

GLENDa Query Services via CDX Node

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Background

The GLENDa data flow provides data services that can be used by trading partners to retrieve substance information from the GLNPO system based upon a variety of identifiers and substance characteristics. The data services also provide the ability for authorized users to maintain pre-defined lists of substances within the GLENDa system. Implementation of these data services under a trading partner agreement makes it possible to use machine-to-machine interfaces to ensure substance information maintained in external systems is up-to-date with the latest EPA central registry of substances.

The GLENDa data services are provided through the Exchange Network (www.exchangenetwork.net) and are accessed through the EPA's Central Data Exchange Node (the "CDX node") using the Exchange Network's node web service specifications. Version 1.0 of the GLENDa data services supports version 2.0 of the Exchange Network's node web service specifications. Version 1.0 of the GLENDa data services are also backward compatible with version 1.1 of the Exchange Network's node web service specifications; however, it is strongly encouraged that trading partners utilize Exchange Network node client or node technology that supports version 2.0 of the specifications.

Reference: <https://exchangenetwork.net/data-exchange/glenda/>

Setup Instructions

1. Request NAAS Account

- Send an email to nodehelpdesk@epacdx.net requesting an account with permissions to reach one or more of the five (5) GLENDa query services. See template below:

Subject: NAAS Account Creation for <Insert Name>

Greetings,

I need a NAAS token account to reach the following services in the GLENDa dataflow:

- [GetFishResults_v1](#)
- [GetFishTissueResults_v1](#)
- [GetMassBalanceResults_v1](#)
- [GetSedimentResults_v1](#)
- [GetWaterQualityResults_v1](#)

Please supply for <Insert Environment(s) - Dev/Test/Prod> environments.

Thanks!

<Insert Name>



Important

Make sure to CC/include Ken Klewin (klewin.kenneth@epa.gov) for approval of the NAAS account request.

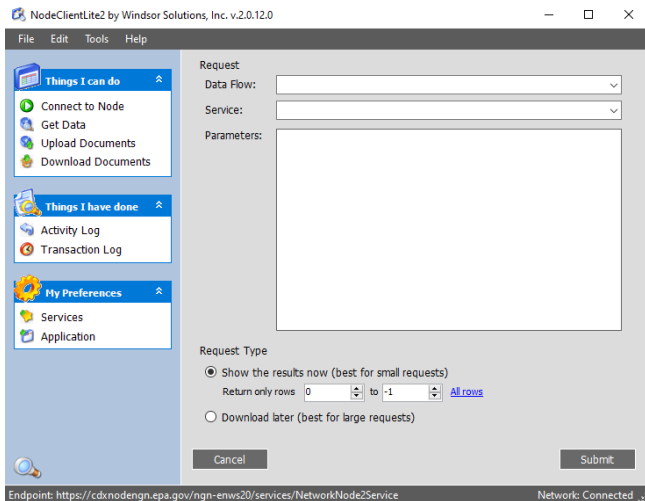
2. Install and Configure Node Client Software

1. Download the enclosed [Setup.zip](#) file.
2. Unzip contents and launch the **NodeClientLite2_2.0.12.0.exe** file to install the NodeClientLite2 application.
3. Once installed and confirmed that the application runs on your computer, close NodeClientLite2.
4. Find the directory on your machine where the application is installed (typically **C:\Program Files (x86)\Windsor\NodeClientLite2**).
5. Find any files that end with **data.xml** and rename them to append ".old" on the end.

- Download the enclosed [master-data.xml](#) (included in Setup.zip) and copy it to the NodeClientLite2 directory (step 4).
- Open **NodeClientLite2**.
- Under **My Preferences**, select **Application**, enter your NAAS credentials (username/email and password), and save.
- Navigate to **Connect to Node**, located under the **Things I can do** section.
- The xml file you copied into the directory (step 6) should result in six (6) endpoints to select, two (2) per environment. (Note: The URLs containing **cdx-enws10** are Node Version 1.1 endpoints, whereas the ones containing **ngn-enws20** are Node v2.0.)
- Select the appropriate endpoint and version, and connect.
- Successful connection will navigate you to the **Get Data** screen, with the endpoint connection displayed within the footer. This completes the setup and configuration of the Node Client Software for reaching GLENDAs services.

Node Endpoints

```
<Endpoints>
  <!-- CDX NGN Prod -->
  <Endpoint Id="https://cdxnodengn.epa.gov/cdx-enws10/services/NetworkNodePortType_V10" Version="EN11"/>
  <Endpoint Id="https://cdxnodengn.epa.gov/ngn-enws20/services/NetworkNode2Service" Version="EN20"/>
  <!-- CDX NGN Test -->
  <Endpoint Id="https://testngn.epacdxnode.net/cdx-enws10/services/NetworkNodePortType_V10" Version="EN11"/>
  <Endpoint Id="https://testngn.epacdxnode.net/ngn-enws20/services/NetworkNode2Service" Version="EN20"/>
  <!-- CDX NGN Dev -->
  <Endpoint Id="https://devngn.epacdxnode.net/cdx-enws10/services/NetworkNodePortType_V10" Version="EN11"/>
  <Endpoint Id="https://devngn.epacdxnode.net/ngn-enws20/services/NetworkNode2Service" Version="EN20"/>
</Endpoints>
```



Query GLENDAs (Get Data)

The following endpoint is recommended for querying the live, Production database: <https://cdxnodengn.epa.gov/ngn-enws20/services/NetworkNode2Service> (Version: 2.0).

See below for the data parameters and specifications for each query.

GetFishResults_v1

Parameter Name	Required?	Data Type	Max Length
Year	Yes	Digit	4
StationID	Yes	String	N/A
Lake	No	String	N/A
Taxon	No	String	N/A

GetFishTissueResults_v1

Parameter Name	Required?	Data Type	Max Length
Year	Yes	Digit	4
AnalyteCode	Yes	String	N/A
StationID	No	String	N/A
Lake	No	String	N/A
Taxon	No	String	N/A

GetMassBalanceResults_v1

Parameter Name	Required?	Data Type	Max Length
ProjectCode	Yes	String	N/A
Year	No	Digit	4
StationID	No	String	N/A
AnalyteCode	No	String	N/A
Medium	No	String	N/A

GetSedimentResults_v1

Parameter Name	Required?	Data Type	Max Length
ProjectCode	Yes	String	N/A
StationID	No	String	N/A
AnalyteCode	No	String	N/A
Year	No	Digit	4
Medium	No	String	N/A

GetWaterQualityResults_v1

Parameter Name	Required?	Data Type	Max Length
Year	Yes	Digit	4
AnalyteCode	Yes	String	N/A
Medium	No	String	N/A
Lake	No	String	N/A
StationID	No	String	N/A

Response

Below is a screenshot of a successful response; note that the Result File is an xml placed in a Temp folder (see last line).

