

PortVision DX 4.xx Change Notification

Overview

PortVision DX underwent changes ([History](#)) with the release of PortVision DX 4.x that may affect DeviceMasters running (older) firmware **PRIOR** to:

- **Bootloader v4.00**
- **SocketServer v10.00**
- **EtherNet/IP, Modbus Router, Modbus Server, or Modbus/TCP 6.00**

DeviceMasters with older firmware cannot be discovered in PortVision DX v4.00 and higher. Newer firmware versions are still compatible with PortVision DX v3.05.

Please refer to one of the following discussions for procedures to work around this issue.

- [New Installation – What is My Firmware Version – What Should I Do?](#)
- [Existing PortVision DX 4.xx Installation – Adding an Unknown DeviceMaster](#)
- [Upgraded to PortVision DX 4.xx - Existing System - Cannot Locate DeviceMasters - Known IP Addresses](#)

New Installation – What is My Firmware Version – What Should I Do?

You can use this information to get started. This procedure assumes that the DeviceMaster is powered on and connected to the network.

1. Install **PortVision DX 3.05**.
2. Scan the network (**Scan** button in the tool bar).

In the following example, PortVision DX 3.05 located 15 DeviceMasters. The RTS-2P contains old firmware that needs to be upgraded.

If your application requires a SocketServer† version before 10.00, do **NOT** load PortVision DX 4.00 or higher.

Control Technical Support advises to always update your firmware version to the latest release.

Device Name	Model	IP Address	MAC Address	Software Version	Status
Device 1C:FF:FD	SH-8P (DB9)	10.0.0.14	00:C0:4E:1C:FF:FD	NS-Link 10.06	ON-LINE
Device 17:FF:FB	PRO-8P (DB9)	10.0.0.20	00:C0:4E:17:FF:FB	NS-Link 10.06	ON-LINE
Device 07:FF:FC	RTS-4P (DB9)	10.0.0.23	00:C0:4E:07:FF:FC	NS-Link 10.06	ON-LINE
Device 42:FF:F8	RTS-1P (S-30V)	10.0.0.40	00:C0:4E:42:FF:F8	SocketServer 10.00	ON-LINE
Device 15:04:7A	UP-1P (5V)	10.0.0.53	00:C0:4E:15:04:7A	PNIO 2.25	ON-LINE
Device 07:43:84	UP-4P (DB9)	10.0.0.54	00:C0:4E:07:43:84	Modbus Server 4.04	ON-LINE
Device 21:05:CD	UP-1P (S-30V)	10.0.0.55	00:C0:4E:21:05:CD	Modbus Router 5.00	ON-LINE
Device 40:00:5D	UP-16P (2E)	10.0.0.60	00:C0:4E:40:00:5D	Modbus Router 5.00	ON-LINE
Device 29:FF:F5	RTS-2P (2E)	192.168.230.230	00:C0:4E:29:FF:F5	SocketServer 8.04	ON-LINE
Device 2B:00:87	UP-2P (DB9/2E)	192.168.4.11	00:C0:4E:2B:00:87	Modbus/TCP 5.07	ON-LINE
Device 2A:05:E8	UP-2P (DB9/1E)	192.168.4.13	00:C0:4E:2A:05:E8	EtherNet/IP 6.03	ON-LINE
Device 21:EE:02	UP-1P (S-30V)	192.168.4.4	00:C0:4E:21:EE:02	EtherNet/IP 4.11	ON-LINE
Device 17:FF:FD	PRO-8P (DB9)	192.168.4.5	00:C0:4E:17:FF:FD	NS-Link 8.00	ON-LINE
Device 14:05:4B	RTS-16P (1E)	192.168.4.8	00:C0:4E:14:05:4B	Modbus Server 4.04	ON-LINE
Device 29:02:3C	UP-2P (2E)	192.168.4.9	00:C0:4E:29:02:3C	Modbus Router 5.07	ON-LINE

3. Program the DeviceMaster IP address for each new DeviceMaster.

† **If this is a DeviceMaster UP and the firmware version is prior to v6.00, do not load PortVision DX 4.xx until you have uploaded the latest Bootloader and protocol firmware versions.**

