-type: none"> View subscriptions, timers, or business rules |
| ac_broker | EQUIPMENT_DELETE TEMPLATE_DELETE | -Manufacturing Automation | <i>Manufacturing Automation</i> | <i>Manage Automatic Triggers</i> app | Roles are required in addition to dmc roles. Assigned users can do the following: <ul style="list-style-type: none"> View, create, update, and delete subscriptions, timers, or business rules |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|---|---|-------------------|---|--|---|
| ain_broker ac_broker iot_services | Production_Supervisor EQUIPMENT_READ TEMPLATE_READ Abstract_Model_Read | -Execution | Manufacturing Execution | Line Monitor POD (Default) app | Assigned users can do the following: <ul style="list-style-type: none"> Monitor the production line for a plant in the production, quality, asset, and OEE perspectives |
| dmc | Production_Engineer | -Execution | Manufacturing Configuration | Overlay Authoring Tool app | Assigned users can do the following: <ul style="list-style-type: none"> View and manage overlays |
| dmc | Production_Operator | -Execution | Manufacturing Execution | Overlay Authoring Tool app | Assigned users can do the following: <ul style="list-style-type: none"> View overlays |
| dmc | Production_Supervisor | -Execution | Manufacturing Execution | Line Monitor Asset Overview plugin | Assigned users can do the following: <ul style="list-style-type: none"> View an overview of overall asset status for work centers within a specific time range |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|-----------------------|-------------------|---|---|---|
| dmc | Production_Supervisor | -Execution | Manufacturing Execution | Line Monitor Image Overlay plugin | Assigned users can do the following: <ul style="list-style-type: none"> • Display plant or work center information visually, based on a pre-configured Image Overlay Project |
| dmc | Production_Supervisor | -Execution | Manufacturing Execution | Line Monitor Selection plugin | Assigned users can do the following: <ul style="list-style-type: none"> • Configure the Line Monitor Selection plugin and its relevant filters |
| dmc | Production_Supervisor | -Execution | Manufacturing Execution | Line Monitor OEE KPIs plugin | Assigned users can do the following: <ul style="list-style-type: none"> • View the Availability (%) factor, Performance (%) factor, and the Quality (%) factor of work centers or production lines |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|-----------------------|-------------------|---|---|--|
| dmc | Production_Supervisor | -Execution | Manufacturing Execution | Line Monitor OEE Overview plugin | Assigned users can do the following: <ul style="list-style-type: none"> View an overview of the three OEE values: Availability, Performance, and Quality |
| dmc | Production_Supervisor | -Execution | Manufacturing Execution | Line Monitor Order Summary plugin | Assigned users can do the following: <ul style="list-style-type: none"> View the details of an order |
| dmc | Production_Supervisor | -Execution | Manufacturing Execution | Line Monitor Order Progress plugin | Assigned users can do the following: <ul style="list-style-type: none"> View a bullet chart tracking the production progress based on the order selected by the user in the Line Monitor Selection plugin |
| dmc | Production_Supervisor | -Execution | Manufacturing Execution | Line Monitor Production Overview plugin | Assigned users can do the following: <ul style="list-style-type: none"> View an overview of the overall orders status for various work centers within a specific time range |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|-----------------------|-------------------|---|--|---|
| dmc | Production_Supervisor | -Execution | Manufacturing Execution | Line Monitor Quality Overview plugin | Assigned users can do the following: <ul style="list-style-type: none"> View an overview of the overall quality status of the production in various work centers in a specific time range |
| dmc | Production_Supervisor | -Execution | Manufacturing Execution | Line Monitor Top 5 Availability Losses (Parent Resources) plugin | Assigned users can do the following: <ul style="list-style-type: none"> View the availability losses details based on the work center selected by the user in the Line Monitor Selection plugin |
| dmc | Production_Supervisor | -Execution | Manufacturing Execution | Line Monitor Top 5 Availability Losses (By Resources) plugin | Assigned users can do the following: <ul style="list-style-type: none"> View the availability losses details for the resource chosen in the dropdown for the work center you selected in the Line Monitor Selection Plugin |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|-----------------------|-------------------|---|---|---|
| dmc | Production_Supervisor | -Execution | Manufacturing Execution | Line Monitor Top 5 Performance Losses (Parent Resources) plugin | Assigned users can do the following: <ul style="list-style-type: none"> View the performance losses details based on the work center selected by the user in the Line Monitor Selection plugin |
| dmc | Production_Supervisor | -Execution | Manufacturing Execution | Line Monitor Yield and Scrap plugin | Assigned users can do the following: <ul style="list-style-type: none"> View phase details based on the order you selected in the Line Monitor Selection plugin |
| dmc | Production_Supervisor | -Execution | Manufacturing Execution | Line Monitor Work Center Overview plugin | Assigned users can do the following: <ul style="list-style-type: none"> Display details about work centers in an overlay |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|---|-------------------|--------------------------------|---------------------------------------|---|
| dmc | Production_Supervisor | -Execution | <i>Manufacturing Execution</i> | <i>Line Monitor Fill Color</i> plugin | Assigned users can do the following: <ul style="list-style-type: none"> Fetch the color fill information for overlay areas of an overlay rendering plugin, such as the Line Monitor Image Overlay plugin |
| dmc | Production_Supervisor Production_Engineer Manufacturing_Admin Global_Regional_Manager Plant_Manager | -Insights | <i>Manufacturing Insights</i> | <i>Order Report</i> app | Assigned users can do the following: <ul style="list-style-type: none"> View information about orders in the Order Report app |
| dmc | Production_Supervisor Production_Engineer Manufacturing_Admin Global_Regional_Manager Plant_Manager | -Insights | <i>Manufacturing Insights</i> | <i>SFC Report</i> app | Assigned users can do the following: <ul style="list-style-type: none"> View information about SFCs in the SFC Report app |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|---------------------|---------------------------|--|---|---|
| onemodel | Asset_Model_Manage | -Manufacturing Automation | Manufacturing Automation | Manage Asset Connectivity app | <p>Roles required in addition to dmc roles.</p> <p>Assigned users can do the following:</p> <ul style="list-style-type: none"> View, create, update, and delete connectivity between tags and asset indicators |
| onemodel | Asset_Model_Read | -Manufacturing Automation | Manufacturing Automation | Manage Asset Connectivity app | <p>Roles required in addition to dmc roles.</p> <p>Assigned users can do the following:</p> <ul style="list-style-type: none"> View connectivity between tags and asset indicators |
| dmc | Automation_Engineer | -Manufacturing Automation | Manufacturing Automation | Manage Asset Connectivity app | <p>Assigned users can do the following:</p> <ul style="list-style-type: none"> View, create, update, and delete connectivity between tags and asset indicators |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|------------------------|-------------------------|---------------------------|--|---|--|
| dmc | Global_Regional_Manager | -Manufacturing Automation | Manufacturing Automation | Manage Asset Connectivity app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, update, and delete connectivity between tags and asset indicators |
| dmc | Production_Engineer | -Manufacturing Automation | Manufacturing Automation | Manage Asset Connectivity app | Assigned users can do the following: <ul style="list-style-type: none"> View, create, update, and delete connectivity between tags and asset indicators |
| dmc | Production_Supervisor | -Manufacturing Automation | Manufacturing Automation | Manage Asset Connectivity app | Assigned users can do the following: <ul style="list-style-type: none"> View asset connectivity |
| dmc | Manufacturing_Admin | -Manufacturing Execution | Manufacturing Master Data Management | Manage Barcode Settings app | Assigned users can do the following: <ul style="list-style-type: none"> Scan, read, and manage barcode configurations |
| dmc | Production_Engineer | -Manufacturing Execution | Manufacturing Master Data Management | Manage Barcode Settings app | Assigned users can do the following: <ul style="list-style-type: none"> Scan, read, and manage barcode configurations |

