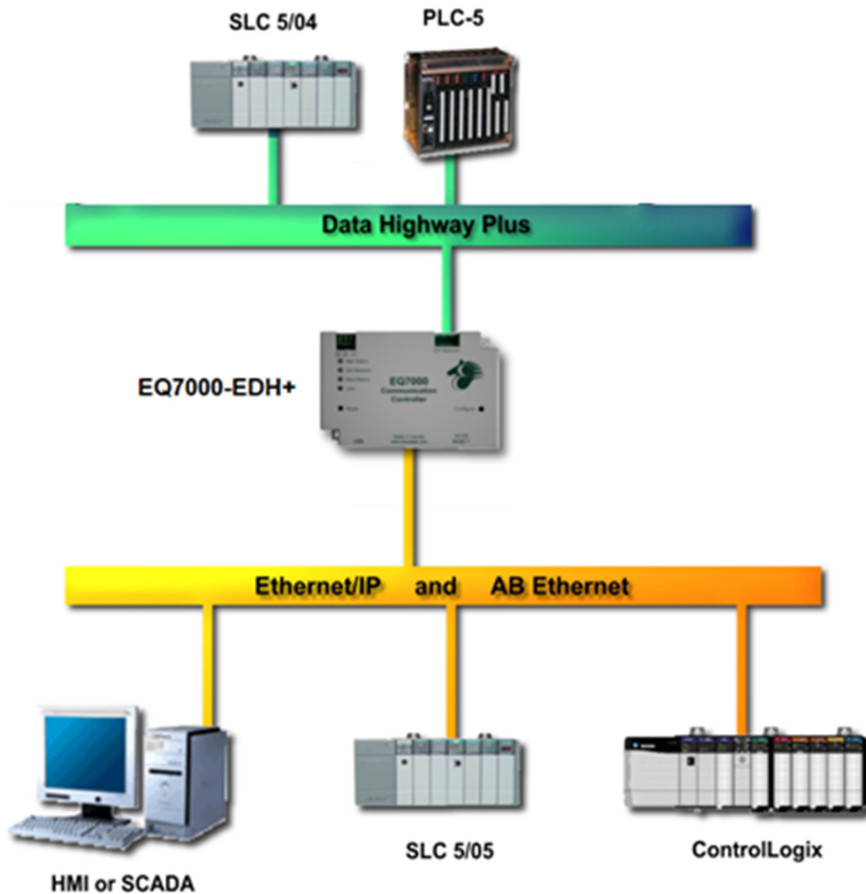


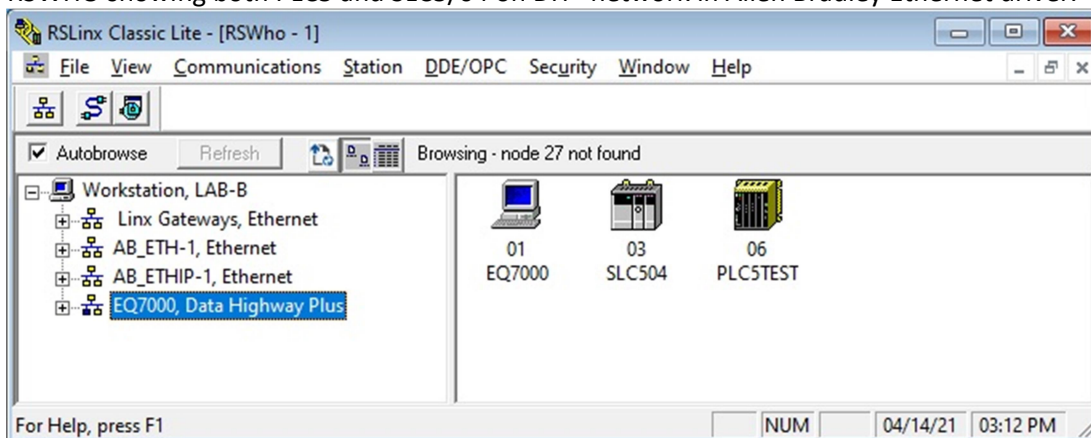
## InduSoft Web Studio Ethernet IP CIP driver with EQ7000-EDH+ accessing data from Allen Bradley PLC5 and SLC504

Diagram showing our test setup, note SLC-505 and Contrologix are not needed in this test setup but they are able to communicate with both PLC5 and SLC 5/04 through the EQ7000 using Ethernet IP CIP protocol or AB Ethernet PCCC.

