

Using XLReporter with KEPServerEX - DA

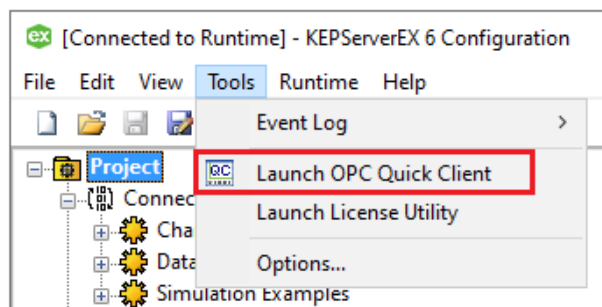
Overview

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

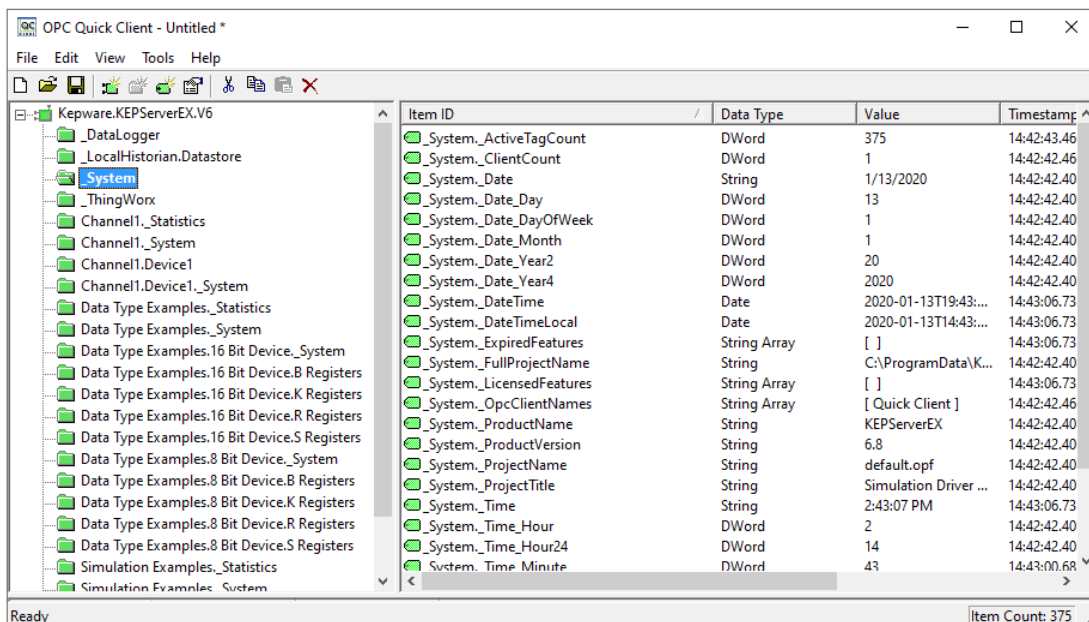
Verify Communication

From the **Keeware** program group, open the **KEPServerEX Configuration** application then select **Tools, Launch OPC Quick Client**.



Expand **Keeware.KEPServer.EX.V6**, then a folder like **_System**.

- Verify the tags have a good quality data value.



If at any point you experience an issue with this client, contact Keeware technical support to troubleshoot and correct these issues.

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, X Delete, Catalog
- Table with columns: Name, Provider, Description
- Table content: * (in the Name column)

Select Kepware, KEPServerEX Real-time values (OPC DA)

The screenshot shows the 'KEPServerEX Real-time values (OPC DA)' dialog box with the following fields and options:

- Connector Name:** KEPServerEX_DA
- Description:** local
- Primary Server:**
 - Name:** Kepware.KEPServerEX.V6
 - Node:** local
 - Test Connection button
- Secondary Server:**
 - Name:** Kepware.KEPServerEX.V6
 - 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*.

Remote Communication to KEPServerEX

If KEPServerEX is installed on a workstation remote from the PLC then set the **Node** to an item in the dropdown list or enter an *IP address*.