PortVision DX 4.xx Change Notification

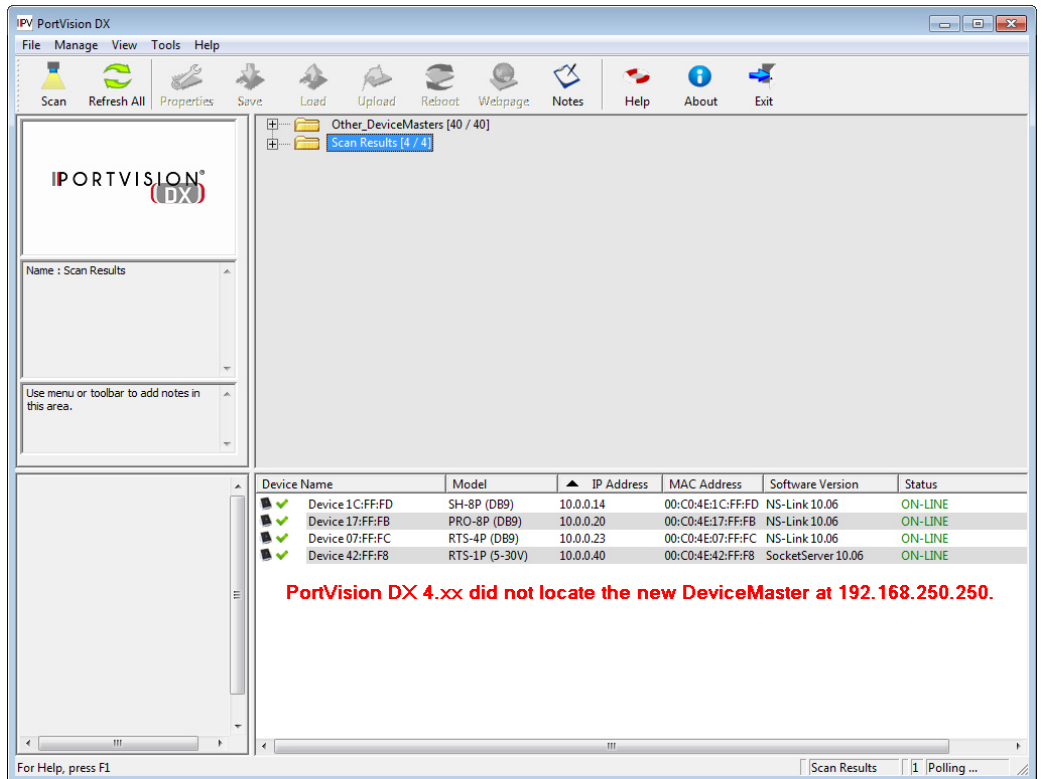
- Upgrade the appropriate application firmware (SocketServer, EtherNet/IP or Modbus) and the Bootloader to the latest version.
 - DeviceMaster LT, PRO, RTS, or Serial Hub:**
http://downloads.comtrol.com/html/DM_PRO_RTS_SERIALHUB_firmware.htm
 - DeviceMaster UP:** http://downloads.comtrol.com/html/DM_UP_Main.htm
- Optionally, install the [latest PortVision DX](#) version.

Existing PortVision DX 4.xx Installation – Adding an Unknown DeviceMaster

Use this procedure if you currently have PortVision DX 4.xx installed on your system and you are adding a new DeviceMaster with unknown firmware versions.

The default IP address for a DeviceMaster is 192.168.250.250.

- After installing the DeviceMaster on your network, click the **Scan** button.
- At this point, you have two choices:
 - Change the IP address on your PC/laptop to 192.168.250.xxx. Scan and locate the DeviceMaster, configure the IP address, and then return your system to the prior IP address.
 - Remove PortVision DX v4.xx using **Control Panel | Programs | Programs and Features**, install PortVision DX 3.05, and then use the procedure discussed in [New Installation – What is My Firmware Version – What Should I Do?](#)



PortVision DX 4.xx Change Notification

Upgraded to PortVision DX 4.xx - Existing System - Cannot Locate DeviceMasters - Known IP Addresses

Use this procedure to add DeviceMasters with old firmware to PortVision DX 4.xx.

This procedure starts after you have scanned the network, noticed that you are missing DeviceMasters and some of the existing DeviceMasters display as OFF-LINE. You must know the IP addresses of the DeviceMasters or have a saved session with the DeviceMasters.

The first few steps show how to add a DeviceMaster as a new device using the IP address.

