Fabasoft

White Paper

CMIS Integration for SAP S/4HANA

2026 November Release

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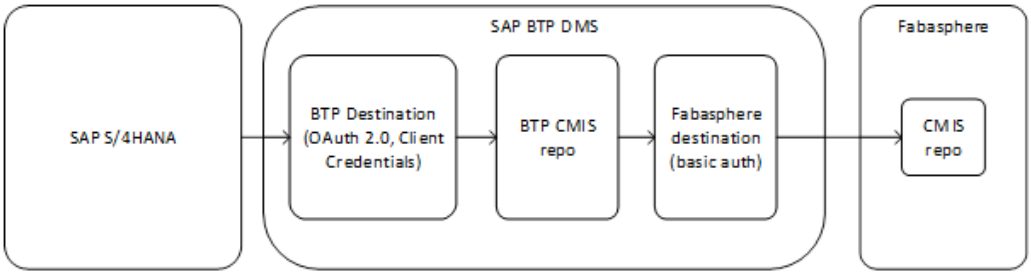
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1 Overview

The communication scheme looks as follows:



The SAP S/4HANA will first send a request to a configured BTP destination. This destination will be bound to a dedicated CMIS repository inside BTP that acts as a proxy to the CMIS repository in the Fabasphere. In order to connect to the Fabasphere, a corresponding destination should also be configured in BTP.

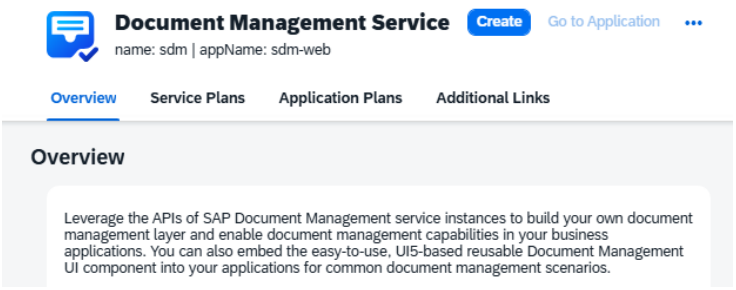
In order to create that "proxy" CMIS repository and to provide a way for SAP S/4HANA to communicate with BTP, a special Service Key must be created and associated with the previously created Document Management Instance.

This Service Key will contain the necessary credentials for the OAuth 2.0 Client Credentials authentication flow.

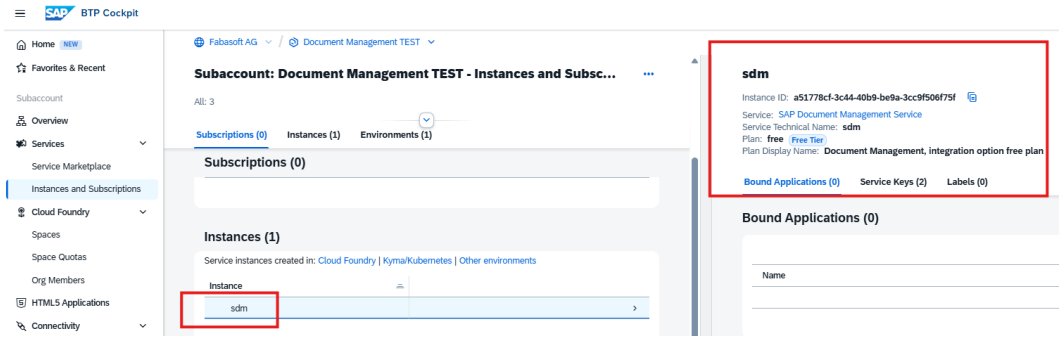
2 Prerequisites

In order to configure the CMIS Integration for SAP S/4HANA the following prerequisetes must be fulfilled:

- For the Fabasphere user who will act as a repository owner, i.e., service user, the "SAP CMIS Integration" app is needed.
- Inside SAP BTP, a dedicated subaccount with Document Management Service must be allocated by navigating to the Service Marketplace in your subaccount and choosing the Integration Option.



- An SDM instance for Document Management Service must be created.



- In SAP S/4HANA, a business user with a business role must exist. The business role must contain the business catalog `SAP_CORE_BC_COM` (Communication Management), for example, and the business role `SAP_BR_ADMINISTRATOR` (Administrator).

3 Fabasphere Preparation

The following steps have to be carried out in the Fabasphere.

