

Template for Management API Walkthrough

Creating an Asset: [🔗](#)

Create an asset in provider:

Use this url with POST: `{{PROVIDER_CONNECTOR_PUBLIC_URL}}/management/v3/assets`

Use this part in body:

```
1 {
2   "@context": {},
3   "@type": "Asset",
4   "@id": "{{ASSET_ID}}",
5   "properties": {
6     "description": "{{DESCRIPTION FOR ASSET}}"
7   },
8   "dataAddress": {
9     "@type": "DataAddress",
10    "type": "{{SUPPORTED_TYPE}}"
11    "baseUrl": "{{API_PUBLIC_URL}}"
12  }
13 }
14
```

Use this part in Header:

- Key: Content-Type Value: application/json
- Key: X-API-Key Value: `{{PROVIDER_X_API_KEY}}`

In response you will get correct output.

Policies: [🔗](#)

Add Usage/contract policy in provider (Define how the data can be used):

Use this url with POST: `{{PROVIDER_CONNECTOR_PUBLIC_URL}}/management/v3/policydefinitions`

Use this part in body

```
1 {
2   "@context": [
3     "https://w3id.org/tractusx/edc/v0.0.1",
4     "http://www.w3.org/ns/odrl.jsonld",
5     {
6       "@vocab": "https://w3id.org/edc/v0.0.1/ns/"
7     }
8   ],
9   "@type": "PolicyDefinition",
10  "@id": "{{USAGE_POLICY_ID}}",
11  "policy": {
12    "@type": "Set"
13  }
14 }
```

Use this part in Header:

- Key: Content-Type Value: application/json

- Key: X-API-Key Value: {{PROVIDER_X_API_KEY}}

In response you will get correct output.

Add access policy in provider (Define constraints (e.g., ensure the consumer has the correct `BusinessPartnerNumber`)):

Use this url with POST: `{{PROVIDER_CONNECTOR_PUBLIC_URL}}/management/v3/policydefinitions`

Use this part in body

```

1 {
2   "@context": [
3     "https://w3id.org/tractusx/edc/v0.0.1",
4     "http://www.w3.org/ns/odrl.jsonld",
5     { "vocab": "https://w3id.org/edc/v0.0.1/ns/" }, ], "@type": "PolicyDefinition",
6   "@id": "{{ACCESS_POLICY_ID}}",
7   "policy": {
8     "@type": "Set",
9     "permission": [
10      {
11        "action": "use",
12        "constraint": {
13          "leftOperand": "BusinessPartnerNumber",
14          "operator": "eq",
15          "rightOperand": "{{CONSUMER_BPN}}"
16        }
17      }
18    ]
19  }

```

Use this part in Header:

- Key: Content-Type Value: application/json
- Key: X-API-Key Value: {{PROVIDER_X_API_KEY}}

In response you will get correct output.

Creating a Contract Definition [🔗](#)

Add contract definition in provider:

Use this url with POST: `{{PROVIDER_CONNECTOR_PUBLIC_URL}}/management/v3/contractdefinitions`

Use this part in body

```

1 {
2   "@context": {},
3   "@id": "{{CONTRACT_DEFINITION_ID}}",
4   "@type": "ContractDefinition",
5   "accessPolicyId": "{{USAGE_POLICY_ID}}",
6   "contractPolicyId": "{{ACCESS_POLICY_ID}}",
7   "assetsSelector": {
8     "@type": "CriterionDto",
9     "operandLeft": "https://w3id.org/edc/v0.0.1/ns/id",
10    "operator": "=",
11    "operandRight": "{{ASSET_ID}}"
12  }
13 }

```

Use this part in Header:

- Key: Content-Type Value: application/json
- Key: X-API-Key Value: {{PROVIDER_X_API_KEY}}

In response you will get correct output.

