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Technical Articles



Tia Xu

June 29, 2022 | 5 minute read

Use SAP Document Management service (DMS), Application Option to Store Document Files

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Blogs for DMS series:

- [Use SAP Document Management service \(DMS\), Integration Option to Store Document Files](#)
- [Use SAP Document Management service \(DMS\), Application Option to Store Document Files](#)

Introduction of DMS

SAP Document Management Service is a content management solution on the Cloud Foundry environment of SAP BTP.

You can consume the SAP Document Management Service in different ways:

- **SAP Document Management, integration option** lets you build document management capabilities for your business applications. [Features of Document Management, integration option](#)
- **SAP Document Management, application option** is a standalone, ready-to-use web application that provides document management capabilities for your enterprise content. [Features of Document Management, application option](#)
- **SAP Document Management, repository option** lets you securely store and manage your documents. [Features of Document Management service, repository option](#)

Document Management, repository option isn't an independent offering. You can use it for storage purposes along with Document Management, integration option or Document Management, application option.

You can purchase Document Management, integration option or application option, for storage purposes, you can either connect to your own storage or use Document Management, repository option.

Your own storage should be CMIS-compliant, on-premise, or cloud repository.

Thus, you can consume the DMS by the following combination:

- Document Management, integration option + your own storage
- Document Management, integration option + Document Management, repository option
- Document Management, application option + your own storage
- Document Management, application option + Document Management, repository option

Usage of Document Management, repository option

Usage of Document Management, repository option is defined as an internal method. The Document Management Service, Repository Option can't be used as a standalone. It must be used with one of two options: Document Management Service, Application Option or Document Management Service, Integration Option.

As it's a commercial entitlement, no tiles appear in the cloud cockpit's. You should assign the entitlements of the Document Management, repository option to the same subaccount where Document Management, integration option or Document Management, application option instance is created.

In the global account, assign the entitlement to your subaccount:

Global Account: CN40 Enablement - Entity Assignments

Select Entities:

enablement-tia

enablement-tia (CN40 Enablement)

Document X

Add Service Plans Save Cancel

Service	Plan	Assign Quota	Subaccount Assignment	Remaining Global Quota	Actions
Document Management Service, Application Option	standard (Application)	<input type="checkbox"/>	5 shared units	5 shared units	
Document Management Service, Integration Option	standard	<input type="checkbox"/>	10 shared units	10 shared units	
Document Management Service, Repository Option	standard	<input type="checkbox"/>	10 shared units	10 shared units	

Usage of Document Management, application option

Step 1: Subscribe to the Document Management, application option

In the subaccount, find the tile in the **Service Marketplace**:

SAP BTP Cockpit

Overview | Services | **Service Marketplace** | Instances and Subscriptions | Cloud Foundry | HTML5 Applications | Connectivity | Security

Subaccount: enablement-tia - Service Marketplace

Filtered: 2 of 31

Document [X] [Q] All Types All Environments All Capabilities All Statuses

Extension Suite - Digital Experience

Document Management Service, Application Option
Organize your documents with ready-to-use document management capabilities.

Document Management Service, Integration Option
Provide API and UI based document management capabilities to your business applications.

Create an instance:

SAP BTP Cockpit

Overview | Services | **Service Marketplace** | Instances and Subscriptions | Cloud Foundry | HTML5 Applications | Connectivity | Security

Subaccount: enablement-tia - Service Marketplace

Filtered: 2 of 31

Document [X] [Q]

Extension Suite - Digital Experience

Document Management Service, Application Option
Organize your documents with ready-to-use document management capabilities.

Document Management Service, Integration Option
Provide API and UI based document management capabilities to your business applications.

Document Management Service, Application Option
appName: sdm-web

Create Go to Application

Overview | Application Plans

Benefit from the standalone, ready-to-use web application of SAP Document Management service that provides document management capabilities.

[Documentation](#)

Application Plans

Choose an application plan to create a subscription to this application.

Plan	Description	Availability	Active
standard	Benefit from the standalone, ready-to-use web application of SAP Document Management service th...	1 ⓘ	...

