grass valley

NetConfig

NETWORKING CONFIGURATION APPLICATION

Instruction Manual

SOFTWARE VERSION 2.0

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A THOMSON BRAND

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Grass Valley Web Site

The www.thomsongrassvalley.com web site offers the following:

Online User Documentation — Current versions of product catalogs, brochures, data sheets, ordering guides, planning guides, manuals, and release notes in .pdf format can be downloaded.

FAQ Database — Solutions to problems and troubleshooting efforts can be found by searching our Frequently Asked Questions (FAQ) database.

Software Downloads — Software updates, drivers, and patches can be downloaded.

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NetConfig

NetConfig

NetConfig (Networking Configuration Application) is a multipurpose software component for managing NetConfig-enabled Grass Valley devices, including Kameleon and Gecko Modular products, Encore, and M-2100 MMCP and other routing products.

Before You Start

NetConfig presumes some degree of customer-furnished equipment (CFE) and software in order to complete the system. This equipment typically includes one or more personal computers (PCs), an Ethernet switch or switches, category 5 UTP Ethernet cabling with RJ-45 connectors, serial interconnection cables and WAN connectivity devices.

Note Ethernet Hubs are not supported.

Hardware and Software Requirements

You can run NetConfig on the PC or one of the PCs already running other Grass Valley software for your system. Alternatively, you can run NetConfig on a separate PC connected to your Grass Valley network. Depending on the system deployed, the PC can be used to accomplish many tasks. These tasks range from running a simple client application to complete control and configuration of an entire system.

Minimum hardware, software, and system requirements to run NetConfig include:

- 256 Mb RAM
- 10 Mb available hard disk space
- 100BaseT Ethernet Network Interface Card
- 15-inch monitor with a screen resolution of 1024 x 768
- NT 4.0 (SP 6) or Windows 2000, or Windows XP operating system
- Logged in with Administrator-level privileges for the local machine
- Internet Explorer version 5.5 or later.
- If this installation includes Encore, only one Encore Sharer application should be running on the network.

Installing NetConfig

NetConfig is bundled with software for Grass Valley products which it can manage or it can be purchased as a separate option. See the installation instructions for the Grass Valley product you're installing.

You can, by making the proper choices during the installation process, choose to install only NetConfig, for example on a notebook computer you use in several different environments.

Note Always select the NetConfig checkbox when installing the bundled software to get the latest version or any necessary plug-ins.

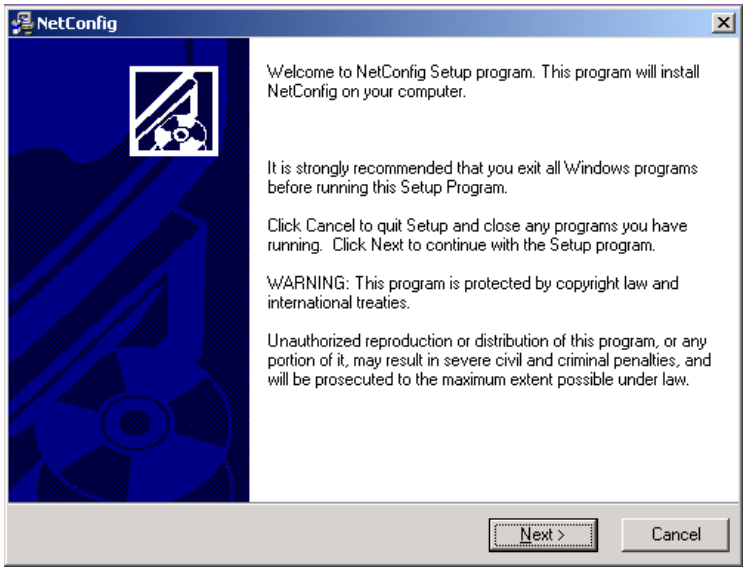
NetConfig installation procedures search for, and replace any older version(s) of NetConfig that may already reside on your PC. You do not need to uninstall those older versions first.

If you already have NetConfig installed on your computer, you can check its version information by clicking **About** icon on the NetConfig toolbar.

To install NetConfig:

1. Insert the NetConfig CD-ROM into the CD drive in your networked PC.
2. The setup application should autorun when inserted. If not, locate the NetConfig_Setup.EXE file in the NetConfig folder on the CD and double-click on it to start the installation.
3. Read the Welcome screen and click on the **Next >** button (Figure 1).