| Application Identifier | Role Template | Area / Capability | Launchpad Group | App/Plugin | Permissions |
|--|-----------------------|--------------------------|--|---|--|
| dmc | Production_Operator | -Manufacturing Execution | Manufacturing Master Data Management | Manage Barcode Settings app | Assigned users can do the following: <ul style="list-style-type: none"> Scan, read, and manage barcode configurations |
| dmc | Production_Supervisor | -Manufacturing Execution | Manufacturing Master Data Management | Manage Barcode Settings app | Assigned users can do the following: <ul style="list-style-type: none"> Scan, read, and manage barcode configurations |
| dsc-reuse-services-quality dsc-reuse-services-prod dsc-reuse-services-az-quality dsc-reuse-services-az-prod | Alert_Display | -Execution | Manufacturing Configuration | Manage Mail Server Configurations app | Assigned users can do the following: <ul style="list-style-type: none"> View mail server configuration details used to send automated emails in response to alerts |
| dsc-reuse-services-quality dsc-reuse-services-prod dsc-reuse-services-az-quality dsc-reuse-services-az-prod | Alert_Admin | -Execution | Manufacturing Configuration | Manage Mail Server Configurations app | Assigned users can do the following: <ul style="list-style-type: none"> Configure and manage mail server configurations used to send automated emails in response to alerts |

6.3.2 Role Templates (Object-Based)

Find out about available role templates for business objects and the permissions each role template has.

Overview

The table contains an overview of all role templates for data and business objects that are available for SAP Digital Manufacturing.

To use object-based role templates to authorize users, you must always assign the `Launchpad_Access` and `Plant_Read` role templates to the users. These role templates ensure that your users have access to the SAP Digital Manufacturing launchpad and your plants.

| Role Template | Description |
|-------------------------------|---|
| <code>Launchpad_Access</code> | You can access the SAP Digital Manufacturing launchpad. |
| <code>Plant_Read</code> | <p>You can view the following data and business objects:</p> <ul style="list-style-type: none">• Certification• Custom field definition• Plant• Resource• Resource bin• Shift• Storage location• User• Work center <p>Level of access: READ</p> |
| <code>Plant_Manage</code> | <p>You can view, create, and modify the following data and business objects:</p> <ul style="list-style-type: none">• Certification• Custom field definition• Plant• Resource• Resource bin• Shift• Storage location• User• Work center <p>Level of access: READ, MANAGE</p> |

| Role Template | Description |
|------------------------|---|
| Alerts_Admin | <p>You can view, create, and modify the following entities:</p> <ul style="list-style-type: none"> • Alert • Alert type • Property set type <p>Level of access: READ, MANAGE</p> |
| Alerts_Viewer | <p>You can view the following entities:</p> <ul style="list-style-type: none"> • Alert • Alert type • Property set type <p>Level of access: READ</p> |
| Asset_Model_Manage | <p>You can view, create, and modify the following entities:</p> <ul style="list-style-type: none"> • Asset • Asset type • Structure • Attribute • Indicator • Codelist <p>Level of access: READ, MANAGE</p> |
| Asset_Model_Read | <p>You can view the following entities:</p> <ul style="list-style-type: none"> • Asset • Asset type • Structure • Attribute • Indicator • Codelist <p>Level of access: READ</p> |
| Data_Collection_Read | <p>You can view the following business object:</p> <ul style="list-style-type: none"> • Data collection <p>Level of access: READ</p> |
| Data_Collection_Manage | <p>You can view, create, and modify the following business object:</p> <ul style="list-style-type: none"> • Data collection <p>Level of access: READ, MANAGE</p> |

| Role Template | Description |
|---------------------------|--|
| Electronic_Signature_Sign | <p>You can create the following entity:</p> <ul style="list-style-type: none"> Electronic signature <p>Level of access: CREATE</p> |
| Electronic_Signature_Read | <p>You can view the following business object:</p> <ul style="list-style-type: none"> Electronic signature <p>Level of access: READ</p> |
| Equipment_Read | <p>You can view the following business object:</p> <ul style="list-style-type: none"> Equipment <p>Level of access: READ</p> |
| Nonconformance_Read | <p>You can view the following business object:</p> <ul style="list-style-type: none"> Nonconformance <p>Level of access: READ</p> |
| Nonconformance_Manage | <p>You can view, create, and modify the following business object:</p> <ul style="list-style-type: none"> Nonconformance <p>Level of access: READ, MANAGE</p> |
| POD_Configuration_Read | <p>You can view the following data object:</p> <ul style="list-style-type: none"> POD configuration data <p>Level of access: READ</p> |
| POD_Configuration_Manage | <p>You can view, create, and modify the following data object:</p> <ul style="list-style-type: none"> POD configuration data <p>Level of access: READ, MANAGE</p> |

| Role Template | Description |
|----------------|---|
| Product_Read | <p>You can view the following data and business objects:</p> <ul style="list-style-type: none"> • Bill of material • Custom value • Data field • Data type • ERP control key • Formula (including calculation data) • Material (including child objects such as packing data) • Material group • Master operation activity • Production version • Recipe • Routing • Standard rate • Unit of measure <p>Level of access: READ</p> |
| Product_Manage | <p>You can view, create, and modify the following data and business objects:</p> <ul style="list-style-type: none"> • Bill of material • Custom value • Data field • Data type • ERP control key • Formula (including calculation data) • Material (including child objects such as packing data) • Material group • Master operation activity • Production version • Recipe • Routing • Standard rate • Unit of measure <p>Level of access: READ, MANAGE</p> |
| SetPoint_Read | <p>You can view the following business object:</p> <ul style="list-style-type: none"> • Set point <p>Level of access: READ</p> |

| Role Template | Description |
|-------------------------|--|
| SetPoint_Manage | <p>You can view, create, and modify the following business object:</p> <ul style="list-style-type: none"> Set point <p>Level of access: READ, MANAGE</p> |
| Work_Instruction_Read | <p>You can view data of the following business object:</p> <ul style="list-style-type: none"> Work instruction <p>Level of access: READ</p> |
| Work_Instruction_Manage | <p>You can view, create, and modify the following business object:</p> <ul style="list-style-type: none"> Work instruction <p>Level of access: READ, MANAGE</p> |

6.3.3 Define Plant-Specific Authorizations

Learn how to authorize access to certain apps by plant.

