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



## Ignition SCADA to 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 an ANC-120e to communicate with a 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 PLC5* DH+ node = *03 Ignition Version 7.9.3*  1. Open the "Ignition Gateway Control Utility" and click on "Go to webpage"

way control utility			
er is started. is running.		Go to webpad Restart Reset Passwo Thread Dump Gateway Bad Gateway Res Create offline	http://localhost:8088/main/ ord kup tore e activation request
	99 8	Apply license. Create offline	unactivation request

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..."



 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"

SECURITY	Connect to MicroLogix 1100 and 1400 series PLCs.
Auditing Users, Roles	Allen-Bradley PLC5
Service Security	Connect to PLC5s via Ethernet.
Identity Providers	
Security Levels	O Allen-Bradley SLC
Security Zones	Connect to SLC 5/05s via Ethernet.
DATABASES	O DNP3 Driver
Connections	Connect to a DNP3 outstation.
Drivers	
Store and Forward	O Modbus RTU over TCP

5. On the New Device page, leave all the default values and type in the following fields:

"Name": PLC (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"

General	
Name	PLC
Description	
Enabled	✔ (default: true)

Connectivity	
Hostname	192.168.0.230
Timeout	<b>2000</b> (default: 2,000)
Browse Cache Timeout	240000 (default: 240,000)
Connection Path	1,1,2,3 ×

□ Show advanced properties



 The "Devices" page is displayed showing the SLC device is added to Ignition. The Status will show as "Disconnected" for a brief period and then Connected

Devid	ces				
🗸 Suc	cessfully created	new Device	e "SLC"		
Name	Туре	Description	Enabled	Status	
PLC	Allen-Bradley PLC5		true	Disconnected: Determining Protocol	More 🛩 🛛 edit
Devi	ces				
🗸 Sud	ccessfully update	d Device "S	SLC"		
Name	Туре	Descripti	on Enat	led Status	
PLC	Allen-Bradley PLC	5	true	Connected: Protocol: DHRIO	More 👻 🛛 edit

8. To test the connection, go to "OPC Connections" -> "Quick Client"

IAGS	Server	Address	V
History			
Realtime			
OPC-UA SERVER	Subscription	name :	
Certificates	Subscription	n 1	
Devices			
Settings			
OPC CONNECTIONS			
Servers			
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

JPC Q	uick Clie	ent	
ТҮРЕ	ACTION	TITLE	
Server	refresh	🖻 🔄 Ignition OPC-UA Server	
Object		🖻 Ġ Devices	
Object		e-🔤 [PLC]	
Object			
Object		₽- 🔂 N7	
Tag	[s][r][w]		
Tag	[s][r][w]	⊕ 🗀 N7:1	
Тад	[s][r][w]	€- 🗀 N7:2	
Tag	[s][r][w]	⊕- 🗀 N7:3	
Tag	[s][r][w]	€- 🗀 N7:4	

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 PLC5 on Data Highway Plus.