Step 2: Grant User Access

Create a new Role Collection, add corresponding scopes into it and assign the Role Collection to yourself:

- SDMWeb_Admin
- SDMWeb_User
- SDMWeb_Migration

Overview

Services

Cloud Foundry

HTML5 Applications

Connectivity

Security

Role Collections

Roles

Trust Configuration

Settings

Entitlements

Usage Analytics

CN40 Enablement

enablement-tia

Document Management Administrator

Roles (6)

Users (1)

User Groups

Attribute Mappings

Search

Role Name	Role Template	Application Identifier
SDM_Admin	SDM_Admin	sdm-di-DocumentManagement-sdm_integration1b479
SDM_MigrationAdmin	SDM_MigrationAdmin	sdm-di-DocumentManagement-sdm_integration1b479
SDM_User	SDM_User	sdm-di-DocumentManagement-sdm_integration1b479
SDMWeb_Admin	SDMWeb_Admin	sdm-DocummentManagement-sdm_application1t479
SDMWeb_Migration	SDMWeb_Migration	sdm-DocummentManagement-sdm_application1t479
SDMWeb_User	SDMWeb_User	sdm-DocummentManagement-sdm_application1t479

Users (1)

Search

ID	Identity Provider	E-Mail	First Name	Last Name
tia...	Default identity provider	tia...	Chao	Xu

User Groups

Search

Identity Provider	Name
No User Groups	

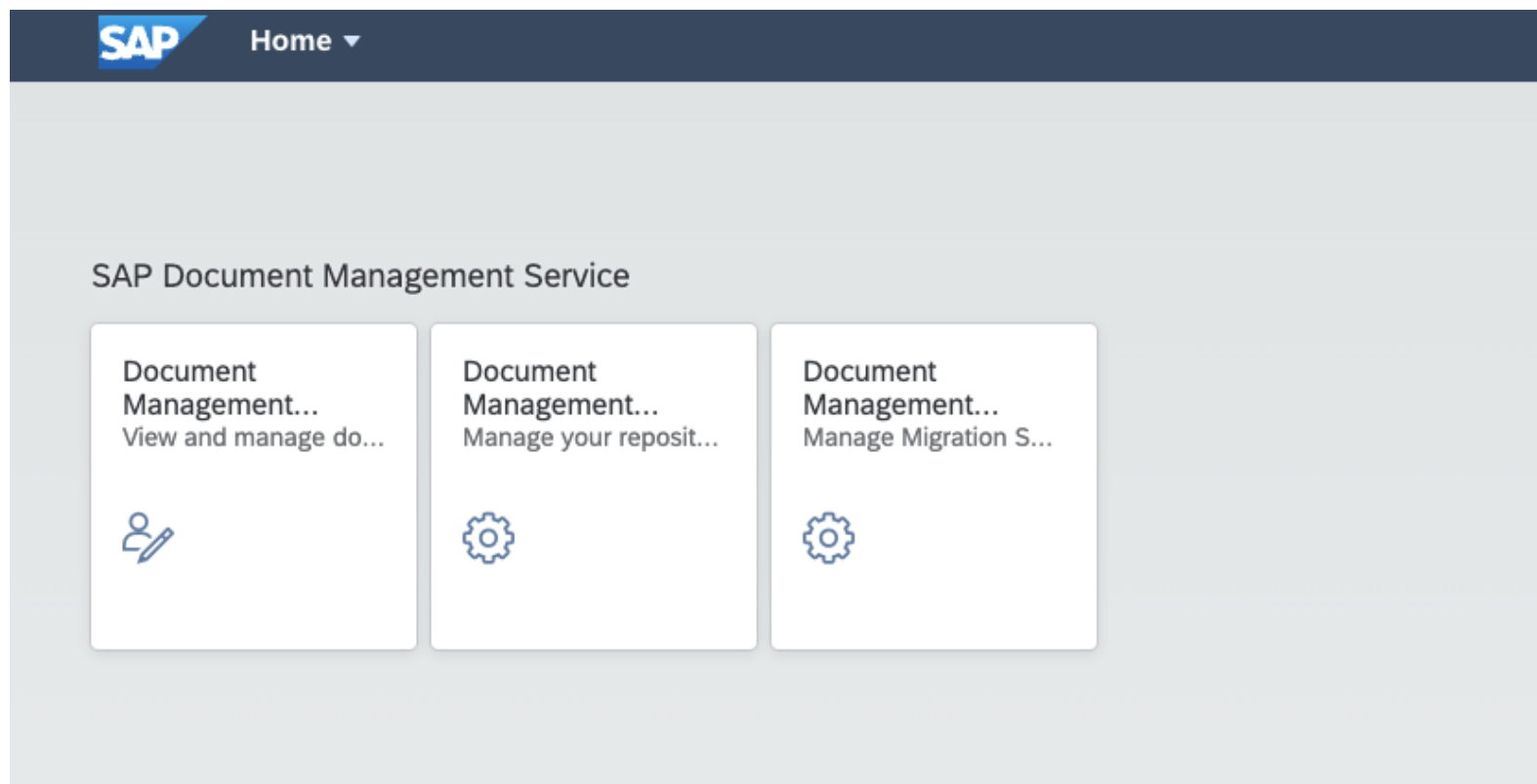
Role	Role Capabilities
SDM_Admin and SDMWeb_Admin	Provide admin capabilities to a user. With admin capabilities, a user can add, sync, update, and delete repositories.
SDM_User and SDMWeb_User	Provide capabilities to use the web UI of Document Management Service, Application Option.
SDM_MigrationAdmin and SDMWeb_Migration	Provide admin capabilities to use the web UI for Document Management Migration. With admin capabilities, you can initiate the migration, check the status, and also download the logs.