In SAP Digital Manufacturing, users can access all apps they're authorized to use in all plants. However, for certain apps you can authorize access by plant. In addition, you can define whether users are authorized to manage (create, edit, delete, and view) or only view data.

Overview

You can define plant-specific authorizations for the following apps:

- Plant settings on the SAP Digital Manufacturing launchpad
- [Manage User Assignments](#)
- [Integration Message Dashboard](#)
- [Manage Orders](#)
- [Manage Data Collection](#)
- [Manage Set Points](#)

You use the role template `Plant_Access` to implement plant-specific authorizations. The role template has two attributes `Plant_Manage` and `Plant_Read` that you can use to define the authorization level. `Plant_Manage` enables users to create, edit, delete, and view data; `Plant_Read` authorizes them to view data.

Create a Role

In order to define plant-specific authorizations, you first create a role based on the role template `Plant_Access` in the subaccount of the SAP Business Technology Platform that you used to deploy SAP

Digital Manufacturing. Using the attributes `Plant_Manage` and `Plant_Read`, you define the authorization level for the role. For more information on creating roles using attributes, see [Attributes](#).

Create a Role Collection

In the next step, you create a role collection. This role collection consists of the role that defines the plant-specific authorization level and a role based on a role template that authorizes access to the apps. For instance, the role template `Production_Engineer` enables business users to work with the [Manage Set Points](#) app. For information on the available role templates, see [Role Templates \(Persona-Based\)](#) [page 15].

Assign the Role Collection

In the final step, you assign the role collection to users or user groups.

Additional Information

If you don't define plant-specific authorizations, users have access to all plants. If you inadvertently assign both attributes `Plant_Manage` and `Plant_Read` for the same plant to a role, `Plant_Manage` takes precedence.

Note

Plant-specific authorizations don't control the visibility of apps on the SAP Digital Manufacturing launchpad. That means that users that aren't authorized to use apps, can still see them. If they try to access the apps, the system displays an error message. Similarly, if users that have read-only access to an app attempt to create, edit or delete data in the app, the system displays an error message.

Examples

You have two plants: [1000](#) and [2000](#).

- You want user A to collect data and define set points in plant [1000](#). User A shouldn't have access to any other plants.
You create a role collection that contains a role based on the role template `Plant_Access` with attribute `Plant_Manage`: [1000](#) and a role based on the `Production_Engineer` role template.
- You want user A to collect data and define set points in plant [1000](#). User A should also be able to view data in plant [2000](#).
You create a role collection that contains a role based on the role template `Plant_Access` with attribute `Plant_Manage` [1000](#), `Plant_Read` [2000](#), and a role based on the `Production_Engineer` role template.
- You want user A to collect data in plant [1000](#) but user A shouldn't be able to define set points in plant [1000](#). This type of authorization isn't possible as the `Production_Engineer` role template enables users to manage data in both the [Manage Data Collection](#) and [Manage Set Points](#) app. You can't restrict access to business objects by app.
- You want user A to be able to collect data and define set points in all plants.
You assign a role based on the `Production_Engineer` role template.

6.4 Manage Users and Authorization

After provisioning of SAP Digital Manufacturing is complete for your organization, you can configure authorization using role collections and assign users to relevant role collections.

Context

To manage users and authorization, you can use any of the following methods:

- Use SAP Cloud Identity Services - Identity Authentication for user management and map role collections to user groups
This is recommended for the use of SAP Digital Manufacturing. For more information, see [Manage Users Using SAP Cloud Identity Services - Identity Authentication \[page 116\]](#).
- Use your own corporate identity provider to provide identity authentication directly
- Use SAP Cloud Identity Services - Identity Authentication as a proxy to delegate the authentication to your own corporate identity provider

For the last two methods, refer to the user assistance of [SAP Cloud Identity Services - Identity Authentication](#) and the documentation for your own corporate identity provider.

For information on the best practices recommended for user management on the SAP Business Technology Platform, refer to [Setting Up Your Security and Compliance Model](#).

6.4.1 Manage Users Using SAP Cloud Identity Services - Identity Authentication

Using the SAP Cloud Identity Services - Identity Authentication service, you can delegate identity authentication to an identity provider (IdP). In addition, by mapping role collections that define permissions to user groups in the IdP tenant, you can manage authorization in a more flexible way.

6.4.1.1 Configure Identity Federation and Trust

Use your SAP Cloud Identity Services - Identity Authentication tenant as an identity provider or a proxy to your own identity provider hosting your business users. This method uses Open ID Connect (OIDC) to establish trust.

To establish trust using OIDC, you first use a wizard in the SAP BTP cockpit to configure trust to your SAP Cloud Identity Services - Identity Authentication tenant as an identity provider. For more information, refer to [Establish Trust and Federation Between SAP Authorization and Trust Management Service and Identity Authentication \[page 117\]](#). Subsequently, you configure attributes that are sent from the tenant to SAP Digital Manufacturing. For more information, refer to [Add Attribute for User Groups in Identity Authentication Tenant \[page 118\]](#). Using OIDC is the recommended method to configure trust and federation and the approach described in this topic.

There's an alternative method that you can use to manually establish trust and federation between the [SAP Authorization and Trust Management Service](#) and SAP Cloud Identity Services - Identity Authentication. In this case, you exchange SAML metadata to establish trust with the SAP Cloud Identity Services - Identity Authentication tenant. You then register your subaccount with the tenant. For more information, refer to [Manually Establish Trust and Federation Between SAP Authorization and Trust Management Service and Identity Authentication](#).

