

Using XLReporter with Schneider Electric EcoStruxure Geo SCADA Expert Real-time values

Overview

This connector is used to get real time values from the Geo SCADA (formerly ClearSCADA) OPC server.

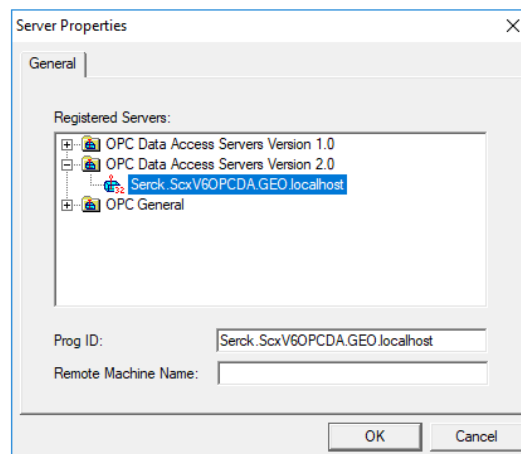
Prerequisites

Verify Communication

Communication between the OPC server and an OPC client must be verified. **XLReporter** provides an independent OPC client to verify connectivity and data retrieval from any OPC DA server. This client is found on **XLReporter's** product CD under **Tools, OPC, OPC_DA**. It can also be downloaded from www.SyTech.com.

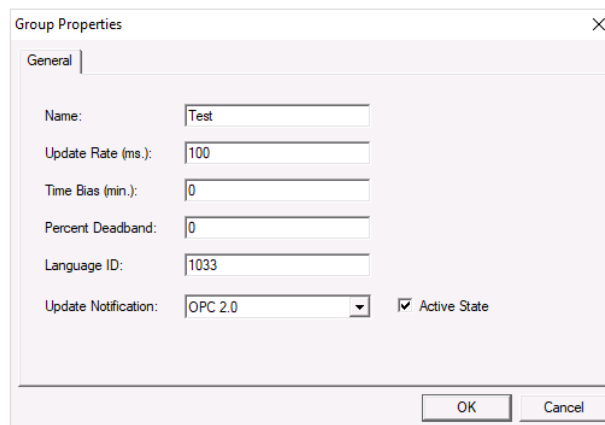
To run, double-click **SampleClientDA.exe**.

To connect to an OPC server, select **Edit, New Server Connection** to open the **Server Properties window**.



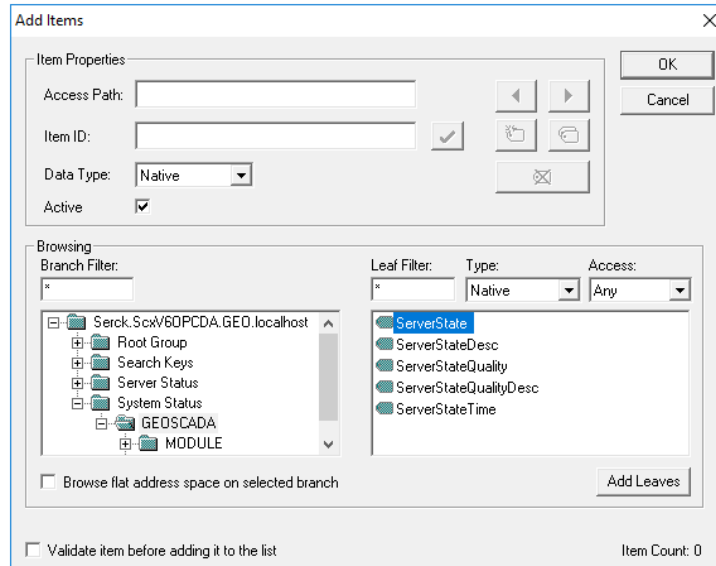
Expand the **OPC Data Access Servers Version 2.0**, select the Geo SCADA OPC DA server and click **OK**.

From the **Edit** menu select **New Group**.

