How to change the IP address in Studio 5000

This guide explains how to change the IP address in Studio 5000 for a 1756-ENBT/A Ethernet module, and how to reconnect to the controller afterward. The screens shown use the RSLogix 5000 interface. You change the address in the module properties, download the change, apply the live address, and then update the communication path in RSWho.

Prerequisites

Before you begin, make sure you have the following:

- An RSLogix 5000 project loaded and an online connection to the controller.
- A new IP address that no other device on the network uses.
- Only the last octet changes. The network portion (for example, 192.168.1) stays the same, as set by the subnet mask.

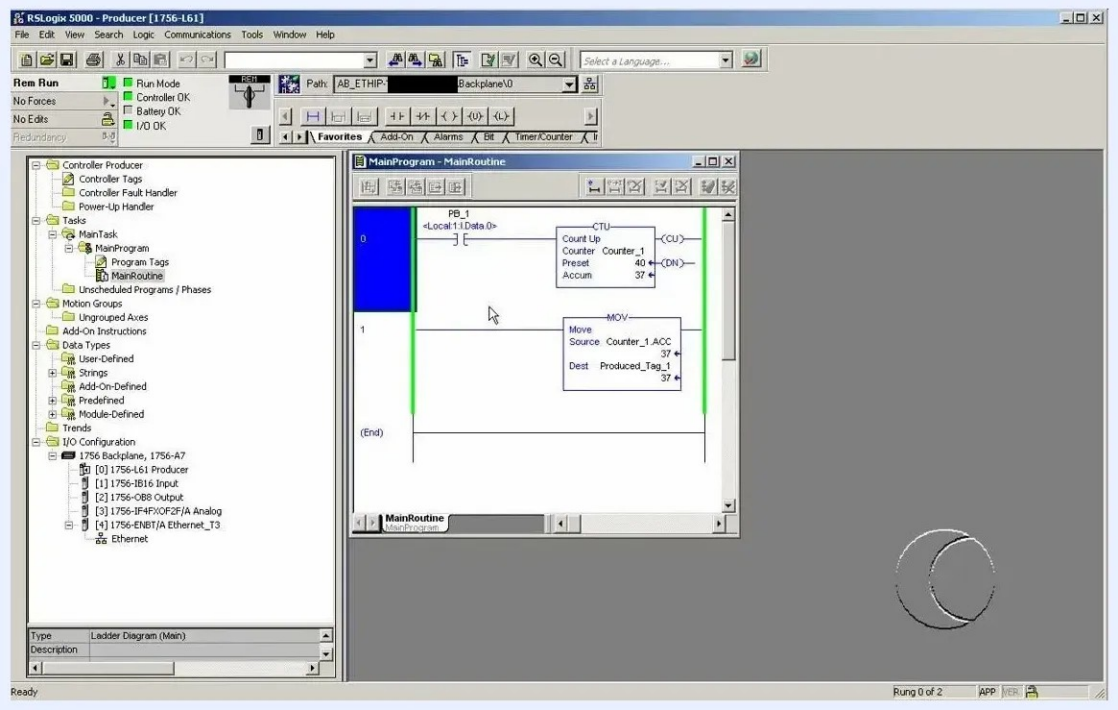
Verify online status and go offline

1. Verify you are online with the controller

Open RSLogix 5000 and load your project. Confirm you are online with the controller:

- The status indicators show "Run Mode", "Controller OK", "Battery OK", and "I/O OK" in green.
- The top bar displays "Rem Run", and the path shows the current Ethernet/IP driver (for example, AB_ETHIP-1\192.168.1.211\Backplane\0).

- The project tree and program logic are accessible.



RSLogix 5000 main window showing online status, project tree, and communication path AB_ETHIP-1\192.168.1.211\Backplane\0

2. Go offline with the controller

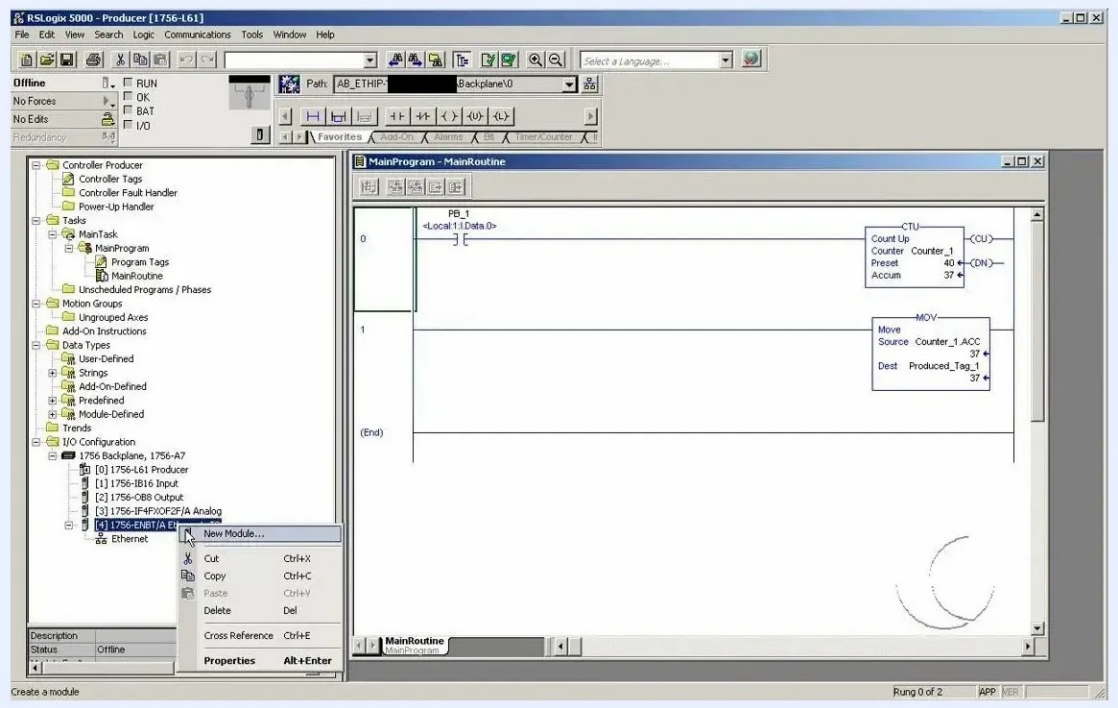
Switch RSLogix 5000 to offline mode before you make changes. Confirm the status bar now shows "Offline".

Change the IP address in the module properties

3. Open the Ethernet module properties

1. In the project tree under "I/O Configuration", locate the 1756-ENBT/A Ethernet module (for example, [4] 1756-ENBT/A Ethernet_T3).
2. Right-click the Ethernet module.

3. Select **Properties** from the context menu.



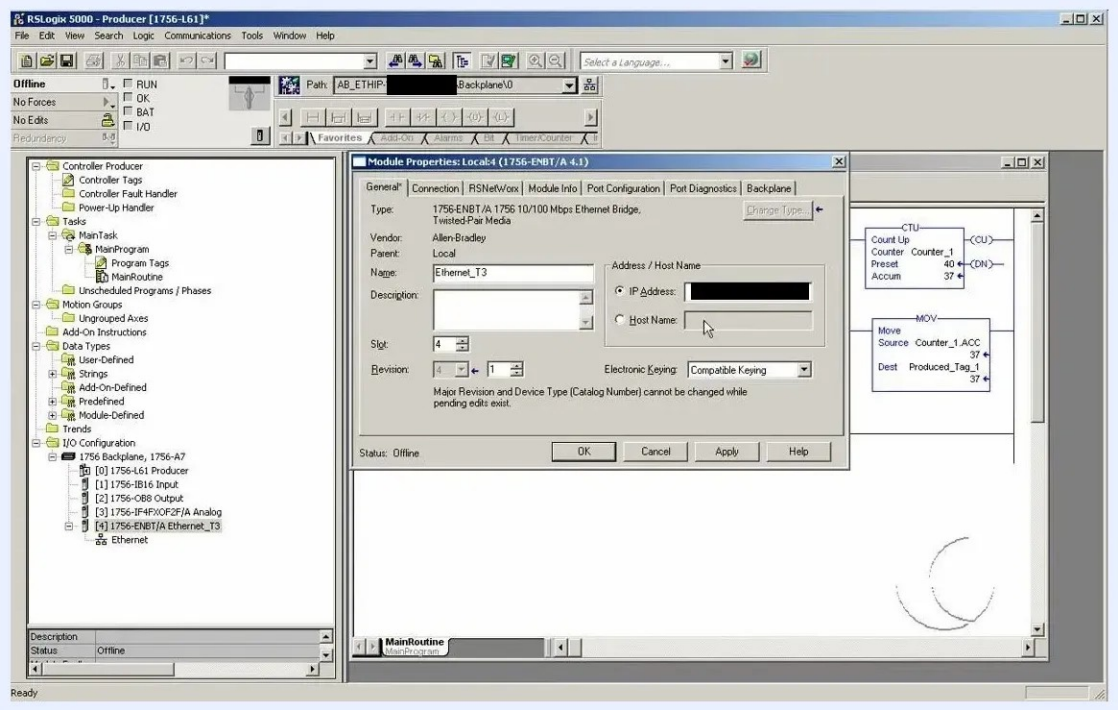
Right-click context menu on the 1756-ENBT/A Ethernet_T3 module with Properties highlighted

4. Change the IP address in the General tab

If you need to connect a different PLC to the same network, each device must have a unique IP address. Change only the last octet (for example, .211) to avoid conflicts.