Catalog [🔗](#)

Send catalog request from consumer:

Use this url with POST: `{{CONSUMER_CONNECTOR_PUBLIC_URL}}/management/v3/catalog/request`

Use this part in body:

```

1  {
2      "@context": {
3          "@vocab": "https://w3id.org/edc/v0.0.1/ns/"
4      },
5      "protocol": "dataspace-protocol-http",
6      "counterPartyAddress": "{{PROVIDER_CONNECTOR_DSP_URL}}",
7      "counterPartyId": "{{PROVIDER_BPN}}",
8      "querySpec": {
9          "offset": 0,
10         "limit": 50
11     }
12 }
```

Use this part in Header:

- Key: Content-Type Value: application/json
- Key: X-API-Key Value: {{PROVIDER_X_API_KEY}}

In response you will get correct output.

edrs: [🔗](#)

Receive edr from consumer:

Use this url with POST: `{{CONSUMER_CONNECTOR_PUBLIC_URL}}/management/v3/edrs`

Use this part in body:

- `{{OFFER_ID}}`: You got from previous step (catalog request)

```

1  {
2      "@context": [
3          "https://w3id.org/tractusx/policy/v1.0.0",
4          "http://www.w3.org/ns/odrl.jsonld",
5          {
6              "@vocab": "https://w3id.org/edc/v0.0.1/ns/",
7              "tx": "https://w3id.org/tractusx/v0.0.1/ns/"
8          }
9      ],
10     "@type": "ContractRequest",
11     "counterPartyAddress": "{{PROVIDER_CONNECTOR_DSP_URL}}",
12     "protocol": "dataspace-protocol-http",
13     "policy": {
14         "@id": "{{OFFER_ID}}",
15         "@type": "Offer",
16         "assigner": "{{PROVIDER_BPN}}",
17         "permission": [
18             {
```

```

19         "action": "use",
20         "constraint": {
21             "leftOperand": "tx:BusinessPartnerNumber",
22             "operator": "eq",
23             "rightOperand": "{{CONSUMER_BPN}}"
24         }
25     },
26     ],
27     "prohibition": [],
28     "obligation": [],
29     "target": "{{ASSET_ID}}"
30 },
31 "callbackAddresses": []
32 }

```

Use this part in Header:

- Key: Content-Type Value: application/json
- Key: X-API-Key Value: {{PROVIDER_X_API_KEY}}

In response you will get correct output.

Retrieving EDR entries from the Consumer Control Plane

Use this url with POST: {{CONSUMER_CONNECTOR_PUBLIC_URL}}/management/v3/edrs/request

Use this part in body:

```

1  {
2      "@context": {
3          "@vocab": "https://w3id.org/edc/v0.0.1/ns/"
4      },
5      "@type": "QuerySpec",
6      "filterExpression": [
7          {
8              "operandLeft": "assetId",
9              "operator": "=",
10             "operandRight": "{{ASSET_ID}}"
11         }
12     ]
13 }

```

Use this part in Header:

- Key: Content-Type Value: application/json
- Key: X-API-Key Value: {{PROVIDER_X_API_KEY}}

In response you will get correct output.

Pull out the EDR:

Use this url with GET: {{CONSUMER_CONNECTOR_PUBLIC_URL}}/management/v3/edrs/{{transferProcessId}}/dataaddresses

- transferProcessId : You got from previous step

Use this part in Header:

- Key: Content-Type Value: application/json
- Key: X-API-Key Value: {{PROVIDER_X_API_KEY}}

In response you will get correct output.

Use EDR for Data Access:

Use GET with this url: {{ endpoint }}

- endpoint : You got from previous step

Use this part in Header:

- Key: Authorization Value
 - {{ authorization }} : You got from previous step

In response you will get correct output.

Documentation for Management API Walkthrough: [↗](#)

- management-api-walkthrough. [🔗 tractusx-edc/docs/usage/management-api-walkthrough at main · eclipse-tractusx/tractusx-edc](#)
- Dokumentation API-Endpunkte: <https://app.swaggerhub.com/apis/eclipse-tractusx-bot/tractusx-edc/0.8.0>