The workstation must also have the OPC core components installed. To determine if the core components are installed verify the following file exists:

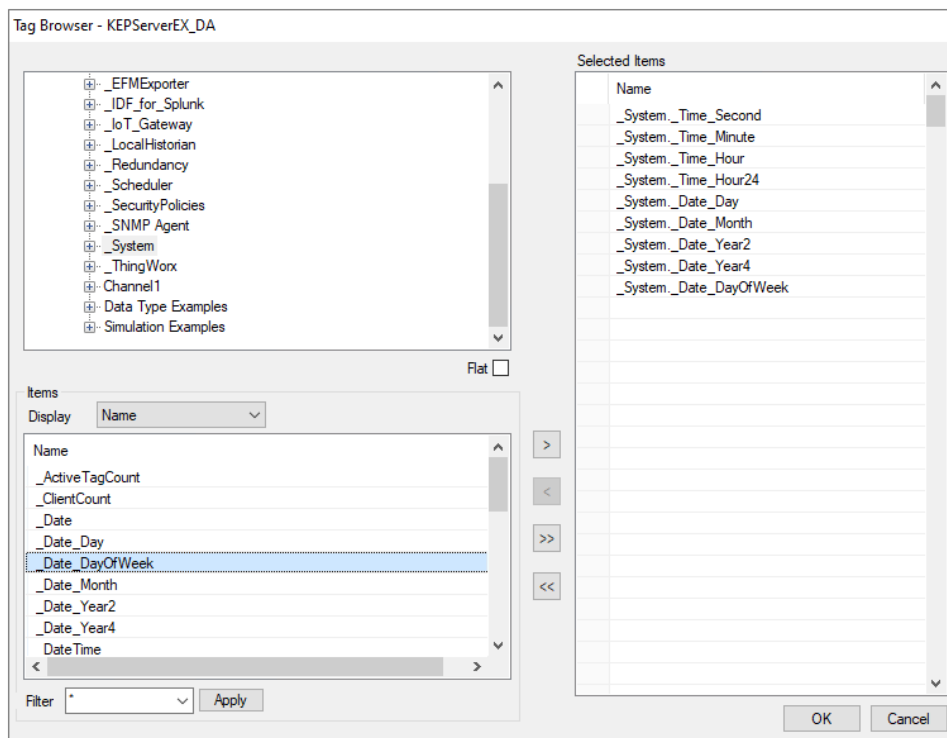
- 64 - bit OS C:\Windows\SysWow64\OPCEnum.exe
- 32 - bit OS C:\Windows\system32\OPCEnum.exe

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

Verify Data Communication

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

- Click **Add**
- Choose the *KEPServer EX DA Connector* from the dropdown list.
- Click the pushbutton ([...]) next to **Items** to open the Tag Browser window.



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

System Check

File Edit Tools

Connector General

+ Add Modify X Delete Clear Start

Connector	Source	Description	Value
KEPServerEX_DA	_System._Date_Day	_System._Date_Day	13
KEPServerEX_DA	_System._Date_DayOfWeek	_System._Date_DayOfWeek	1
KEPServerEX_DA	_System._Date_Month	_System._Date_Month	1
KEPServerEX_DA	_System._Date_Year2	_System._Date_Year2	20
KEPServerEX_DA	_System._Date_Year4	_System._Date_Year4	2020
KEPServerEX_DA	_System._Time_Second	_System._Time_Second	9
KEPServerEX_DA	_System._Time_Hour	_System._Time_Hour	2
KEPServerEX_DA	_System._Time_Hour24	_System._Time_Hour24	14
KEPServerEX_DA	_System._Date_Year2	_System._Date_Year2	20
KEPServerEX_DA	_System._Date_Year4	_System._Date_Year4	2020
KEPServerEX_DA	_System._Date_Day	_System._Date_Day	13
KEPServerEX_DA	_System._Date_DayOfWeek	_System._Date_DayOfWeek	1
KEPServerEX_DA	_System._Date_Month	_System._Date_Month	1

Clear

```

Initialise Server and Items (ms) : 1
Open Server and items (ms) : 10
Read Server items (ms) : 0
Update display (ms) : 1

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- Click **Start** to verify the communication.