1. In the "Module Properties" window, make sure you are on the **General** tab.
2. Under "Address / Host Name", select **IP Address**.
3. Change the last octet from 211 to 222, so the address becomes 192.168.1.222.

Do not change the first three octets (192.168.1). They designate the network portion.



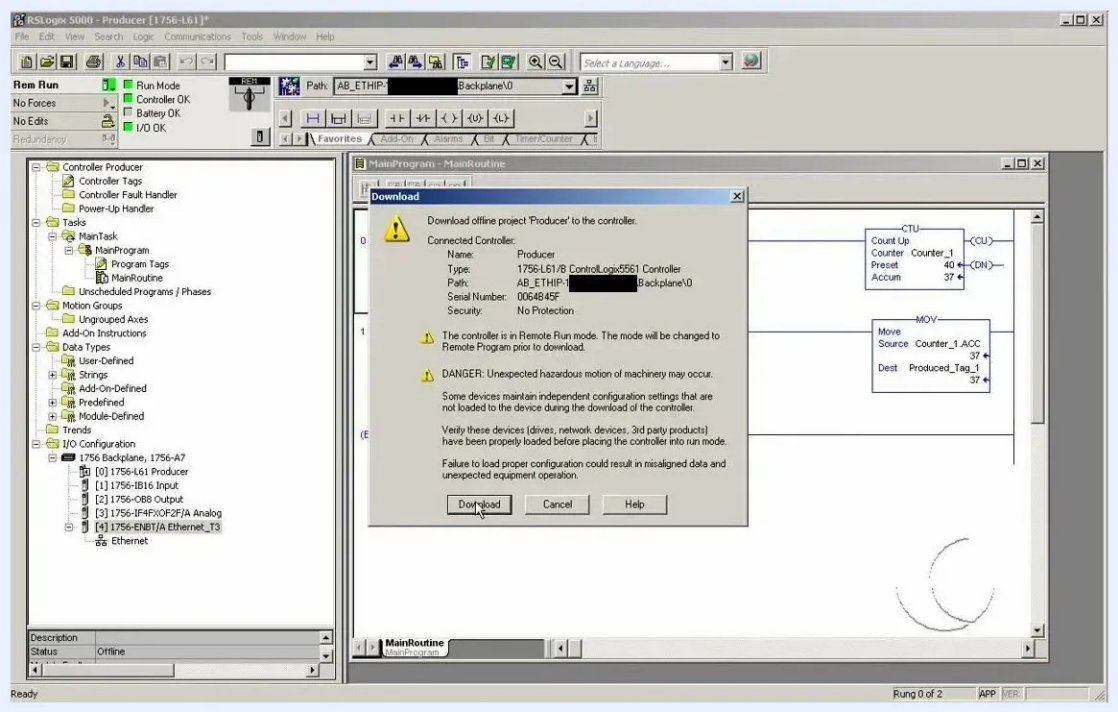
Module Properties window, General tab, with the IP address field being edited from 192.168.1.211 to 192.168.1.222

5. Apply and confirm the change

Click **Apply** to save the new IP address in the general properties. Then click **OK** to close the Module Properties window.

6. Download the changes to the controller

Start a download to apply the configuration changes to the controller. A warning dialog confirms the download and warns about possible motion or configuration mismatches. Click **Download** to proceed.



RSLogix 5000 Download dialog with warnings and the Download button highlighted

At this stage, the change is reflected only in the general properties. The live IP address on the Ethernet/IP card stays the same until you update it in the **Port Configuration** tab. The current communication path (for example, AB_ETHIP-1\192.168.1.211\Backplane\0) is still valid.

Update the live IP address

7. Reopen the module properties

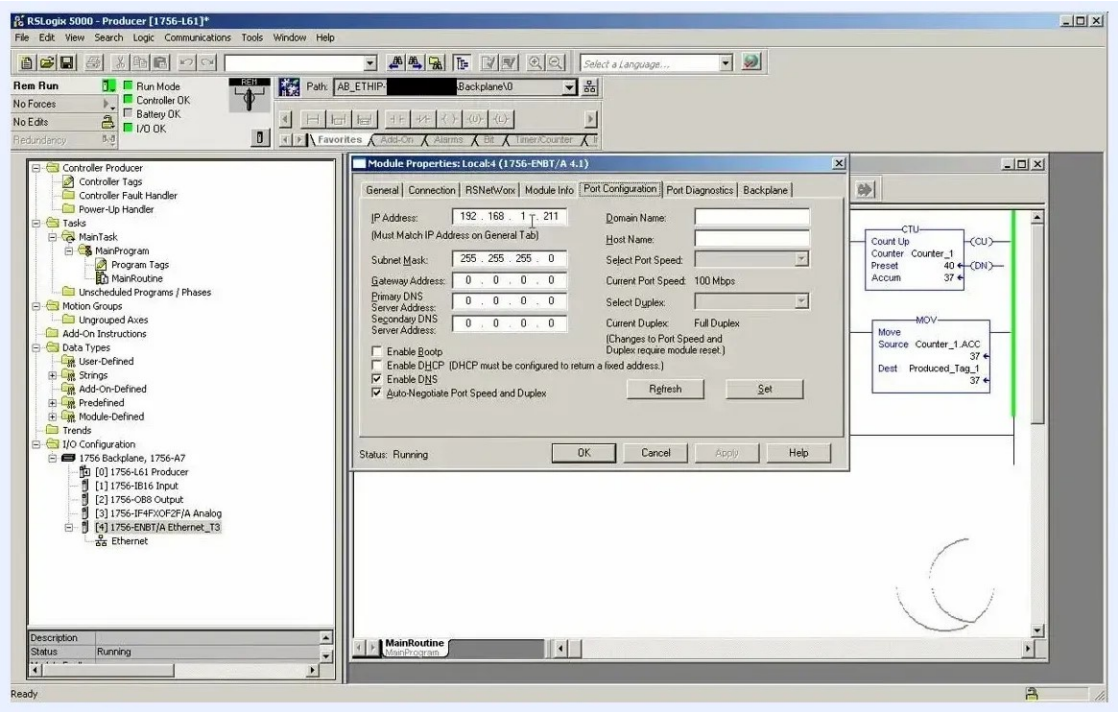
The IP address appears in two places in the module properties:

- The **General** tab, which you can edit only while offline.
- The **Port Configuration** tab, which reflects the live module setting when online.

After the download, right-click the 1756-ENBT/A Ethernet module again in the I/O Configuration tree and select **Properties**. The IP address field in the **General** tab is now grayed out because it is not editable while online.

8. Open the Port Configuration tab

Click the **Port Configuration** tab. It shows the current live IP address of the module (for example, 192.168.1.211). This is the address active on the Ethernet/IP card, and it is typically the number scrolling across the card's display.



Module Properties window, Port Configuration tab, showing the current live IP address 192.168.1.211

9. Prepare to change the live IP address

Changing the IP address in the **Port Configuration** tab immediately affects the module's network identity. Once you apply the change, the current communication path becomes invalid. RSLogix 5000 does not update the path automatically. You lose the connection and must reconnect using the new IP address.