Step 3: Connect to Document Management, Repository Option


In the Document Management, application option instance, select **Go to Application**.

You can see three different tiles:


- **Document Management** that takes you to the web application for managing files and folders
- **Document Management Admin** that helps the admin to manage repositories.
- **Document Management Service Migration** to manage migration scenarios





Open the Document Management Admin tile, connect to Document Management, Repository Option by adding a repository:


<  Document Management Service Admin ▾

+ Add Repository

 Sync All Repository Metadata

 Delete





☐

Name

Description

Type

Actions

No repositories are added

Add Repository

Repository Type: *

☒ Internal ☐ External

Display Name: *

TIA_REPOSITORY

Description:

Test

Hashing Algorithm:

None

☒ Versioning

☒ Virus Scan

☒ Disable for large files ⓘ

☒ Collaboration




Add

Reset

Close

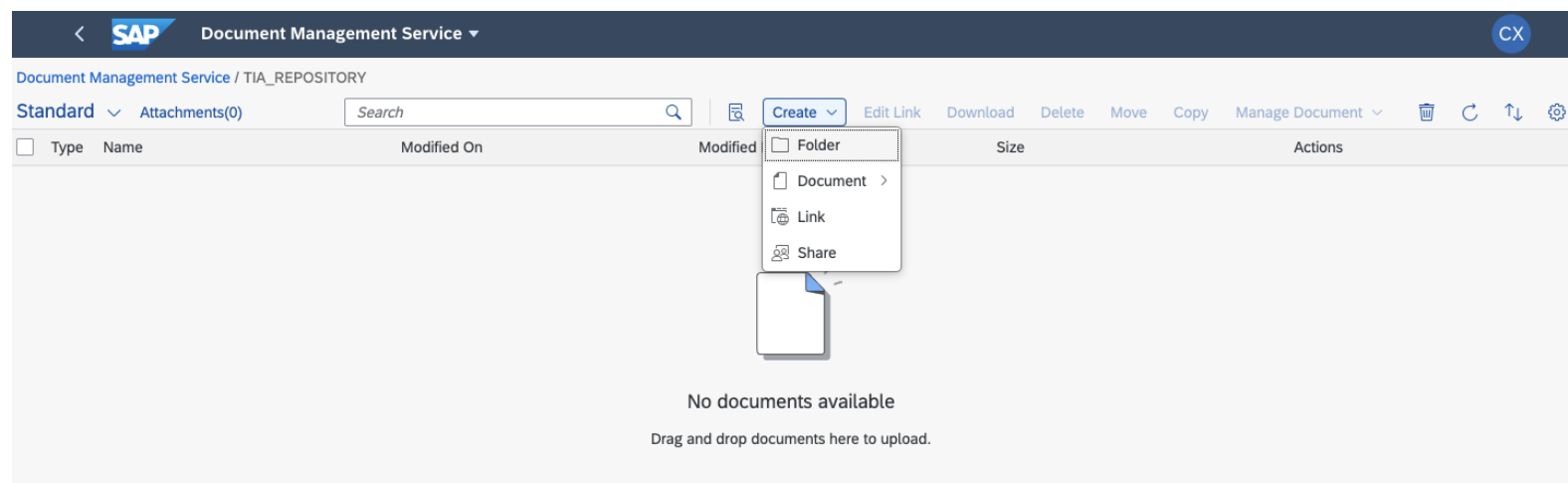
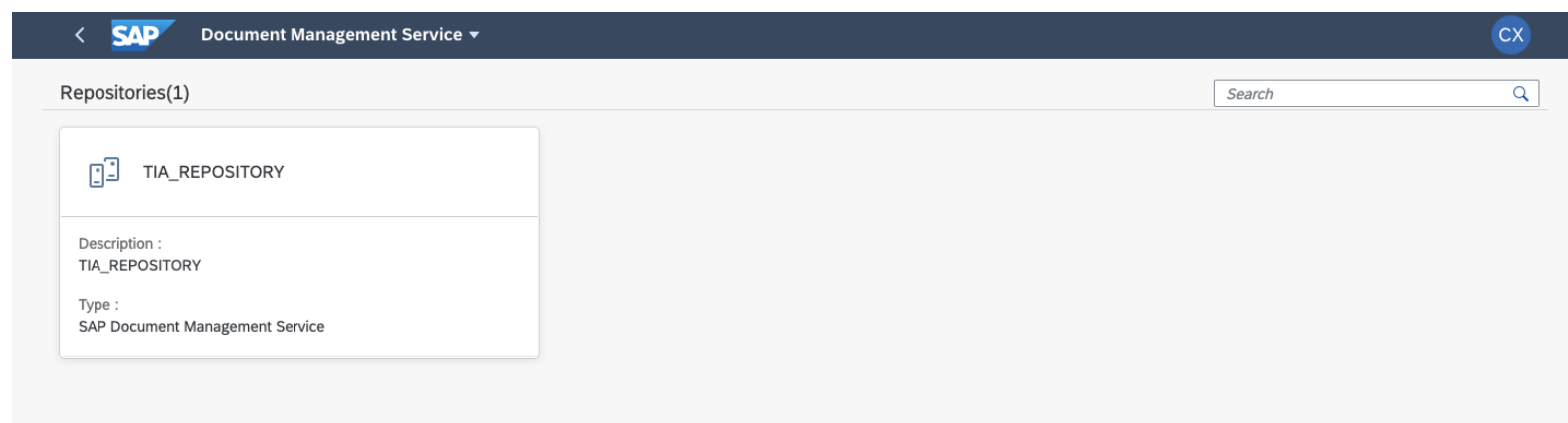
Parameter	Required	Values
-----------	----------	--------

