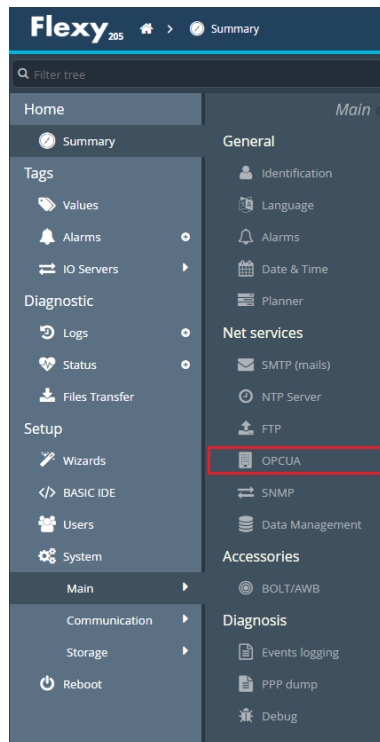


Using XLReporter with HMS Ewon Flexy Real Time

Overview

XLReporter connects to the Ewon Flexy to collect 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.

Set up Ewon



For real-time data access, enable **OPCUA** from **Setup, System, Main** in the web interface of the Ewon device.

OPCUA

Enable OPCUA Server

OPCUA Server Port: Default 4840

Groups of tags to publish: A B C D
Only the tags within the checked group(s) will be published. No selection means all tags.

Login Type: Anonymous or User login data (from your eWON users)

OPCUA export type: Choose how your OPCUA client will identify your eWON TAGs (default is by name)

Certificates management

Status	Name	Details	Start date	End date
Rejected	/usr/pki/rejected/XLReporterOPC.UA-86A5...	/DC=I15-2/CN=XLReporterOPC.UA	Jul 17 12:45:24 2017 GMT	Jul 17 12:45:24 2067 GMT
Trusted	/usr/pki/trusted/certs/XLReporterOPC.UA-...	/DC=C380-X64EXCEL64/CN=XLReporterOP...	Sep 29 21:43:51 2017 G...	Sep 29 21:43:51 2067 G...
Trusted	/usr/pki/trusted/certs/XLReporterOPC.UA-...	/DC=I15-3/CN=XLReporterOPC.UA	Mar 10 16:12:37 2017 G...	Mar 10 16:12:37 2067 G...
Trusted	/usr/pki/trusted/certs/XLReporterOPC.UA-...	/DC=I15-2/CN=XLReporterOPC.UA	Jul 17 12:45:24 2017 GMT	Jul 17 12:45:24 2067 GMT
Trusted	/usr/pki/trusted/certs/XLReporterOPC.UA-...	/DC=EWON_DEMO/CN=XLReporterOPC.UA	Jul 17 18:26:24 2019 GMT	Jul 17 18:26:24 2069 GMT
Own	/usr/pki/own/uacertificate.der	/C=BE/ST=BWL/O=Nivelles/O=eWON SA (HM...	Mar 29 20:49:04 2019 G...	Mar 27 20:49:04 2024 G...

- Check *Enable OPC UA Server*.
- Configure **Port** and **Authentication** settings
**Note: Certificate Authentication is not currently supported by XLReporter.*

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).

New Project

Step 1 : Specify the Project Name and its Location.

Project Name:

Project Off Line

Description:

Project Location:

< Back Next > Finish Cancel

Step 2

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

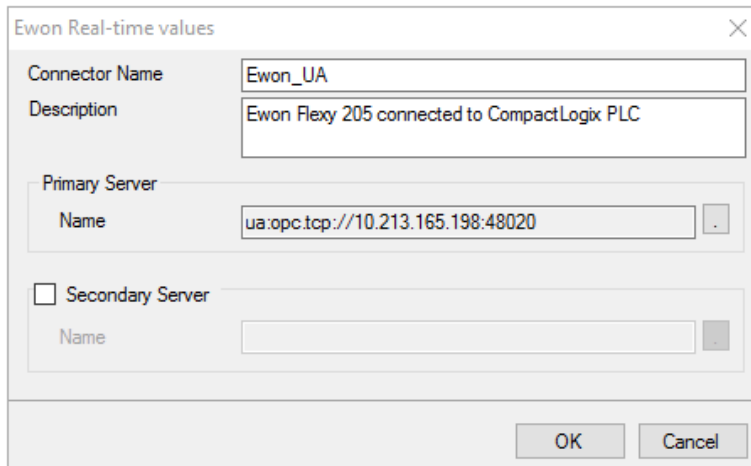
New Project

Step 2 : Configure the Connectors (data sources) of the Project.