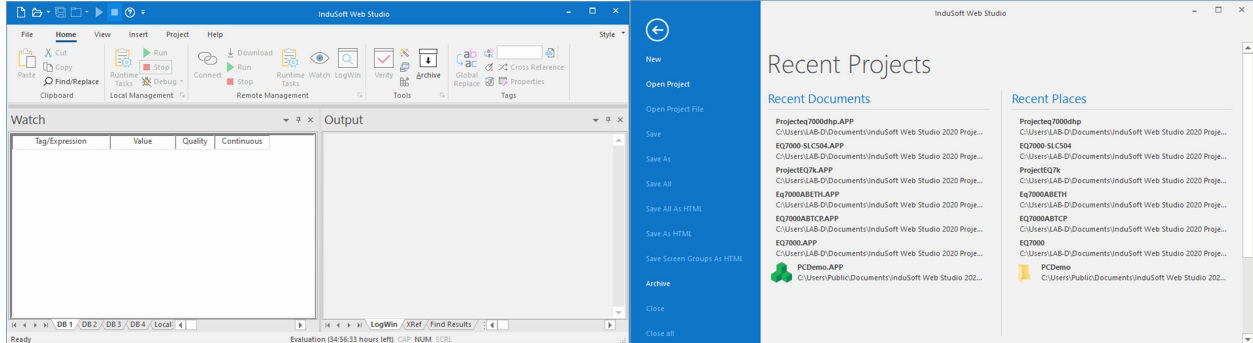


SLC-504 with PLC5 on DH+ network and SLC5/05 with Control Logix on Ethernet IP and a Desktop Computer running InduSoft Web Studio as well as RSLINX.

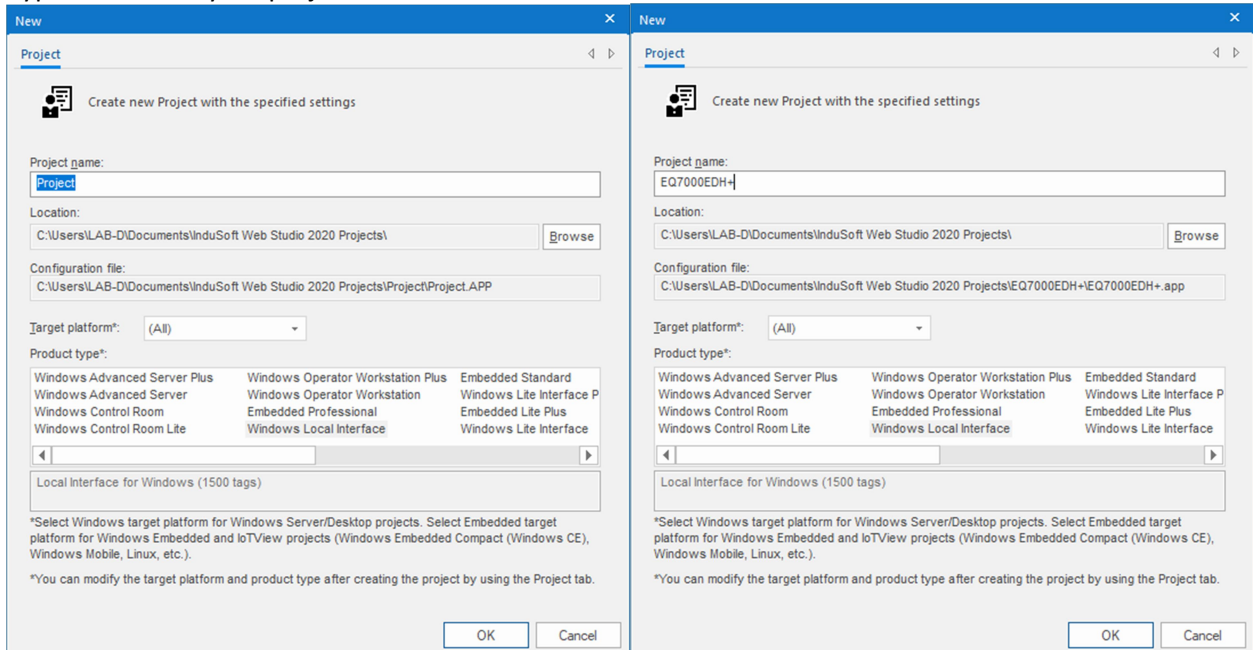
RSWHO showing both PLC5 and SLC5/04 on DH+ network in Allen Bradley Ethernet driver.



