

Using XLReporter with GE Cimplicity OPC- DA

Overview

XLReporter takes process values directly from a PLC to a report without requiring a historian or database. This is accomplished by “report-as-you-run” technology that automatically populates a workbook, periodically or on event, without needing Excel. Completed reports are produced in workbook, PDF and web formats.

Prerequisites

Verify Communication

Communication between the Cimplicity OPC server and an OPC client must be verified. If an OPC client is not provided with the server, **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 *CIMPLICITY.HMI.OPCServer.1* 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 GE technical support to troubleshoot and correct these issues.

OPC Core Components

If **XLReporter** is not installed on the same machine as the OPC DA Server, the **XLReporter** machine must have the OPC Core Components installed.

To determine if the core components are installed verify the following file exists:

- 64 - bit OS C:\Windows\SysWow64\OPCEnum.exe
- 32 - bit OS C:\Windows\system32\OPCEnum.exe

If the components are not installed then they are provided in the tools folder of the installation or from www.opcfoundation.org.

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: * (in the Name column)

Select **GE Digital, Complicity Real-time values**

The screenshot shows the 'Complicity Real-time values' dialog box with the following fields and options:

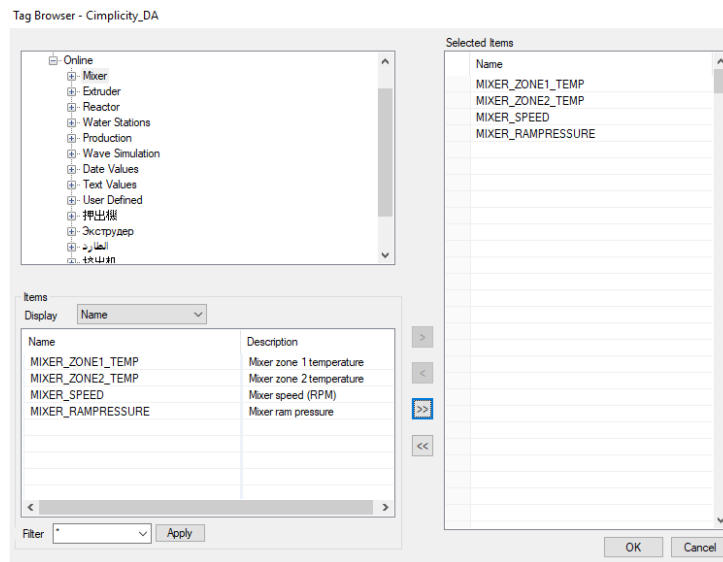
- Connector Name:** Cimplicity_DA
- Description:** (empty field)
- Primary Server:**
 - Name:** CIMPPLICITY.HMI.OPCServer.1
 - Node:** local
 - Test Connection button
- Secondary Server:**
 - Name:** CIMPPLICITY.HMI.OPCServer.1
 - Node:** local
 - Test Connection button
- Settings button
- OK and Cancel buttons

The connector requires a **Primary Server** which, by default has **Node** set to *local*.

Verify Data Communication

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

- Click **Add**
- Choose the *OPC DA Server 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