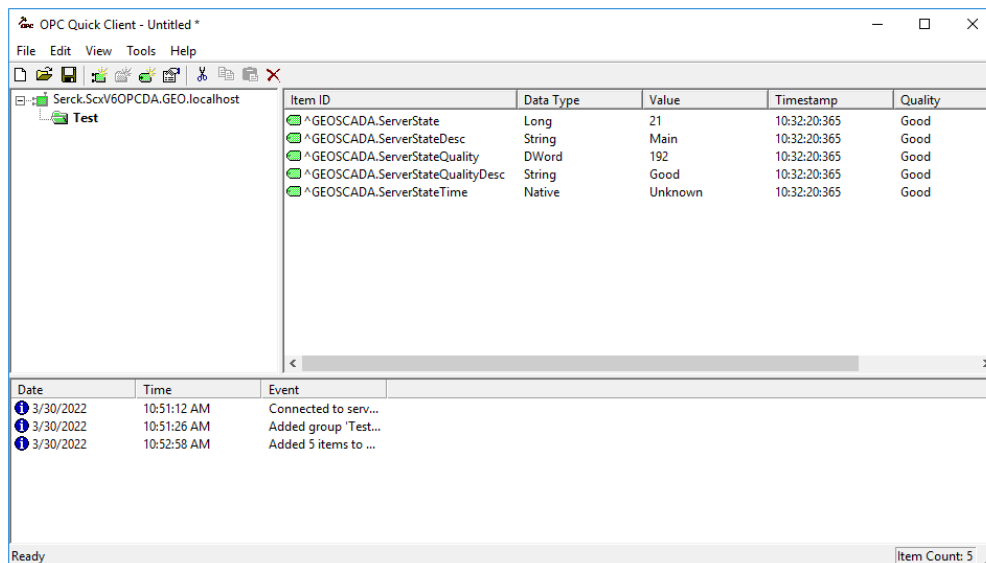


Specify **Name** and click **OK**.

Click on the group name created, and select **Edit, New Item**.



This opens the **Add Items** window. In the browsing section drill into the tree and select Leaf items on the right. For each leaf you want to view data for, click the Add Leaves button. Click **OK** when you have selected the tags to read.



All of the selected tags appear along with their real time values, type, quality, and timestamp.

If the client does not respond as described, contact Schneider Electric technical support to troubleshoot and correct these issues.

Remote Connectivity

If XLReporter is not installed on the same machine as Geo SCADA, for XLReporter to connect to the Geo SCADA OPC DA server, the Geo SCADA Expert Data Components must be installed on the machine where XLReporter is installed. These can be found as part of the Geo SCADA installation.

Once installed, the Geo SCADA OPC DA server should appear as a local OPC DA server on the machine where XLReporter is installed.

Create a Project

From the **XLReporter Project Explorer** select **File, New** to start the **Project Wizard**. This will give step-by-step instructions on creating a project.

Step 1

- Enter a **Project Name** and **Description** (optional).

The screenshot shows the 'New Project' dialog box with the following fields and options:

- Project Name:** XLR_Project
- Project Off Line
- Description:** Customer or Site name
- Project Location:** c:\XLRprojects

Navigation buttons at the bottom: < Back, Next >, Finish, Cancel.

Step 2

- Configure the data connector, click **Add**.

The screenshot shows the 'New Project' dialog box with the following elements:

- Step 2 : Configure the Connectors (data sources) of the Project.**
- Buttons: **Add** (highlighted with a red box), Modify, Delete, Catalog.
- Table with columns: Name, Provider, Description.
- Table content: A single row with an asterisk (*) in the Name column.

Select **Schneider Electric Software, EcoStruxure Geo SCADA Expert Real-time values**.

The screenshot shows the 'EcoStruxure Geo SCADA Expert Real-time values' dialog box with the following fields and options:

- Connector Name:** GeoSCADA_DA_1
- Description:** (empty)
- Primary Server:**
 - Name:** Serck.ScxV60PCDA.GEO.localhost
 - Node:** (empty) local
 - Test Connection** button
- Secondary Server:**
 - Name:** Serck.ScxV60PCDA.GEO.localhost
 - Node:** (empty) local
 - Test Connection** button
- Settings** button
- OK** and **Cancel** buttons

Primary Server

These settings define the **Name** and **Node** of the OPC DA server. Typically the **Name** is defaulted correctly, however sometimes the server name contains the name of the PC rather than localhost. In this case, use the browse pushbutton (...) to search for OPC DA servers and select the one that starts with *Serck.Scx*. The Geo SCADA server should always appear as a local server. If XLReporter is not installed on the same machine as Geo SCADA, additional Geo SCADA software must be installed on the client machine for connectivity. See the Remote Connectivity section above for details.

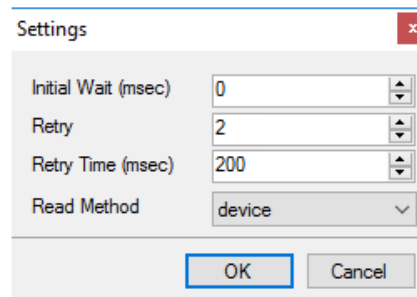
Use the **Test Connection** button to verify a connection to the server.

