

Connector-as-a-Service Quick starting guide

01 Connector-as-a-Service



A "Connector-as-a-Service" (CaaS) is a cloud-based service that enables integration and data exchange between different systems and applications in a very easy way. In this case: The MDS facilitates smooth data communication and exchange in between the MDS members.

Together with our partner sovity we provide a platform that acts as a mediator between your system and those of other MDS members. Thus, the CaaS helps you to reduce the complexity of integrating and exchanging data, as no own operating environment and no detailed IT-knowledge is needed.

On the following slides, we will guide you through the installation of the CaaS and how to exchange data. We promise: The CaaS is a fast and easy start for providing and consuming data!

01 Connector-as-a-Service



Fast & easy deployment via the MDS

Uncomplicated deployment via the MDS. The setup can be implemented without IT knowledge. And if you have any questions, the MDS as well as sovity is at your side.

N:N connections with a browser-based interface

Data can be exchanged with all other MDS members using a single interface. File download and upload is also possible without REST API interface.

Easy setup and secure manage-ment of your data

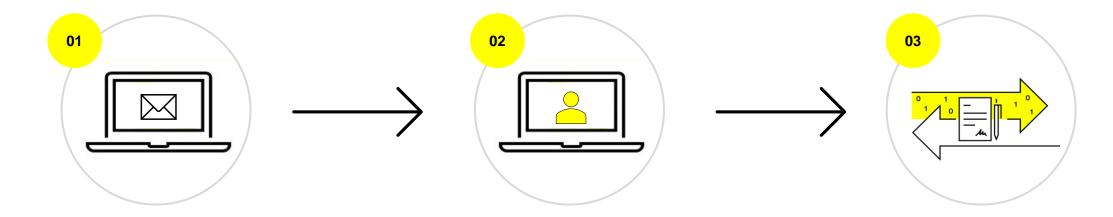
No separate operating environment is required, as the user interface can be accessed via secure web access (2-factor authentication). Data offerings can be tested, and content reviewed.

No obligations, but more service

The CaaS is available to you without a contract commitment. Even better, you enjoy all the benefits of "as-a-service":

- IT support
- no additional costs
- no own updates
- fast prototyping with sample offers and E2E solutions
- upgrade to premium CaaS versions
- · ...





Request your CaaS!

Please send your CaaS-order to community@mobility-dataspace.eu.

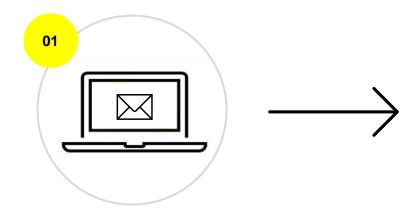
Register and set up your profile!

Register via the link in the confirmation mail and set up the 2FA.

Offer and consume data!

Rapid Prototyping with Example offers and E2E-solutions – then: data exchange!





If you are interested in the CaaS, please send an e-mail with the following information to **community@mobility-dataspace.eu**

- 1. Full name of a <u>designated person</u> who manages the connector
- 2. E-Mail address & phone number of the designated person
- 3. Company name & URL
- 4. Department / role
- 5. Environment (Test / Prod)

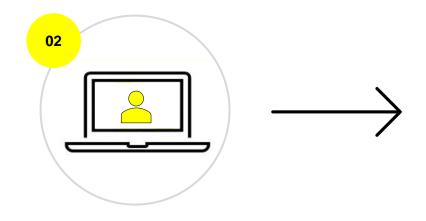
The Community Team will then order the CaaS at our partner sovity. Once the Connector is set up, you will receive an e-mail with the link to the portal where you can register / log in.

Request your CaaS!

Please send your CaaS-order to community@mobility-dataspace.eu.



Once the connector is installed/ready, you will receive a confirmation mail to access the CaaS portal. Then, follow the steps below:



Register and set up your profile!

Register via the link in the confirmation mail and set up the 2FA. 1. Click on "Forgot Your Password?"

2. Enter the e-mail address you sent the MDS upon ordering the CaaS

3. You will receive an email with the reset link

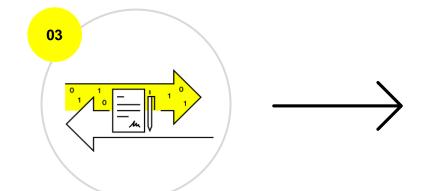
4. Set-up your account with a 2-factor-authentication











On the following slides you will figure out how to set up your data offers and how to exchange data.