3.1 Repository Creation

In order to prepare the Fabasphere repository, proceed as follows:

1. Navigate in the "SAP CMIS Integration" dashboard.
   Note: The dashboard is available on "Home", provided you have been granted the appropriate permissions in the "SAP CMIS Configuration".
2. Click "New".
3. Enter a name for the repository and select an organization it will belong to (if several organizations are available). Click "Next".
4. In the context menu of the repository click "Properties".
5. Switch to the "General" tab, copy and save the *Fabasphere ID* of the repository.

3.2 API Token Creation

An API token is a password that will be used by BTP Destination to access SAP CMIS repository in the Fabasphere.

To generate a new API token, proceed as follows:

1. Open the account menu (person symbol) and click "Settings" > "Access for Applications".
2. In the *API Tokens* field click "New".
3. In the *Valid for* field select "SAP CMIS Web Service" and in the *Validity Period* field select the wanted validity period.
4. Click "Next".
5. Save the API token for later use (it cannot be displayed again).

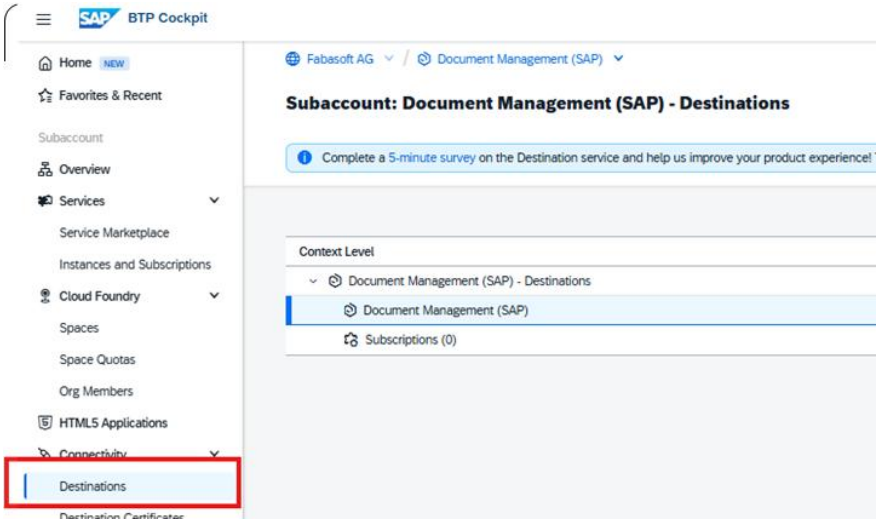
4 BTP Configuration

The BTP configuration consists of the following steps.

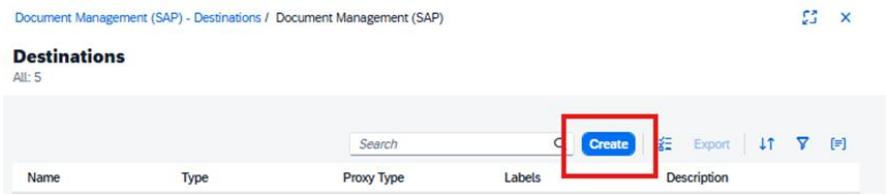
4.1 BTP Destinations

BTP Destinations are secure configurations that store connection and authentication details telling your cloud applications how to reach external remote systems or services. To create a Destination, follow these steps:

1. Navigate to the "Connectivity" > "Destinations" tab in the BTP subaccount.
2. In the context level submenu select the subaccount:



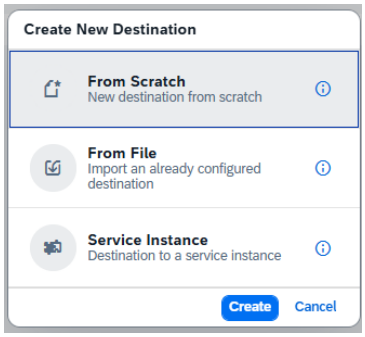
3. Press "Create" to create a new Destination:



