Connect OpenPLC with ScadaBR

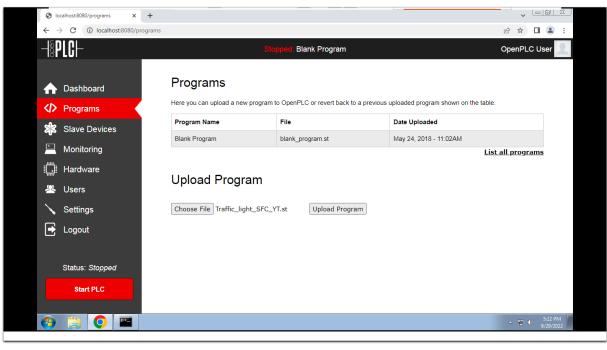
For demonstration, I follow the step in this video.

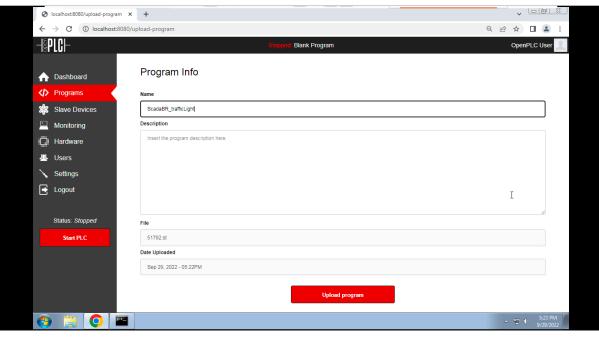
https://www.youtube.com/watch?v=bSdW4XXBILo

It sets up a traffic light project on OpenPLC, and connect it with ScadaBR.

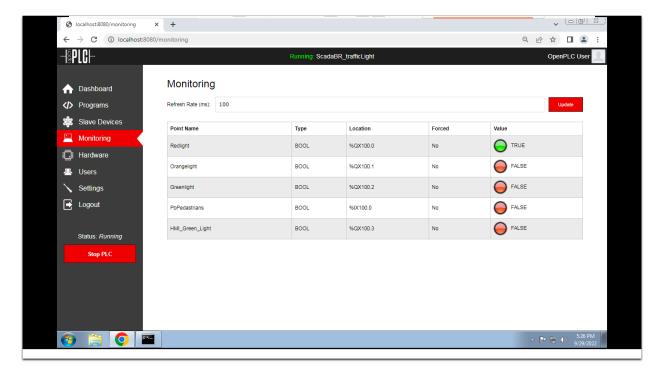
OpenPLC

First, we upload the traffic light program on OpenPLC Runtime.





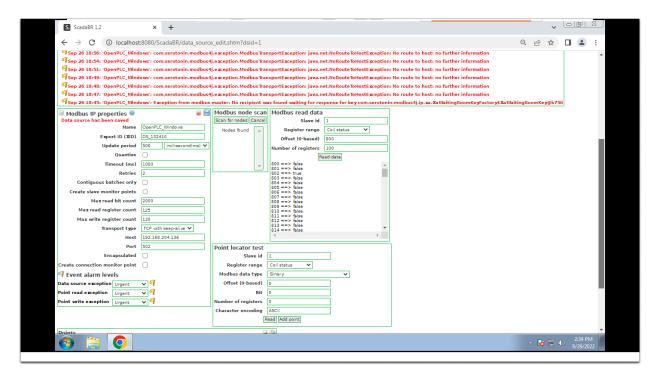
After that, press "Start PLC" and go to Monitoring tab for variable monitoring.



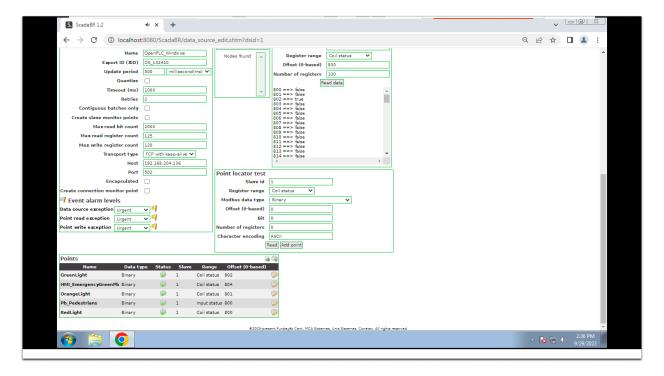
ScadaBR

Select "Data sources"

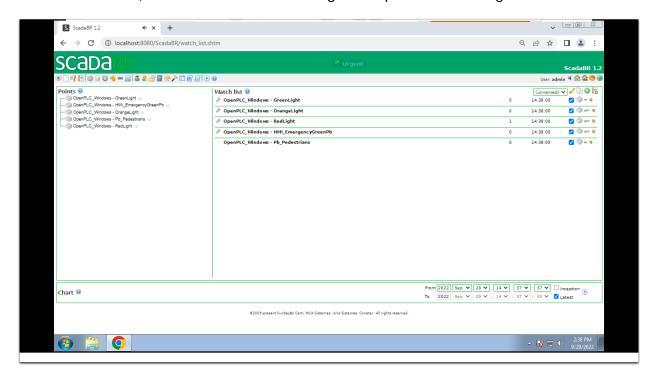
Set up Modbus properties, including Name, Update period, Transport type, and IP address. IP address is the address of machine running OpenPLC.



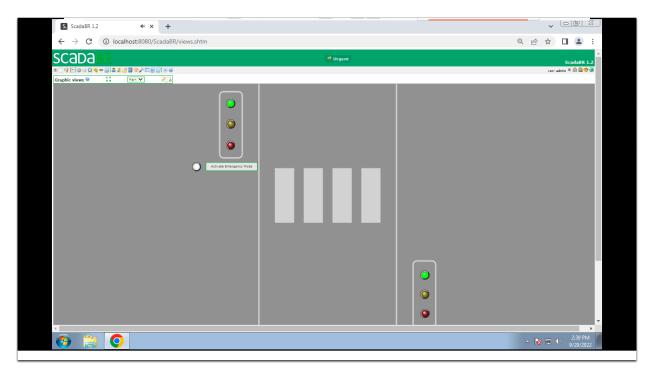
After that, scroll down to add points for monitoring.



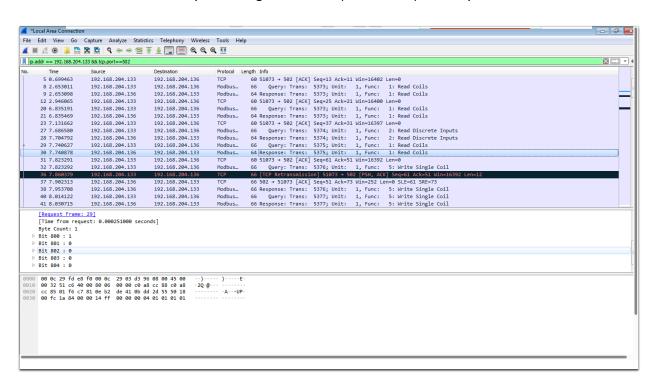
Select "Watch list", and we can see data coming from OpenPLC on the right hand side.



Go to "Graphical View", and we can add a background with data point on it to showcase realtime situation.



Here's what I learned from Wireshark. I used Wireshark version 3.2 because it is the last version to support Windows 7. It shows that ScadaBR keeps reading data value (Read Coils) from OpenPLC



When we click "Activate Emergency Mode" in the "Graphical View" from ScadaBR, ScadaBR will write data to OpenPLC (Write Single Coil).