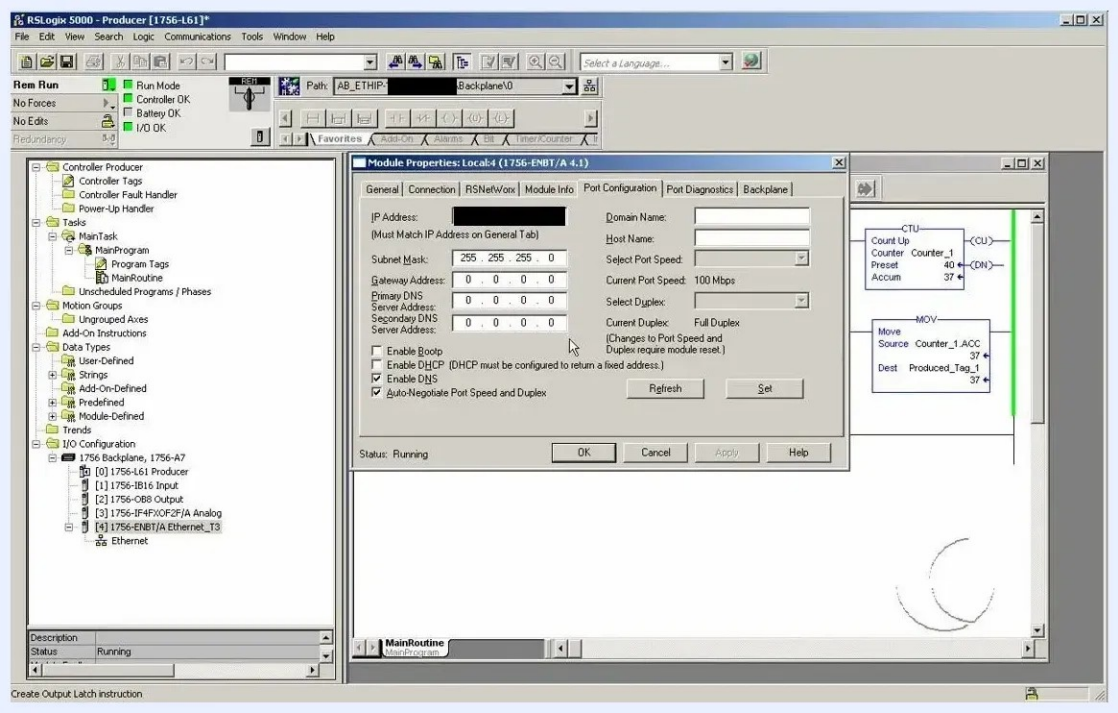
Keep the following in mind:

- Make sure you have the correct new IP address and that no other device on the network uses it.
- Be prepared to re-establish communication with the module at its new IP address.

10. Set the new IP address

In the **Port Configuration** tab, RSLogix 5000 may warn that the communication settings do not match between the **General** tab and the **Port Configuration** tab. This warning is expected when the IP address values differ between the two tabs.

Verify the new IP address (192.168.1.222) is entered, then click **Set** to apply it to the module.



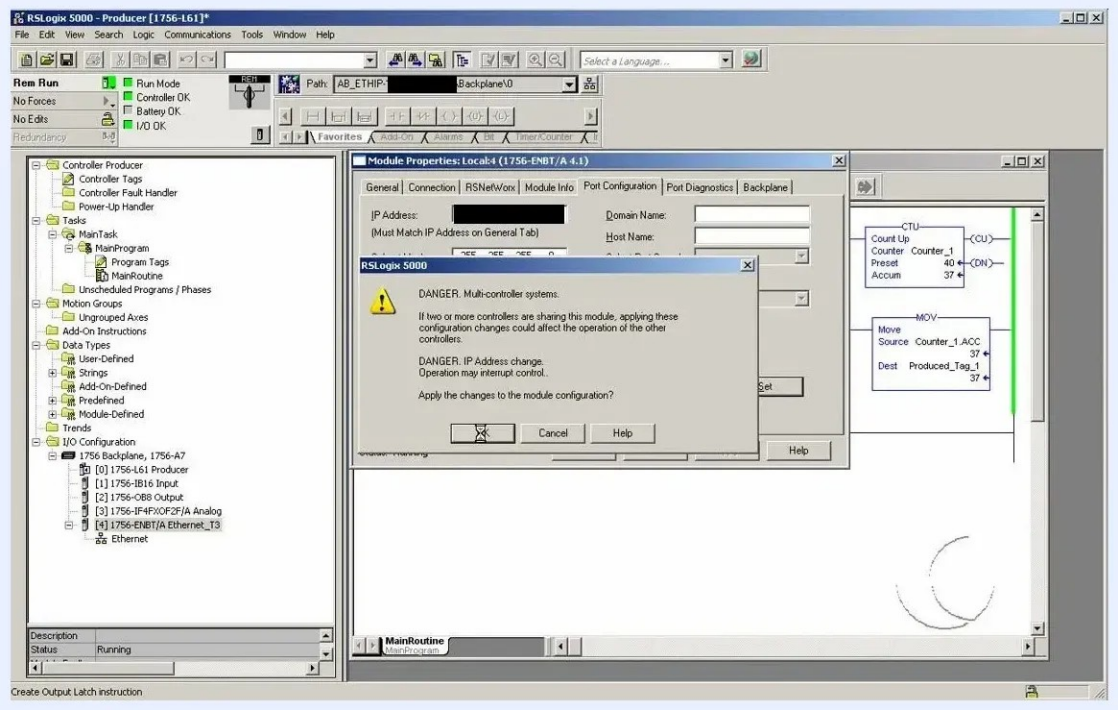
Module Properties window, Port Configuration tab, showing IP address 192.168.1.222 and a warning about mismatched communication settings

11. Acknowledge the address change warning

A dialog box warns that changing the IP address may cause a loss of connectivity. It also warns that other controllers could be affected if they share the module. The warning reads:

- "DANGER. Multi-controller systems. If two or more controllers are sharing this module, applying these configuration changes could affect the operation of the other controllers."
- "DANGER. IP Address change. Operation may interrupt control."
- "Apply the changes to the module configuration?"

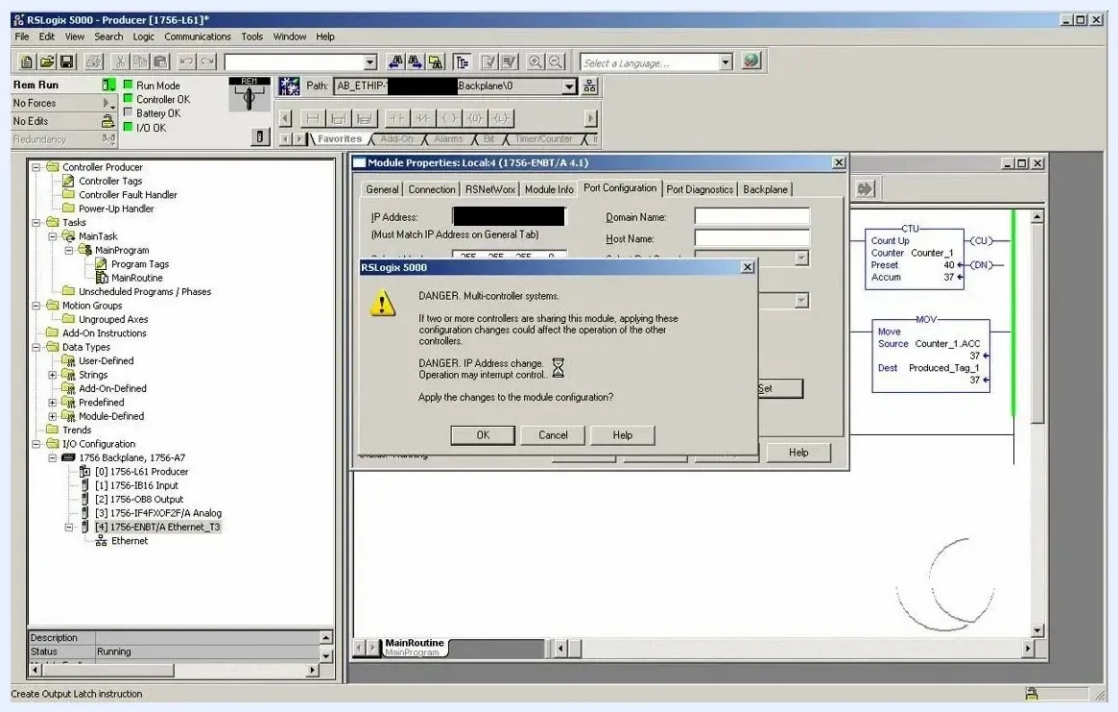
Click **OK** to proceed.



RSLogix 5000 warning dialog: DANGER. Multi-controller systems. DANGER. IP Address change. Apply the changes to the module configuration?

12. Wait for the address change to complete

The software attempts to apply the new IP address. Expect a delay while the module updates and the connection is lost because of the address change. The warning dialog may stay visible for several seconds.