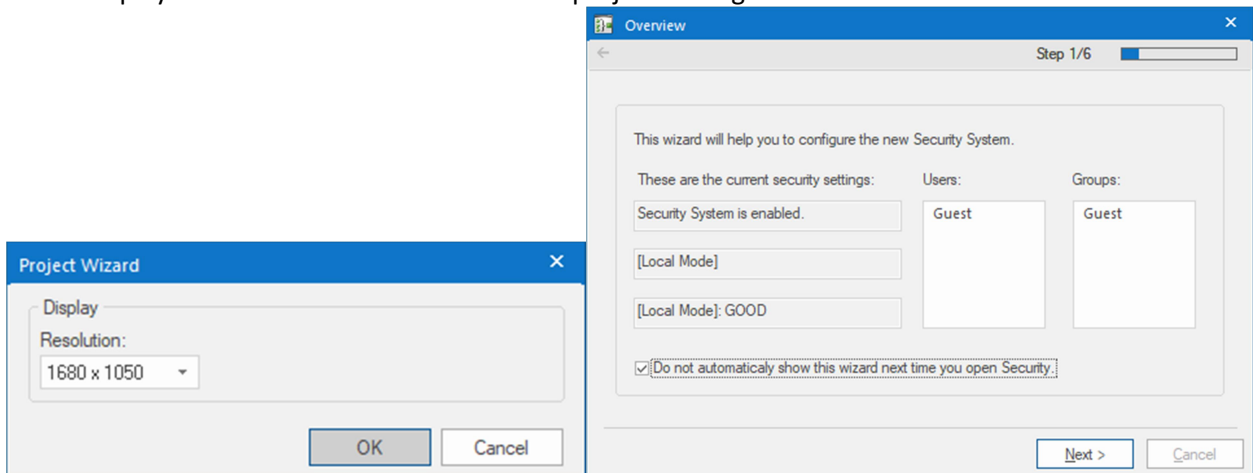
Start InduSoft Web Studio and click on File then click on New to create a new project.