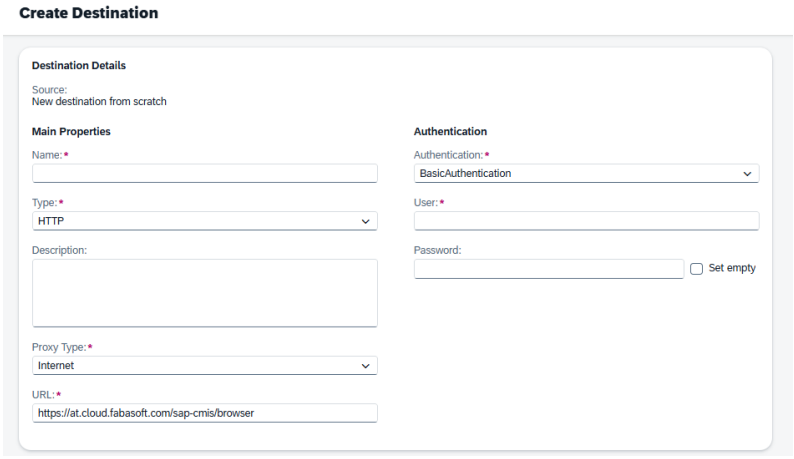
The further steps depend on destination type and use case and will be described in the following chapters.

4.1.1 Destination to Access the Fabasphere

1. Follow the steps described in chapter 4.1 "BTP Destinations", then select "From Scratch".



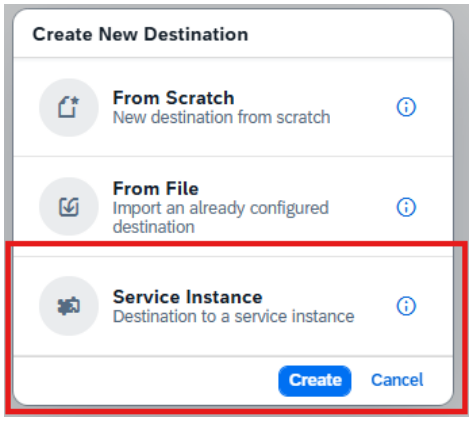
2. Fill the form with corresponding fields.



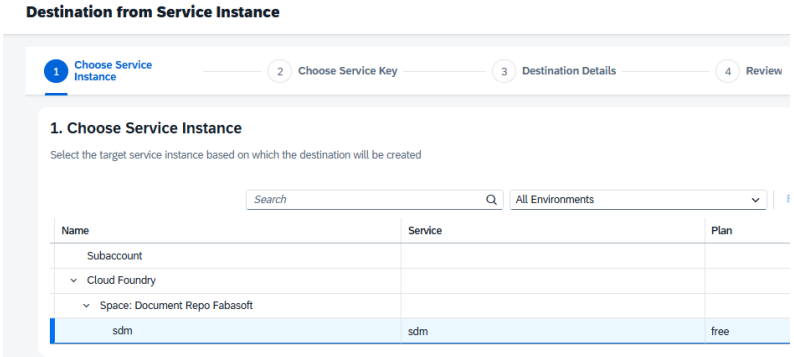
- Authentication method should be "BasicAuthentication". The username is the one used when creating a CMIS repository in the Fabasphere. The password is the API token created previously.
- To access the Fabasphere SAP CMIS service in the data location Austria, use `https://at.cloud.fabasoft.com/sap-cmis/browser` in the *URL* field.
- The destination name will later be used for creating a BTP proxy repository.

4.1.2 Destination and Service Key for SAP S/4HANA

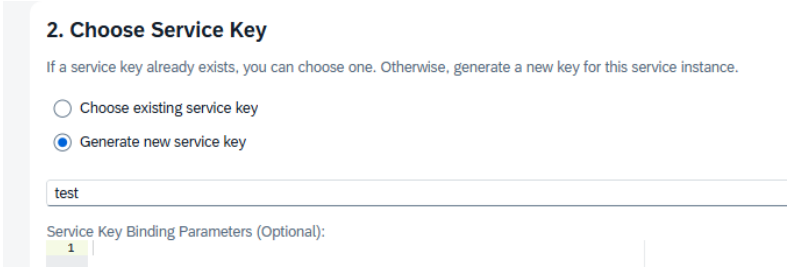
1. Follow the steps described in chapter 4.1 "BTP Destinations", then select "Service Instance".