<i>Parameter</i>	<i>Required</i>	<i>Values</i>
<i>Repository Type</i>	<i>Yes</i>	<i>Internal</i>
<i>Display Name</i>	<i>Yes</i>	<i>Name of the repository that appears in the application.</i>
<i>Description</i>	<i>Optional</i>	<i>Description of the repository.</i>
<i>Hashing Algorithm</i>	<i>Optional</i>	<i>Lists the supported hashing algorithms to generate content hash for your documents. Choose None if you don't want to generate hash.</i>
<i>Versioning</i>	<i>Optional</i>	<i>Enable the option if you want to maintain multiple versions of your documents.</i>
<i>Virus Scan</i>	<i>Optional</i>	<i>Enable the option to scan the documents before you upload them. You can upload files of size up to 400 MB.</i>
<i>Disable for large files</i>	<i>Optional</i>	<i>The option is available only if you enable virus scan. Enable the option to disable virus scan for file size greater than 400 MB.</i>
<i>Collaboration</i>	<i>Optional</i>	<i>Enable the option to create collaboration repositories. For more information, see Collaboration Repositories for Shared Folders.</i>

<div>  Document Management Service Admin </div> <div>CX</div>				
<div> <div>Repositories(1)</div> <div> + Add Repository Sync All Repository Metadata Delete Search </div> </div>				
<input type="checkbox"/> Name	Description	Type	Actions	
<input type="checkbox"/> TIA_REPOSITORY	Test	Internal	 	

Step 4: Consume Document Management, application option

Open the Document Management tile, try to add folder or files as you like:



Step 5: Collaboration Repositories

Collaboration repository can create Share folder which is set as private by default. Then you can configure the access control to share with your collaborator.

More detailed information: <https://help.sap.com/viewer/f6e70dd4bffa4b65965b43feed4c9429/Cloud/en-US/926d32b7cd5145acb93c4317f58e2751.html>

Create a shared repository by checking Collaboration attribute as below:

The screenshot shows the SAP Document Management Service Admin interface. A modal dialog for configuring the 'TIA_REPOSITORY' is open. The dialog contains the following fields and values:

- Description:** Test
- Service Instance Destination:** (empty dropdown)
- CMIS Repository ID:** 8c0d7ab26
- Repository ID:** e5e18a3f0c
- Type:** Internal
- Hashing Algorithm:** None
- Versioning:** ✓ Enabled
- Collaboration:** ✓ Enabled (highlighted with a red box)
- Virus Scan:** ✓ Enabled
- Disable for large files:** ✓ Enabled

The background interface shows a table of repositories with columns: Name, Description, Type, and Actions. The 'TIA_REPOSITORY' is listed with a description of 'Test' and a type of 'Internal'.