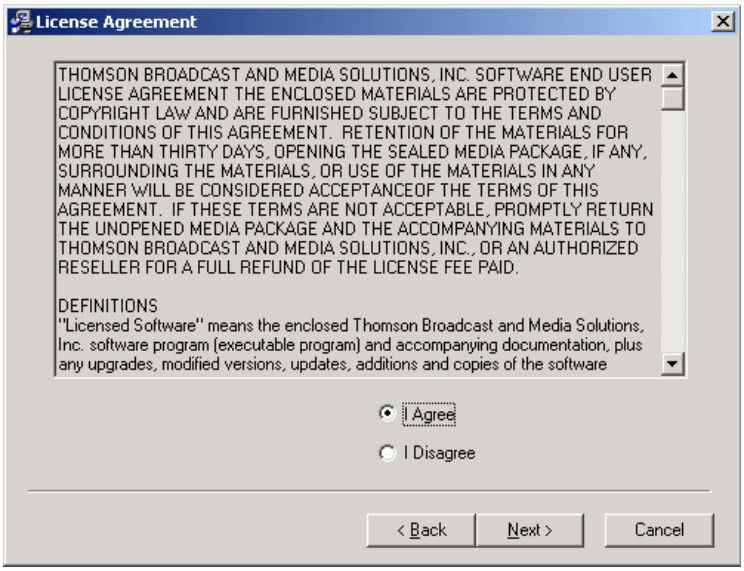
Figure 1. Installation Welcome Screen



4. Read the license agreement (Figure 2) and click on the **I Agree** radio button, then the **Next >** button to continue.

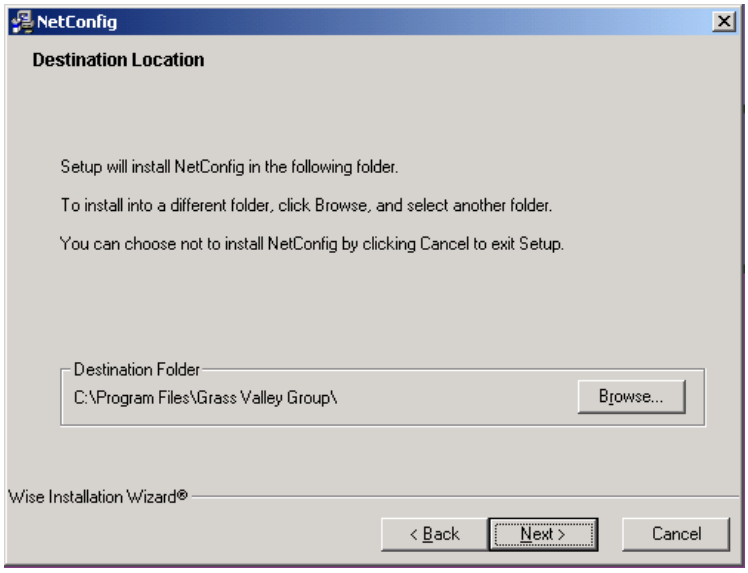
   Pressing the **I Disagree** button will halt the install.

Figure 2. License Agreement Screen



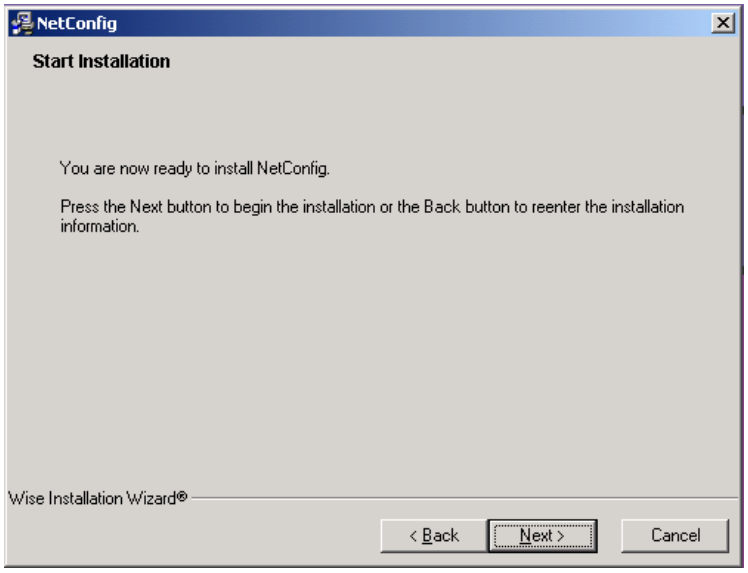
5. Select the destination location for installing the applications (Figure 3). (The default is recommended.) Use the **Browse** button to select another folder. When finished, select the **Next >** button.