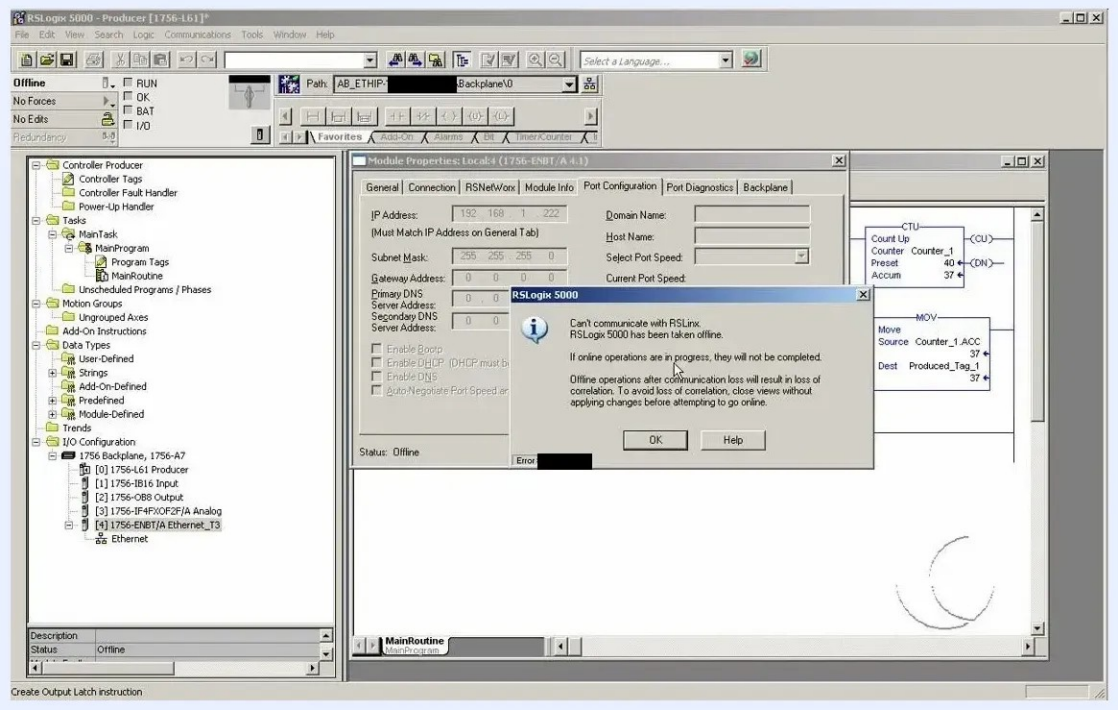
RSLogix 5000 warning dialog still visible while the address change is processed

13. Acknowledge the loss of communication

After the address change, RSLogix 5000 displays a message that it can no longer communicate with RSLinx and has been taken offline. The message reads:

- "Can't communicate with RSLinx. RSLogix 5000 has been taken offline."
- "If online operations are in progress, they will not be completed."
- "Offline operations after communication loss will result in loss of correlation. To avoid loss of correlation, close views without applying changes before attempting to go online."

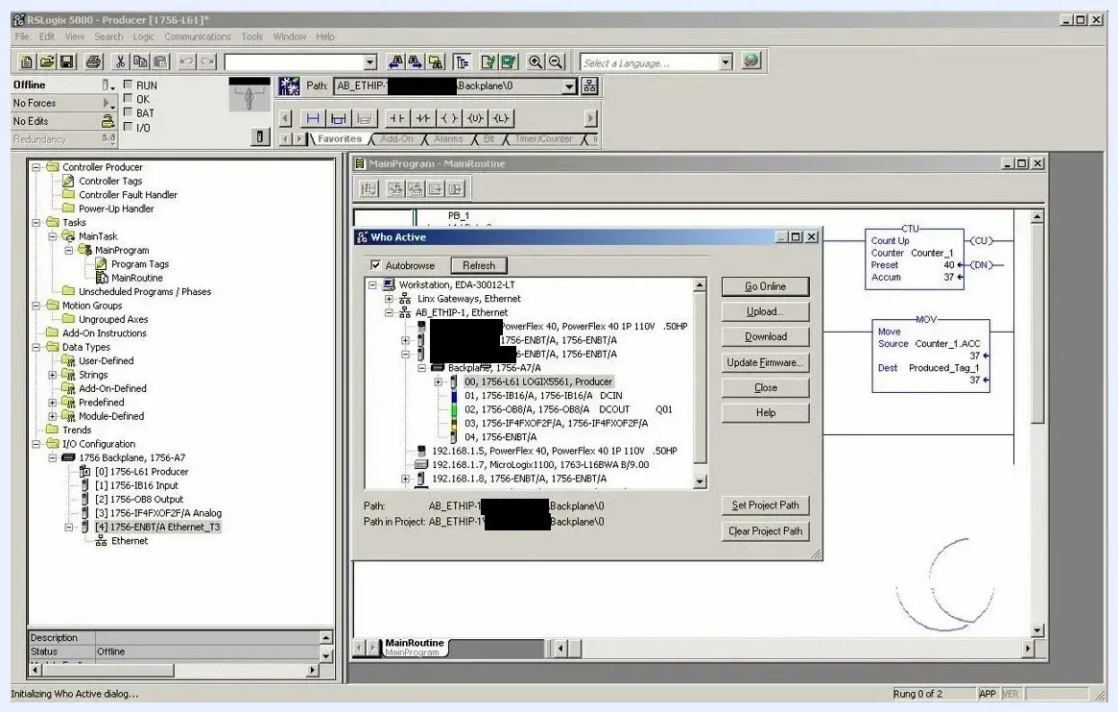
Click **OK** to close the message.



RSLogix 5000 dialog: Can't communicate with RSLinx. RSLogix 5000 has been taken offline.

14. Confirm the project is offline

The status bar and module properties now indicate "Offline". The IP address fields in the **Port Configuration** tab are grayed out and not editable. Click **OK** to close the Module Properties window.



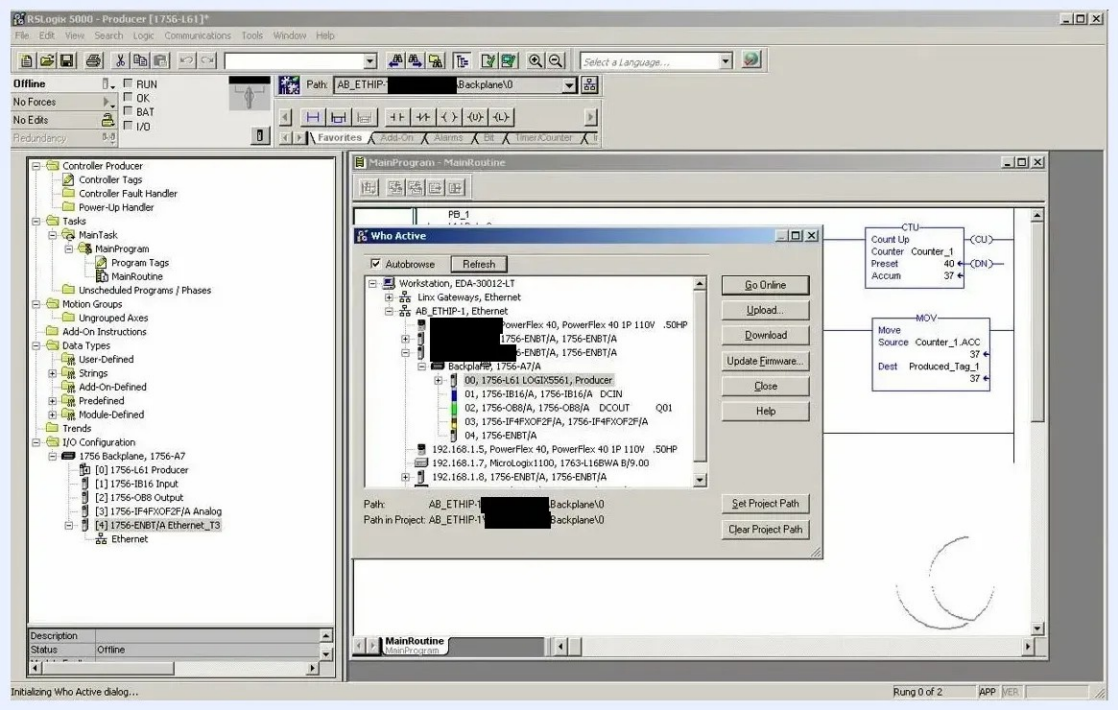
Module Properties window showing status Offline, IP address fields grayed out, and the OK button being clicked

Update the communication path

15. Open RSWho

The main RSLogix 5000 window shows the project as offline. The current communication path (for example, AB_ETHIP-1\192.168.1.211\Backplane\0) still points to the old IP address, which is no longer valid.

