



Application Help for Production Process Designer

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Transport Production Process Designs Through SAP Cloud Transport Management

Transport SAP Digital Manufacturing configuration objects across different systems by integrating SAP Digital Manufacturing with SAP Cloud Transport Management service.

Prerequisites

- You are a global account administrator.
- You have set up your global account and at least one subaccount on SAP Business Technology Platform. For an overview of the required steps, see [Getting Started in the Cloud Foundry Environment](#).
- You have performed the initial setup steps to be able to use SAP Cloud Transport Management service. See the initial setup steps in [Set Up the Environment to Transport Content Archives directly in an Application](#) for details.

i Note

To set up the SAP Cloud Transport Management service, you only need to do the initial setup and subscribe to the SAP Cloud Transport Management service on any of your subaccounts, even if this subaccount is not your source or target tenant account for transporting data.

- You have the role of `Production_Engineer`.

Context

This integration allows you to seamlessly transfer production process designs between systems. Transport nodes represent source or target endpoints of your subaccount system.

Caution

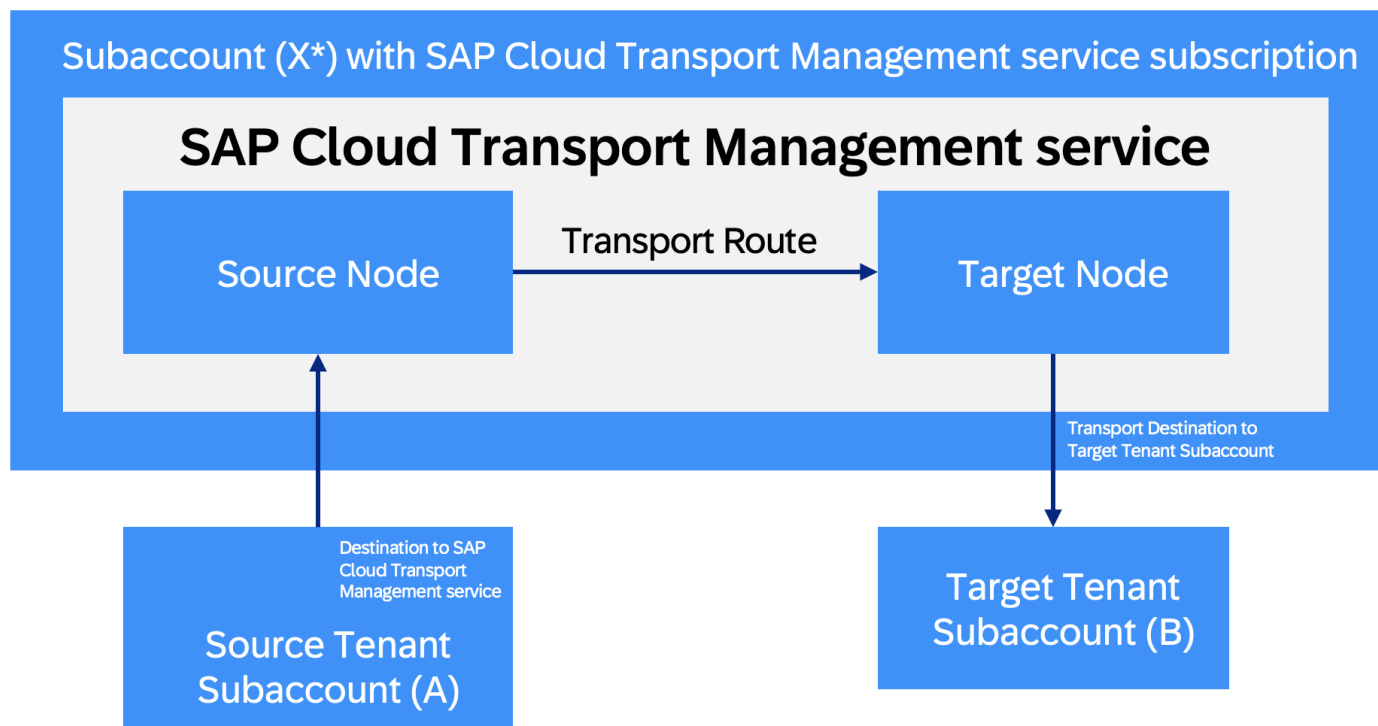
Transferring to a production system may introduce uncertain risks because the data in the production system changes. You are responsible for any changes you make. Therefore, we recommend transferring to a non-production system instead. If you're still transferring from a quality system to a production system, it's highly recommended to ensure both systems are on the same release. Avoid performing the transport during quality testing phases because system versions differ during that period. Backward transport is only used in special circumstances. Please avoid frequently performing transport between multiple systems. The best practice is to always follow the transport in one direction, such as from the development system to the quality system and from the quality system to the production system.