Offer and consume data!

Rapid Prototyping with Example offers and E2E-solutions – then: data exchange!

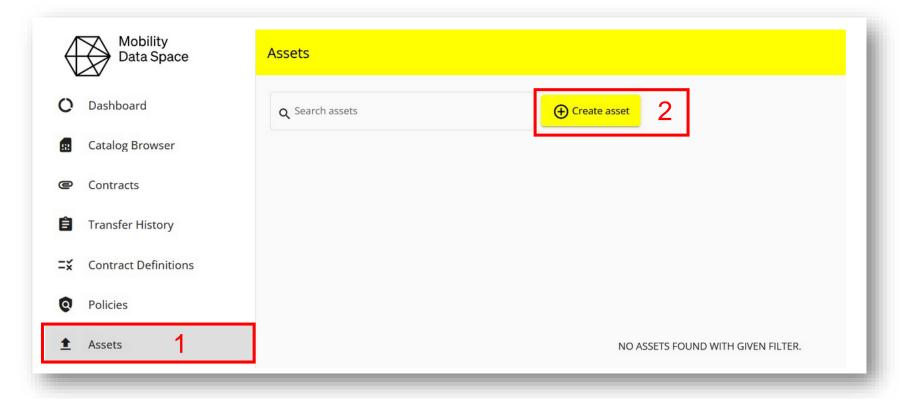
03 How to offer data

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To offer data you need to define the data asset first:

Open the Assets tab (1) and click on Create asset (2)



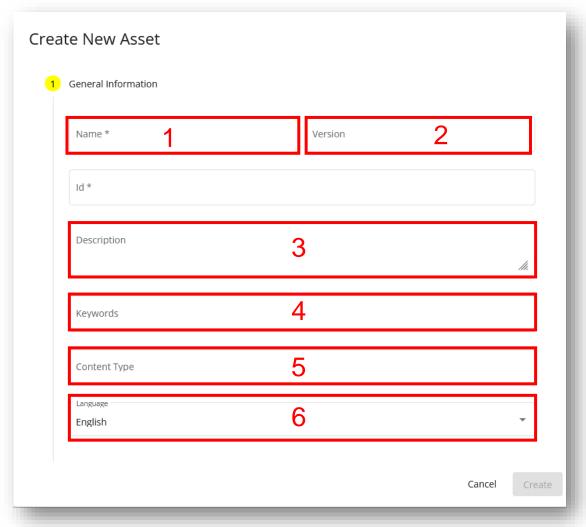
03 How to offer data I General Information



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When you have created the asset, you must describe your metadata at 1 'General information'.

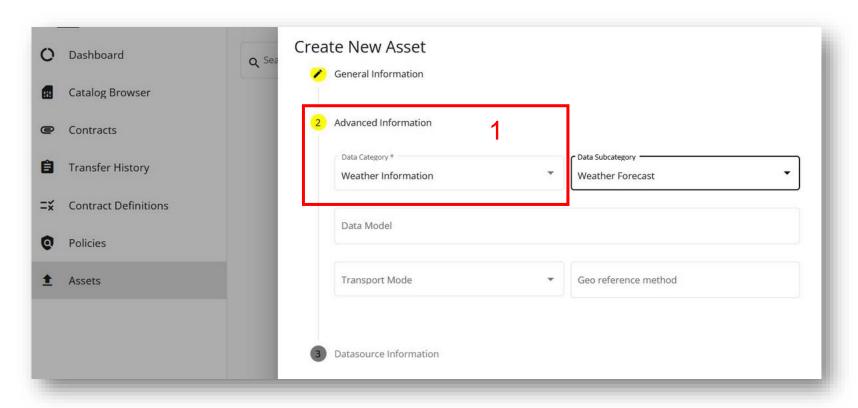
- (1) Name: Name of your data
- (2) Version: Version of your data offering
- (3) Description: A more detailed description of your data offering
- (4) **Keywords:** Describe the data offering with keywords and make it searchable in the MDS Broker. (Press 'Enter' after each keyword)
- (5) Content Type: Content type of your data offering (e.g. 'text/plain')
- (6) Language: Language of your dataset



03 How to offer data I Advanced Information



When you have described your metadata, you need to select underneath 2 'Advanced information' at least one suitable Data Category (mandatory) (1).



