

IronHorse ACG

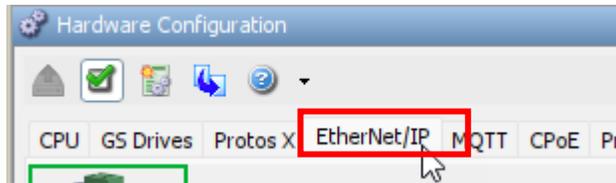
Productivity Implicit Messaging Sample Quick Start

Section 1 – Changing Drive IP Address in the Productivity Project

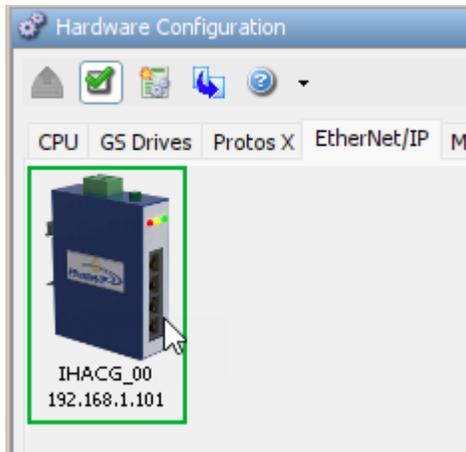
Step 1: Double Click ‘Hardware Config’ in the Application Tools window.



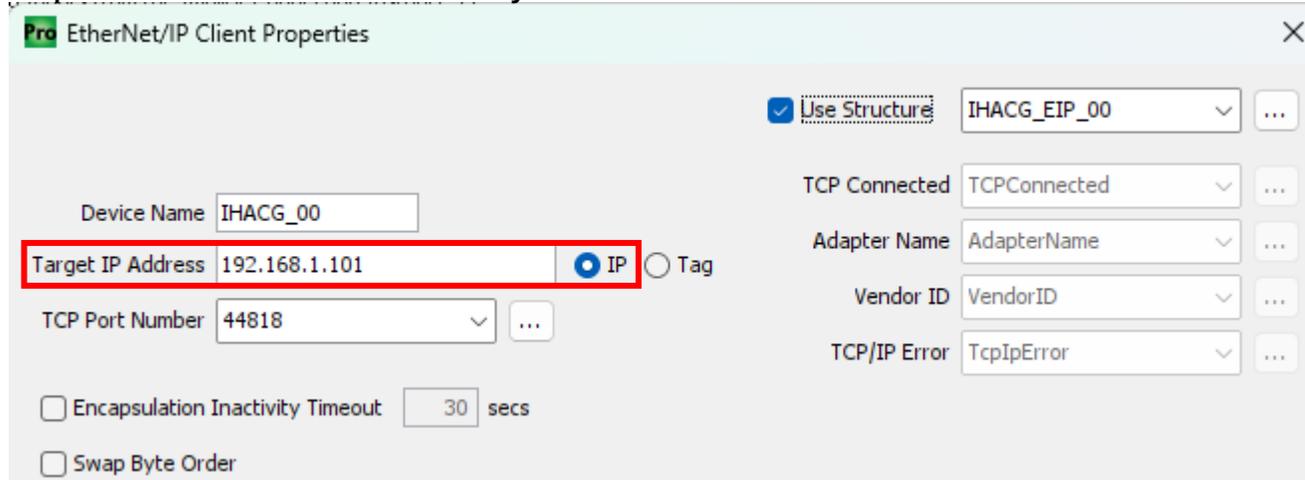
Step 2: Select the ‘EtherNet/IP’ tab.



Step 3: Double click on “IHACG_00”.



Step 4: Set the IP address of your IronHorse ACG Drive. Press OK when done.