1. Right-click in the *Device Tree* pane (upper) and click **Add New... | Device**.
2. Select the **Device Type** and **Device Model**.
3. Enter a user-friendly **Device Name**, the **IP address**, and click **Ok**

The 'Add New Device' dialog box contains the following fields:

- General Settings:**
 - Device Type: DeviceMaster PRO
 - Device Model: DeviceMaster PRO 8-Port (DB9)
 - Device Name: Mac's PRO
- Network Settings:**
 - Detection Type: REMOTE
 - IP Address: 192.168.4.5
 - Identification Mode: IP
 - Subnet Mask: . . .
 - Serial Number: . . .
 - Default Gateway: . . .
 - MAC Address: 00:C0:4E:

The DeviceMaster PRO is now displayed in PortVision DX.

The DeviceMaster PRO has been added as a remote device and PortVision DX 4.xx can now locate and monitor the device.

Device Name	Model	IP Address	MAC Address	Software Version	Status
Device 1C:FF:FD	SH-8P (DB9)	10.0.0.14	00:C0:4E:1C:FF:FD	NS-Link 10.06	ON-LINE
Device 17:FF:FB	PRO-8P (DB9)	10.0.0.20	00:C0:4E:17:FF:FB	NS-Link 10.06	ON-LINE
Device 07:FF:FC	RTS-4P (DB9)	10.0.0.23	00:C0:4E:07:FF:FC	NS-Link 10.06	ON-LINE
Device 42:FF:FB	RTS-1P (5-30V)	10.0.0.40	00:C0:4E:42:FF:FB	SocketServer 10.06	ON-LINE
Device 29:FF:F5	RTS-2P (2E)	10.0.0.52	00:C0:4E:29:FF:F5	SocketServer 8.04	OFF-LINE
Device 15:04:7A	UP-1P (5V)	10.0.0.53	00:C0:4E:15:04:7A	PNO2 2.25	OFF-LINE
Device 07:43:84	UP-4P (DB9)	10.0.0.54	00:C0:4E:07:43:84	Modbus Server 4.04	OFF-LINE
Device 21:05:CD	UP-1P (5-30V)	10.0.0.55	00:C0:4E:21:05:CD	Modbus Router 6.06	OFF-LINE
Device 40:00:5D	UP-16P (2E)	10.0.0.60	00:C0:4E:40:00:5D	Modbus Router 6.06	OFF-LINE
Mac's PRO	PRO-8P (DB9)	192.168.4.5	00:C0:4E:17:FF:FB	NS-Link 8.00	ON-LINE (Remote)

