

# IronHorse ACG

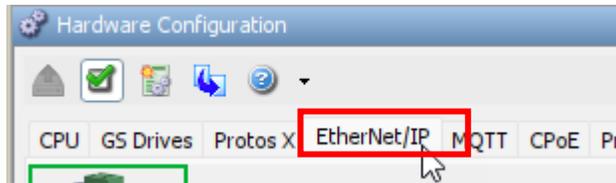
Productivity Explicit Messaging Sample Quick Start

## Section 1 – Changing Drive IP Address in the Productivity Project

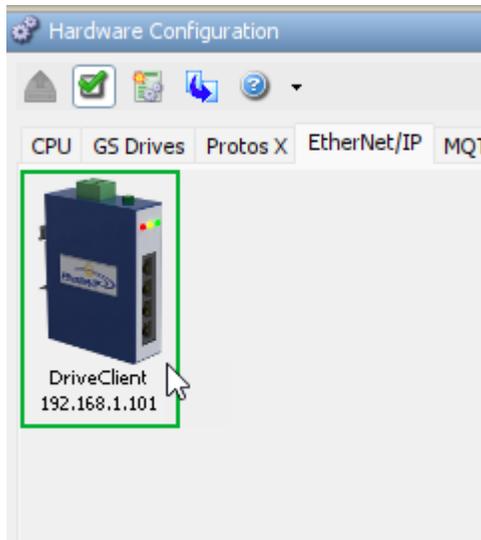
Step 1: Double Click ‘Hardware Config’ in the Application Tools window.



Step 2: Select the ‘EtherNet/IP’ tab.



Step 3: Double click on “DriveClient”.



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 'Device Name' is DriveClient, and 'Use Structure' is checked. The 'TCP Port Number' is 44818. The 'Encapsulation Inactivity Timeout' is 30 secs. The 'Swap Byte Order' checkbox is unchecked. The 'Monitor' button is visible at the bottom left, and the 'OK', 'Cancel', and 'Help' buttons are at the bottom right. The message 'No messages have been defined' is displayed in the center of the dialog.

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

## Section 2 – Program Tag for Drive Control and Status

- The sample program has a tag called “Drive” 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
Drive							
Stat_Frequency		0		0	Integer, 16 Bit ...	Decimal	
Stat_FaultCode		0		0	Integer, 16 Bit ...	Decimal	
Stat_DriveState		0x03		0x00	Integer, 8 Bit ...	Hex	
Stat_DriveReady			<input checked="" type="checkbox"/>	<input type="checkbox"/>	Boolean		
Stat_RunningFwd			<input type="checkbox"/>	<input type="checkbox"/>	Boolean		
Stat_RunningRev			<input type="checkbox"/>	<input type="checkbox"/>	Boolean		
Stat_AtRef			<input type="checkbox"/>	<input type="checkbox"/>	Boolean		
Stat_DriveFault			<input type="checkbox"/>	<input type="checkbox"/>	Boolean		
Cmd_Frequency		4500		4500	Integer, 16 Bit ...	Decimal	
Cmd_AccelTime		10		10	Integer, 16 Bit ...	Decimal	
Cmd_DecelTime		10		10	Integer, 16 Bit ...	Decimal	
Cmd_RunRwd			<input type="checkbox"/>	<input type="checkbox"/>	Boolean		
Cmd_RunRev			<input type="checkbox"/>	<input type="checkbox"/>	Boolean		
Cmd_FaultReset			<input type="checkbox"/>	<input type="checkbox"/>	Boolean		

Drive Status

Drive Commands