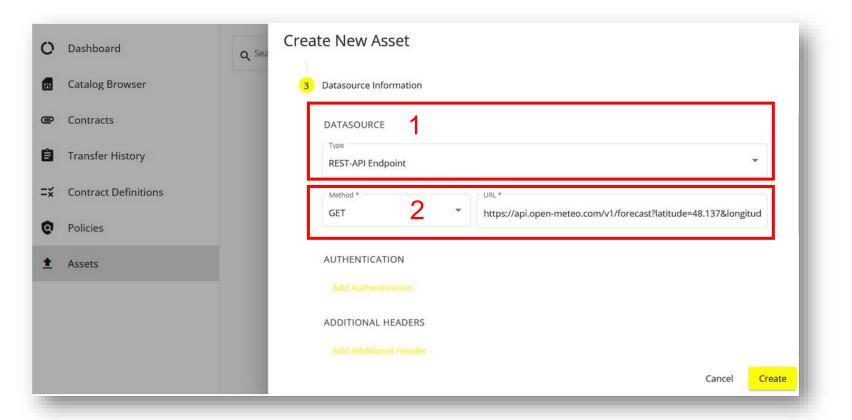
- Data Subcategory (optional)
- Transport Mode (optional)
- Data Model (optional)
- Geo Reference Method (optional)

03 How to offer data I Datasource Information



When you have selected the data categories, you must define the 3 Datasource Information: Choose Type. (1)

You can (2) use a REST-API with different authentication types (none, basic auth or API key).



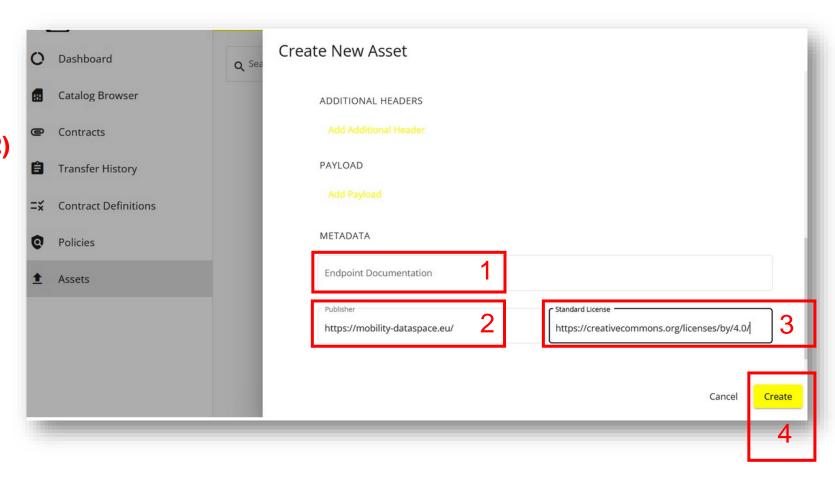
03 How to offer data I Define Metadata



Once you have defined the datasource information, you must define the metadata for this data source.

You can set:

- Endpoint documentation (1) with description of your data (as URL)
- Publisher (as URL):
 The publisher of the data offering (2)
- License (as URL):
 Terms under which your data
 shall be processed (<u>reference</u>) (3)
- Then click on Create (4)