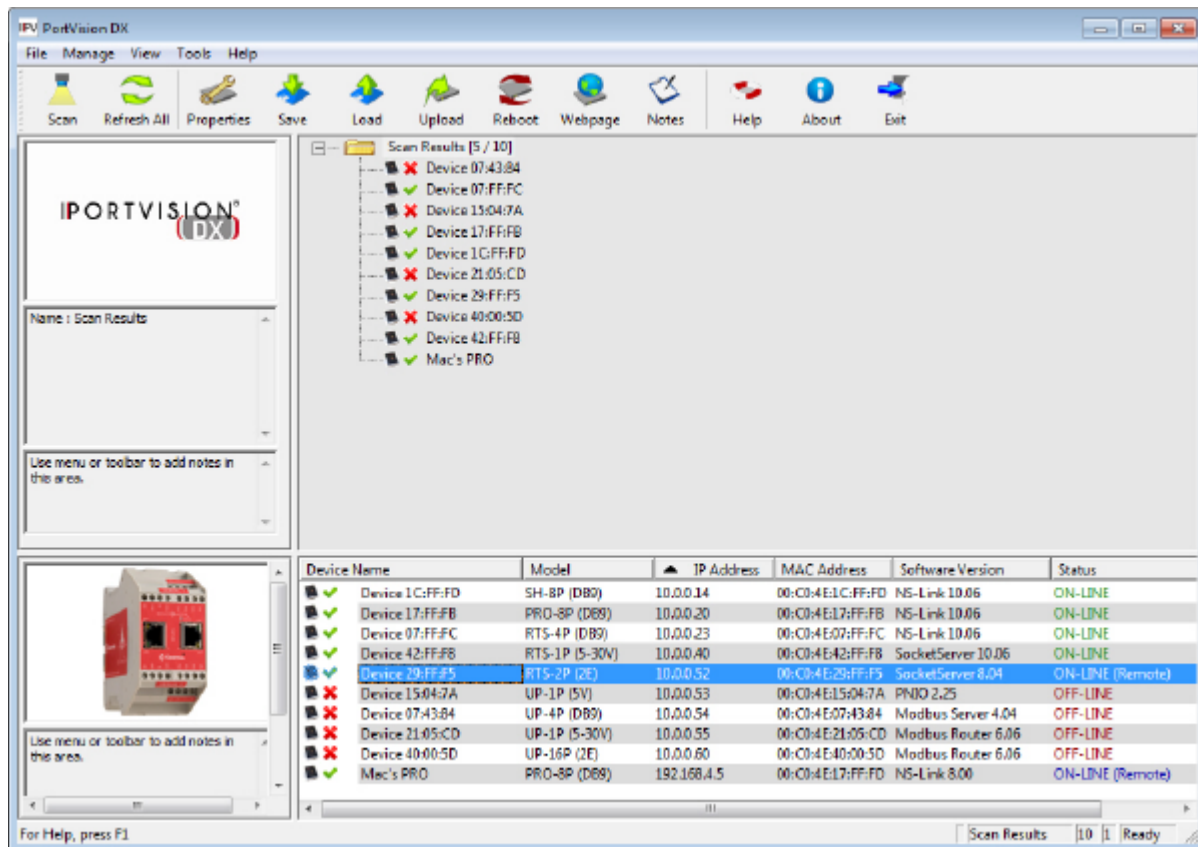
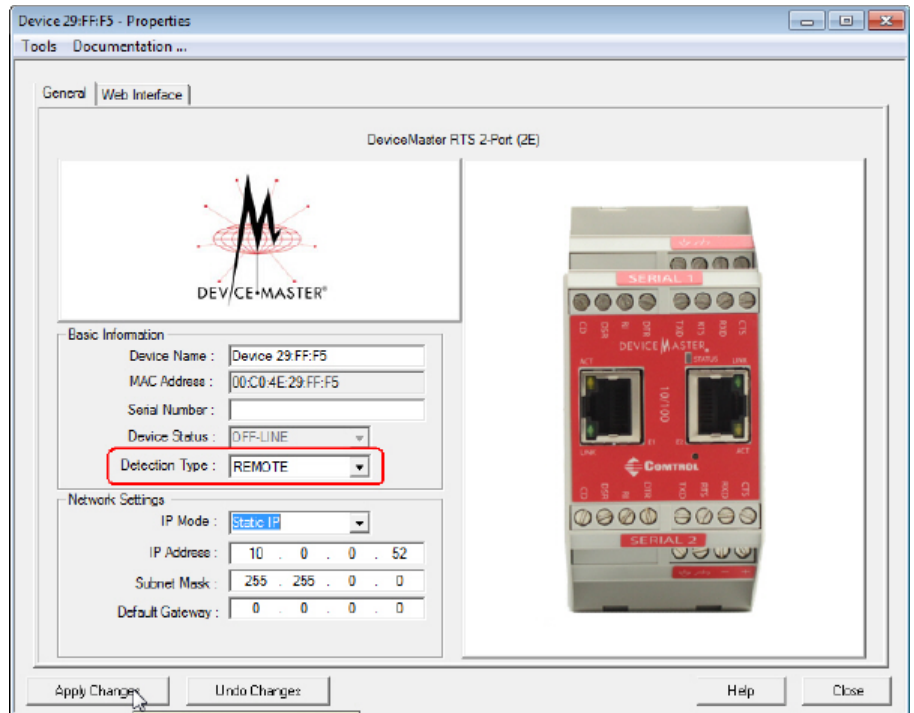
PortVision DX 4.xx Change Notification

Use this procedure to have PortVision DX display devices as ON-LINE (as long as the devices are actually on-line)

1. Double-click an OFF-LINE DeviceMaster.
2. Change the *Detection Type* to **REMOTE**.
3. Click **Apply Changes**.
4. Click **Close**

Notice that the RTS-2P(2E) is displays ON-LINE in Remote mode.

5. Repeat for each DeviceMaster that you want to display.



PortVision DX 4.xx Change Notification

History

PortVision DX version 4.x no longer supports MAC mode (OSI Layer 2) discovery of DeviceMasters, which impacts the firmware versions used in the DeviceMaster. PortVision DX now uses UDP for its discovery protocol, which is not supported in SocketServer version prior to version 10.00 and Bootloader versions prior to 4.00.

This means that all DeviceMaster units must have an IP address in order to be manipulated with PortVision DX. IP addresses that are not compatible with the local network will still be discovered but will have extremely limited capabilities until the IP address is set for the local network.