PoC Connector Configuration

This document describes the configuration steps for the IDS Connector instances in the Catena-X Proof-of-Concept (PoC). In the PoC, there are two key scenarios which require communication via IDS Connectors:

* **KMU (“Kleine und Mittelständische Unternehmen“) Uploads**: The KMU Upload Connector instance used in this scenario is in the role of a *resource provider*. The provided resource is the parts master data uploaded by a KMU (engl. “SME”) in the format of a CSV-file. This data is stored in a PostgreSQL database. The KMU Upload Adapter exposes a query method to this data, which is referred by the resource registered with the KMU Upload Connector.
* **Central Parts Master Data Service**: The central parts master data service stores parent/child relationships for all parts manufactured by the companies in the Catena-X network. To retrieve this relationship knowledge, the central parts master data service requests this data via its central Parts Master Data connector instance in the PoC landscape. This connector instance is configured as a *resource consumer* to an already existing resource of a Traceability App connector which exposes this data in the network for a defined set of companies (identified by their company OneID).

The following sections describe the steps to configure the two connector instances for the above scenarios. We use Postman REST client (<https://www.postman.com/product/rest-client/>) to execute each step of the configuration.

Note: Each request must be authorized with Basic Authentication. The username and password configured for the connector instances can be found here: <https://github.com/CXPoC/tractusx/blob/ca7df53f76d70ff576f1d65d914c5c1496a75bb4/connector/src/main/resources/application.properties#L11>

# Connector setup for the KMU Upload Connector

The base URL of the KMU Upload Connector is <https://catenaxdevakssrv.germanywestcentral.cloudapp.azure.com/kmuconnector/admin/api/connector>

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|  | Description | Screenshot |
| 1 | Create a POST request to [https://catenaxdevakssrv.germanywestcentral.cloudapp.azure.com/kmuconnector/admin/api/resources/resource](https://catenaxdevakssrv.germanywestcentral.cloudapp.azure.com/kmuconnector/admin/api/resources/resource%20) with the following body:  {  "title": "KMU Upload Data",  "description": "KMU Upload Data",  "policy": "KMU Upload Data Policy",  "representations": [  {  "type": "JSON",  "byteSize": 101,  "name": "KMU Upload Data",  "source": {  "type": "https-get-basicauth",  "url": "https://catenaxdevakssrv.germanywestcentral.cloudapp.azure.com/uploadappadapter/api/getPartMasterData",  "username": "TractusX",  "password": "4ZqA:=7M7gyrHTzN"  }  }  ]  }  Click **Send**. |  |
| 2 | Copy the created resource id from the response. |  |
| 3 | Create a new POST request to [https://catenaxdevakssrv.germanywestcentral.cloudapp.azure.com/kmuconnector/admin/api/resources/<resource](https://catenaxdevakssrv.germanywestcentral.cloudapp.azure.com/kmuconnector/admin/api/resources/%3cresource) id from previous response>/data  Replace the resource id in the above URL with the response value from the previous request.  In the body, paste the following JSON:  {  "params": {  "companyOneId": "Partner\_00004\_ZF"  }  }  Set the value of the companyOneId to a value of your choice.  Click **Send**.  The response is the uploaded data of the requested company (OneID) within the last 24 hours. |  |

# Connector setup for the Parts Master Data Connector

The base URL of the Parts Master Data Connector is <https://catenaxdevakssrv.germanywestcentral.cloudapp.azure.com/partsmasterconnector/admin/api/connector>

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|  | Description | Screenshot |
| 1 | Create a new POST request to <http://catenaxdevakssrv.germanywestcentral.cloudapp.azure.com/partsmasterconnector/admin/api/request/description>  with the following parameters:   * *recipient*: <https://dsc1.catenax.partchain.io/api/ids/data> * *requestedResource*: <https://w3id.org/idsa/autogen/resource/8c397553-9185-4a20-a809-9204cc1dcd59>   Click **Send**.  From the response, search for “**ids:Artifact**” and copy the value of the field “@id”.  Also copy the value of “**ids:contractOffer**" starting from the element (NOT the array): “{ “@type” … }”  Finally, copy the very first value in the response of the field “**Validation**”. |  |
| 2 | Create a new POST request to <http://catenaxdevakssrv.germanywestcentral.cloudapp.azure.com/partsmasterconnector/admin/api/request/contract>  with the following parameters:   * recipient: <https://dsc1.catenax.partchain.io/api/ids/data> * requestedArtifact: <the value of “ids:Artifact” copied from the response in step 1>   In the body, paste the value from the “ids:contractOffer” field in step 1. Select JSON as the content type.  Click **Send**. |  |
| 3 | From the response of step 2, copy the value for the contractAgreement. |  |
| 4 | Create a new POST request to <http://catenaxdevakssrv.germanywestcentral.cloudapp.azure.com/partsmasterconnector/admin/api/request/artifact> with the following parameters:   * recipient: <https://dsc1.catenax.partchain.io/api/ids/data> * requestedArtifact: <the value of “ids:Artifact” copied from the response in step 1> * transferContract: <the value of the response in step 3> * key: <the value of “Validation” copied from the response in step 1>   In the body of the request, paste the following JSON:  {  "headers": {  "x-api-key": "TkaQVn3FKe51yEN97Ew6a6HUvlxZLmXT8u0qMEeP"  },  "params": {  "companyOneId": "Partner\_00007\_BMW",  "productionDateFrom": "2021-06-30T00:00:00.000z",  "productionDateTo": "2021-07-06T00:00:00.000z"  }  }  Click **Send**. |  |