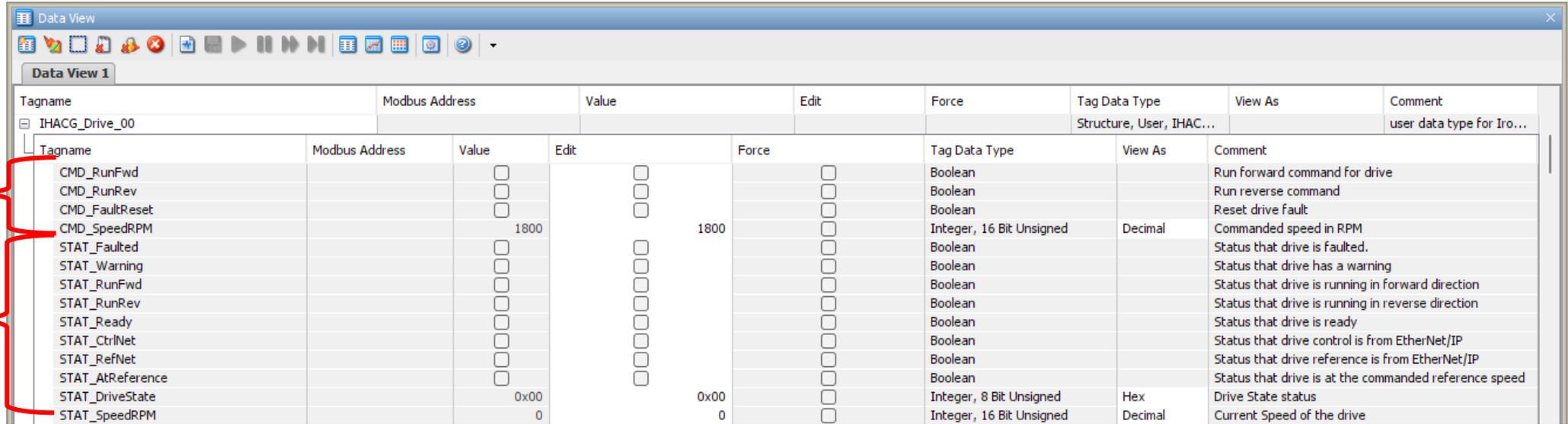


The screenshot shows the 'EtherNet/IP Client Properties' dialog box. The 'Target IP Address' field is highlighted with a red box and contains the value '192.168.1.101'. The 'IP' radio button is selected. Other fields include 'Device Name' (IHACG_00), 'TCP Port Number' (44818), 'Encapsulation Inactivity Timeout' (30 secs), and 'Swap Byte Order' (unchecked). The 'Use Structure' checkbox is checked, and the 'Structure' dropdown is set to 'IHACG_EIP_00'. Other dropdowns include 'TCP Connected' (TCPConnected), 'Adapter Name' (AdapterName), 'Vendor ID' (VendorID), and 'TCP/IP Error' (TcpIpError).

Device Name	IHACG_00
Target IP Address	192.168.1.101
TCP Port Number	44818
Encapsulation Inactivity Timeout	30 secs
Swap Byte Order	<input type="checkbox"/>
Use Structure	<input checked="" type="checkbox"/>
Structure	IHACG_EIP_00
TCP Connected	TCPConnected
Adapter Name	AdapterName
Vendor ID	VendorID
TCP/IP Error	TcpIpError

Section 2 – Program Tag for Drive Control and Status

- The sample program has a tag called “IHACG_Drive_00” that is used for status and control.
- This variable can be used from new tasks created by the user or from the Data View window.



Tagname	Modbus Address	Value	Edit	Force	Tag Data Type	View As	Comment
IHACG_Drive_00					Structure, User, IHAC...		user data type for Iro...
CMD_RunFwd		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Boolean		Run forward command for drive
CMD_RunRev		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Boolean		Run reverse command
CMD_FaultReset		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Boolean		Reset drive fault
CMD_SpeedRPM		1800	<input type="checkbox"/>	1800	Integer, 16 Bit Unsigned	Decimal	Commanded speed in RPM
STAT_Faulted		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Boolean		Status that drive is faulted.
STAT_Warning		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Boolean		Status that drive has a warning
STAT_RunFwd		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Boolean		Status that drive is running in forward direction
STAT_RunRev		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Boolean		Status that drive is running in reverse direction
STAT_Ready		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Boolean		Status that drive is ready
STAT_CtrlNet		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Boolean		Status that drive control is from EtherNet/IP
STAT_RefNet		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Boolean		Status that drive reference is from EtherNet/IP
STAT_AtReference		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Boolean		Status that drive is at the commanded reference speed
STAT_DriveState		0x00	<input type="checkbox"/>	0x00	Integer, 8 Bit Unsigned	Hex	Drive State status
STAT_SpeedRPM		0	<input type="checkbox"/>	0	Integer, 16 Bit Unsigned	Decimal	Current Speed of the drive

Drive
Commands

Drive
Status