Figure 3. Installation Destination Location



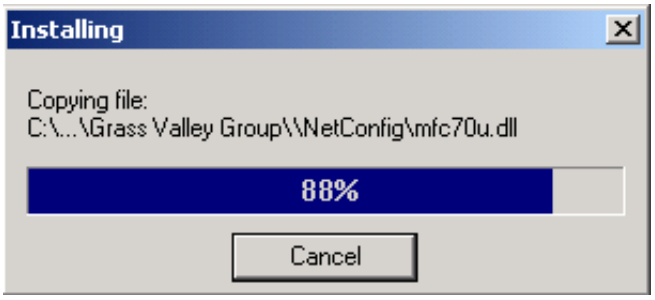
6. In the Start screen (Figure 4), select the **Next >** button to begin the installation.

Figure 4. Installation Start Screen



The Installing progress screen will be displayed (Figure 5).

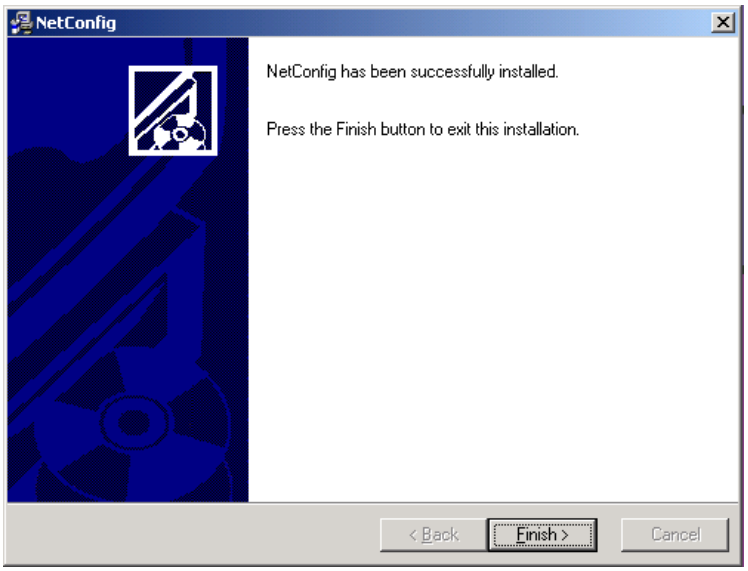
Figure 5. Installation Progress Screen



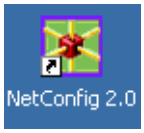
Once installation is completed and successful, a Finish screen will be displayed (Figure 6).

7. Press the **Finish >** button to exit.

Figure 6. Installation Finish Screen



Shortcuts



A shortcut to NetConfig will be automatically installed on the PC desktop. The NetConfig shortcut icon is illustrated at left.

NetConfig Configuration

Configuration of NetConfig may be necessary if you do not see the correct devices when running the application.

NetConfig sends broadcast messages to discover devices on the network to display in the views. Broadcast messages are sent on the default gateway assigned to the PC. This means that the PC must be assigned the proper gateway IP Address to view the Grass Valley devices. If you are not seeing the correct devices on the Tree Views, verify that the Default Gateway address for the PC is the correct one.