You're responsible for ensuring that user data transfers across systems comply with applicable data protection regulations. This includes obtaining any necessary consents or confirming a valid legal basis under your organizational policies.

For user management, refer to the relevant section in [User, Version, and Name Management](#).

i Note

Transporting production process designs with cloud processes and relevant user-defined services is supported. However, SAP Digital Manufacturing for edge computing production processes and automation sequences of Production Connector on Windows/edge runtime environment are not supported for transportation.



*X can be either A, B, or any other subaccount.

Procedure

1. Prepare task in the subaccount where you have subscribed to the SAP Cloud Transport Management service.
 - a. Create SAP Cloud Transport Management service instance and service key. You need to note down the `clientid`, `clientsecret`, `url` and `uri` of this service key to configure later the destination to SAP Cloud Transport Management service in the source tenant subaccount from which the production process designs to be exported. See [Create a Service Instance and a Service Key](#) for details.
 - b. Create transport destinations to the target tenant subaccount with the service key of SAP Digital Manufacturing services of the target system. Transport destinations are used to address the target endpoint of an import process. See [Create Transport Destinations](#) for details.

i Note

You need to have already noted down the `clientid`, `clientsecret`, `url` and `public-api-endpoint` of the service key of SAP Digital Manufacturing services of the target system (different from the service key in step 1.a). Refer to [Prepare for API Integration](#) on how to get the service key of SAP Digital Manufacturing services.

Property	Value
Name	Define a name on your own.
Type	HTTP
Description	Not required.
Proxy Type	Internet
URL	Enter the <code>public-api-endpoint</code> in the service key and add <code>/transport</code> to the end. Refer to Prepare for API Integration for details on the service key of SAP Digital Manufacturing services.
Authentication	OAuth2ClientCredentials
Client ID	Service key: <code>clientid</code>

Property	Value
	Refer to Prepare for API Integration for details on the service key of SAP Digital Manufacturing services.
Use mTLS for token retrieval	Ensure this checkbox is not selected.
Client Secret	Service key: <code>clientsecret</code> Refer to Prepare for API Integration for details on the service key of SAP Digital Manufacturing services.
Token Service URL	Enter the url in the service key and add <code>/oauth/token</code> to the end. A typical token service URL, for example, should look like <code>https://{Subdomain}.authentication.xxxx.hana.ondemand.com/oauth/token</code> Refer to Prepare for API Integration for details on the service key of SAP Digital Manufacturing services.
Token Service URL Type	Dedicated
Use Basic Credentials for Token Service	Ensure this checkbox is not selected.
Client Trust Store Configuration	Ensure Use default client trust store is selected.

2. Prepare task in the source tenant subaccount. Create a destination to SAP Cloud Transport Management service with the following information:

Property	Value
Name	SAP_DM_TRANSPORT_SERVICE
Type	HTTP
Description	Not required.
Proxy Type	Internet
URL	Service key: <code>uri</code> Refer to the information collected in the previous step.
Authentication	OAuth2ClientCredentials
Client ID	Service key: <code>clientid</code> Refer to the information collected in the previous step.
Use mTLS for token retrieval	Ensure this checkbox is not selected.
Client Secret	Service key: <code>clientsecret</code> Refer to the information collected in the previous step.
Token Service URL	Enter the url in the service key and add <code>/oauth/token</code> to the end.

Property	Value
	A typical token service URL, for example, should look like https://{Subdomain}.authentication.xxxx.hana.ondemand.com/oauth/token Refer to the information collected in the previous step.
Token Service URL Type	Dedicated
Use Basic Credentials for Token Service	Ensure this checkbox is not selected.
Client Trust Store Configuration	Ensure Use default client trust store is selected.

3. Configure in SAP Cloud Transport Management.

- a. Create a source node that represents your source tenant subaccount. This is where the production process designs are exported from. Optionally, you can use the destination to SAP Cloud Transport Management service that you created in step 2. Create a target node that represents your target tenant subaccount. This is where the production process designs are imported into. Use the transport destination that you created in step 1.b. Choose **Application Content** as the content type when creating the target node. See [Create Transport Nodes](#).

	Source Node	Target Node
Upload Allowed	Yes	No
Perform Notification	No	No
Content Type	Application Content	Application Content
Destination	[optional] SAP_DM_TRANSPORT_SERVICE	Destination created in step 1.b
Forward Mode	Pre-Import	Pre-Import
Virtual Node	No	No

- b. Create transport routes from your source transport node to target transport nodes. See [Create Transport Routes](#).