If you have already established trust and federation manually using SAML protocol and would like to migrate to OIDC trust, refer to [Migrate from SAML Trust Configuration to OpenID Connect Trust with Identity Authentication](#)

Related Information

[Trust and Federation Options with SAP Business Technology Platform](#)
[Federation Attribute Settings of Any Identity Provider](#)

6.4.1.1.1 Establish Trust and Federation Between SAP Authorization and Trust Management Service and Identity Authentication

As an SAP Business Technology Platform subaccount administrator, configure trust to an SAP Cloud Identity Services - Identity Authentication tenant as an identity provider.

Prerequisites

- You're a subaccount administrator or a security administrator of the subaccount in which you've subscribed to SAP Digital Manufacturing.
- You've a SAP Cloud Identity Services - Identity Authentication tenant.

Note

You automatically receive a tenant when you subscribe to SAP Digital Manufacturing.

- The SAP Cloud Identity Services - Identity Authentication tenant is associated with the customer IDs of the relevant global account of SAP Business Technology Platform.

Procedure

1. In the SAP BTP cockpit, go to the subaccount in which you've subscribed to SAP Digital Manufacturing and choose ► [Security](#) ► [Trust Configuration](#) ►.

2. Choose [Establish Trust](#).
The [Configure Tenant](#) wizard opens.
3. Choose the SAP Cloud Identity Services - Identity Authentication tenant. The identity providers listed are the SAP Cloud Identity Services - Identity Authentication tenants associated with your customer ID. Continue with [Next](#).
4. Choose the domain configured with the SAP Cloud Identity Services - Identity Authentication tenant and continue with [Next](#).
5. You can change the name and the description of the tenant, display the resulting origin key, and enter a link text for user logon. Continue with [Next](#).
6. Review your configuration and confirm using [Finish](#).

Results

You've configured trust in your tenant of the SAP Cloud Identity Services - Identity Authentication service, which is your identity provider. SAP Cloud Identity Services - Identity Authentication creates an application with the prefix [SAP BTP subaccount](#) and the display name of your subaccount in the administration console of SAP Cloud Identity Services - Identity Authentication.

❖ Example

If your subaccount is named [My Subaccount](#), the resulting application in SAP Cloud Identity Services - Identity Authentication is [SAP BTP subaccount My Subaccount](#). Older applications start with [XSUAA_](#).

Next Steps

Add an attribute for user groups in the administration console of your SAP Cloud Identity Services - Identity Authentication tenant.

6.4.1.1.2 Add Attribute for User Groups in Identity Authentication Tenant

Configure an attribute for user groups in your Identity Authentication tenant.

Context

Configure an attribute for user groups. You can use this attribute to enable mappings between role collections in the SAP Business Technology Platform subaccount and the user groups for authorization management.

Procedure

1. Log on to the administration console of your Identity Authentication tenant.
2. Choose ► [Applications & Resources](#) ▸ and then the application you created previously.
3. On the [Trust](#) tab, choose [Subject Name Identifier](#) and select the [Primary Attribute](#) Email.
4. On the [Trust](#) tab, choose [Attributes](#) and then [Add](#).
5. Add the attribute [Groups](#).

| Self-defined Attributes | | | Collapse All | Expand All | Add |
|-------------------------|---------------------|--------------|------------------------------|----------------------------|---------------------|
| Name | Source | Value | | | |
| ▼ Groups | | | | | + |
| | Identity Direc... ▼ | Groups ▼ | | | 🗑️ |
| ▼ first_name | | | | | + |
| | Identity Direc... ▼ | First Name ▼ | | | 🗑️ |

The [Source](#) for the [Primary Attribute](#) and the [Attribute](#) depends on your configuration. For more information, refer to [User Attributes](#).

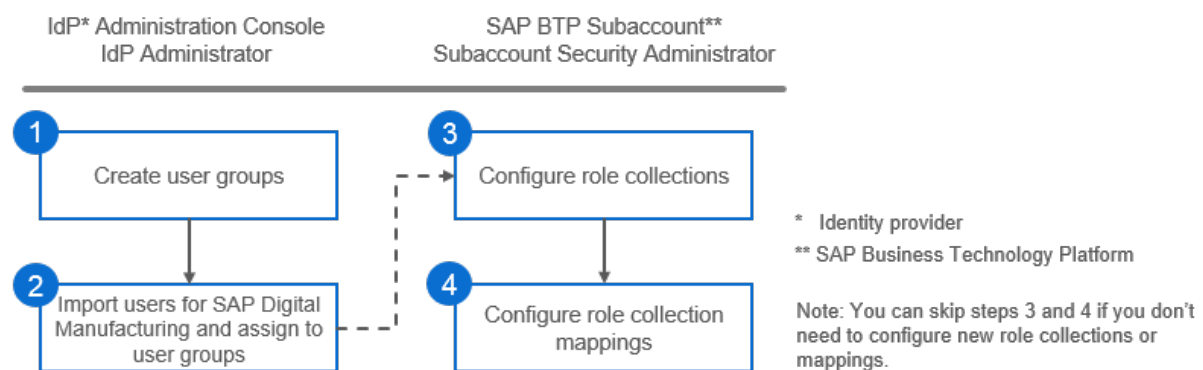
6. Save your entry.

6.4.1.2 Manage Users and Authorization

This section describes how you map users to role collections.

Context

The diagram illustrates the typical workflow:



6.4.1.2.1 Create User Groups

By creating user groups in the Identity Authentication tenant, you can organize users and manage authorization more efficiently.

Context

You can map the user groups to the role collections in the SAP Business Technology Platform subaccount. Permissions to the SAP Digital Manufacturing application are controlled based on the mappings.

You only need to create user groups and imports users if you're using the Identity Authentication tenant as your identity provider. If you're only using the Identity Authentication tenant to federate to a custom identity provider, you don't need to follow these two steps.

Procedure

1. Log on to the administration console for the tenant.
2. Under [Users & Authorizations](#), choose [User Groups](#).
3. Add user groups.

Next Steps

You can add users manually to user groups or assign users to user groups while importing the users.

6.4.1.2.2 Import Users for SAP Digital Manufacturing

As the administrator of an SAP Cloud Identity Services - Identity Authentication tenant, you can import users of SAP Digital Manufacturing using a CSV file.

Prerequisites

- You're assigned the [Manage Users](#) role for the tenant.
- You've created user groups that correspond to the role collections in the SAP Business Technology Platform subaccount.
- You've prepared a CSV file for import.
If you enter the data in the CSV file as text, you must separate the entries with commas. If you enter more than 1 value in a single entry, separate the values within the entry with commas and enclose the entry in quotation marks.
Be sure to keep the entry headers in the CSV file. In addition, leave no spaces between the entries.

⚠ Caution

If you want to update a user using a CSV file, include the new information and also repeat all information that remains unchanged. If you include only new information, the information that isn't repeated is deleted.