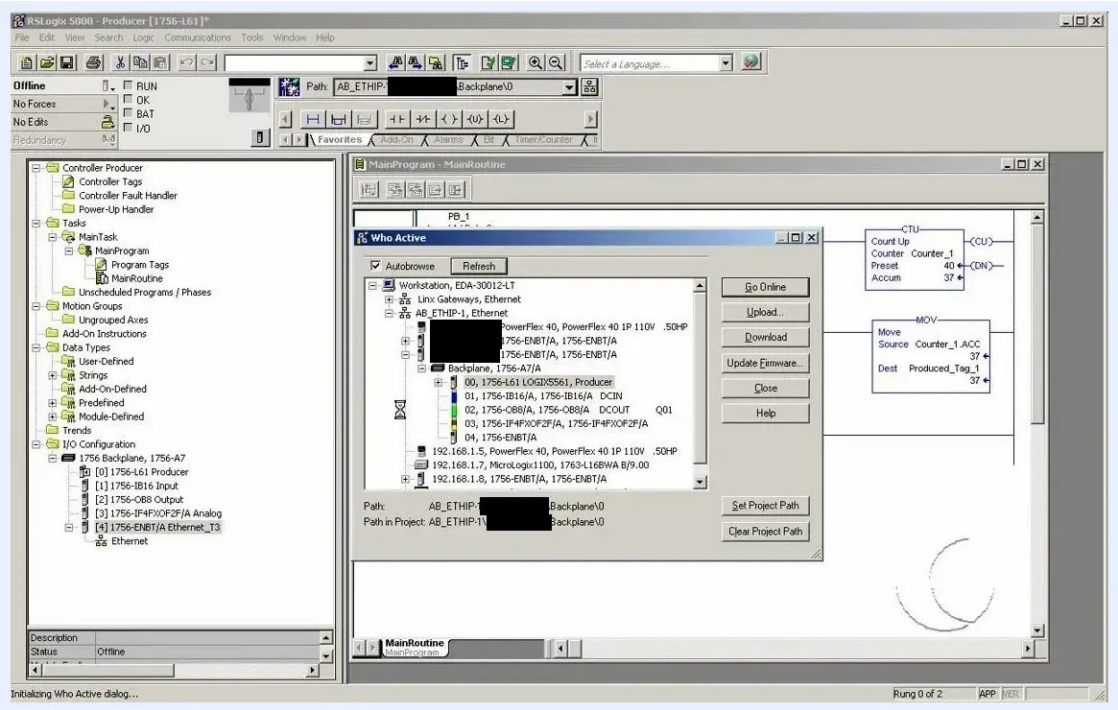
Open the "Who Active" (RSWho) dialog to browse the available network connections. The dialog still displays the old connection (192.168.1.211), which is now invalid. You need to select the new IP address (192.168.1.222) to re-establish communication with the module.



RSWho Active dialog open, showing the old connection at 192.168.1.211 still present

16. Wait for the hourglass to disappear

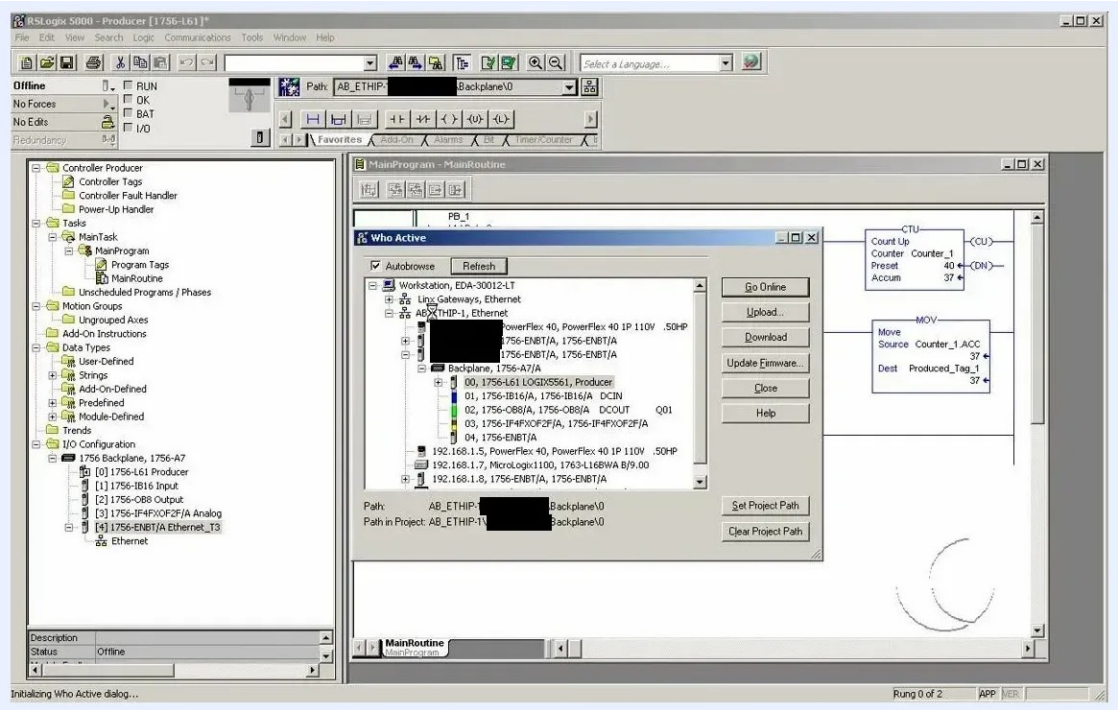
After you start a network browse or connection, an hourglass icon appears on the RSLogix 5000 interface. It indicates that the software is processing and may remain visible for a while. Do not take further actions until the hourglass disappears.



Who Active dialog with an hourglass cursor in the lower right and the status bar reading "Initializing Who Active dialog..."

17. Browse through the AB_ETHIP driver

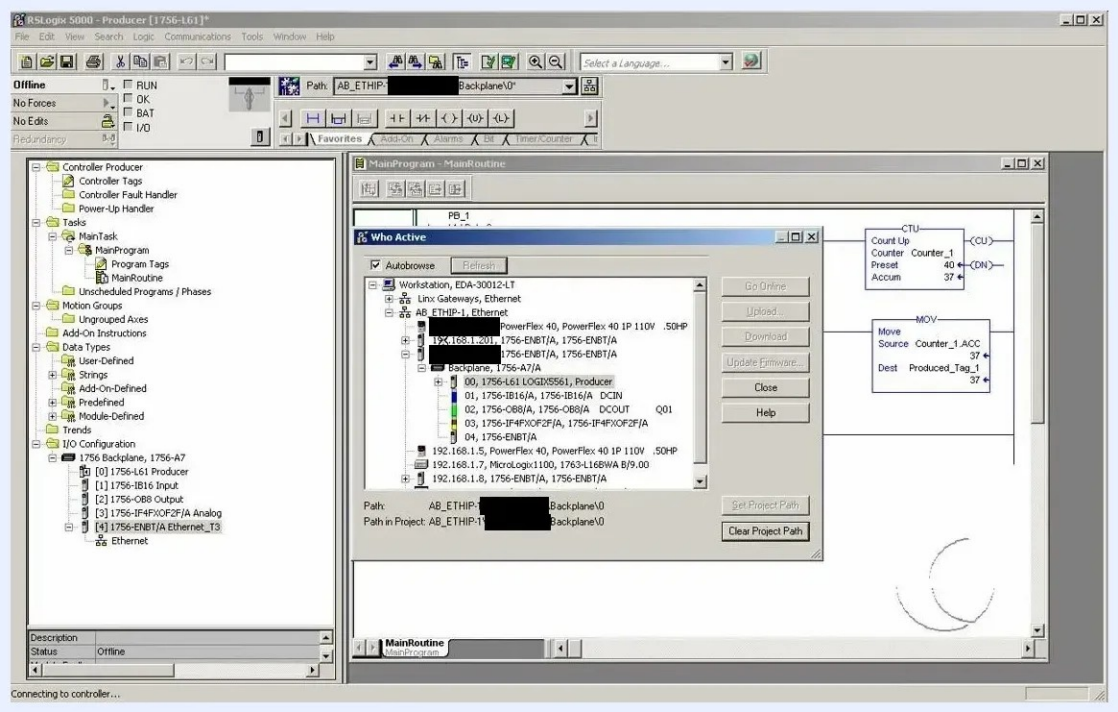
When the hourglass disappears, the device tree in the "Who Active" dialog becomes interactive. Browse through the AB_ETHIP-1, Ethernet driver to find the processor you just configured. Expand the network tree to view all connected controllers and devices.



