



A BELDEN BRAND

Technical Note

NV8500 Control Port 2 Settings

Overview

MRC and NV8500 firmware, in combination, now allow the NV8500 routers' second control port (CTRL 2) to obey third-party protocols.

Version 3.0.2.205 of MRC is required. Firmware version 3.3.0 is required. This is available in the firmware file NV8500_HYB_FW_3.3.0.2485.RF, which is now available.

Install the Software and Firmware

When you receive these files, install the new version of MRC and update the firmware in your router. Follow the instructions in the upgrade procedure precisely.

Usage

The use of CTRL 2 is constrained: CTRL 2 must use either (1) the same protocol as CTRL 1 or (2) NVI-SION Serial Protocol. (If CTRL 1 uses Probel, for example, then CTRL 2 can be either Probel or NV Serial.)

To set up the protocols, go to the 'Miscellaneous' page of MRC.

The screenshot shows the 'Miscellaneous Settings' page in the MRC interface. It is divided into several sections:

- Router Serial Settings:**
 - Control 1 and 2 Baud Rate Setting: Baud Rate: 38400
 - Control 1 Settings: Protocol: NV SERIAL, Control 1 (Main) Port: enabled, Reply When: active only
 - Control 2 Settings: Protocol: NV SERIAL, Control 2 (Aux) Port: disabled, Reply When: active only
 - Rear Diagnostic Port Settings: Port Type: RS232, Baud Rate: 38400
- Control Card Settings:**
 - Expansion Settings:
 - Stand Alone
 - Expanded - Main
 - Expanded - Expansion
 - Local Physical:

	Start	End
Inputs:	NA	NA
Outputs:	NA	NA
 - Control Card Bus Type:
 - Internal
 - 10BASE2 Index:

Below the settings is the 'Network Frame Summary' section, which includes a table of control cards and network levels.

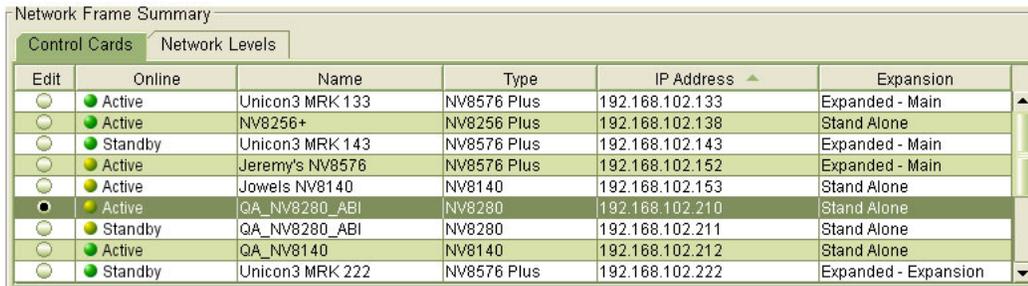
Control Cards		Network Levels			
Edit	Online	Name	Type	IP Address	Expansion
<input type="radio"/>	● Active	Unicon3 MRK 133	NV8576 Plus	192.168.102.133	Expanded - Main
<input type="radio"/>	● Active	NV8256+	NV8256 Plus	192.168.102.138	Stand Alone
<input type="radio"/>	● Standby	Unicon3 MRK 143	NV8576 Plus	192.168.102.143	Expanded - Main
<input type="radio"/>	● Active	Jeremy's NV8576	NV8576 Plus	192.168.102.152	Expanded - Main
<input type="radio"/>	● Active	Jowels NV8140	NV8140	192.168.102.153	Stand Alone
<input checked="" type="radio"/>	● Active	QA_NV8280_ABI	NV8280	192.168.102.210	Stand Alone
<input type="radio"/>	● Standby	QA_NV8280_ABI	NV8280	192.168.102.211	Stand Alone
<input type="radio"/>	● Active	QA_NV8140	NV8140	192.168.102.212	Stand Alone
<input type="radio"/>	● Standby	Unicon3 MRK 222	NV8576 Plus	192.168.102.222	Expanded - Expansion

At the bottom of the Network Frame Summary section, there are two buttons: 'Refresh Summary' and 'Update Control Card'.

NV8500 Control Port 2 Settings

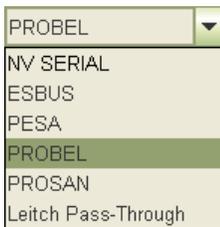
Then, follow these steps:

- 1 Choose a control card of the router with which you are working:

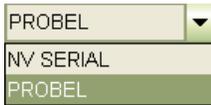


Edit	Online	Name	Type	IP Address	Expansion
<input type="radio"/>	Active	Unicon3 MRK 133	NV8576 Plus	192.168.102.133	Expanded - Main
<input type="radio"/>	Active	NV8256+	NV8256 Plus	192.168.102.138	Stand Alone
<input type="radio"/>	Standby	Unicon3 MRK 143	NV8576 Plus	192.168.102.143	Expanded - Main
<input type="radio"/>	Active	Jeremy's NV8576	NV8576 Plus	192.168.102.152	Expanded - Main
<input type="radio"/>	Active	Jowels NV8140	NV8140	192.168.102.153	Stand Alone
<input checked="" type="radio"/>	Active	QA_NV8280_ABI	NV8280	192.168.102.210	Stand Alone
<input type="radio"/>	Standby	QA_NV8280_ABI	NV8280	192.168.102.211	Stand Alone
<input type="radio"/>	Active	QA_NV8140	NV8140	192.168.102.212	Stand Alone
<input type="radio"/>	Standby	Unicon3 MRK 222	NV8576 Plus	192.168.102.222	Expanded - Expansion

- 2 Choose the protocol you want for CTRL 1:



- 3 Choose the protocol you want for CTRL 2:



In this example, Probel was chosen as the protocol for CTRL 1. Therefore Probel and NV Serial are the only choices for CTRL 2.

- 4 Click 'Update Control Card' at the bottom of the 'Miscellaneous' page:



- 5 If the router frame has two control cards, copy the settings from the control card you just updated to the other control card.

Go to the 'Copy Settings' page of MRC. Select the control card you just updated in the 'From Device' table at the top of the page. Select the other control card in the 'Copy To' table at the bottom of the page. Then click the 'Copy Settings' button at the bottom of the page:



Repeat steps 1–5 for the other router frame if your router is an expanded NV8576-Plus.

//