🔗 Example

Prepare the following CSV file:

```
status,mail,firstName,lastName,groups
active,anderson.adams@example.com,Anderson,Adams,"DMC_Admin,DMC_User"
active,maria.lin@example.com,Maria,Lin,DMC_User
```

For a full list of supported attributes, see [SAP Cloud Identity Services - Identity Authentication](#).

Context

Using the import function, you can assign users to an application while managing authorization and user status.

You can also add users manually (► [Users & Authorizations](#) ► [User Management](#) ► [Add User](#) ►) to the IAS tenant. However, the users don't automatically get access to an application with [Private](#) access control, which

is required for productive environments. To assign a user to such an application, you must still use the import function.

In addition, manually added users don't automatically get required authorizations - group assignments - to access the application.

For more information about user management in SAP Cloud Identity Services - Identity Authentication, see [User Management](#).

Procedure

1. Log on to the administration console for the tenant.
2. Under [Users & Authorizations](#), choose [Import Users](#).
3. In the application list, select the application representing SAP Digital Manufacturing.
4. Browse to the CSV file and then choose [Import](#).
5. To send activation emails to the imported users, choose ► [Send E-Mails](#) ► [Send](#) ►.

6.4.1.2.3 Configure Role Collection Mappings

As an SAP Business Technology Platform subaccount administrator, configure role collection mappings by assigning role collections to user groups created in your Identity Authentication tenant. The users within the user groups get the authorizations defined by the role collections.

Prerequisites

You've obtained the names of the relevant user groups from the administrator of the Identity Authentication tenant.

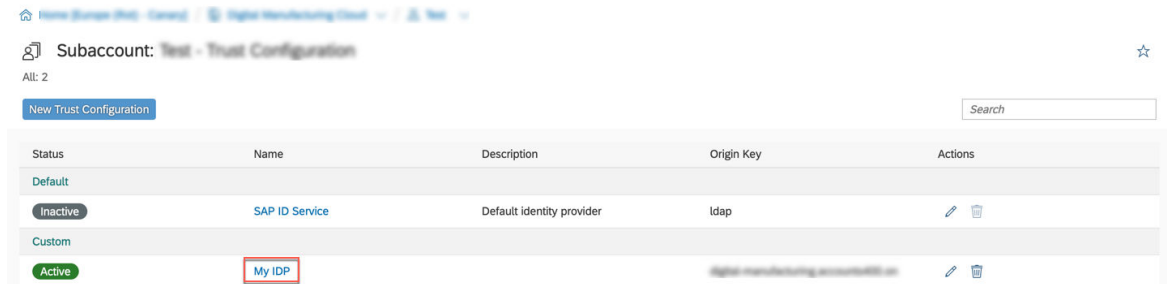
Note

You need the **names**, not the **display names**.

Procedure

1. Go to your subaccount.
 - a. Log on to the SAP BTP cockpit and select a region.
 - b. Select a global account.
 - c. Select a subaccount.
2. Choose ► [Security](#) ► [Trust Configuration](#) ►.

3. Choose the trust configuration for your Identity Authentication tenant.



4. Choose [Role Collection Mappings](#).
5. Choose [New Role Collection Mapping](#).
6. In the [Create Role Collection Mapping](#) window, select a role collection, enter **Groups** in the [Attribute](#) field, and the name of a user group in the [Value](#) field.

Create Role Collection Mapping

Role Collection:

Attribute: *

Operator: equals

Value: *

[Save](#) [Cancel](#)

7. Save the role collection mapping.

6.5 Onboard Your Organization

As an administrator and the first user of the SAP Digital Manufacturing application, you onboard your organization to the application.

Prerequisites

You've at least one role assigned for the SAP Digital Manufacturing application.

Context

In this step, you're asked to fill in some information about your organization. You can update this information at any time in the [Company Profile](#) app.

⚠ Caution

This activity is only required for tenants hosted on Amazon Web Services.

Procedure

1. Log on to the application. You're navigated to the [Organization Onboarding](#) page.
2. Complete the required information.

| Section | Field | Description |
|--|--|--|
| Company Details | [Required] Company Name | The company name must be unique for SAP Digital Manufacturing. |
| | [Required] Website | |
| | [Required] Roles | By default your organization is on-boarded as an Operator . This means that you can import assets from Asset Central Foundation. If you want to onboard equipment that isn't defined in SAP Business Network Asset Collaboration, choose Manufacturer . You can choose several roles for your organization. You can change the roles assigned to your organization in the Company Profile app. |
| Primary Contact Person | <div><div> ⓘ Note</div><div>Information regarding Asset Central Foundation apps and features that you can find in this guide, only applies to tenants provisioned using the Asset Central Model.</div></div> | |
| | Country/Region | |
| | First Name | |
| | Title / Last Name | |
| | [Required] Email Address | The email address of the contact person is used to send some notifications from the application. |

3. Choose [Save and Next](#).
4. You're navigated back to the homepage and can start using the application.

6.6 Activate User Account

To use SAP Digital Manufacturing, you need to activate your user account with the identity provider (IdP) as well as the SAP Digital Manufacturing application itself.

Prerequisites

- Your IdP administrator has configured a user account for you in the IdP tenant.
- Your IdP administrator has configured the user application access in such a way that you can access the SAP Digital Manufacturing application.

Context

If your administrator has configured SAP Cloud Identity Services - Identity Authentication as the identity provider, you receive an account activation email from SAP Cloud Identity Services - Identity Authentication when your user account is created in the tenant. If you don't receive the activation email or you can't find it (check in your spam or junk folders), contact your IdP administrator to send a password reset email, as follows:

1. Go to ► [Users & Authorization](#) ► [User Management](#) ►.
2. Select the user.
3. Under [Authentication](#), choose [Password Details](#), and then choose [Send E-Mail](#).

Procedure

1. If necessary, activate your user account with the identity provider.
2. Open the URL for SAP Digital Manufacturing.
3. Log on to the application.

ⓘ Note

If more than 1 identity provider is configured and active, **don't** enter your user name and password directly. Instead, choose the identity provider first and then enter your user name and password.

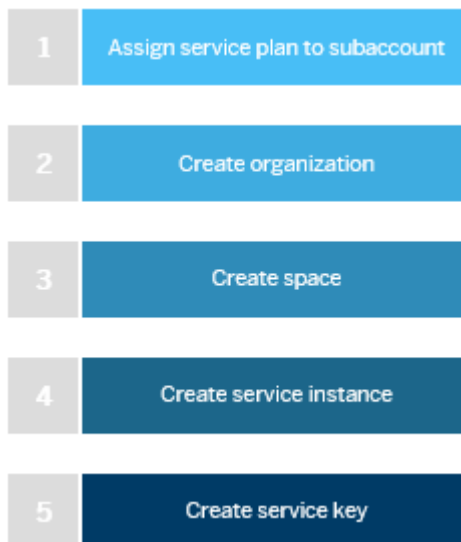
4. If the [Manufacturing Automation](#) group is available to your user account, open any app in this group and then close it.