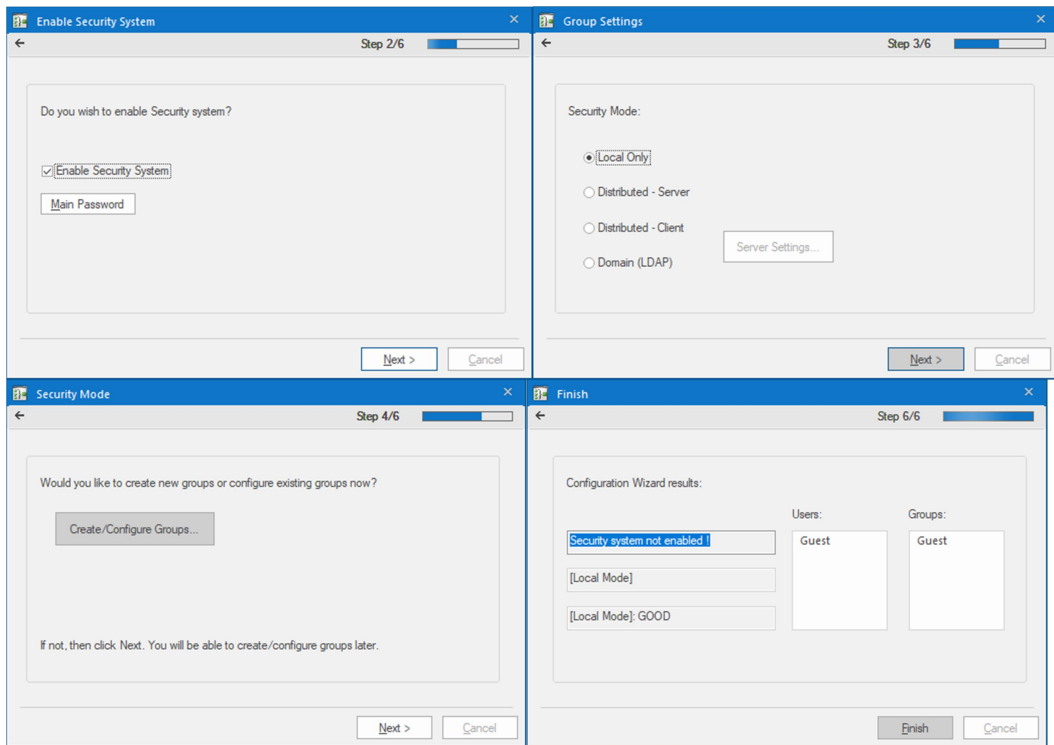


Type a name for your project.