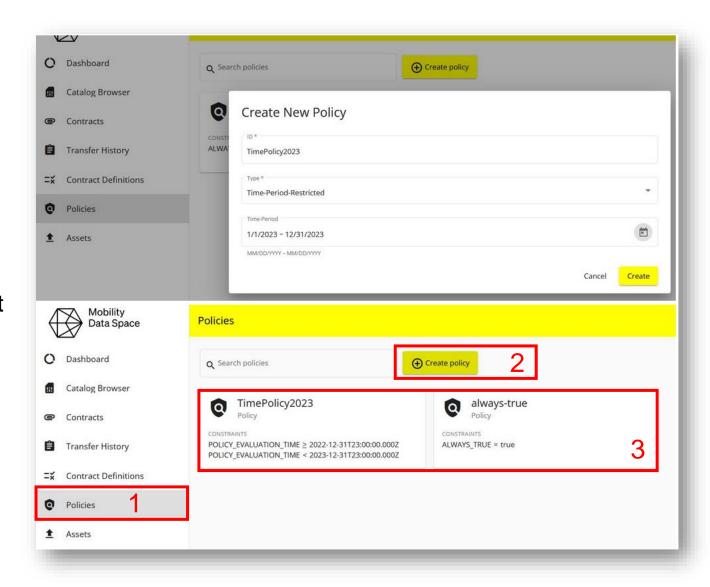
03 How to offer data I Create policy



As you have defined the metadata for your data source, you must go to (1) Policies.

Now you must **create** a new **usage policy pattern (2)** or select an already **existing one (3)**from the list below:

- Connector restricted usage
 Your data offer can be consumed only through connectors you have whitelisted. Be aware that the Connector ID usually equals your Connectors base URL (e.g. MyConnector.com)
- Time period restricted
 Your data offer can be consumed within the given time range only.
- Always free Free access

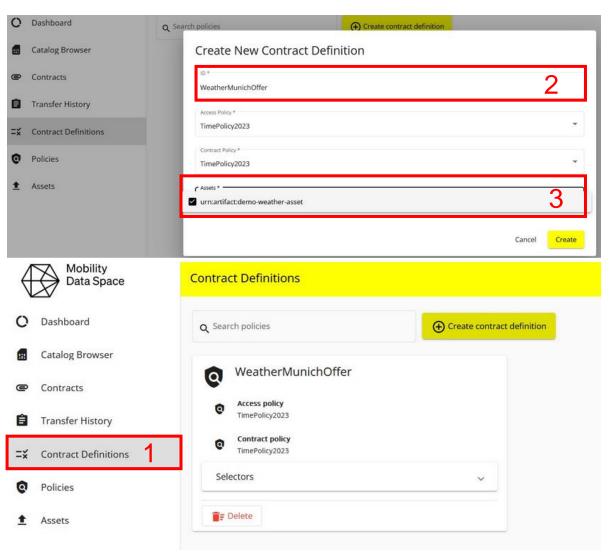


03 How to offer data I Create contract definitions



After defining the usage policy pattern, you are obliged to create a contract offer using the **Contract Definitions** tab (1).

Choose a unique **ID** (2) for your contract offer and select already defined policies and data **assets** (3).



04 How to consume data

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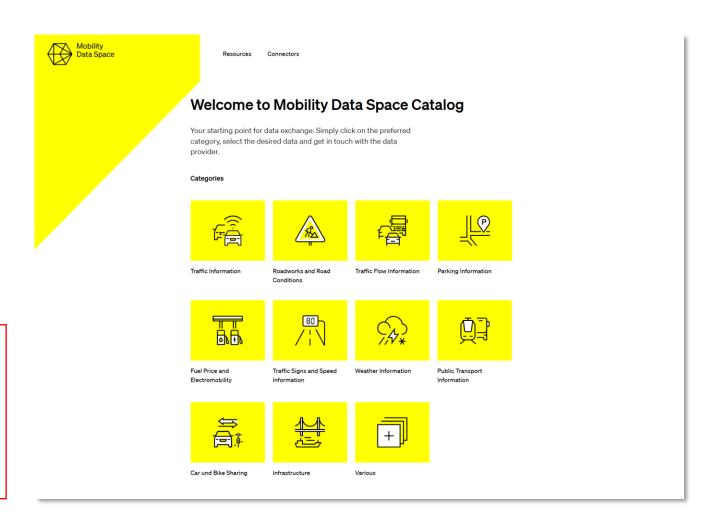
There are two MDS catalogs where you can browse all registered resources:

- MDS Test Catalog or
- MDS Productive Catalog

If you find a data resource to be consumed, please copy the base path of the Original ID (e.g. https://connector.host.com) + add: /api/v1/ids/data (default EDC catalog request path).

Be aware that data or CaaS providers could add path mappings for routing which must be added, too (e.g., https://connector-mds-test-001.prod-sovity.azure.sovity.io/).