7 Prepare for API Integration

Make the following preparations for making API calls on SAP Digital Manufacturing. This is required for third-party development as well as some system integration scenarios.

The following scenarios require you to prepare for integration following the steps below:

- Develop extensions based on APIs published by SAP Digital Manufacturing on the SAP Business Accelerator Hub
- Connect to SAP Digital Manufacturing from another system (e.g. SAP S/4HANA) for inbound calls
- Run cloud processes designed in the Production Process Designer
- Call SAP Digital Manufacturing services (for example, SFC Start service) in a cloud-based production processes



Related Information

[SAP Digital Manufacturing APIs](#) 

7.1 Assign a Service Plan to a Subaccount

Assign a service plan for `Digital Manufacturing Cloud Services` to a subaccount. You can then create service instances under this service plan in the spaces in this subaccount.

Prerequisites

The `Digital Manufacturing Cloud Services` entitlement has been allocated to your SAP Business Technology Platform global account.

Context

Procedure

1. Log on to the SAP BTP cockpit and select a region.
2. Select a global account.
3. Under *Entitlements* choose *Entity Assignments*.
4. Under *Select Entities*, select one or more subaccounts, and then choose *Select*.
5. Assign an appropriate service plan to each subaccount.
 - a. Choose ► *Configure Entitlements* ► *Add Service Plans* ►.
 - b. In the service catalog, search for **Digital Manufacturing Cloud Services**.
 - c. Select the appropriate service plan, corresponding to your license.
6. Choose *Add 1 Service Plan*.

7.2 Create an Organization

Create an organization in an SAP Business Technology Platform subaccount. This organization is automatically mapped to the subaccount.

Context

An organization is required for creating spaces for development.

Procedure

1. Go to your subaccount.
 - a. Log on to the SAP BTP cockpit and select a region.
 - b. Select a global account.
 - c. Select a subaccount.
2. Choose [Enable Cloud Foundry](#).
3. In the [Create Cloud Foundry Organization](#) window, enter a name for the organization.
4. Choose [Create](#).

7.3 Create a Space

Create spaces for different purposes in an SAP Business Technology Platform subaccount. For example, create one space for development and another for test, and allocate different quotas to different spaces.

Optionally, manage quota plans and restrict service quotas (and other quotas) to the space.

For detailed instructions on creating spaces, see [Create Spaces](#).

Related Information

[Creating the Cloud Foundry Organization and Space](#)

7.4 Create a Service Instance

Create an instance of SAP Digital Manufacturing Cloud Services under a particular service plan.

Procedure

1. Go to your subaccount.
 - a. Log on to the SAP BTP cockpit and select a region.
 - b. Select a global account.
 - c. Select a subaccount.
2. Choose ► [Services](#) ► [Service Marketplace](#) ► and then select the [Digital Manufacturing Cloud Services](#) tile.
3. Choose [Create](#).
4. Create a new instance.

5. Select the service *SAP Digital Manufacturing Cloud Services*.
6. Select the plan *execution*.
7. Select the runtime environment *Cloud Foundry*.
8. Select a space.
9. Enter a name for the instance.
10. Choose *Create*.

Related Information

[Use the command line to create a service instance](#)

7.5 Create a Service Key

Create a service key for a service instance to generate credentials.

Context

There are two ways to create a service key:

- Automatically create a service key by binding the service instance to an application
- Create a service key manually

Note

If you create the service key manually, you need to bind the service instance to an application afterwards.

Procedure

Create a service key manually:

1. Go to your subaccount.
 - a. Log on to the SAP BTP cockpit and select a region.
 - b. Select a global account.
 - c. Select a subaccount.
2. Select a space.
3. Choose ► *Services* ► *Service Marketplace* ► and then select the *Digital Manufacturing Cloud Services* tile.

4. Choose [Instances](#).
5. Create a service key:
 - a. Select an instance.
 - b. Choose [Service Keys](#).
 - c. Choose [Create Service Key](#).
 - d. Enter a name for the service key and then choose [Save](#).

Results

When the service key is created, make a note of the following:

| Parameter | Description |
|----------------------------------|--|
| <code>public-api-endpoint</code> | The base URL for making calls on public APIs |
| <code>clientid</code> | A unique string representing the registration information provided by a client, the recipient of an access token |
| <code>clientsecret</code> | The secret passphrase configured for the client |
| <code>url</code> | <p>Authorization server that authenticates the client and grants authorization</p> <p>The URL has this pattern: <code>https:// {subdomain}.authentication.{regionHost}</code>.</p> <p>The token service URL is the combination of this URL and <code>/oauth/token</code>: <code>https://{subdomain}.authentication.{regionHost}/oauth/token</code></p> |

Related Information

[Use the command line to create a service key](#)

8 Create a Destination for System Communication and Integration

Create a destination to enable internal communication and integration with external systems.

Context

The destination `S4H_INTEGRATION_OAUTH` is used by SAP Digital Manufacturing to provide authentication and authorization for internal system communication. You also require it to integrate with SAP ERP, SAP S/4HANA, and SAP S/4HANA Cloud.

⚠ Caution

You must create destination `S4H_INTEGRATION_OAUTH` so that your SAP Digital Manufacturing system functions correctly.

Procedure

1. Go to the SAP Business Technology Platform subaccount of your SAP Digital Manufacturing tenant.
2. Choose ► [Connectivity](#) ► [Destinations](#) ►.
3. Choose [Create Destination](#).
4. Enter the **Name** `S4H_INTEGRATION_OAUTH` and a description of the destination.
5. Select the **Type** `HTTP`.
6. In the **URL** field, enter the value of the `public-api-endpoint`.

You can find the value for the `public-api-endpoint` in the service key that you created when you prepared your tenant for API integration. For more information, see [Prepare for API Integration](#).

Go to the space that you created in the SAP Business Technology Platform subaccount of your SAP Digital Manufacturing tenant.

In the sidebar menu of the space, choose [Instances](#). Select the service instance to display its detail view.

Under [Service Keys](#), choose ► [Actions](#) ► [View](#) ► to display the details of the service key. The `uaa` tag of the service key also contains the `<clientid>`, `<clientsecret>`, and `<url>` that you need in steps 9 and 10.