|

Name	Provider	Description
*		

Select HMS, Ewon Flexy Real-time Values.



Ewon Real-time values

Connector Name: Ewon-UA

Description: Ewon Flexy 205 connected to CompactLogix PLC

Primary Server

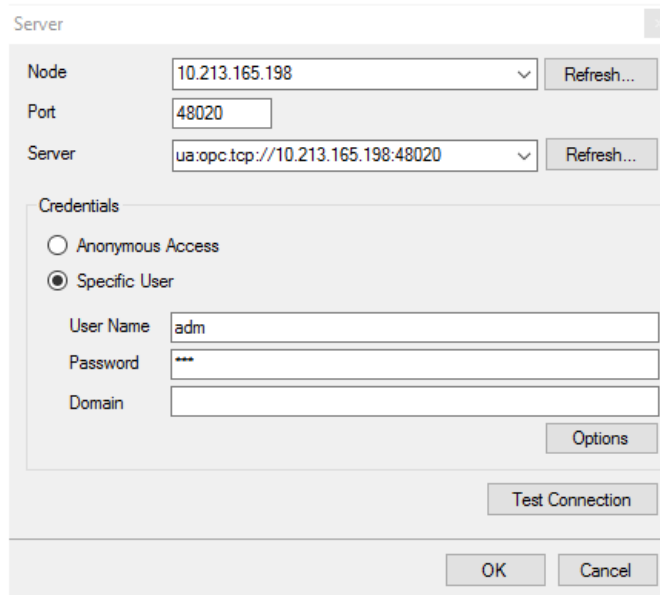
Name: ua:opc.tcp://10.213.165.198:48020

Secondary Server

Name:

OK Cancel

The connector requires a **Primary Server**. Click the browse pushbutton ([...]) for Name to define.



Server

Node: 10.213.165.198 Refresh...

Port: 48020

Server: ua:opc.tcp://10.213.165.198:48020 Refresh...

Credentials

Anonymous Access

Specific User

User Name: adm

Password: ***

Domain:

Options

Test Connection

OK Cancel

- For **Node**, if the server is on the same machine, leave as *local*, otherwise select or enter the name or IP address of the machine where the server is running.
- Set the **Port** according to the **OPCUA** configuration on the Ewon device.
- For **Server**, click **Refresh** and select from the list of server endpoints listed.
- If the server is set for **Anonymous Access**, leave that selected, otherwise select **Specific User** and enter valid credentials.
- Click **Test Connection** to verify connectivity.

Trusted Clients

In some cases the client has to be accepted by the server to make requests. Open the **OPCUA** page in the Ewon web configuration and set the client certificate to *Trusted Status*.

Certificates management

Status	Name	Details	Start date	End date
Rejected	/usr/pki/rejected/XLReporterOPC.UA-86A5...	/DC=115-2/CN=XLReporterOPC.UA	Jul 17 12:45:24 2017 GMT	Jul 17 12:45:24 2067 GMT
Trusted	/usr/pki/trusted/certs/XLReporterOPC.UA-...	/DC=C380-X64EXCEL64/CN=XLReporterOP...	Sep 29 21:43:51 2017 G...	Sep 29 21:43:51 2067 G...
Trusted	/usr/pki/trusted/certs/XLReporterOPC.UA-...	/DC=115-3/CN=XLReporterOPC.UA	Mar 10 16:12:37 2017 G...	Mar 10 16:12:37 2067 G...
Trusted	/usr/pki/trusted/certs/XLReporterOPC.UA-...	/DC=115-2/CN=XLReporterOPC.UA	Jul 17 12:45:24 2017 GMT	Jul 17 12:45:24 2067 GMT
Trusted	/usr/pki/trusted/certs/XLReporterOPC.UA-...	/DC=EWON_DEMO/CN=XLReporterOPC.UA	Jul 17 18:26:24 2019 GMT	Jul 17 18:26:24 2069 GMT
Own	/usr/pki/own/uacertificate.der	/C=BE/ST=BWL/L=Nivelles/O=EWON SA (HM...	Mar 29 20:49:04 2019 G...	Mar 27 20:49:04 2024 G...