2. Choose Service Instance and press "Next".

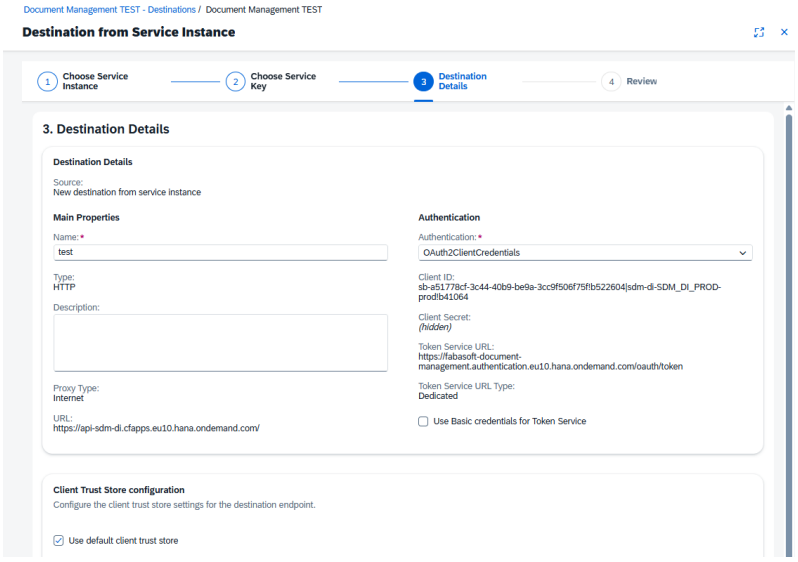


3. One could either choose an existent Service Key or generate a new one. The latter option ensures a proper key structure.

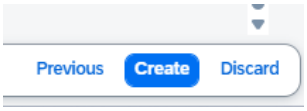


The Service Key binging parameters are optional and can be fully omitted.

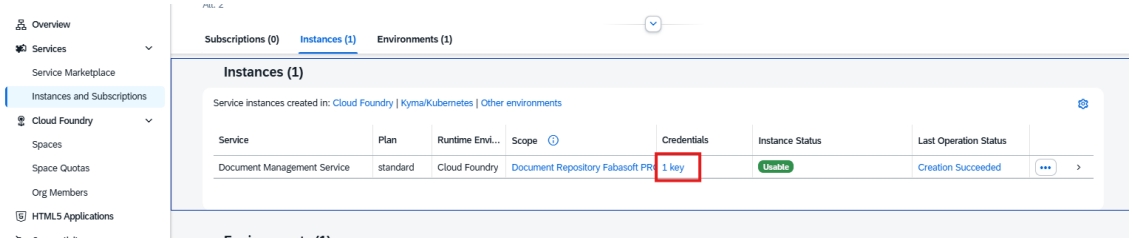
4. In the next window provide a name for the new key again, other parameters change is not necessary.