7. Select the **Proxy Type** `Internet`.
8. Select the **Authentication** `OAuth2ClientCredentials`.
9. Enter the `<clientid of the service key>` in the **Client ID** and the `<clientsecret of the service key>` in the **Client Secret**.
10. Enter the `<URL of the service key>/oauth/token` in the **Token Service URL**.

11. Make sure that *Use default JDK truststore* is selected under *Additional Properties*.
12. Choose *Save*.


Results

You've created the destination S4H_INTEGRATION_OAUTH.

9 Enabling Alert Services

Learn how to configure SAP Digital Manufacturing to use alerts in production process designs.


You can integrate the creation and update of alerts into your production processes using the Alert Service. To do this, you need to add the Alert Service as a web server in the [Manage Web Servers](#) app. Additionally, you must add the `CreateAlert` and `UpdateAlert` services in the [Manage Service Registry](#) app.

In order to set up this feature, follow the instructions in the **Enable Alert Services** guide attached to SAP Note [3342294](#) .

10 Setting Up Single Sign-On for the *Manage Dashboards* App

Learn how to enable single sign-on (SSO) for the *Manage Dashboards* app by setting up trust between your identity provider and embedded SAP Analytics Cloud (SAC).

Prerequisites

- For browser-specific settings and troubleshooting, see SAP note [3292945](#) .
- You use SAP Cloud Identity Services - Identity Authentication as identity provider (IDP), which is recommended. You're the tenant administrator and have been assigned the appropriate roles. You've performed the following steps:
 - You've created two user groups that you want to use for establishing trust under **Users & Authorizations > User Groups**, for example IDP_DMCI_SAC_USER and IDP_DMCI_SAC_ADMIN.
 - You've assigned users to these user groups.
For more information, see [Manage Users and Authorization \[page 120\]](#).
- You've got the administrator role in your SAP Business Technology Platform subaccount.
- In your SAP Digital Manufacturing for insights subaccount in SAP BTP cockpit, you've created the following role collections and mapped them to the corresponding IDP user groups:
 - DMCI_SAC_USER_Collection (You can choose a random name for this collection.)

| Role Name | Role Template |
|---------------|---------------|
| DMCI_SAC_USER | DMCI_SAC_USER |

You need this role to access the *Manage Dashboards* app.

- DMCI_SAC_ADMIN_Collection (You can choose a random name for this collection.)

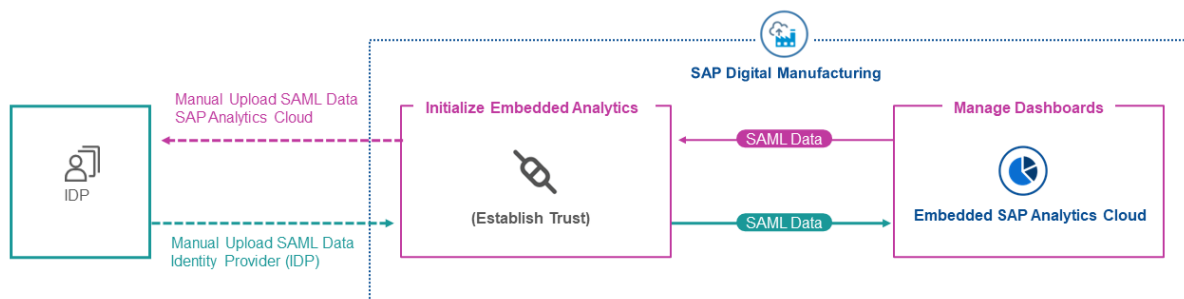
| Role Name | Role Template |
|----------------|----------------|
| DMCI_SAC_ADMIN | DMCI_SAC_ADMIN |

You need this role to access the *Initialize Embedded Analytics* app.

For more information, see [Configure Authorization by Creating Role Collections \[page 13\]](#).

- Under **Role Collections**, you've mapped the DMCI_SAC_USER_Collection to the IDP_DMCI_SAC_USER user group and the DMCI_SAC_ADMIN_Collection to the IDP_DMCI_SAC_ADMIN user group. For more information, see [Manage Users and Authorization \[page 120\]](#).

Context



SAP Digital Manufacturing for insights uses features provided by embedded SAP Analytics Cloud. These features are provided in the [Manage Dashboards](#) app. To enable a single sign-on (SSO) for the app when accessing embedded SAP Analytics Cloud, you must establish trust between the identity provider (IDP) you use for SAP Digital Manufacturing and embedded SAP Analytics Cloud. To establish trust, you need to exchange SAML authentication metadata between embedded SAP Analytics Cloud and your identity provider (IDP). In the following procedure, this IDP is the Identity Authentication service provided by SAP Business Technology Platform. In this process of establishing trust, the [Initialize Embedded Analytics](#) app acts as an intermediary between your IDP and embedded SAP Analytics Cloud.

Note

- SAP ID Service or the default IDP is not supported for the usage of embedded SAP Analytics Cloud with SAP Digital Manufacturing. We recommend setting up single-sign-on as described in this topic.

Procedure

1. In the [Initialize Embedded Analytics](#) app, choose [Download SAML Metadata](#) to download the SAML metadata of embedded SAP Analytics Cloud.
A SAML metadata XML file is downloaded to your computer.
2. In your SAP Cloud Identity Services - Identity Authentication (IDP) tenant, go to ► [Application & Resources](#) ► [Applications](#) .
3. Create a new application.
 - a. Enter a name of your choice.
 - b. Choose [SAP BTP Solution](#) as [Type](#), and [Parent application](#) as [None](#). Leave [Home URL](#) empty.
4. Choose the new application.
5. On the [Trust](#) tab, choose [SAML 2.0 Configuration](#).
6. Under [Define from Metadata](#), upload the SAML metadata XML file that you downloaded from the [Initialize Embedded Analytics](#) app.

The configuration parameters of your application are updated.

7. Save.
8. Choose [Subject Name Identifier](#).
9. Under [Basic Configuration](#), select [Email](#) as basic attribute.
10. Save.
11. Choose [Default Name ID Format](#).
12. Select [Email](#).
13. Save.
14. Choose [Attributes](#).
15. Choose [Add](#) to add the attribute [Groups](#).
16. In the [Groups](#) row, enter [sac](#) as [Expression](#).

For more information on the attributes, see [Enabling a Custom SAML Identity Provider](#).

17. In the [Email](#) row, enter [email](#) as [Identity Directory](#).
18. Save.
19. On the main menu, choose [Tenant Settings](#).
20. Choose [SAML 2.0 Configuration](#).
21. Choose [Download Metadata File](#).

A SAML metadata XML file is downloaded to your computer.