Create a shared folder in the root path:

SAP Document Management Service

Document Management Service / TIA_REPOSITORY

Standard Attachments(1) Search

Create Edit Link Download Delete Move Copy Manage Document

Type	Name	Modified On	Modified By	Size	Actions
Folder	Test	Jun 28, 2022	tia		i ✎ 🔗

Folder Document Link Share

SAP Document Management Service

Document Management Service / TIA_REPOSITORY

Standard Attachments(2) Search

Create Edit Link Download Delete Move Copy Manage Document

Type	Name	Modified On	Modified By	Size	Actions
Folder	Share Folder	Jun 28, 2022	tia		i ✎ 🔗
Folder	Test	Jun 28, 2022	tia		i ✎ 🔗

Add user to your shared folder:

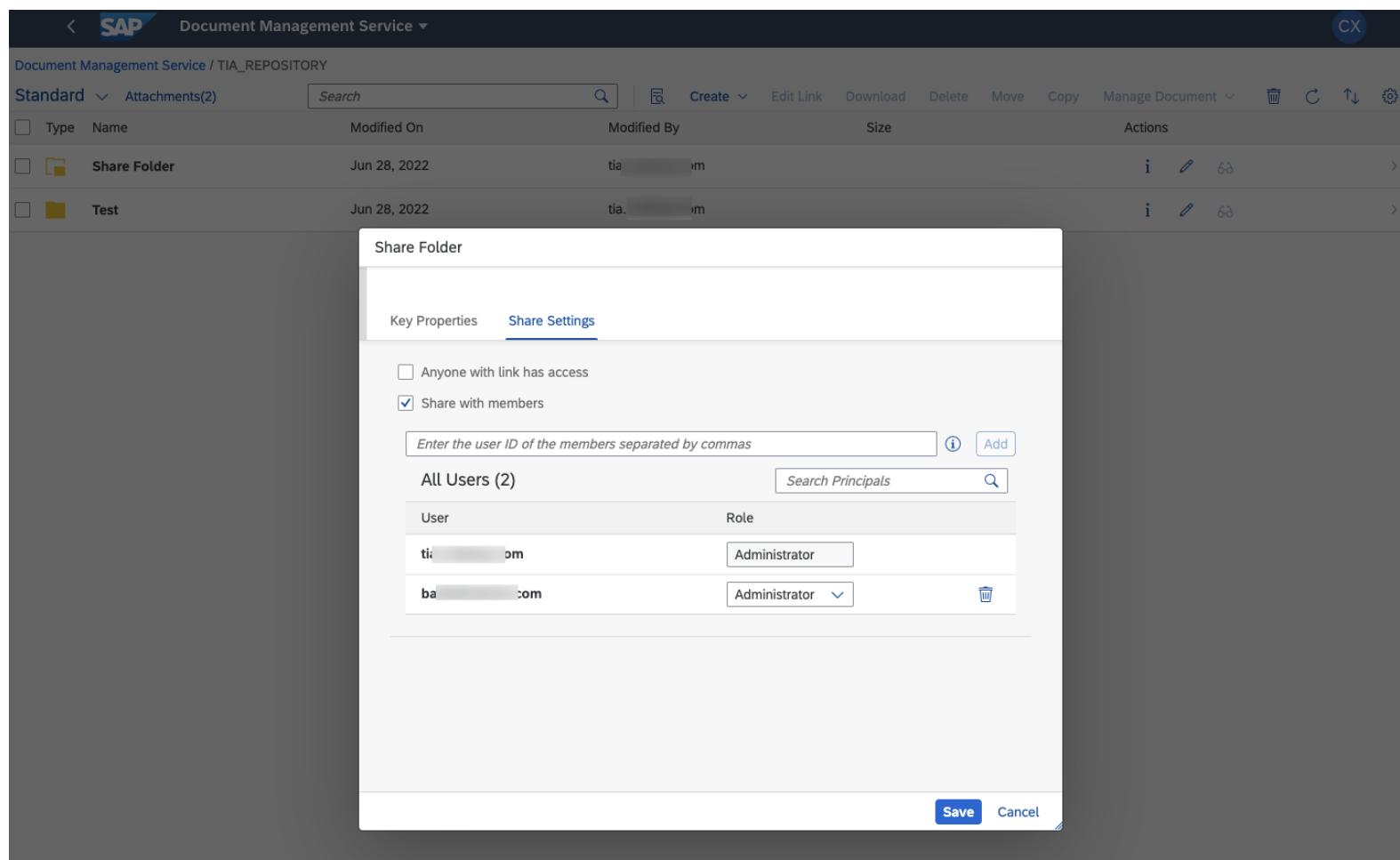
SAP Document Management Service

Document Management Service / TIA_REPOSITORY

Standard Attachments(2) Search

Create Edit Link Download Delete Move Copy Manage Document

Type	Name	Modified On	Modified By	Size	Actions
Folder	Share Folder	Jun 28, 2022	tia		i ✎ 🔗
Folder	Test	Jun 28, 2022	tia		i ✎ 🔗



Step 6: Access Application Option Repository Using API

You can access repositories onboarded via Document Management Service, Application Option through API by connecting to the instance of Document Management Service, Integration Option.

