

OPC-UA Server



Siemens PLC



Delta PLC

How to interface

# Weintek cMT-G01

# IIoT device with Node-red



# Visual Dashboard

# Things required

## Hardware used:



Delta PLC  
DVP 12SE

192.168.1.108



Siemens PLC  
S7-1200

192.168.1.100



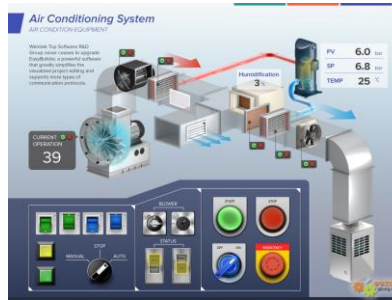
Weintek IloT  
cMT-G01

192.168.1.104

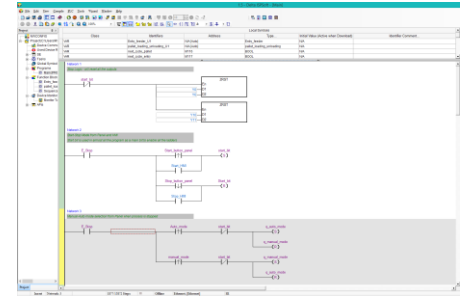


Ethernet cables

## Software used:



EasyBuilder Pro  
Free



ISP Soft



Free

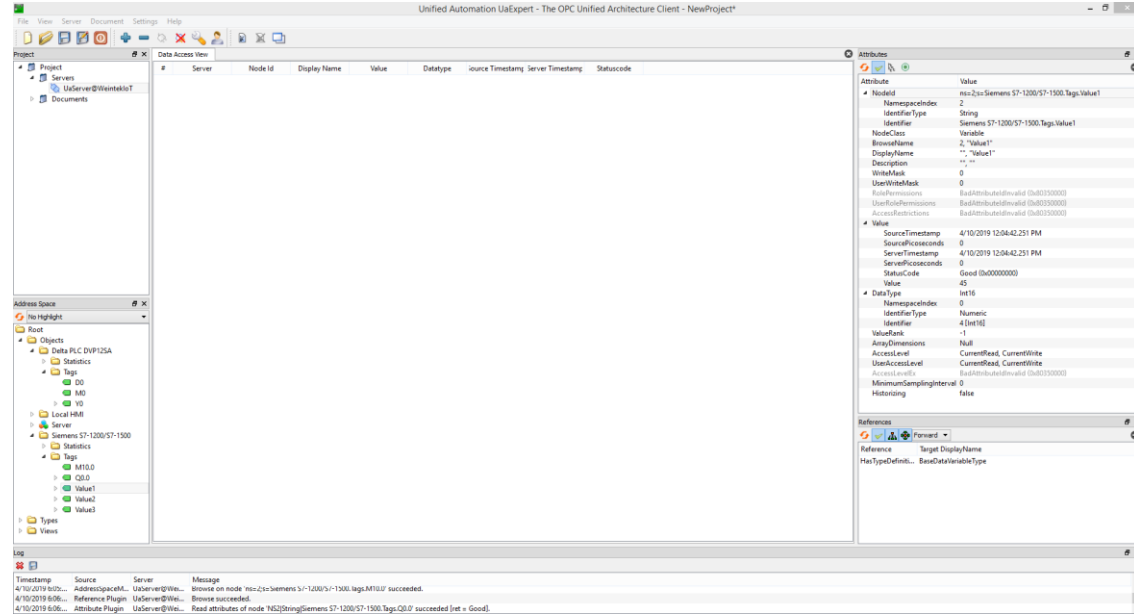


# Requirement:

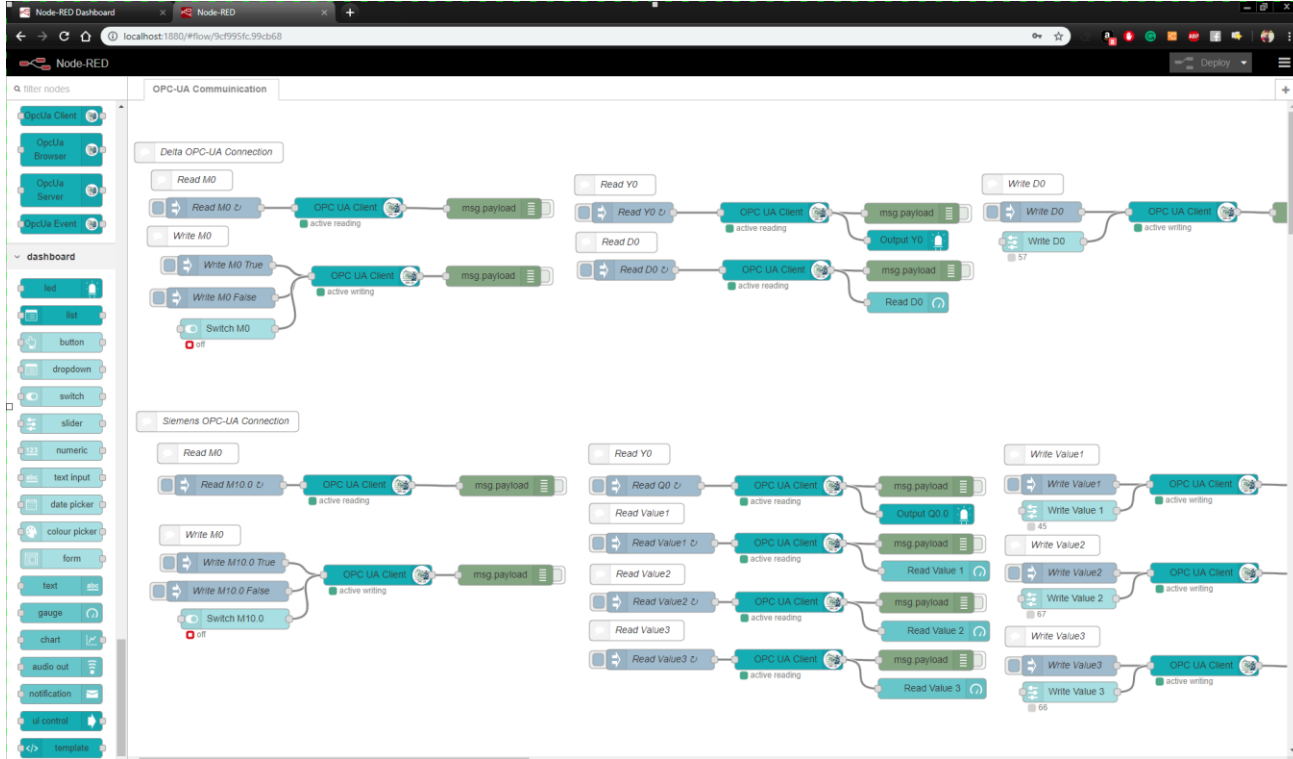
## Make sure PLC communicate with Weintek IIoT Device cmT-G01



This can be verified via UaExpert software which can be used to read value from OPC-UA server configured in Weintek IIoT Device cMT-G01.



# Step 1) Open Node-red and make flows



Node-RED is a programming tool for wiring together hardware devices, APIs and online services in new and interesting ways.



# Step 2) Add OPC-UA parameters in Node-red

**Edit OpcUa-Endpoint node**

Delete Cancel Update

Endpoint

SecurityPolicy

SecurityMode

use credentials

identity: System Setting

OPC UA

OPC UA Server ✔ Status : Running

Server Settings Edit node Certificates Discovery Advanced

General

Port:

Server name:

Security policy:  None

<input checked="" type="checkbox"/> Basic128Rsa15	<input type="text" value="Sign;Sign &amp; Encrypt"/>
<input checked="" type="checkbox"/> Basic256	<input type="text" value="Sign;Sign &amp; Encrypt"/>
<input checked="" type="checkbox"/> Basic256sha256	<input type="text" value="Sign;Sign &amp; Encrypt"/>

Option:  Automatically Trust All Client Certificates

User Authentication

<input checked="" type="checkbox"/> Anonymous	<input checked="" type="checkbox"/> User name & password	<input checked="" type="checkbox"/> Certificate
<input checked="" type="checkbox"/> Browse	Browse class: <input type="text" value="Class:A"/>	
<input checked="" type="checkbox"/> Read	Read class: <input type="text" value="Class:A"/>	
<input checked="" type="checkbox"/> Write	Write class: <input type="text" value="Class:A"/>	