22. Open the [Initialize Embedded Analytics](#) app.
23. Under [Configuration](#), choose [Browse](#) and select the SAML metadata file downloaded from your IDP.
24. Save.
25. Refresh to see the [Identity Provider Status](#) change from [Configuration In Progress](#) to [Configured](#). This takes a few minutes.

Results

You've established trust between the systems and can access embedded SAP Analytics Cloud (SAC) without a separate user login.

As a check, go to the [Manage Dashboards](#) app and choose [Create](#) to access embedded SAP Analytics Cloud (SAC) directly using single sign-on (SSO).

11 Manage Members in an SAP Business Technology Platform Account

You can manage members on different levels: global account, subaccount, organization, and space.

Note

These instructions are applicable only to the Cloud Foundry environment.

A member must be a user managed by the trusted identity provider. The SAP ID service is the default identity provider; as long as it's not set to inactive, you can add S-users as members at various levels.

To configure destinations in a subaccount, you must be a subaccount member.

To configure integrations with other systems in a space, you must be a space member with the `Space Developer` role.

To perform development-related tasks in a space, you must be a space member with the `Space Developer` role.

Related Information

[Managing Members](#)

[Roles and Permissions](#) 

12 Add an Identity Authentication Tenant Administrator

As an administrator for an SAP Cloud Identity Services - Identity Authentication tenant, you can add more administrators in the administration console.

Prerequisites

You're assigned the [Manage Tenant Configuration](#) role.

Procedure

1. Log on to the administration console for the tenant.
2. From the side bar menu, choose ► [Users & Authorizations](#) ► [Administrators](#) ►.
3. In the administrator list, choose + ([Add](#)) and then choose [User](#).
4. Enter the email, first name, and last name for the user that you want to add as an administrator.

If a user with the email already exists in the system, the [First Name](#) and [Last Name](#) fields are automatically filled.

5. Assign the appropriate roles to the new administrator.
6. Save your entries.

Related Information

[SAP Cloud Identity Services - Identity Authentication Documentation](#)


13 Monitor Your Solution

Learn how you can monitor the health of your integration scenarios.

As an administrator you can use the *Integration & Exception Monitoring* feature of SAP Cloud ALM, which isn't part of SAP Digital Manufacturing, to monitor your end-to-end integration scenarios centrally.

- Access detailed information about the status of your integration messages in different systems across your integration scenario
- Monitor exceptions related to your integration scenario
- Alert responsible persons when problems occur
- Search and track integration messages based on business contexts, e.g. order numbers
- Trigger operation flows to automatically correct problems

For more information on *Integration & Exception Monitoring* with SAP Cloud ALM, refer to [Integration & Exception Monitoring](#) .

For detailed information on setting up and configuring SAP Cloud ALM for use with SAP Digital Manufacturing, refer to [Integration & Exception Monitoring - Setup & Configuration](#) .

Related Information

[Monitor Your Integration Scenario](#)

14 Manage Subscriptions for Cloud System Notifications

Use the [Cloud System Notification Subscriptions](#) app to add, customize, and manage subscriptions to Cloud Availability Center notifications.

You can use the app to remain informed and receive timely updates regarding SAP Cloud Services, including planned and unplanned downtimes, and other important communication.

For more information on using the [Cloud System Notification Subscriptions](#) app, see the [User Guide](#) .

Note

You can't subscribe to notifications for SAP Digital Manufacturing in the [Cloud System Notification Subscriptions](#) app. As a customer and partner using SAP Digital Manufacturing you automatically receive relevant notifications. Use the app to manage notifications for underlying services and applications such as the SAP Business Technology Platform, that are used by SAP Digital Manufacturing.


15 Decommissioning Tenants, Data Return, and Deletion

If you decommission one or several tenants, SAP deletes your data once the contract period ends. You can request the return of this data before it's deleted by SAP.

You trigger the decommissioning of a system/tenant using a request for termination, for instance, when you cancel a contract or when a contract expires. The termination starts with a notification period: As a customer, you receive a notification to inform you that your contract is going to be terminated and that you can request the return of your data using a service ticket. You can request the data return at any point in time until the termination date.

After the termination date, SAP triggers the decommissioning process of the system/tenant. Your customer accounts are deactivated and your data is deleted by technical means according to local legal requirements.

To decommission your tenants and request the return of your data, follow this procedure:

1. To create a decommissioning request, raise an incident through [SAP Support Portal](#) .
2. In this request, state the [Tenant ID](#), [Termination Date](#), and whether you request [Data Return](#).
3. Include the following information:
 - Support Component: Onboarding & Operations Issue: MFG-DM-OPS
 - Short Text: DMC Data Replication: Data return request as part of the decommissioning request
 - Priority: Medium

You receive further information on how to recover your data from your DevOps team.

Note

You must collect your data before the final termination date. SAP deletes all customer data at the end of the termination period.

16 How to Contact Us

Contact us if you encounter any issues that you can't resolve by yourself or if you want to provide feedback.

Context

If you encounter technical issues, contact us by reporting an incident on the [SAP Support Portal](#). These issues include unexpected downtime, denied access, missing authorizations, and so on.

Before reporting an incident or contacting support, make sure that you refer to SAP note [3323881](#) for information on creating incidents and troubleshooting.

Note

To report an incident, you must have an S-user account.

| Application Component | Description |
|-----------------------|--|
| MFG-DM | Digital Manufacturing |
| MFG-DM-ME | Manufacturing Execution Alert Service |
| MFG-DM-ME-MD | Master Data |
| MFG-DM-ME-PRD | Production Activities |
| MFG-DM-ME-INT | Manufacturing Integration |
| MFG-DM-ME-OEE | Manufacturing Execution - OEE |
| MFG-DM-MI | Manufacturing Insights |
| MFG-DM-MI-RPT | Analytical Reporting |
| MFG-DM-MI-LM | Line Monitor |
| MFG-DM-MI-DR | Data Replication |
| MFG-DM-MI-PQM | Predictive Quality Management |
| MFG-DM-MI-OEE | Overall Equipment Effectiveness |
| MFG-DM-EDGE | Digital Manufacturing for edge computing |
| MFG-DM-REO | Resource Orchestration |
| MFG-DM-MA | Manufacturing Automation |
| MFG-DM-MA-PCM | Production Connectivity Model |
| MFG-DM-MA-PP | Production Process |
| MFG-DM-EXT | Manufacturing Extensibility |



| Application Component | Description |
|-----------------------|-----------------------------------|
| MFG-DM-CFG | Manufacturing Configurations |
| MFG-DM-OPS | Onboarding & Operations |
| MFG-DM-FND-MAM | Digital Manufacturing Asset Model |

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