5. In the review section ensure everything is set as expected and press “Create” to confirm the choices.



6. The OAuth 2.0 ClientID and client secret can be discovered by opening the Service key in the instances overview tab.

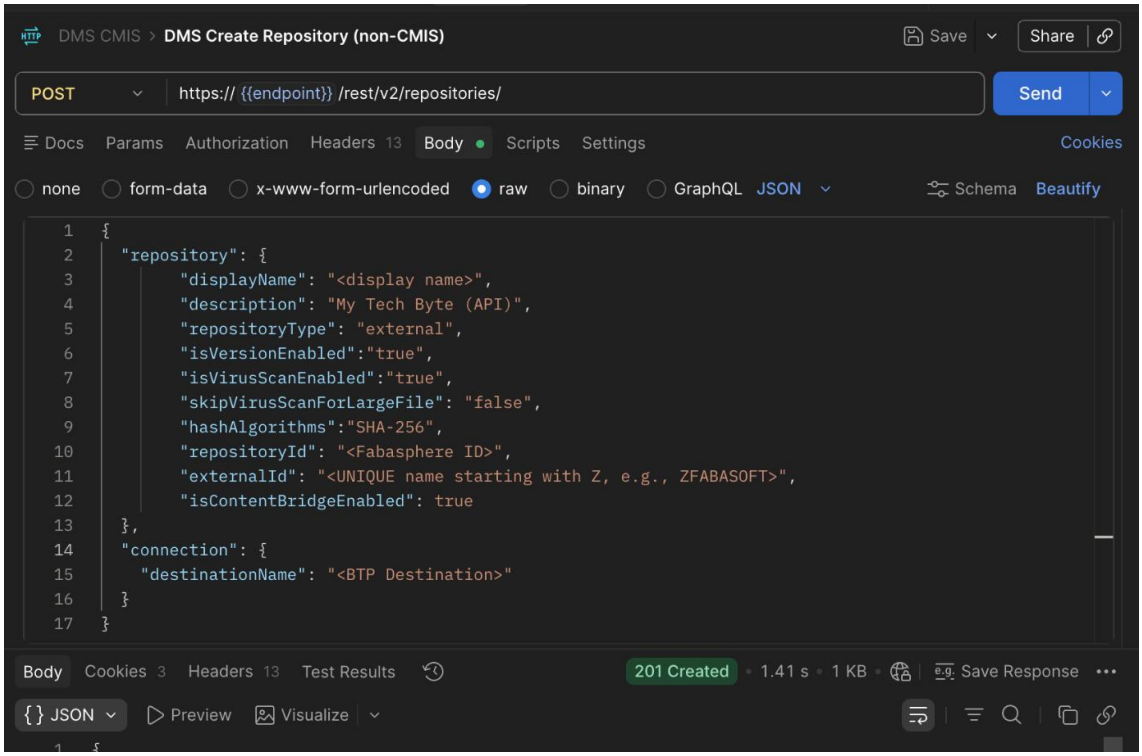


4.2 BTP API and Proxy Repository

As described in chapter 4.1.1 “Destination to Access the Fabasphere”, a proxy BTP repository needs to be created. In order to create and access it, one could use the Postman collection (https://github.com/sap-tutorials/sap-build-apps/blob/main/projects/dms/DMS_CMIS.postman_collection.json) as described here:

https://community.sap.com/t5/application-development-and-automation-blog-posts/understand-dms-api-free-postman-collection/ba-p/13980756

- The request structure to create repository should look as follows:



- The "repositoryID" is the Fabasphere ID, copied after the Fabasphere repository creation (see chapter 3.1 "Repository Creation").
- The "externalID" is a proxy repository name for SAP S/4HANA. For this repository to work the name must start with "Z" (e.g. ZFABASOFT123) and **be unique,** since according to the previous findings, if the repository has ever been used by SAP S/4HANA, the state is cached on their side and the newly created repository may never be initialized (since treated as initialized formerly). The cache validity on their side is unknown.
- The "destinationName" is the name of destination created in chapter 4.1.1 "Destination to Access the Fabasphere".

5 SAP S/4HANA Configuration

The SAP S/4HANA configuration consists of the following steps:

1. Create Communication System following these steps: https://help.sap.com/docs/SAP_S4HANA_CLOUD/0f69f8fb28ac4bf48d2b57b9637e81fa/03414f87d6e14dff9450e20e21632826.html#create-a-communication-system



- The OAuth 2.0 credentials can be found inside the Service Key (see chapter 4.1.2 "Destination and Service Key for SAP S/4HANA").
- The Authorization Endpoint field must contain a value from "uaa.url" taken from the Service Key.

2. Create Communication Arrangement following these steps: https://help.sap.com/docs/SAP_S4HANA_CLOUD/0f69f8fb28ac4bf48d2b57b9637e81fa/03414f87d6e14dff9450e20e21632826.html#create-a-communication-arrangement
   - The "Content Repository" field should contain the repository name set in the "externalID" field above (see chapter 4.2 "BTP API and Proxy Repository").
   - The "Service URL" field should contain the URL from the "ecmservice" entry of the Service Key (see chapter 4.1.2 "Destination and Service Key for SAP S/4HANA"), followed by the /browser path.
     Example: `https://api-sdm-di.cfapps.eu10.hana.ondemand.com:443/browser`
3. Storage Category should be configured and activated as described here: https://help.sap.com/docs/SAP_S4HANA_CLOUD/0f69f8fb28ac4bf48d2b57b9637e81fa/03414f87d6e14dff9450e20e21632826.html#configuration-items

Note: If the Content Repository assigned to Communication Arrangement is desired to be changed, it's not enough to just edit and save the configuration, because it will not trigger creation of necessary types and folder structure (initialization process) in the newly assigned CMIS repository. To trigger this process, apart from changing the Content Repository field, the Communication System should be changed to another one, saved, and then changed again to the original value.

6 Verification

To verify the repository initialization was successful:

1. Open repository properties in the Fabasphere.
   The list of types should contain ~170 entries and the name swap must be enabled. A good indicator it worked is having many CMIS types prefixed with "sapbo:".
2. The CMIS repository should contain the following folders:
   - Business Object Types (contains ~130 sub-folders).
   - Business Object Node Types (contains ~20 sub-folders).
   - Knowledge Provider (contains ~330 sub-folders).
3. After the verification on the Fabasphere side is complete, feel free to start working with documents in SAP S/4HANA and verify if the functionality works.