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User stories for MVD

This document details a couple of interaction avenues with the MVD, basically what "users can do with the MVD"

[optional] Obtain signed claims from trust anchor

As a dataspace participant I want verified (signed) claims from the dataspace's anchor of trust.

1. Create necessary identity documents

As a dataspace participant I want to create my Web DID JSON file.

Every dataspace participant needs to create a JSON document containing the following items:

- · a URL pointing to the participant's identity hub
- · the participant's public key

That means, that a public/private key pair must be generated beforehand and offline. Furthermore, the URL of the identity hub must be known before.

In the dataspace it is assumed that the did:web is publicly available for everyone as it does not contain private information. How that is achieved is out-of-scope of this document.

Preconditions

- Public/Private key pair is available
- a publicly accessible URL to the did: web is available
- · the URL to the identity hub is known

2. Register with dataspace ("onboarding")

As a dataspace participant I want to register my connector with the dataspace.

The process of onboarding refers to the action of registering a connector with the registration service. In order to do that a REST request against the registration service has to be made containing the following information:

- the did:web ID (constructed using the URL point to the web:did)
- the name of the connector
- · the IP-address/hostname of the connector
- · the connector's self-description (todo: add details)

Upon receiving a successful response (HTTP 200) the connector is ready to participate in the dataspace.

Preconditions

- web:did is created and published
- · connector's self-description is created

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connector runtime is deployed and publicly accessible

3. Upload a new asset

As a dataspace participant I want to upload a new asset

This action refers to creating an Asset and a DataAddress (pointing to the physical location of the data item) in the participant's connector through a REST API. At this time, other dataspace participants do *not yet* have access to it!

The following steps are necessary: 2. generate a DataAddress containing relevant information (bucket name, accout name, etc.) 3. generate an Asset object describing the data item 4. call REST endpoint to insert the Asset/DataAddress tuple into the connector

In the first iteration of the MVD, composing the Asset/DataAddress is done through and aided by the connector's web UI using a simple text entry widget.

Initially, we'll support AzureStorage, AmazonS3 and api.

Preconditions

• data item (file) must already be physically available, e.g. a file on a data share, a private REST api, etc.

4. Upload a new Policy

as a dataspace participant I want to formulate and upload a new policy to my connector

A policy is essentially a container for a set of rules. The connector's web UI offers a widget to insert a policy and upload it to the connector's REST api.

As a simplification, there can be a pre-configured set of rules that the user can pick from, such as georestrictions, etc.

Preconditions:

· connector and web UI is deployed

5. Publish a new asset

as a dataspace participant I want to make my asset available to all participants

The act of publishing an asset refers to the creation of a ContractDefintion, or to the addition of the asset to an existing ContractDefinition.

Consequently, the connector's web UI should offer a way to list all existing ContractDefinitions and to either pick one, or to create a new one.

Preconditions

- · asset is already uploaded
- · the policy is already uploaded

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6. View the dataspace catalog

as a dataspace participant I want to look at all the data assets that all the other connectors offer me

The connector's web UI offers a page to display all data offerings, which can be obtained through the connector's REST API.

7. Negotiate access to a particular asset

as a dataspace participant I want to initiate a contract negotiation with another connector to gain access to a particular asset

The web UI offers a button to trigger the negotiation for a particular asset. The connector should then store the resulting ContractAgreement for subsequent use.

8. Transfer an asset

as a dataspace participant I want to select an asset, for which there is a contract, and initiate a data transfer

The web UI displays a list of ContractAgreements and displays a button to initiate a transfer. A dropdown is shown to select the data destination, which can be a fixed list for now (e.g. AzureStorage and AmazonS3).

Note: displaying the transferred asset by opening e.g. the S3 portal is out-of-scope of this document.

9. Look at existing contracts

as a dataspace participant I want to be able to see all ContractAgreements that I have already negotiated

10. Look at all past transfers

as a dataspace participant I want to be able to see all TransferProcesses that I have already transferred including ongoing ones

Delete/Revoke a contract (?)

Unregister from dataspace ("offboarding")