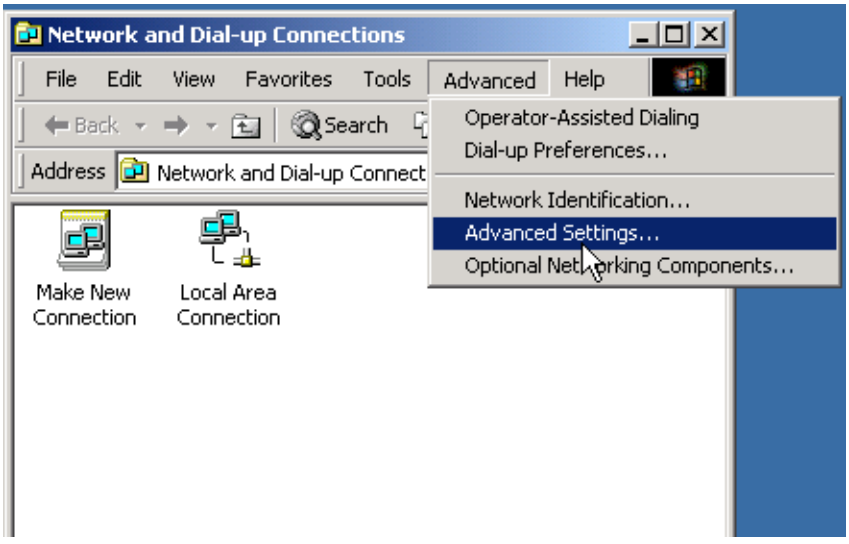
In some cases, PCs will have two NICs (Network Interface Cards). In this case the IP Address shown in that of the first NIC. You will need to assign the NIC with the correct gateway as the default. Use one of the methods given here.

Setting Default Gateway

Adapters and Bindings Tab

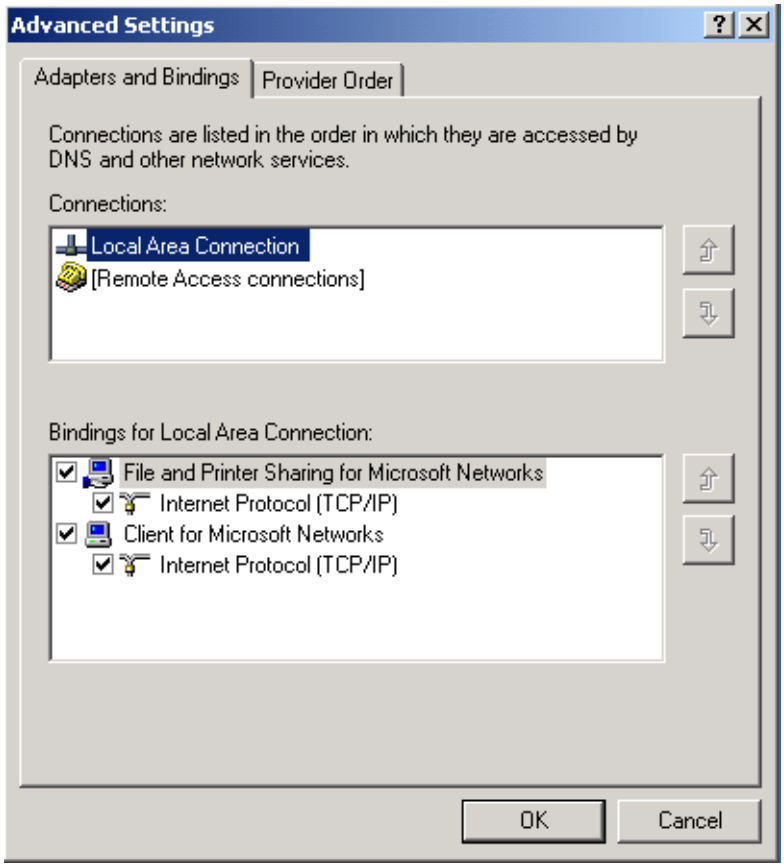
1. On the PC desktop, right-click on My Network Places and select Properties.
2. Select the Advanced selection in the menu and chose Advanced Settings in the pulldown (Figure 7).

Figure 7. Setting Default Gateway



3. Select the Adapters and Bindings tab (Figure 8).
4. In the Connections box, click on the connection you want to broadcast on. If it is not at the top of the list, use the up arrow to move it to the top.The device at the top of the list is the default gateway.

Figure 8. Adapters and Bindings Tab



Disable Connection

1. Right-click on My Network Places and select Properties.
2. You should see two connections. Right-click on the connections you don't want to broadcast on and select Disable.

   The other connection is now the one enabled and it becomes the default gateway.
3. Now enable the other connection. The default gateway will remain on the correct connection.