Who Active dialog now interactive, listing controllers and devices under the AB_ETHIP-1, Ethernet driver

18. Confirm all controllers appear

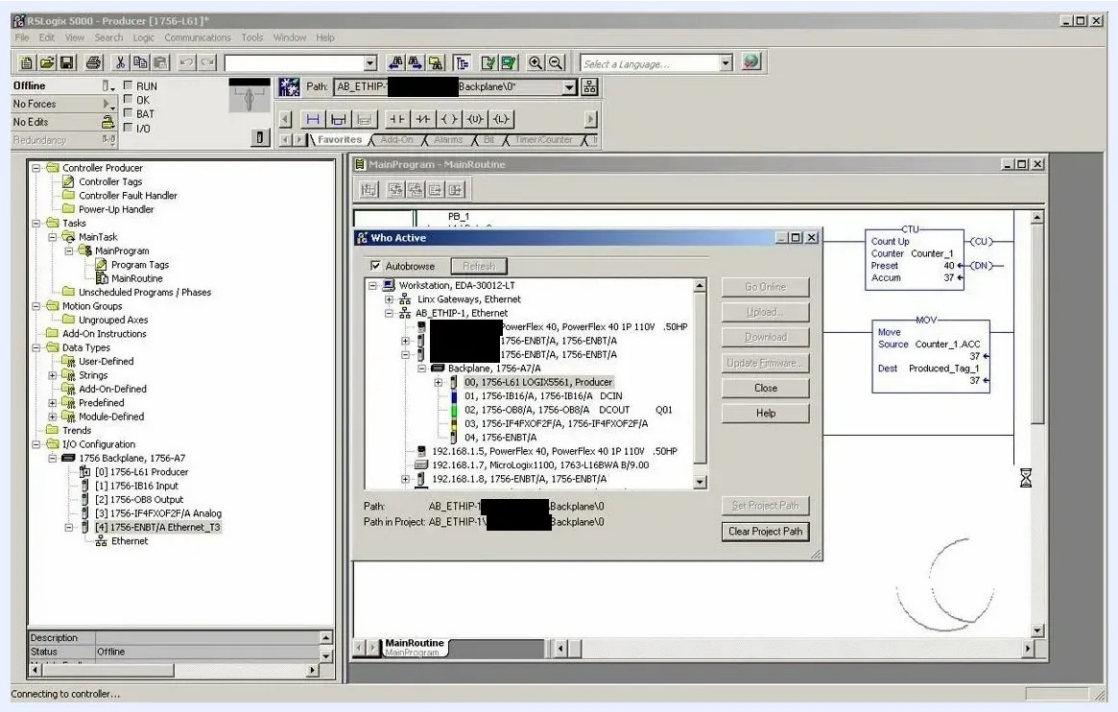
Check that all expected controllers, including the newly configured one, appear in the device list. The network tree should display all detected devices and their IP addresses.



Who Active dialog showing the full list of controllers and devices

19. Clear the project path if needed

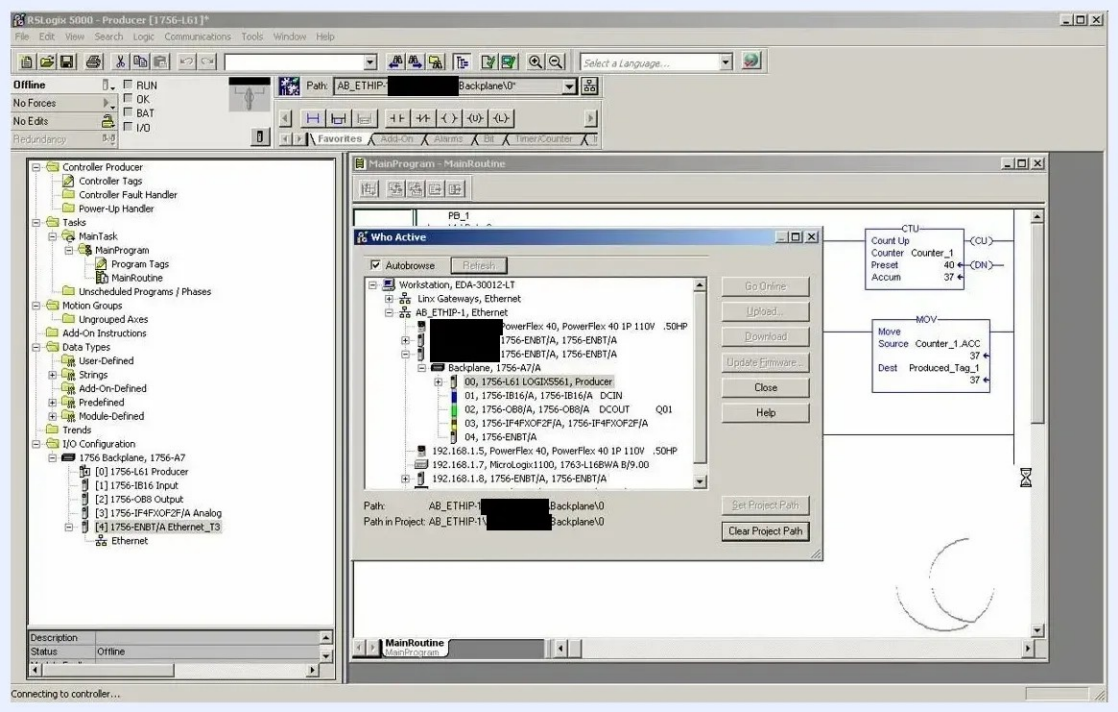
If you need to reset the browsing context, click **Clear Project Path** in the "Who Active" dialog. This clears the current selection and lets you start a new browse session. Wait for the status to update, confirming the path is cleared.



Who Active dialog showing the Clear Project Path button and the device list, with the status bar reading "Connecting to controller..."

20. Collapse the network tree

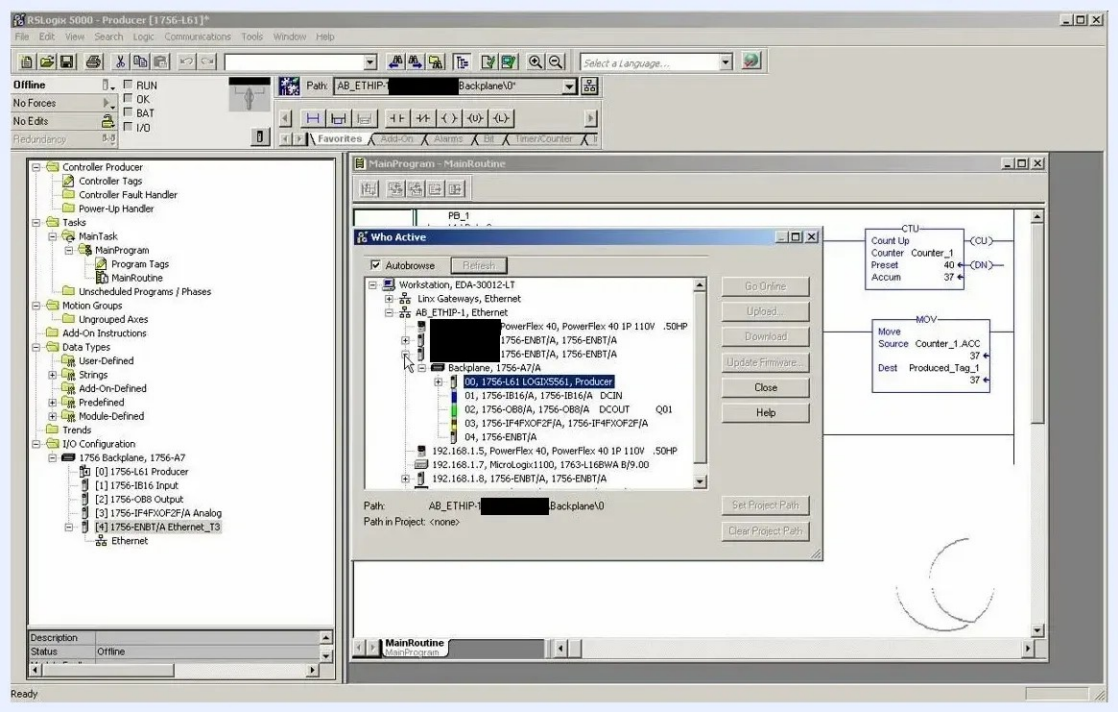
To tidy the view or disconnect from a device, click the minus sign (-) next to the AB_ETHIP-1, Ethernet driver. This collapses the network tree and hides the list of connected devices.



Who Active dialog showing the collapsed network tree after clicking the minus sign

21. Wait for automatic device discovery

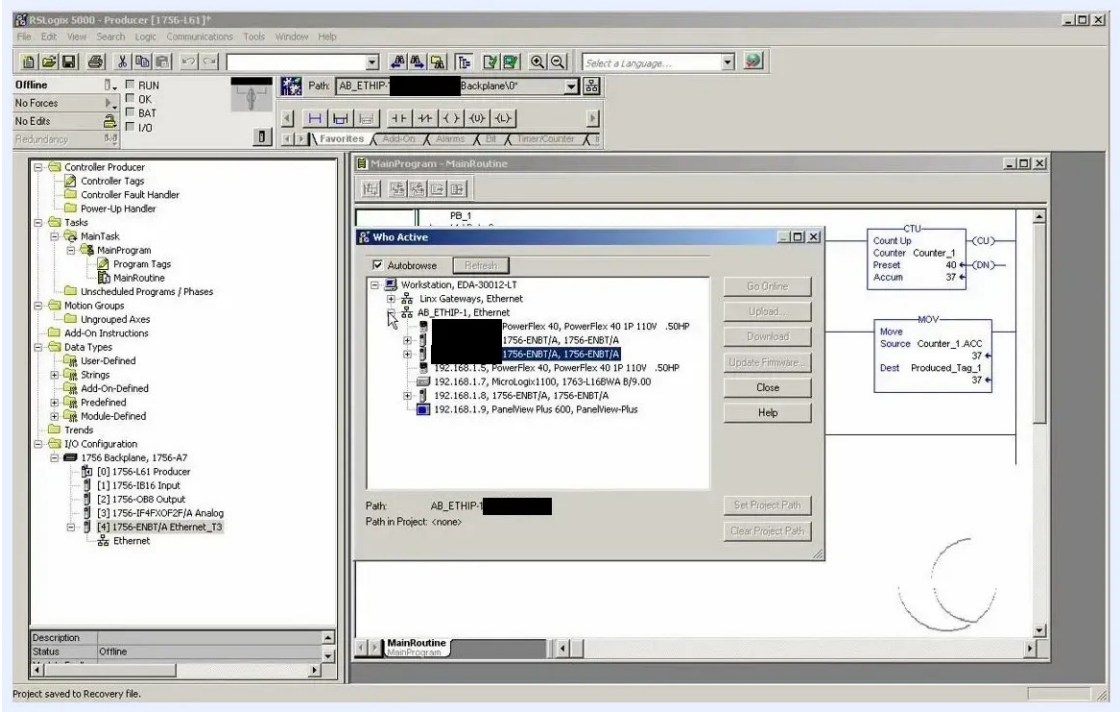
Allow the software to rediscover devices on the network automatically. This can take up to a minute, depending on network size and traffic. The device list repopulates when discovery is complete.