04 How to consume data I Negotiate asset



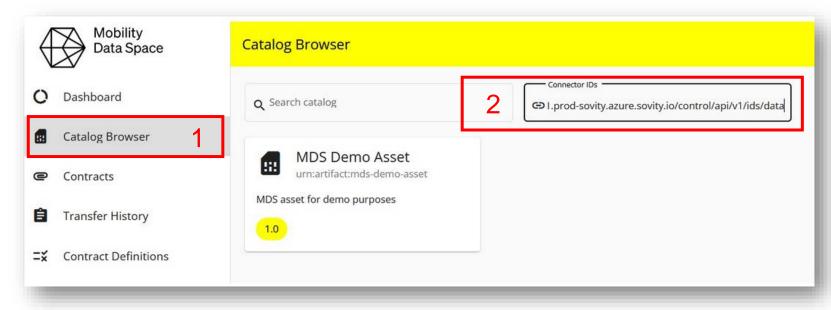
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When you are in one of the catalogs, go to **Catalog Browser (1)** at the frontend of the MDS EDC version. Please enter in the field **Connector IDs (2)** the url of the Connector, from which data shall be requested.

Then press **Enter**. You will see all available offers of the requested connector.

Be aware to use the access URL endpoint which ends on /api/ids/data (e.g. https://connector-mds-test-001.prod-sovity.azure.sovity.io/control/api/v1/ids/data).



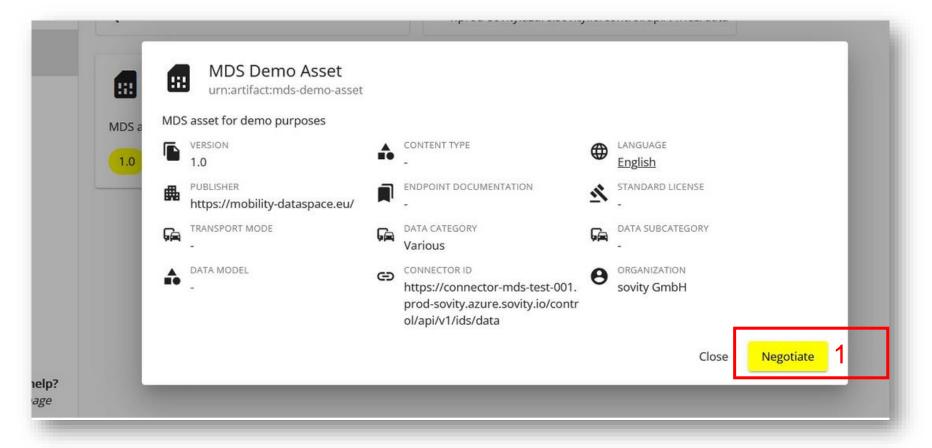


04 How to consume data I Negotiate asset



When you have "chosen" a specific Connector, then select a desired resource.

If you want to consume it, click the button **Negotiate** (1).



04 How to consume data I Transfer asset



As you have expressed your interest in the dataset, go to Contracts.

Then press the button **Transfer (1)**.



04 How to consume data I Transfer asset

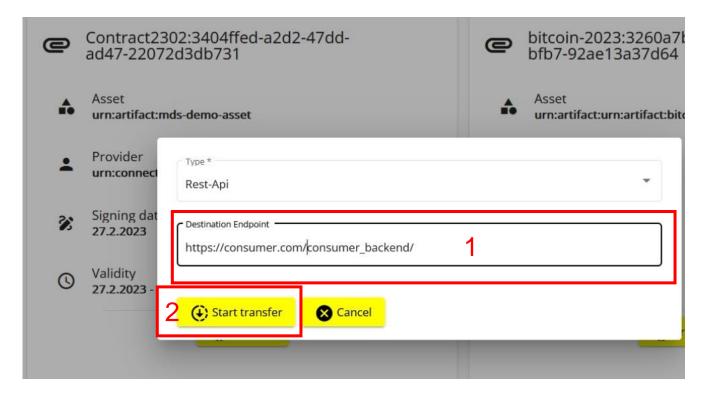


As soon as the negotiations were successful, enter a **Destination Endpoint (1)** of your backend.

Then press **Start transfer (2)**.

For test purposes and only for public data you can use services like Webhook, who show all information from HTTP requests.





Do you still have questions?

community@mobility-dataspace.eu