Secondary Server

These settings define the (optional) secondary Geo SCADA to connect to if a connection to the **Primary Server** fails.

Settings

The **Settings** button is used to update tuning parameters if there are issues retrieving data from this connector.



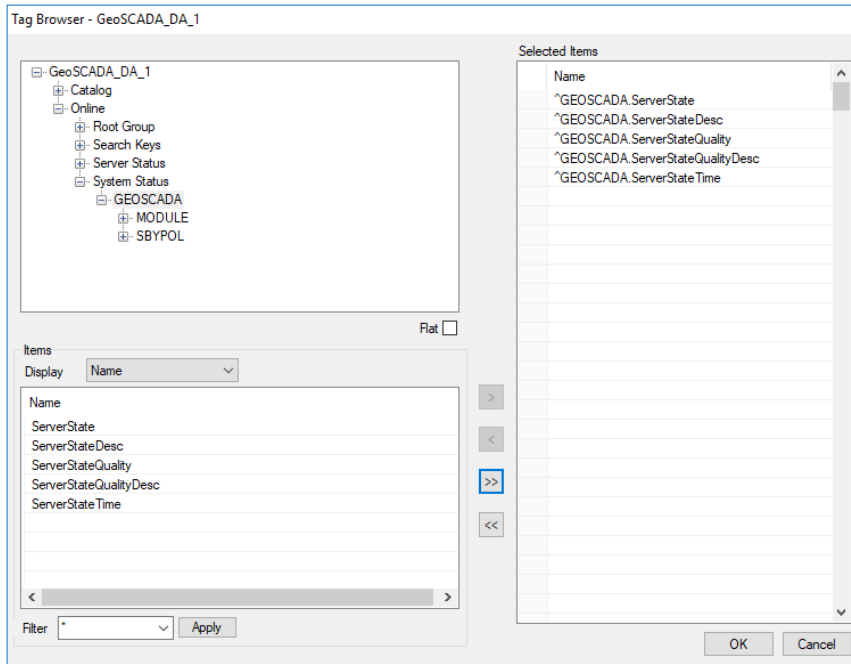
Setting	Value
Initial Wait (msec)	0
Retry	2
Retry Time (msec)	200
Read Method	device

For more information on these settings, see the **OPC DA Real-time values** section in the **OPC** document.

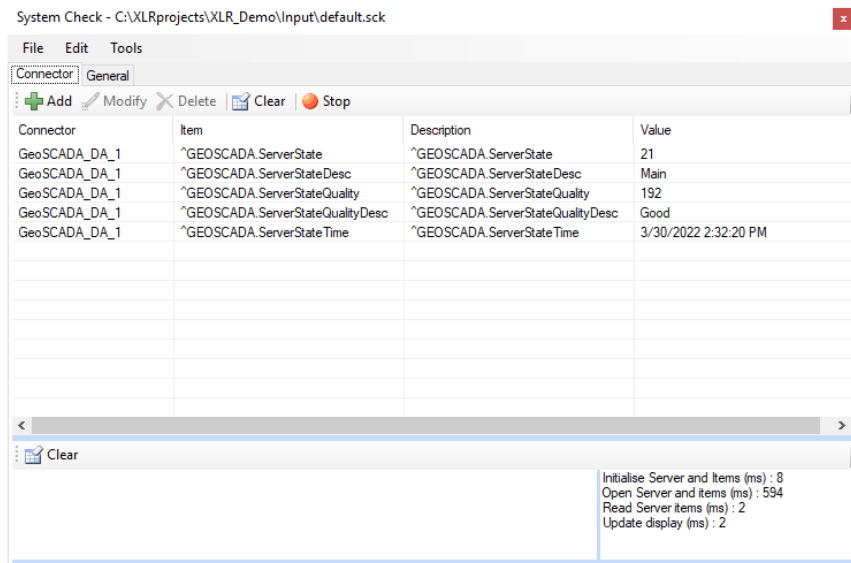
Verify Data Communication

To verify communication, open the **Project Explorer** and select the **Tools** tab. Launch the **System Check** application.

- Click **Add**
- Choose the *Geo SCADA Real-time values* connector from the dropdown list.
- Click the pushbutton ([...]) next to Items to open the Tag Browser window.



- Select one or more tags, click **OK**



- Click **Start** to verify the communication