Who Active dialog showing the collapsed device tree and a status bar indicating the connection is still in progress

22. Expand the network tree to verify browsing

Click the plus sign (+) next to the AB_ETHIP-1, Ethernet driver to expand the network tree again. Confirm that all controllers and devices are visible and correctly listed.



Who Active dialog showing the expanded network tree with all controllers and devices under the AB_ETHIP-1, Ethernet driver

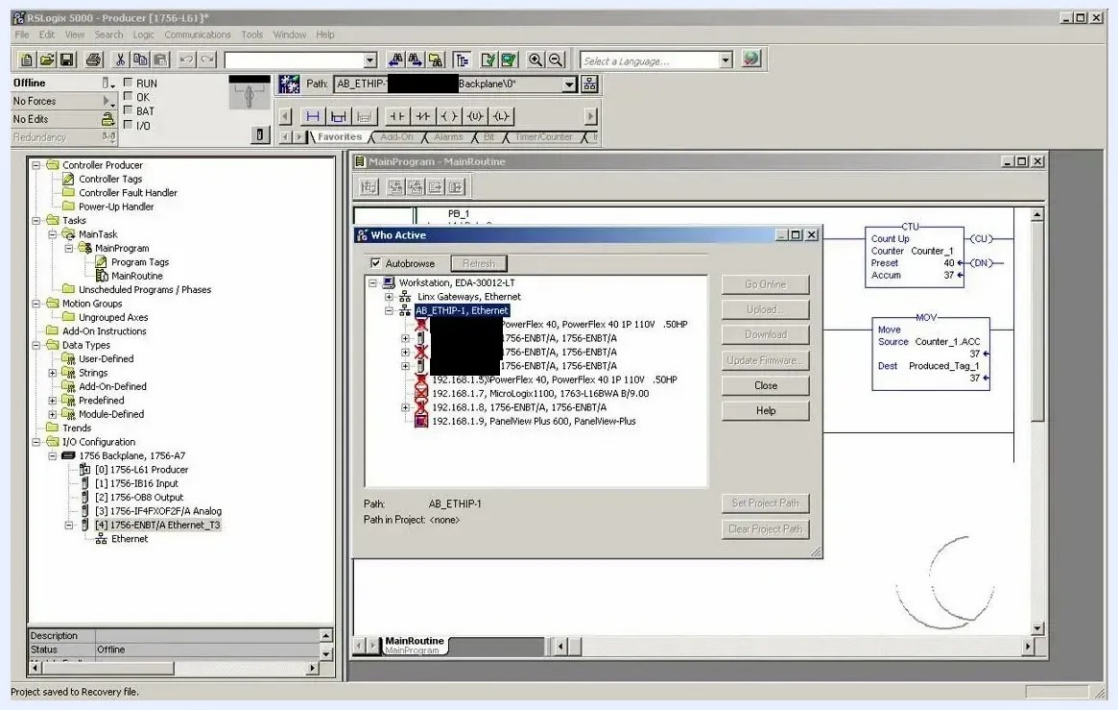
Reconnect at the new IP address

23. Identify disconnected devices

In the "Who Active" dialog, devices that are no longer accessible, whether from disconnection or network issues, show a red X next to their IP addresses and device names. This helps you quickly see which devices are unreachable. In the example, these devices show red Xs:

- 192.168.1.200, PowerFlex 40, PowerFlex 40 IP 110V .50HP
- 192.168.1.201, 1756-ENBT/A, 1756-ENBT/A
- 192.168.1.211, 1756-ENBT/A, 1756-ENBT/A
- 192.168.1.222, 1756-ENBT/A, 1756-ENBT/A
- 192.168.1.195, PowerFlex 40, PowerFlex 40 IP 110V .50HP
- 192.168.1.7, MicroLogix1100, 1763-L16BWA B/9.00

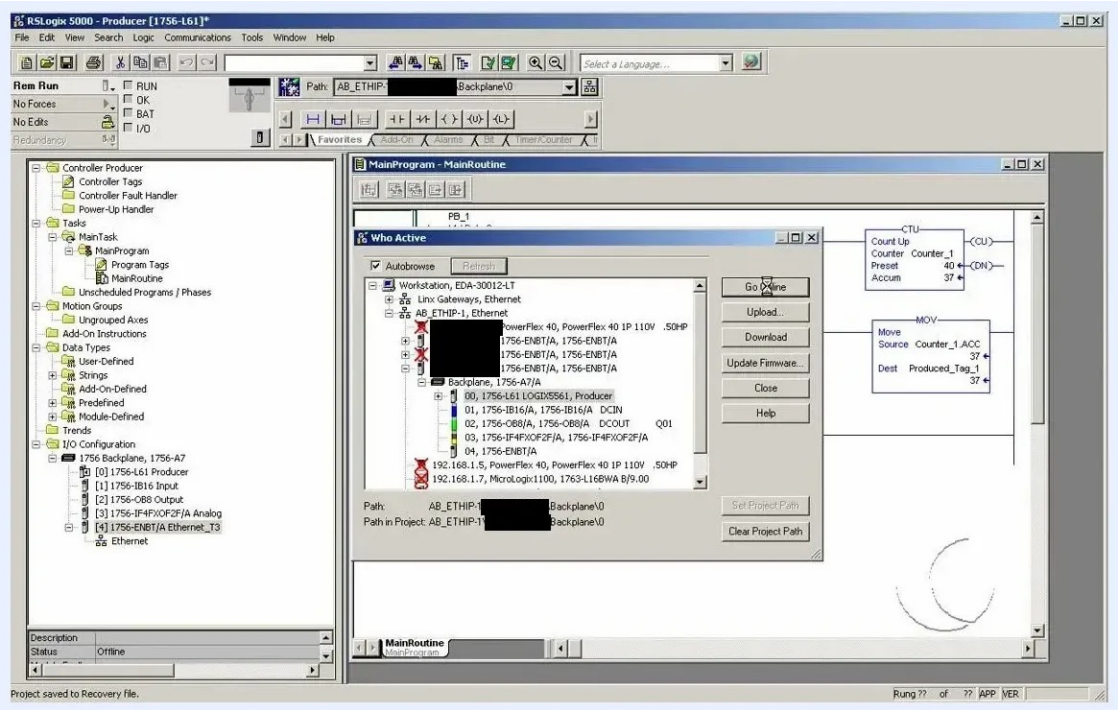
- 192.168.1.9, PanelView Plus 600, PanelView-Plus



Who Active dialog showing several devices with red X icons, indicating they are no longer accessible, with the device tree expanded under AB_ETHIP-1, Ethernet

