Integration Objects'
Free OPC UA Explorer Tool

OPC UA Client
Version 1.4 Rev.0

QUICK USER GUIDE

OPC UA Client Quick User Guide Version 1.4 Rev 0
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ABOUT THIS USER GUIDE

This guide is a step by step guide that lists the main steps on how to install, configure and run OPC UA Client.

INSTALLATION PRE-REQUISITES

In order to properly run the OPC UA Client, install these software components on the target system:

- .NET Framework version 4.6 or higher.
- The OPC UA Discovery Server, which lists the OPC UA endpoints available on a given computer.

INSTALLING OPC UA CLIENT

To install the OPC UA Client, run the installation executable using an administrator account and the wizard will take you through the different installation steps.

CONFIGURING OPC UA CLIENT

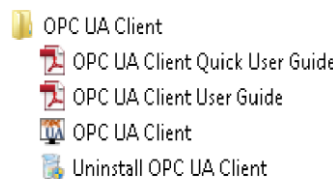Go to **Start => Programs => Integration Objects => OPC UA Client => OPC UA Client** and start the UA Client.

Figure 1: OPC UA Client Start Menu

Step 1: Connect to an OPC UA Server

To connect to an OPC UA server, select **Connect** button available in the Home menu bar or by right clicking on the Sessions root node and selecting **Add Session** as shown below.
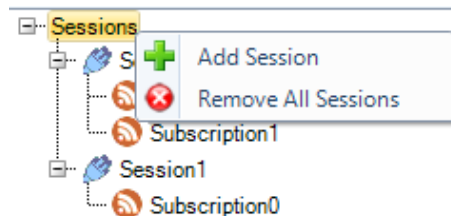

Figure 2: The Sessions Context Menu
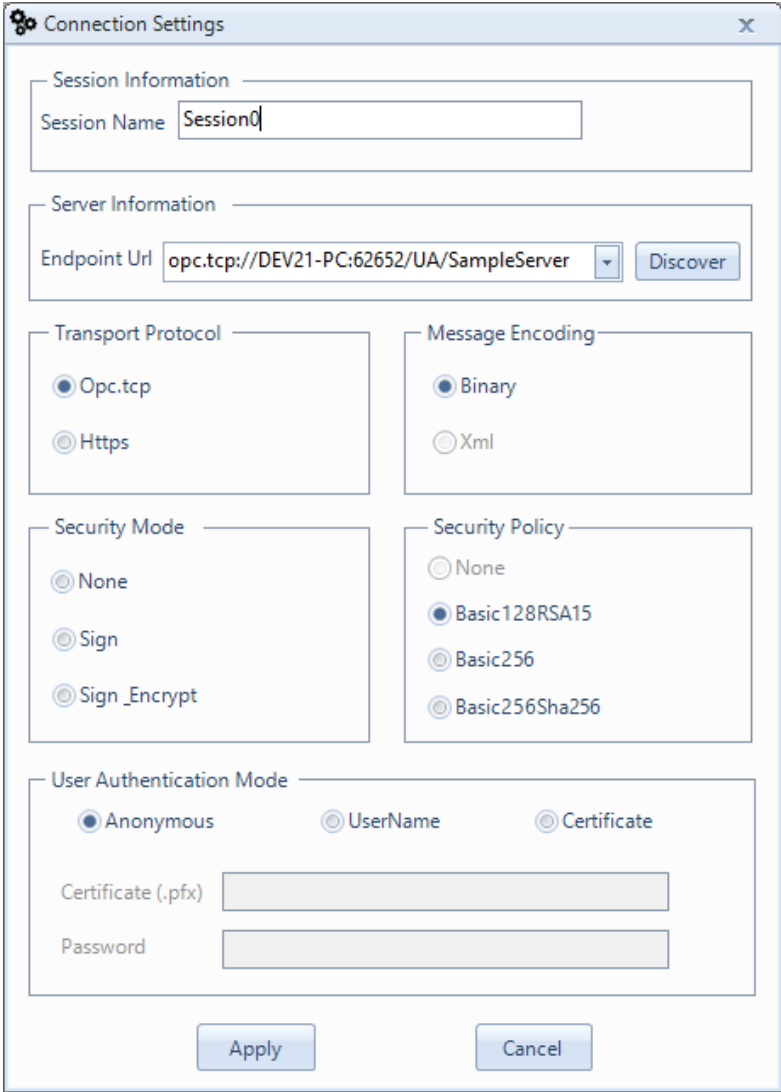
The following dialog screen will appear:

Figure 3: Connection Settings Dialog Screen

When the server URL, the security options, the user authentication mode and the session name are set, the connection to the server can be established by clicking the **Apply** button.

Step 2: Monitor Real-Time Data

To monitor real-time data, the user needs to drag and drop the variable node or the list of variable nodes from the address space browser to the **Data View** grid view, and the following dialog screen will be prompted:
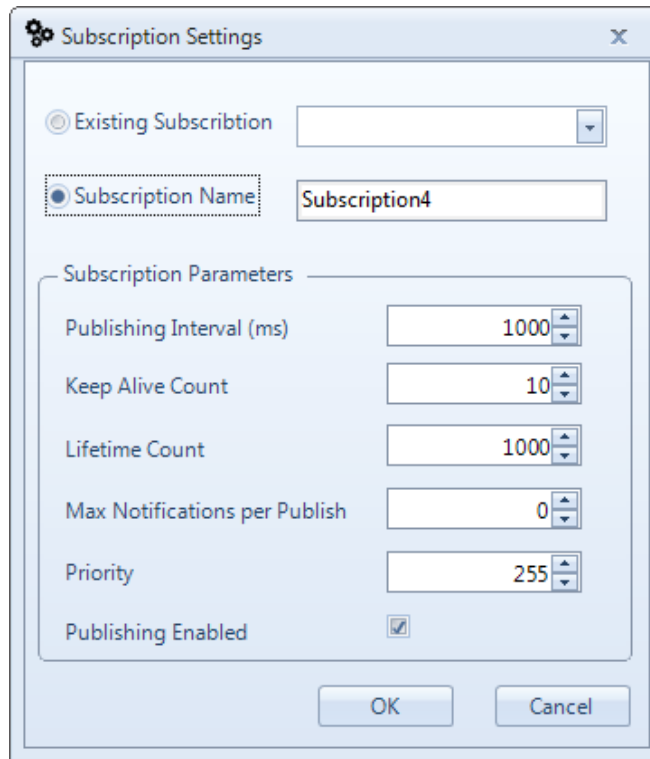
Figure 4: Subscription Settings

Using this dialog box, you can choose either an existing subscription if available or create a new subscription to receive data changes.

After clicking the **OK** button, a new line in the grid view will be added as illustrated in the figure below:
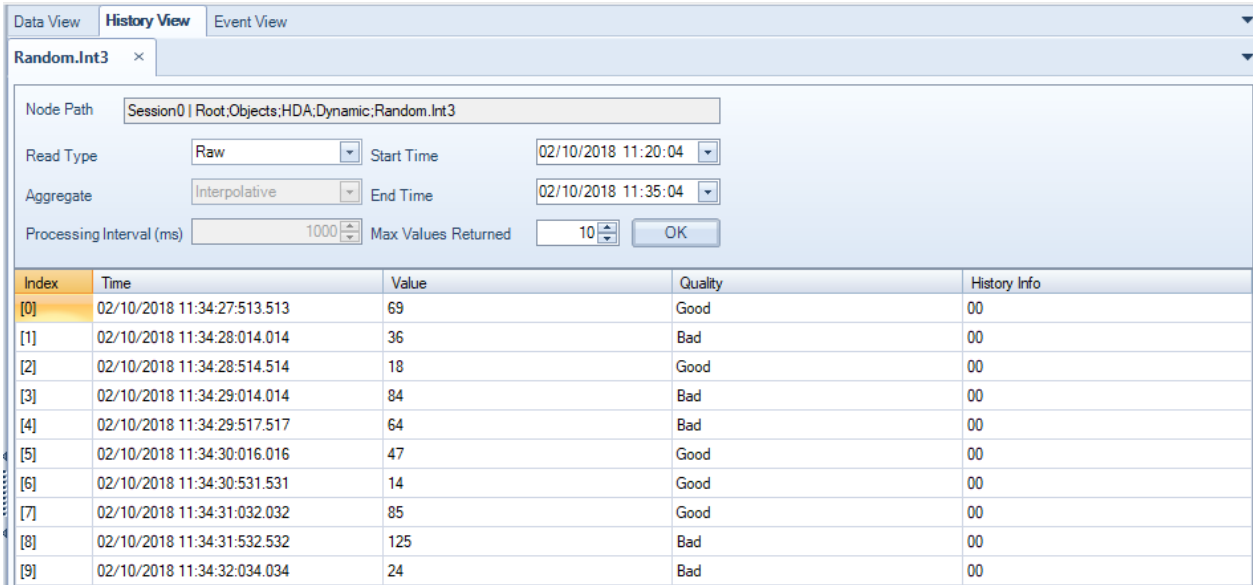