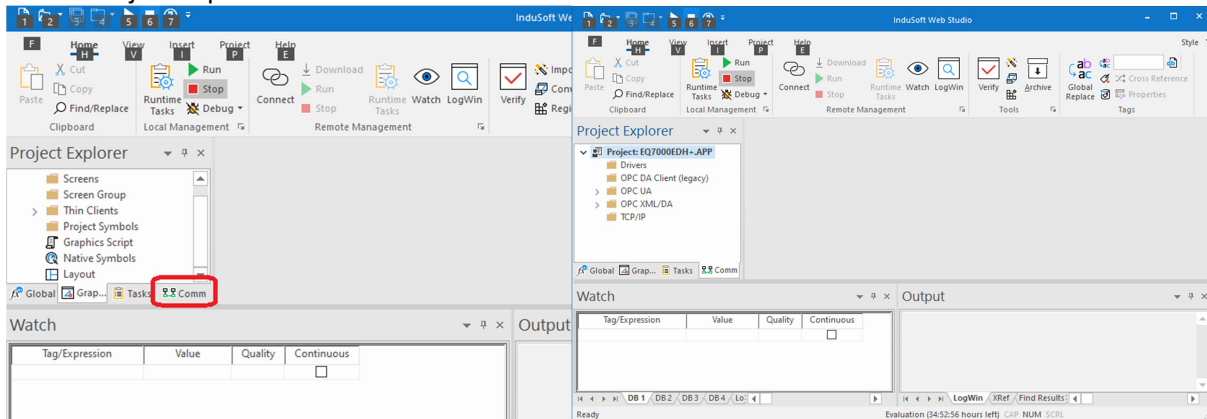


Select display resolution and continue with the project settings

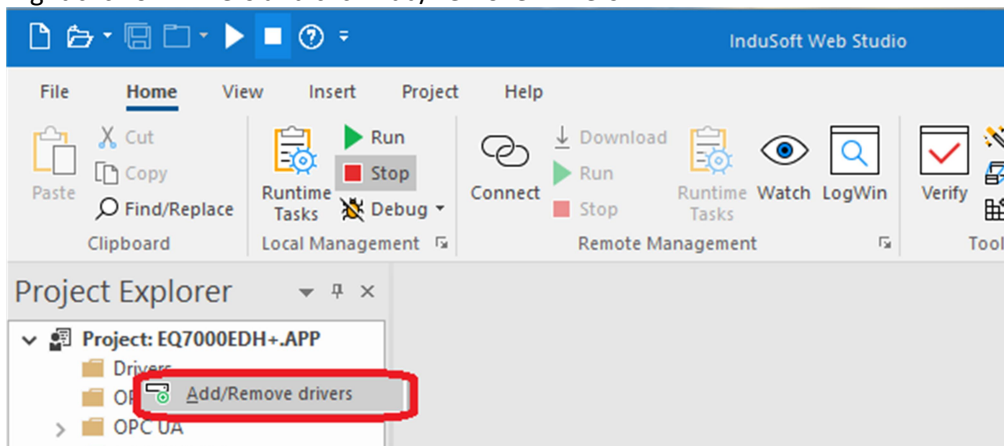




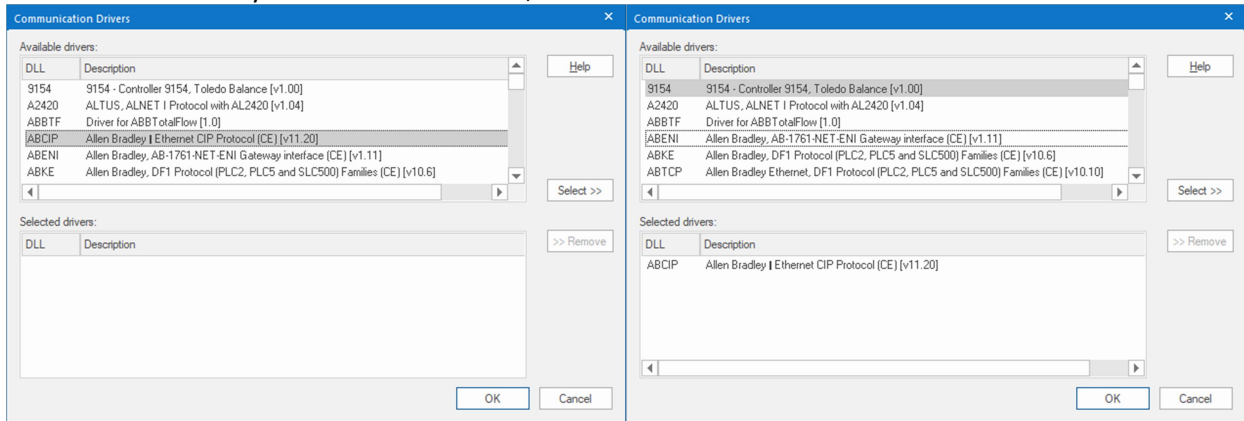
Under Project explorer click on Comm tab



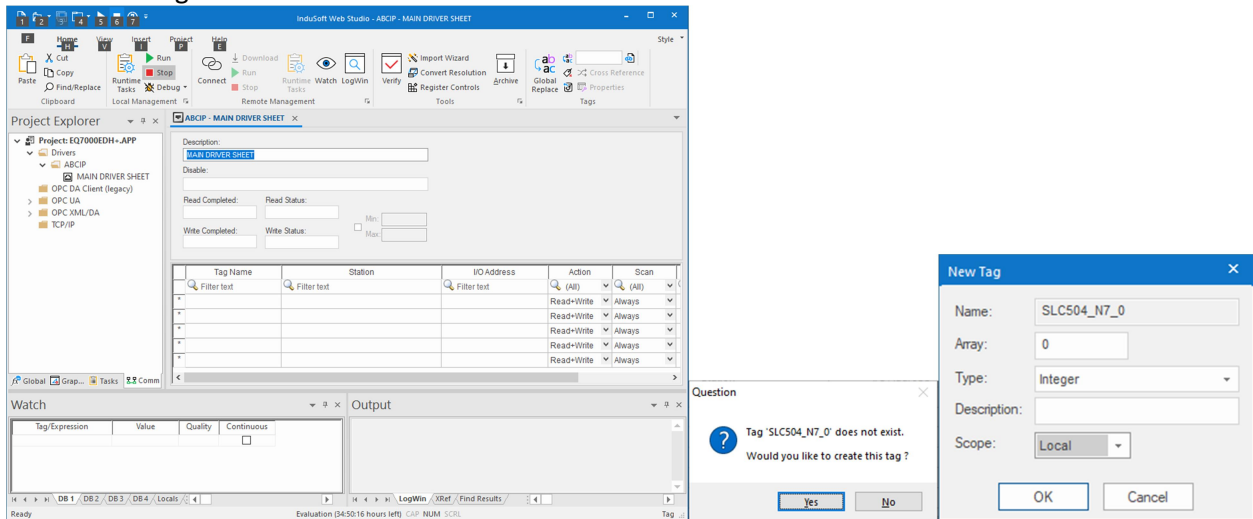
Right click on Drivers and click Add/Remove Drivers



