ANC-100e and ANC-120e Ethernet and USB to DH+ Converter

Ignition SCADA to SLC5/04 or PLC5 on Data Highway Plus network

This document provides information to configure Ignition HMI software running in a computer connected via Ethernet Network with an ANC-100e or USB using a ANC-120e to communicate with a SLC5/04 or PLC5 on a Data Highway Plus network.

Ignition software from Inductive Automation ® is a powerful industrial software platform built for SCADA, MES and IIoT applications.

Visit https://inductiveautomation.com for more information about Ignition software

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Note: Before proceeding, make sure

✓ ANC-120e Driver is installed (Only if using ANC-120e)

✓ Network Adapter is correctly configured to access ANC-120e or ANC-100e

✓ ANC-120e is connected to the computer and DH+ network or ANC-100e is connected to the same Ethernet network or directly to your computer, and to the DH+ network.

For this example:

  ANC-100e IP address = 192.168.0.230
  SLC5/04 DH+ node = 03
  Ignition Version 7.9.3
1. Open the "Ignition Gateway Control Utility" and click on "Go to webpage".

2. Login to the configuration setting and go to the "OPC-UA SERVER" section on the left area of the screen and click on "Devices".
3. Click on the blue arrow on “Create New Device…”

4. On the “Add Device Step 1: Choose Type” screen, select “Allen-Bradley SLC” or “Allen-Bradley PLC5”, depending on your case, and click Next. In our case, we are selecting “Allen-Bradley SLC”
5. On the New Device page, leave all the default values and type in the following fields:
   “Name”: SLC (or the name you would like the device to have)
   “Hostname”: type the IP address of the ANC-100e (default is 192.168.0.230)
   “Connection Path”: 1,1,2,NN
   Where NN is the node address of the target DH+ device
   (03 for our example, so the resulting connection path is: 1,1,2,3)

6. Click “Create New Device”
7. The “Devices” page is displayed showing the SLC device is added to Ignition. The Status will show as “Disconnected” for a brief period of time and then “Connected”.

8. To test the connection, go to “OPC Connections” -> “Quick Client”.
9. In the “OPC Quick Client” screen, browse the “Devices” folder to find your device. You can expand it to see all the filenames and tags.

![OPC Quick Client diagram]

10. To read a tag, use the “[r]” option to its left.

11. If you can read the tags in your DH+ device, then you have successfully configured your ANC-100e or ANC-120e and Ignition software to communicate with a SLC5/04 or PLC5 on Data Highway Plus.