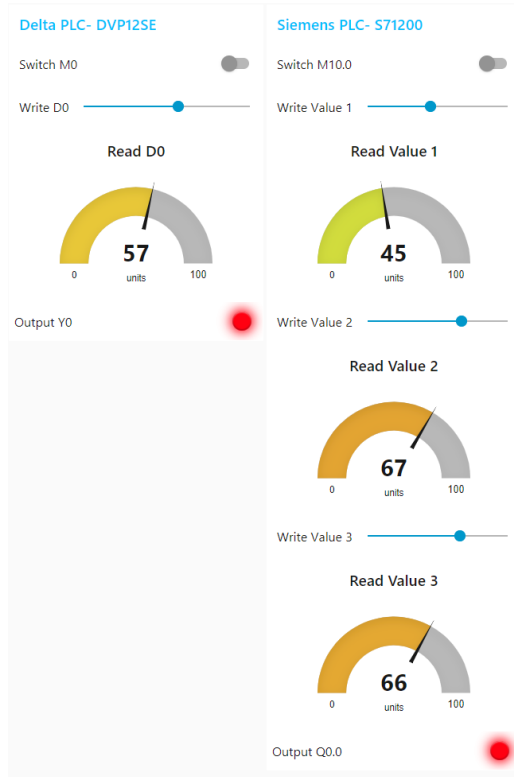
\*Edit user setting in [Enhanced Security] and use corresponding permission classes (browse/read/write).  
\*If setting changes are made while OPC UA server is running, the server will restart momentarily for the changes to take effect.

Save

This OPC-UA endpoint can be copied from IloT Web interface

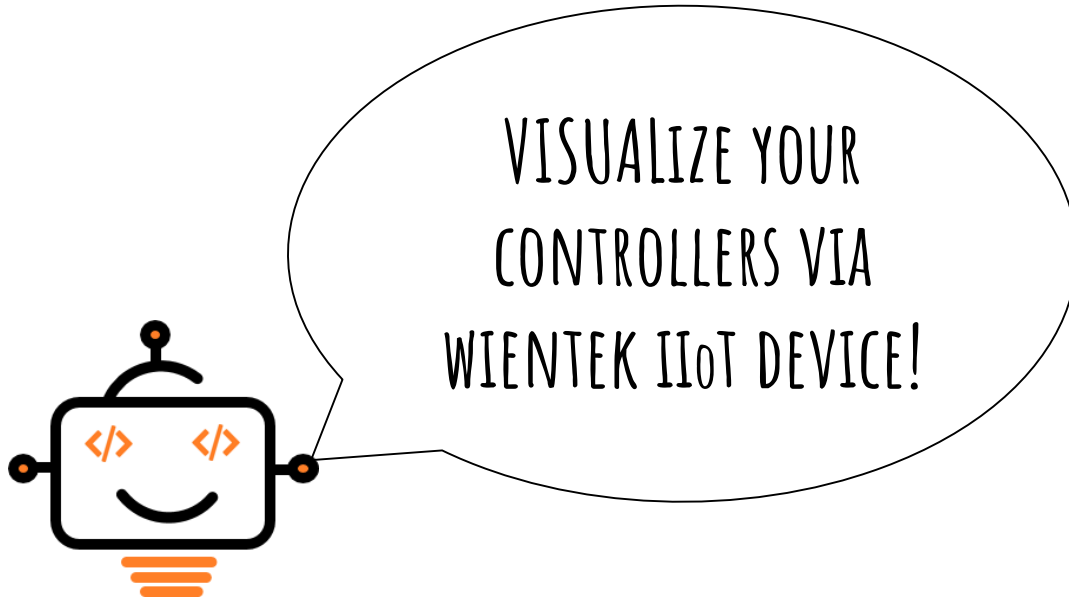
**Check for the 'write access'!**

# Step 3) Design a UI for reading/writing the values



This dashboard is configured in local network can be easily viewed by smart phones, tablet or computers which are in the same network.

Access the dashboard via local network IP address.



To get more information visit

<https://www.weintek.com>

*Link is also given in the video description*



Weintek IIoT  
cMT-G01