4. Send transport requests from the Production Process Designer to SAP Cloud Transport Management.

- a. On the list page of the **Design Production Processes** app, select the production process designs that you want to transfer to the target nodes you have set in SAP Cloud Transport Management.

i Note

You can select up to 20 production process designs in each transport request.

Only production process designs in certain statuses can be transported. For details, see the version section in [User, Version, and Name Management](#).

- b. Choose **Transport** in the list header.

- c. In the **Transport** window, provide the following information:

- **Source Node:** Source node you have set in SAP Cloud Transport Management. Only source nodes mapped to a target node in the transport route are visible here.
- **Description:** Add some text description for this transport. With a length no longer than 512 characters, the description can only contain A–Z, a–z, 0–9, spaces, and the following characters: ' - . _ ~ : \ / ? # [] @ ! \$ % + , ; = *

d. Choose **Confirm**. You can view transport request details in the message strip at the top of the list page after creating the transport request.

5. Import to the target nodes. For details, see [Using the Import Queue](#).

- a. Log into **SAP Cloud Transport Management** tenant using your credentials with the **Check details** link in the message strip of the **Design Production Processes** app to verify your export.
- b. In the **Transport Request** detail page, choose the target node to which you'd like to import the production process designs. You can view transport request content details in the **Content** tab of the **Transport Request** detail page.
- c. Under the **Import Queue** tab of the **Transport Nodes** detail page of target node, you can see the transport request of your production process designs ready for import.
- d. Select the transport request and choose **Import Selected**. The selected production process designs in the transport request are transported to the target system. You can also enable immediate imports of transport requests as soon as they enter a new queue, or run imports of all transport requests in a transport node regularly. For details, see [Enable Automatic Import](#) and [Schedule Imports](#).

Results

Once the import is completed, you can see the content of the production process designs available in the **Design Production Processes** app of its target system.

On the detail page of the imported production process design, choose **Show Details of Version Mapping** in the design header to view the mapping relationships between its source and current versions. You can also view the subdomain of the source system under the **Source System** column.

You can check the transport action logs in case the import fails.

Related Information

[User, Version, and Name Management](#)

User, Version, and Name Management

This topic explains how users, versions, and names are managed when transferring production process designs between systems using the export and import features of the Production Process Designer or through SAP Cloud Transport Management.

User

It's highly recommended that you use the same user throughout the entire export/import, transport process in SAP Cloud Transport Management, Production Process Designer of both the source and target systems for all operations, including any further modifications. This helps prevent import failures due to authentication issues.

If you need to use different users, be aware of the following in **Export/Import** and **Transport**:

- The system does not transfer the user who performs the import to the target system.
- If the import user is not assigned to the production process design, this user can only import the design, but can't overwrite the design in the target system later on.
- For initial import, the system transfers only the users assigned to production process designs, work group users, and work groups in the source system to the target system.
- For non-initial import, the system merges the users assigned to production process designs, work group users, and work groups in the source system with the existing user assignments, work group users, and work groups in the target system.

i Note

When importing a production process design from a source system to a target system (non-initial import), the system merges work group users rather than replacing them.

Key consideration: A work group is a shared entity. If the same work group is referenced by multiple production process designs in the target system, the merged user list applies to all of those production process designs, not just the one being imported. This can have unintended side effects on other production process designs that share the work group, so review work group assignments carefully before performing the import.

- When transferring production process designs, **Export/Import** validates that assigned users and work group users exist in the target system. **Transport** does not perform this validation. Therefore, when using **Transport**, ensure that all assigned users and work group members exist in the target system before importing. Otherwise, users that exist in the source system but not in the target system will still be visible in the assigned users and work groups of the target production process design.

Source System Production Process Design Assigned User	SAP Cloud Transport Management	Target System Production Process Design Assigned User (before import)	Target System Production Process Design Assigned User (after import)	Note
User A	User A	/	User A	initial import
User A	User B	/	User A	initial import
User A	User C	User B	User A User B	non-initial import

Version

When you do the import for the first time, the production process design version in the target system matches the version from the source system. For each subsequent import, if the production process design in the target system is in archived/deployed/awaiting un-deployment status, along with this existing one, the version of the newly-imported one in the target system increases by 0.1, no matter the version from the source system. For versioning logic, refer to the versioning logic section on this page. However, if the production process design in the target system is in draft/modified status, the version in the target system follows the version in the source system with each import.

