# **IEC61850 Client tools**

straton user guide – Rev. 5

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straton



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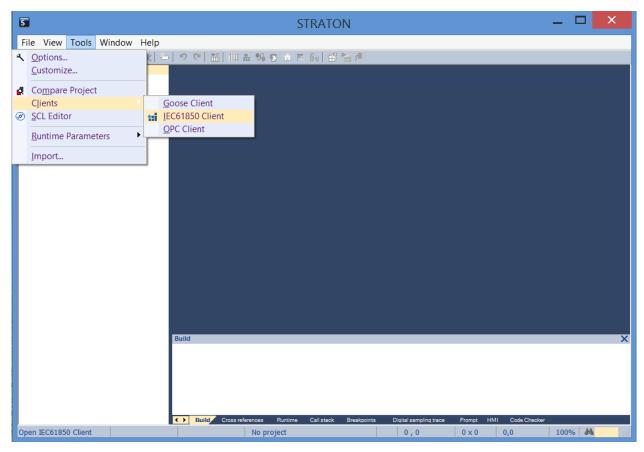
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# 1. Install Editor and Runtime

Download and install from <a href="https://straton-plc.com/telechargements/">https://straton-plc.com/telechargements/</a>

# 2. Open the IEC 61850 Client

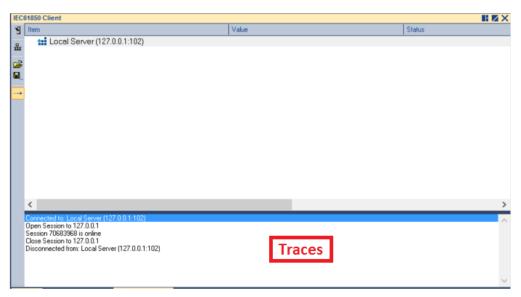
The IEC 61850 Client is a tool. Select "IEC 61850 Client" in the tools menu.



## 3. IEC 61850 Client Viewer

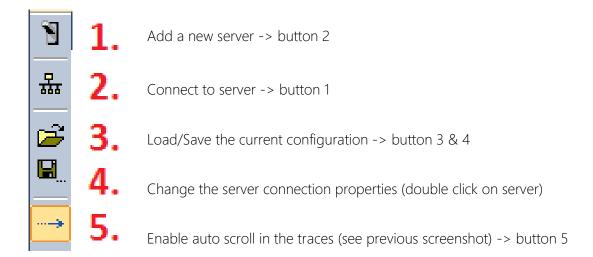
## 3.1. Main View

The IEC61850 client looks like this:



By default, one local server is added.

The viewer allows the user to:



## 3.2. Server

When adding a new server or when double click on an existing server, the server properties dialog is displayed.

Server				
Name:	Local Server			
Address:	127.0.0.1			
Port:	102			
Polling rate (ms):	1 000			
Connection time out (ms)	40000			
Displaying:	Split DO & DA			
Calling AE qualifier:	12			
Called AE qualifier:	12			
Calling AP title:	1.1.1.999			
Called AP title:	1.1.999.1.1			
Maximum URCBs for reporting:	0			
Authentication:				
Traces	Trg Ops			
<b>✓</b> Errors	Use preconfigured TrgOps			
Warnings	✓ Data-change			
✓ General information	✓ Quality-change			
✓ Standard debug messages	✓ Data-update			
Extended debug messages	✓ Integrity ✓ General-interrogation			
Reset	OK Cancel			

The displayed name of the server can be changed.

The address and port can be changed.

The polling rate (refresh time) of the spied values can be changed.

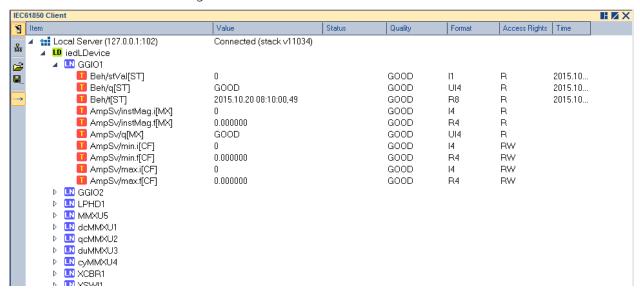
The connection time out can be changed. For distant server with lot of spied symbols, increase the time out.