+

Remote Communication to Ewon Flexy

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

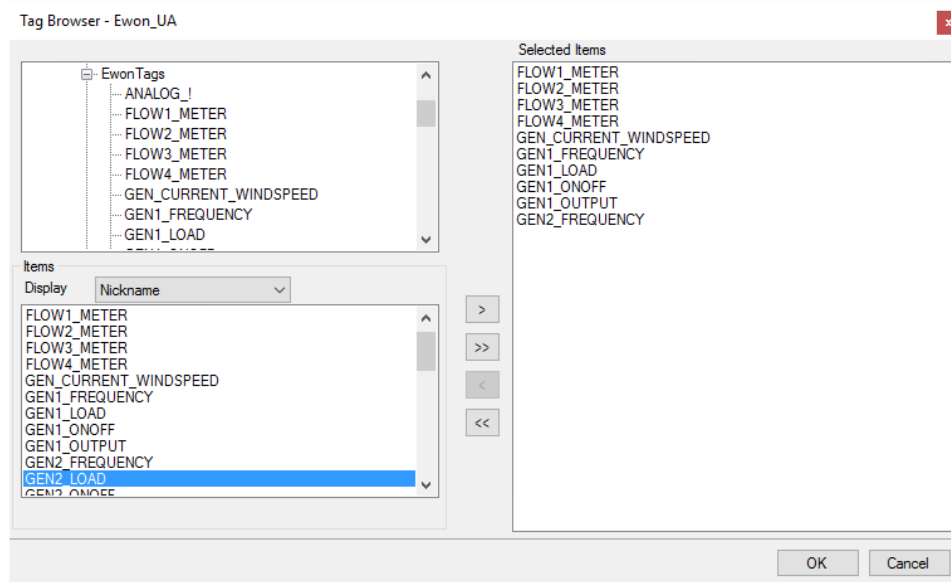
- 64 - bit OS C:\Windows\SysWow64\OPCEnum.exe
- 32 - bit OS C:\Windows\system32\OPCEnum.exe

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 the Ewon, open the **Project Explorer** and select the **Tools** tab. Launch the **System Check** application.

- Click **Add**
- Choose the *Ewon UA 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 Delete Clear Start

Connector	Source	Description	Value
Ewon_UA	ns=4;s=FLOW1_METER	FLOW1_METER	1964.32
Ewon_UA	ns=4;s=FLOW2_METER	FLOW2_METER	0.55
Ewon_UA	ns=4;s=FLOW3_METER	FLOW3_METER	1720.36
Ewon_UA	ns=4;s=FLOW4_METER	FLOW4_METER	1964.96
Ewon_UA	ns=4;s=GEN_CURRENT_WINDSPEED	GEN_CURRENT_WINDSPEED	1.48
Ewon_UA	ns=4;s=GEN1_FREQUENCY	GEN1_FREQUENCY	47.71
Ewon_UA	ns=4;s=GEN1_LOAD	GEN1_LOAD	1
Ewon_UA	ns=4;s=GEN1_ONOFF	GEN1_ONOFF	0
Ewon_UA	ns=4;s=GEN1_OUTPUT	GEN1_OUTPUT	30.38
Ewon_UA	ns=4;s=GEN2_FREQUENCY	GEN2_FREQUENCY	0

Clear

Initialise Server and Items (ms) : 0
 Open Server and items (ms) : 5073
 Read Server items (ms) : 63
 Update display (ms) : 1

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