Create a **Service Instance** and **Service Key** for Document Management Service, Integration Option. For more information, see [Creating a Service Instance and Service Key](#).

Subaccount: enablement-tia - Instances and Subscriptions

All: 4

Search [] All Services [v] All Plans [v] All Statuses [v]

Subscriptions (2) Instances (1) Environments (1)

Applications to which your subaccount is currently subscribed

Application	Plan	Created On	Changed On	Status	
Integration Suite	premium_edition	16 Jun 2022	16 Jun 2022	Subscribed	...
Document Management Service, Application Option	standard	27 Jun 2022	27 Jun 2022	Subscribed	...

Instances (1)

Service instances created in: Cloud Foundry | Kyma/Kubernetes | Other environments

Instance	Service	Plan	Runtime Environment	Scope	Credentials	Status	
dms-instance	Document Management Service,...	standard	Cloud Foundry	dms	1 key	Created	...

Environments (1)

Environment instances created in this subaccount.

Name	Environment	Plan	Created On	Changed On	Status	
enablement-tia_enablement-tia	Cloud Foundry Runtime	standard	16 Jun 2022	25 Jun 2022	Created	...

In the SAP BTP cockpit, choose **Connectivity** -> **Destinations** -> **New Destination** -> **Service Instance**.

Subaccount: enablement-tia - Destinations

All: 0

Search []

New Destination Import Destination Certificates Download Trust Download IDP Metadata Renew Trust

Type	Name	Basic Properties	Actions
No destinations defined			

Destination Configuration [Blank Template] [Service Instance]

Service Instance: * [v]

Name: * []

Description: []

Additional Properties [New Property]

Next Cancel

Select the **Service Instance** that you created in the drop-down list. Enter the **Name** and **Description**.

Destination Configuration
Blank Template
Service Instance

Service Instance: * dms-instance
Name: * dms-destination
Description:

Additional Properties

Next Cancel

Choose Next -> Save.

SAP
SAP BTP Cockpit
Chao

Overview
Services
Service Marketplace
Instances and Subscriptions
Cloud Foundry
Spaces
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HTML5 Applications
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Destinations
Cloud Connectors
Security
Users
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Trust Configuration
Settings
Entitlements
Usage Analytics
Help and Support

CN40 Enablement
enablement-tia

Subaccount: enablement-tia - Destinations
All: 1

New Destination
Import Destination
Certificates
Download Trust
Download IDP Metadata
Renew Trust

Type	Name	Basic Properties		Actions
HTTP	dms-destination	Authentication ProxyType URL	OAuth2ClientCredentials Internet https://sap.com/DUMMY_URL	

Destination Configuration

Name: * dms-destination
Type: HTTP
Description:
URL: * https://sap.com/DUMMY_URL
Proxy Type: Internet
Authentication: OAuth2ClientCredentials
Use mTLS for token retrieval:
Client ID: * sb-642b... dm-di-Do...
Client Secret: *****
Token Service URL Type: Dedicated
Token Service URL: * https://enablement-tia.authentication.cn40.platform.sapcloud.c...
Token Service User:
Token Service Password:

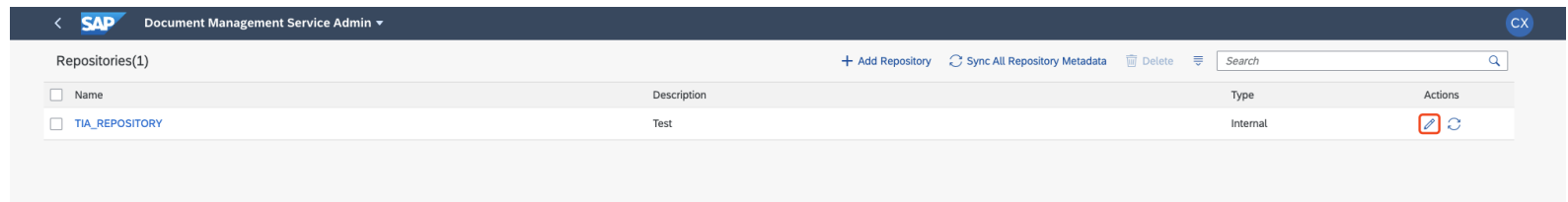
Additional Properties
New Property

endpoints ["ecmservice";{"url": "...}]
html5-apps-... ["app_host_id":"573...]
saasregistry... true
sap.cloud.s... com.sap.ecm.reuse
uri https://api-di.sdm.cn...
Use default JDK truststore