Source System	Target System (before import)	Target System (after import)	Note
PPD1 (1.1, draft/deployed/archived/modified)	/	PPD1 (1.1, draft)	initial import
PPD1 (1.3, draft/deployed/archived/modified)	PPD1 (1.1, draft)	PPD1 (1.3, draft)	non-initial import
PPD1 (1.3, draft/deployed/archived/modified)	PPD1 (1.1, modified)	PPD1 (1.3, modified)	non-initial import
PPD1 (1.3, draft/deployed/archived/modified)	PPD1 (1.1, archived/deployed/awaiting un-deployment)	1. PPD1 (1.1, archived/deployed/awaiting un-deployment) 2. PPD1 (1.2, modified)	non-initial import

Source System	Target System (before import)	Target System (after import)	Note
PPD1 (1.3, draft/deployed/archived/modified)	PPD1 (1.1, awaiting deployment/failed)	PPD1 (1.1, awaiting deployment/failed)	non-initial import i Note This case is not allowed. The system blocks it and shows an error.
PPD1 (1.3, awaiting deployment/awaiting un-deployment/failed)			i Note This case is not allowed. The system blocks it and shows an error.

When you transport/export production process designs between systems, the system now enforces status-based restrictions to prevent unintended transfers:

- **Allowed statuses:** Production process designs in **Draft**, **Deployed**, **Archived**, or **Modified** status can be transported/exported directly. These represent stable or reviewable versions suitable for cross-system transfer.
- **Blocked statuses:** Production process designs in **Awaiting Deployment**, **Awaiting Un-deployment**, or **Failed** status cannot be transported/exported. Designs in transitional or error states are not suitable for cross-system transfer.

Version Mapping

On the detail page of the imported production process design, choose **Show Details of Version Mapping** in the design header to view the mapping relationships between its source and current versions. You can also view the subdomain of the source system under the **Source System** column. If you choose not to overwrite the target production process design in an export/import scenario, the source version information won't be brought and displayed in the target system.

Versioning Logic

Your version properties in production process designs are strings, not numbers. You can use numbers, letters (A–Z, a–z), and other characters like dots in these strings.

When auto-generating a new version, the system increments the entire numeric segment and carries over to the next segment when it reaches its upper boundary. This follows a natural number progression.

Versions with a single numeric segment:

- 1 → 2
- 9 → 10
- 19.9 → 20.0
- 119.9 → 120.0
- 1119.9 → 1120.0

Versions with a letter prefix:

The same rules apply to the numeric portion after the prefix.

- A19.9 → A20.0

Versions with multiple numeric segments:

The system increments the rightmost segment. When that segment reaches its upper boundary, it resets and the next segment to the left increments by one.

- A1.000 → A1.001 → ... → A1.999 → A2.000
- A1_000 → A1_001 → ... → A1_999 → A1_1000
- 0.0.0 → 0.0.1 → ... → 0.0.9 → 0.1.0 → ... → 0.9.9 → 1.0.0
- 1.1.9 → 1.2.0 → ... → 1.9.9 → 2.0.0

Name

If there is already the same design (same ID, same or different name, imported before) in the target system, the system will overwrite the existing design with the new one (ID won't change, still the same ID as the design of the target system). If there is already a design with the same name (same name, same or different ID, not imported before) in the target system, an error will occur. You need to change the name of the design to be imported and try again. Note that this case is only for initial imports.

The URL or path of published production processes in the production process design remains unchanged from the source system. If published production processes already exist in the target system and are deployed/awaiting un-deployment, the URL or path remains unchanged from the target system.

Source System	Target System (before import)	Target System (after import)	User Action	Note
PPD1 (ID1) - PP1 (draft/deployed/archived/modified, URL1)	/	PPD1 (ID1) - PP1 (draft, URL1)		initial import
PPD1 (ID2) - PP2 (draft/deployed/archived/modified, URL2)	PPD1 (ID1 or ID2) - PP1 (draft/deployed/archived/modified, URL1) i Note In this case, you have created this production process design directly in the target system instead of importing it.	error	Change name "PPD1" to "PPD2".	initial import
PPD1 (ID1) - PP1 (draft/deployed/archived/modified, URL1)	PPD1 (ID1) - PP1 (draft, URL1)	PPD1 (ID1) - PP1 (draft, URL1, content from source system PP1)		non-initial import
PPD1 (ID1) - PP1 (draft/deployed/archived/modified, URL1)	PPD1 (ID1) - PP1 (modified, URL1)	PPD1 (ID1) - PP1 (modified, URL1, content from source system PP1)		non-initial import
PPD1 (ID1) - PP1 (draft/deployed/archived/modified, URL1)	PPD1 (ID1) - PP1 (archived/deployed/awaiting un-deployment, URL1)	1. PPD1 (ID1) - PP1 (archived/deployed/awaiting un-deployment, URL1)		non-initial import

Source System	Target System (before import)	Target System (after import)	User Action	Note
		2. PPD1 (ID1) - PP1 (modified, URL1, content from source system PP1)		

*PPD = production process design; PP = production process

Related Information

- [Export and Import Production Process Designs](#)
- [Transport Production Process Designs Through SAP Cloud Transport Management](#)