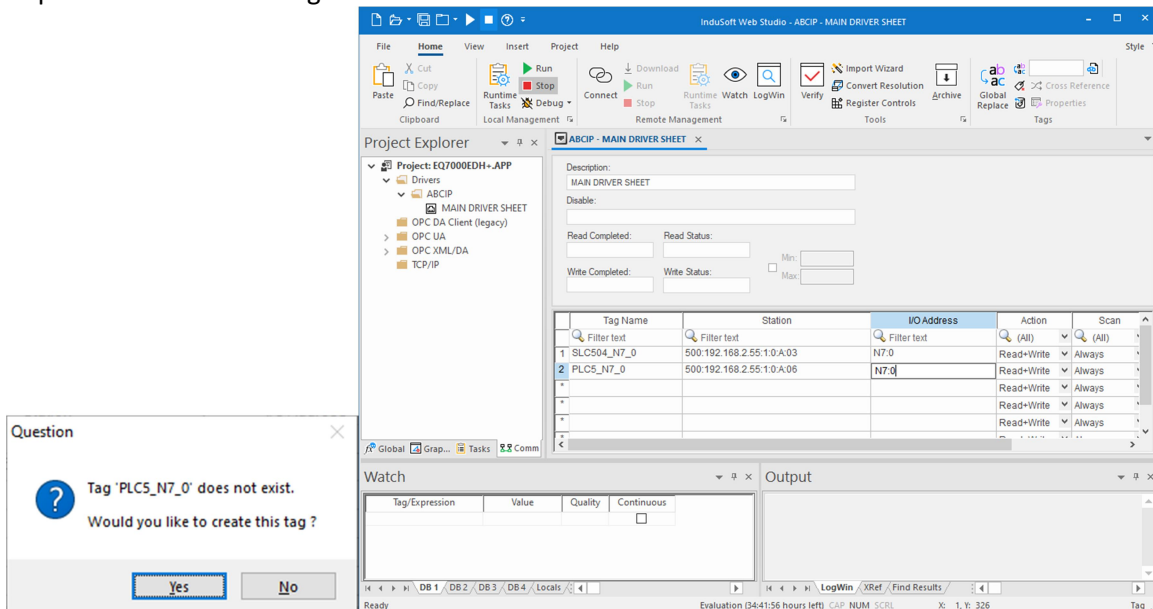
Click on Allen Bradley Ethernet CIP Protocol, then click on Select



In Project Explorer, expand the Drivers folder and click on MAIN DRIVER SHEET, to add tags you can double click under Filter Text in Tag Name Column, for our test we typed SLC504\_N7\_0 for the SLC5/04 word 0 of integer file N7.



Repeat for word 0 of integer file N7 in PLC5



Detailed explanation for **Station** syntax

**PLC Family:EQ7000 IP address:1:0:A:Node address of the destination PLC on DH+**

**500:192.168.2.55:1:0:A:03** where 500 is for SLC500 family, 192.168.2.55 is EQ7000 IP address, then 1:0:A which is always same for all stations and finally 03 the node address for the SLC504, similarly **5:192.168.2.55:1:1:A:06** where 5 is for PLC5 family, 192.168.2.55 is EQ7000 IP address, again 1:0:A which is always same for all stations then finally 06 the node address for the PLC5,

Double click under Tag Expression in Watch window to add all tags to be displayed in Watch window.