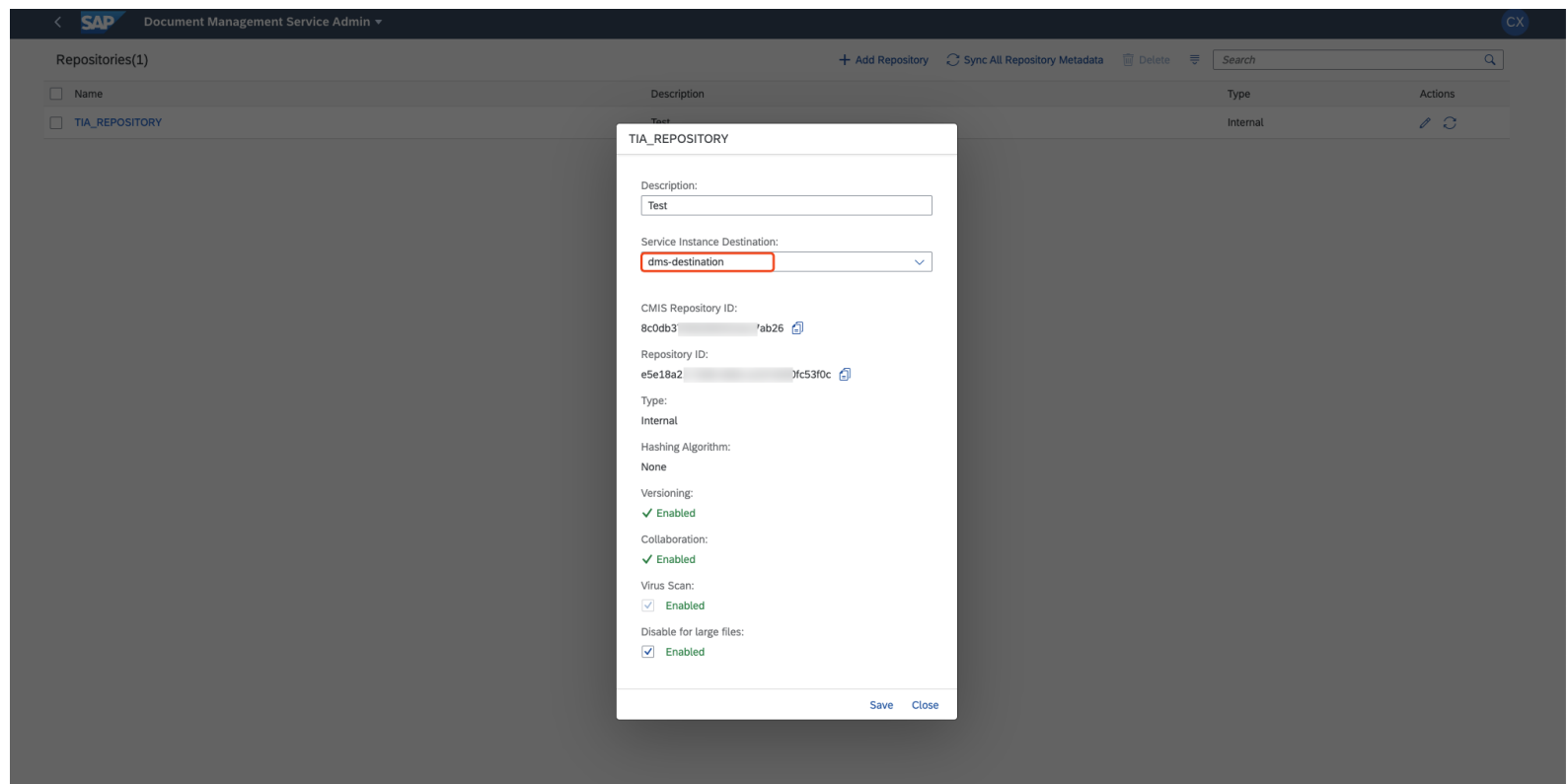
Edit Export Delete Check Connection

Open the Document Management Service admin view.

Choose the icon to edit your repository.



In the dialog box that appears, enter the destination name that you created in the field Service Instance Destination.



Choose **Save** to update your repository.

Consume API to connect your repository. For more information, see [Connecting Your Own Repository to Document Management Service, Integration Option](#).