Figure 5: Data View

Step 3: Explore History Data

To explore history data, variable nodes that have history data need to be dragged and dropped to the **History View** so that a new tab with the node display name will be created.

The user can choose between Read Raw, Read Processed, Read Modified and Read at Time. The figure below illustrates the read raw action:

Data View	History View	Event View

Random.Int3 ×

Node Path	Session0 | Root;Objects;HDA;Dynamic;Random.Int3		
Read Type	Raw	Start Time	02/10/2018 11:20:04
Aggregate	Interpolative	End Time	02/10/2018 11:35:04
Processing Interval (ms)	1000	Max Values Returned	10 OK

Index	Time	Value	Quality	History Info
[0]	02/10/2018 11:34:27:513.513	69	Good	00
[1]	02/10/2018 11:34:28:014.014	36	Bad	00
[2]	02/10/2018 11:34:28:514.514	18	Good	00
[3]	02/10/2018 11:34:29:014.014	84	Bad	00
[4]	02/10/2018 11:34:29:517.517	64	Bad	00
[5]	02/10/2018 11:34:30:016.016	47	Good	00
[6]	02/10/2018 11:34:30:531.531	14	Good	00
[7]	02/10/2018 11:34:31:032.032	85	Good	00
[8]	02/10/2018 11:34:31:532.532	125	Bad	00
[9]	02/10/2018 11:34:32:034.034	24	Bad	00

Figure 6: Read Raw

The Processing Interval, the Start Time, the End Time and the Max Values Returned parameters are configurable using the fields available at the top of the grid view.

Step 4: Monitor Alarms and Conditions

To monitor alarms and events, the object node that should be an Event Notifier need to be dragged and dropped from the address space browser to the **Event View** grid view. Same as monitoring real-time data, a subscription should be created to receive Alarm and Condition notifications from the server.

After choosing the subscription, the event and alarm notifications will be added to the grid view as illustrated in the figure below:
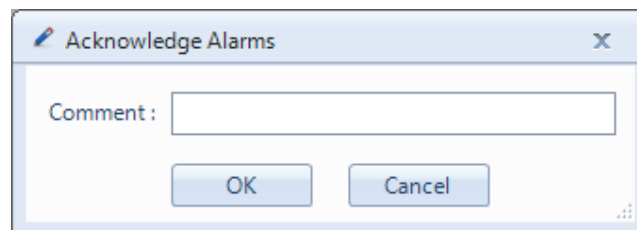
Figure 7: Event View

Step 5: Acknowledge Alarms

To acknowledge the alarms, select one or many rows from the Event gridview then right click and select **Acknowledge Selected** as illustrated in the figure below.

Figure 8: Acknowledge Selected Alarms

If the acknowledge is required the **Acknowledge Alarms** dialog will prompted so that the user enters his comment.

Figure 9: Acknowledge Alarms Dialog

For additional information on this guide, questions or problems to report, please contact:

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