The screenshot displays the InduSoft Web Studio interface for a project named 'ABCIP - MAIN DRIVER SHEET'. The Project Explorer on the left shows the project structure, including 'Drivers', 'ABCIP', and 'MAIN DRIVER SHEET'. The Watch window at the bottom left shows a table with columns 'Tag/Expression', 'Value', 'Quality', and 'Continuous'. The Object Finder dialog box is open, showing a list of tags and functions. The Watch window table is as follows:

Tag/Expression	Value	Quality	Continuous
SLC504_N7_0	0	GOOD	<input checked="" type="checkbox"/>
			<input type="checkbox"/>

The Object Finder dialog box shows a list of tags and functions. The 'Selection' field is set to 'PLC5\_N7\_0'. The list includes:

- Tags: LastCodeChar\_ (Last code char in the Viewer), LptOff (Disable alarm printing), Minute (minute (0 - 59)), Month (month(1 - 12)), Next (Next, math function), Reserved\_\_1 (Reserved tag), Reserved\_\_10 (Reserved tag), Reserved\_\_2 (Reserved tag), Reserved\_\_8 (Reserved tag), Reserved\_\_9 (Reserved tag), Second (second (0 - 59)), ServerDate\_ (Date of the server), ServerTime\_ (Time of the server), SLC504\_Integer\_N7\_0, SLC504\_N7\_0, Time\_ (time: hh:mm:ss).
- Functions: Log Me, Arithme, Statistic, Logarithm, Logic, String, Date an, Trigonon, Openin, Security, Module, File, Graphic, Text tra, Multim.

After entering the tags to be monitored in Watch window click on RunTime tasks.

The screenshot shows the InduSoft Web Studio interface for the project 'ABCIP - MAIN DRIVER SHEET'. The top toolbar contains various icons for file operations, project management, and runtime tasks. The 'Runtime Tasks' icon, which depicts a gear with a play button, is highlighted with a red rectangle. Below the toolbar, the 'Project Explorer' on the left shows the project structure, including 'Drivers', 'ABCIP', and 'MAIN DRIVER SHEET'. The main workspace displays the 'MAIN DRIVER SHEET' configuration page, which includes fields for 'Description', 'Disable', 'Read Completed', 'Read Status', 'Write Completed', and 'Write Status'. Below these fields is a table with columns for 'Tag Name', 'Station', and 'I/O Address'. The 'Watch' window at the bottom left shows a table with columns for 'Tag/Expression', 'Value', 'Quality', and 'Continuous'. The 'Output' window is visible on the right.

Tag Name	Station	I/O Address
1 SLC504_N7_0	500:192.168.2.55:1:0:A:03	N7:0
2 PLC5_N7_0	5:192.168.2.55:1:0:A:06	N7:0
*		
*		
*		
*		

Tag/Expression	Value	Quality	Continuous
SLC504_N7_0	0	GOOD	<input checked="" type="checkbox"/>
PLC5_N7_0	0	GOOD	<input checked="" type="checkbox"/>
			<input type="checkbox"/>

Click on Communication Driver then click on Start or just double click on Communication Driver to start it up

The screenshot shows the 'Runtime Tasks' dialog box. It has a title bar 'Runtime Tasks' and a subtitle 'Configure and monitor runtime tasks, such as Background Tasks and Viewer'. Below the subtitle is a list of runtime tasks. The 'Communication Driver' task is highlighted with a red rectangle. To the right of the list are buttons for 'Start', 'Stop', and 'Startup...'.

Runtime Task	Status	Startup
Background Task		Automatic
Communication Driver		Automatic
Core Runtime		Automatic
Database/ERP		Manual
LogWin		Manual
Mobile Access		Manual
OPC DA Client (Legacy)		Manual
OPC DA Server		Manual
OPC HDA Server		Manual
OPC UA Client		Manual