For example:

GET `{{ecmservice-url}}/rest/v2/repositories/` Send

Params **Authorization** Headers (7) Body Pre-request Script Tests Settings Cookies

Headers Hide auto-generated headers

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> Authorization	Bearer eyJhbGciOiJSUzI1NiIsImprdiI6Imh0dHBzOi8vZW5hYmxlbWVudC10aWEu	
<input checked="" type="checkbox"/> Postman-Token	<calculated when request is sent>	
<input checked="" type="checkbox"/> Host	<calculated when request is sent>	
<input checked="" type="checkbox"/> User-Agent	PostmanRuntime/7.29.0	
<input checked="" type="checkbox"/> Accept	*/*	
<input checked="" type="checkbox"/> Accept-Encoding	gzip, deflate, br	
<input checked="" type="checkbox"/> Connection	keep-alive	
Key	Value	Description

Body Cookies Headers (9) Test Results (3/4) Status: 200 OK Time: 1368 ms Size: 1021 B Save Response

Pretty Raw Preview Visualize JSON

```

1 {
2   "repoAndConnectionInfos": {
3     "connection": {
4       "type": "ecmdocumentservice"
5     },
6     "repository": {
7       "cmisRepositoryId": "8c0dt7ab26",
8       "createdTime": "1.226Z",
9       "description": "Test",
10      "id": "e5e18a253f0c",
11      "lastUpdatedTime": "10:34.226Z",
12      "name": "TIA_REPOSITORY",
13      "repositoryCategory": "Collaboration",
14      "repositoryParams": [
15        {
16          "paramName": "isVersionEnabled",
17          "paramValue": true
18        },
19        {

```

More details: <https://help.sap.com/viewer/f6e70dd4bffa4b65965b43feed4c9429/Cloud/en-US/e5f4e592f37748759ecd551f3afcd364.html>

References

[Help Portal – SAP Document Management Service](#)

[Alert Moderator](#)

Assigned Tags

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SAP Document Management service

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[Start with SAP BTP Document Management Service \(DMS\)](#)

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[Document Management in SAP S/4HANA Cloud](#)

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[Connect Document Management Service, Application Option to DMS](#)

By Rupali Sharma Aug 14, 2020

Related Questions

[Document Management Service Repository Option Not Available for Cloud Foundry Trail](#)

By Rauf Shaikh Jun 29, 2021

[Connecting external content management servers to BTP](#)

By Prashanth Selvam Jul 02, 2021

[Attachment from Custom App - Use API or Document Service of SCP](#)

By kedarnath Tingrikar Aug 08, 2018

4 Comments

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Alexandre Giguere

June 30, 2022 at 7:19 pm

if we configure S/4HANA DMS with SAP BTP DMS for attachments in our business objects (product, article, purchase order ...)

how can we have a URL like `https:<base_url>/article/<image_id>.png`

let's say I have 20000 images for my products (articles), we would like to be able to dynamically build our URL like appending the article number to a base URL, like any content server

the CMIS generates ugly long URL

I don't think SAP BTP DMS can offer that, a tools like ECM maybe would ?

thanks

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Tia Xu | Blog Post Author
July 6, 2022 at 10:21 am

Hi Alexandre,

Have you tried to move the parameters in the URL to the body in the format of *form-data*

GET

[[ecmservice-url]]/browser/[[repository-id]]/root

Send

Params

Authorization

Headers (11)

Body

Pre-request Script

Tests

Settings

none

form-data

x-www-form-urlencoded

raw

binary

GraphQL

	KEY	VALUE	DESCRIPTION		Bulk Edit
<input checked="" type="checkbox"/>	objectId	[[object-id]]			
<input checked="" type="checkbox"/>	cmisSelector	content			
<input checked="" type="checkbox"/>	download	attachment			
<input checked="" type="checkbox"/>	filename	[[file-name]]			
	Key	Value	Description		

Like 0 | Share

**Alexandre Giguere**

July 6, 2022 at 11:41 am

that is the problem with this API, you need to know the repo ID (could be hardcoded) and the object ID

we just need API where we pass a filename, otherwise we will need a cross-reference table of object id and file name per products by example, no super convenient

alex

Like 0 | Share

**Keerthana Jayathran**

August 24, 2022 at 5:18 pm

Hi [Tia Xu](#),

In the repository type, does internal means SAP based storage service and external means Amazon S3, blobstore...

Is it possible to use Amazon S3 as the repository and store data in it. Or is the service similar to the S3 or an extension of the S3.

Will the repository changes on change in the deployed platform (like AWS, Azure, GCP...) .

Please help me with this, I am trying to understand the storage of data in DMS and how it is different from Amazon S3.

Thanks & Regards,

Keerthana

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