24. Select the processor at the new IP address

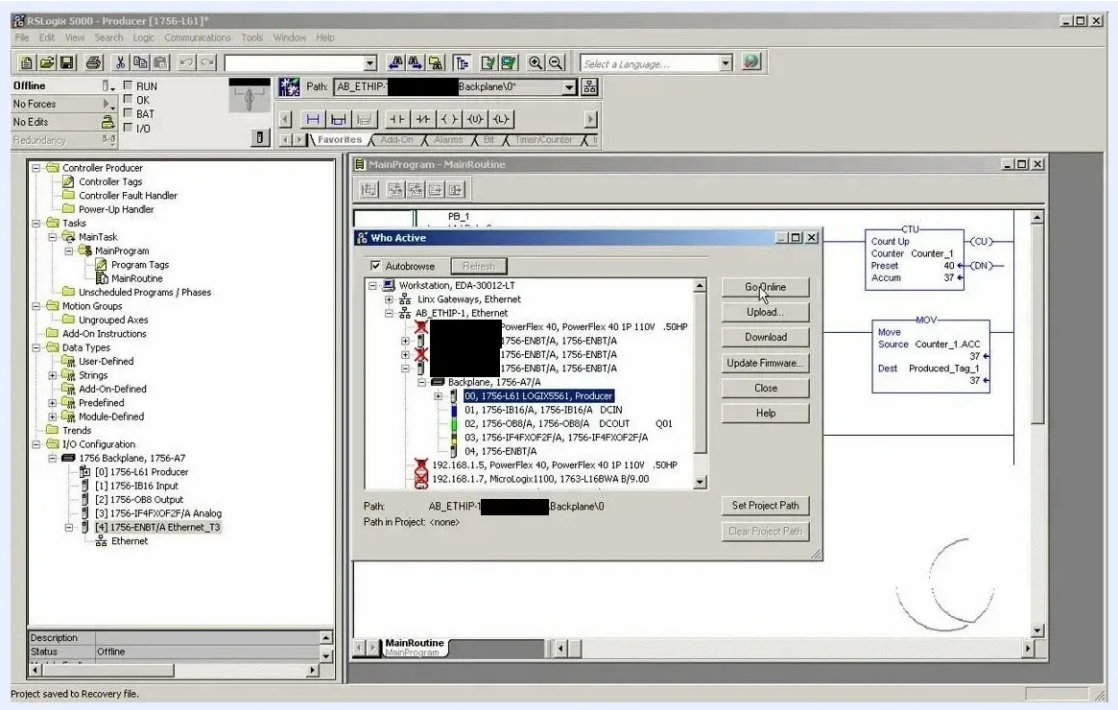
Locate a processor that is available for connection and not marked with a red X. Click the plus sign (+) next to the processor's IP address to expand its backplane. In this example, you select and expand 192.168.1.222, 1756-ENBT/A, 1756-ENBT/A.



Who Active dialog with the processor at 192.168.1.222 selected and its backplane expanded, showing the available modules

25. Go online with the selected processor

After you expand the backplane, select the controller module (for example, 1756-L61 LOGIX5561, Producer). Click **Go Online** on the right side of the "Who Active" dialog. This starts an online connection with the selected controller.



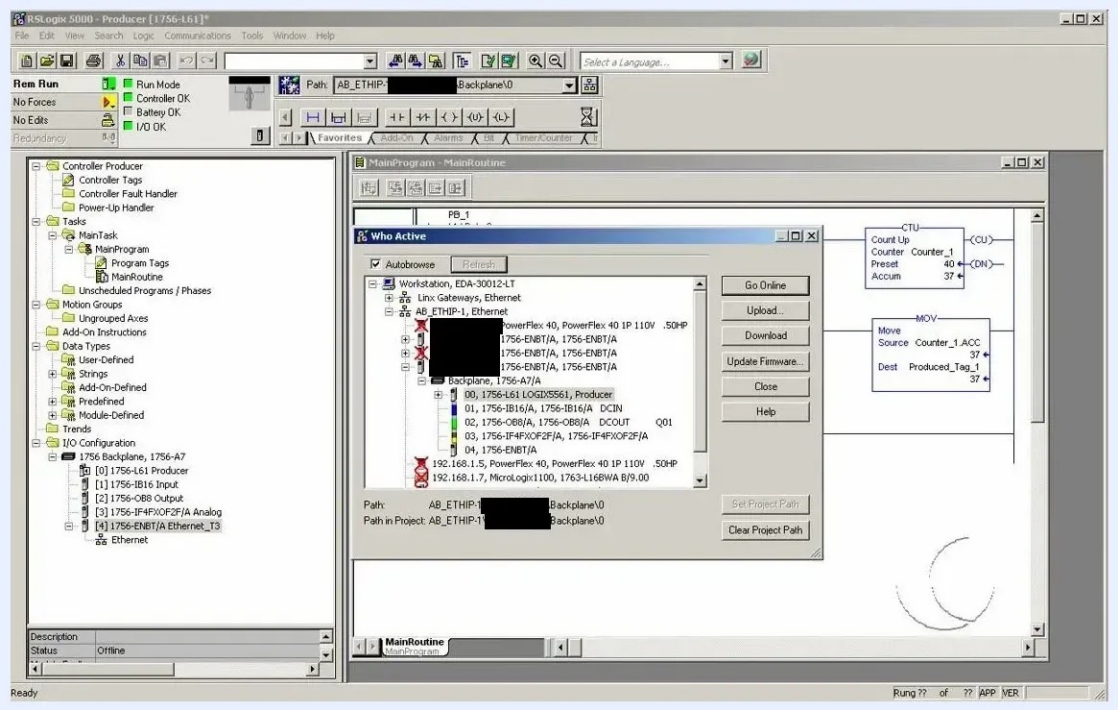
Who Active dialog with the controller module selected and the Go Online button highlighted, with the backplane and modules visible

26. Verify the project path and online status

Once connected, the project path at the top of the RSLogix 5000 window updates to reflect the new connection (for example, AB_ETHIP-1\192.168.1.222\Backplane\0). Confirm the following:

- The status indicators (Run Mode, Controller OK, Battery OK, I/O OK) are green, which indicates a healthy online connection.

- The "Who Active" dialog shows the connected controller and modules without red Xs.



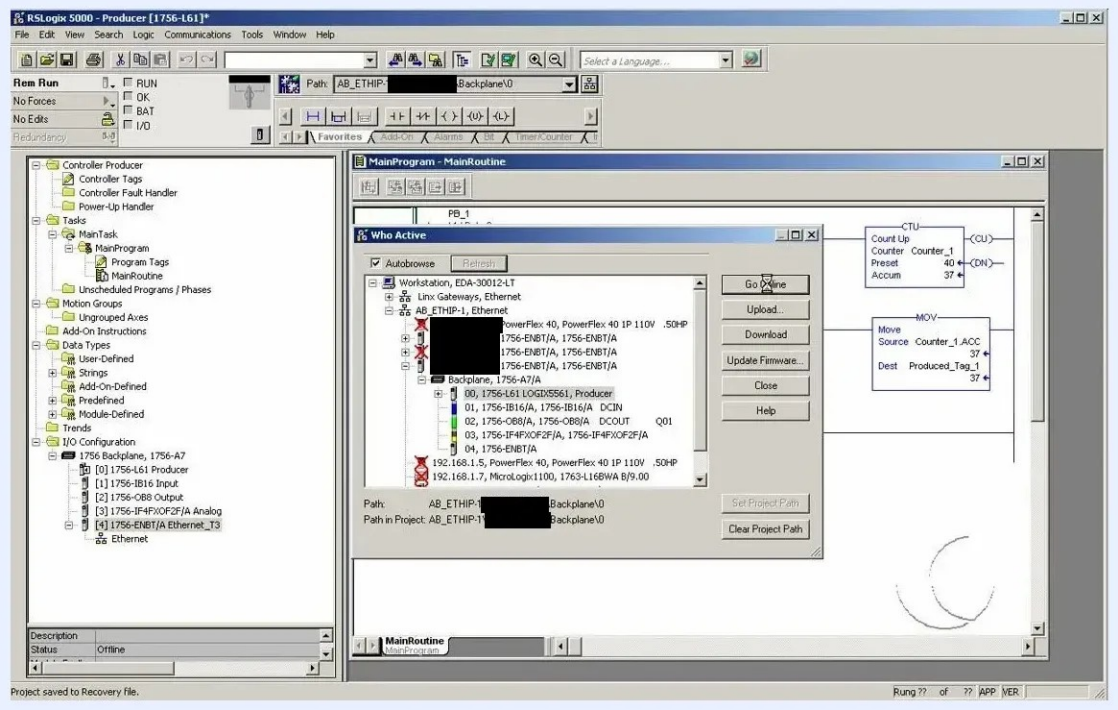
RSLogix 5000 showing the updated project path, green status indicators, and the Who Active dialog confirming online status

27. Review the module properties (optional)

To view or edit the properties of a specific module, such as the Ethernet module, open the "Module Properties" dialog. You can review details such as:

- Type: 1756-ENBT/A 1756 10/100 Mbps Ethernet Bridge, Twisted-Pair Media
- Name: Ethernet_T3
- Slot: 4
- Revision: 4.1
- Electronic Keying: Compatible Keying
- Status: Running

Make any changes you need, then click **OK** to save.



Module Properties dialog for the Ethernet module, showing the configuration fields and a status of Running

Summary

You now know how to change the IP address in Studio 5000. You edit the address in the **General** tab while offline, download the change, and set the live address in the **Port Configuration** tab. Then you select the new address in RSWho to reconnect. Allow enough time for network discovery, and use the collapse and expand controls to manage your view of the network devices.

What's next

- Confirm that the status indicators are green and the project path shows the new IP address.
- Review the module properties to confirm the module status is Running.