It is also possible to choose what traces to be displayed and what trigger options to use.

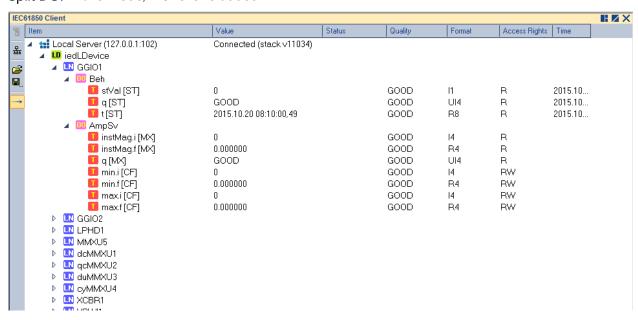
## 3.3. Display values

The displaying has three modes: "Flat", "Split DO" and "Split DO & DA".

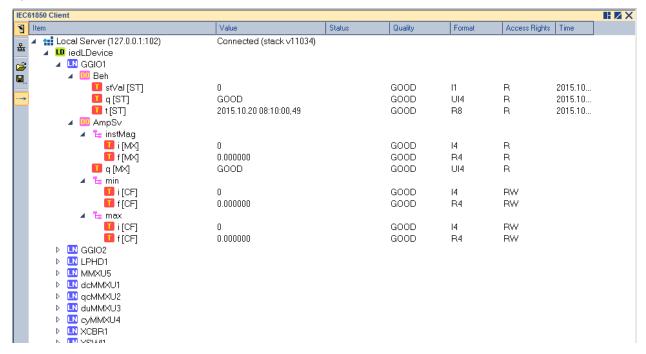
Flat: in this mode all DA in a logical node are on the same level:



Split DO: in this mode, DO level is added



Split DO & DA: in this mode DA is also added



# 3.4. Updating and forcing values

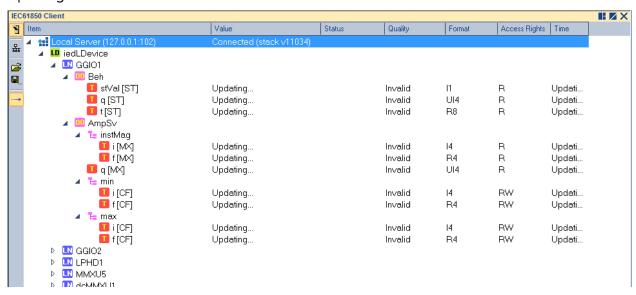
When wanting to spy values, connect to the server using the Activate/Deactivate button (3).

Only one server can be connected at a time.

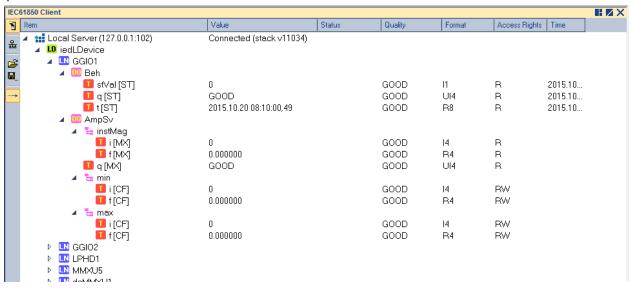
A dialog box "connecting" is displayed -> user can cancel connection.

Once the server is connected, the values are automatically updated:

#### Updating:



### Updated:



#### How to force data:

By double click on the value, the writable data can be written.

### Operate:

An Operate can be send, the Control model need to be set to 1, 2, 3 or 4 then double click on the Oper.CtlVal to force the value.