Using NetConfig

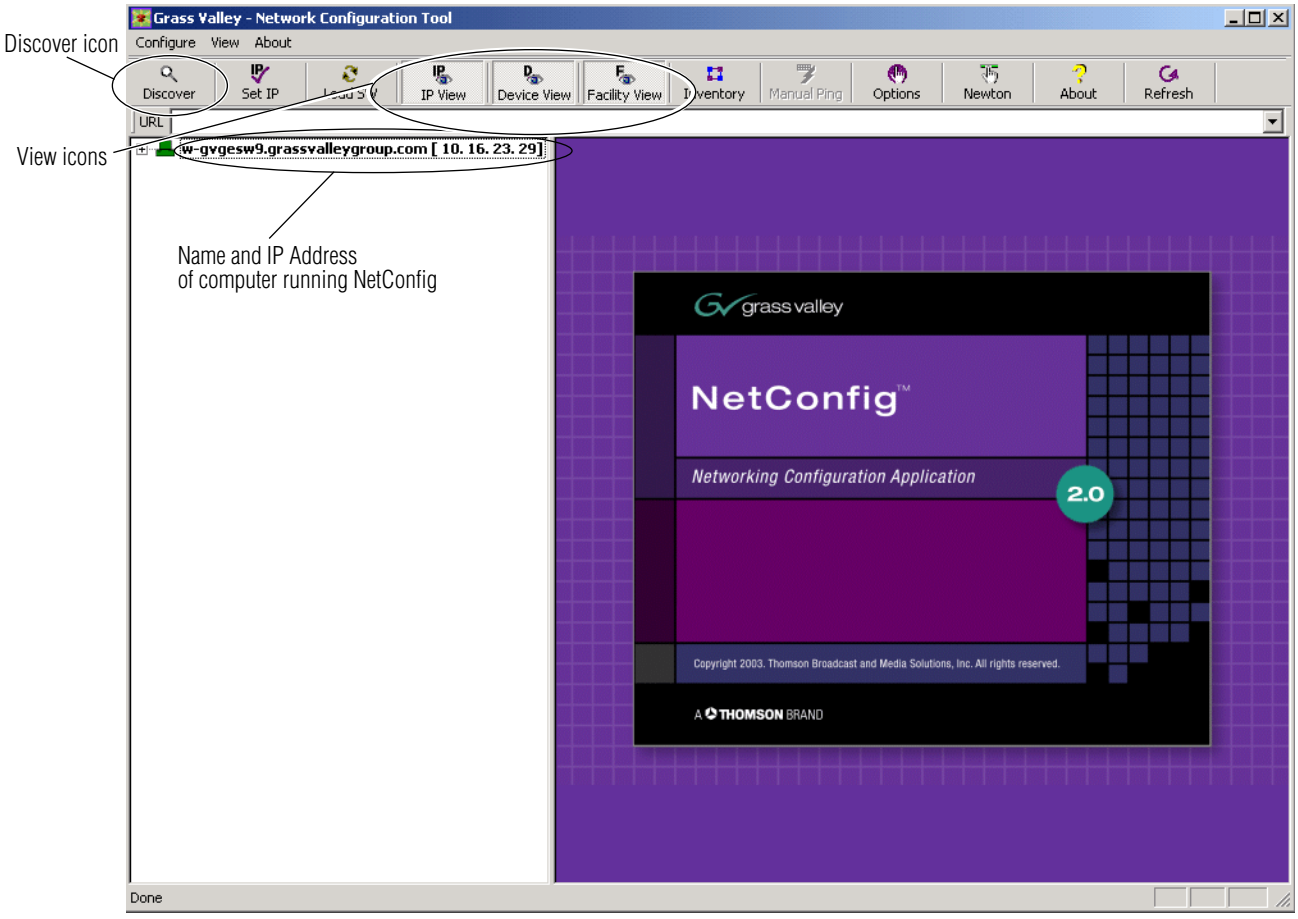
You can launch NetConfig a number of ways, but you'll find it on the Start menu under Grass Valley Group or an icon will be placed on the desktop during installation. When you launch NetConfig for the first time (or when there are no devices connected for the tool to auto-detect and there are no logical trees under the Facility View previously created by users) the initial window looks much like it does in Figure 9.

Note The illustration shows the toolbar set to Icon and Text mode. To change the toolbar icon view, refer to *Tool Bar Views* on page 34.

The left side of the screen displays the logical tree of the devices on the network the PC is connected to (via the Default Gateway assigned to the PC). The root of the logical tree is the name and the IP address of the PC on which NetConfig is running.

The right portion of the screen is the web browser view. When you click a device in the IP or Device views or a Facility view device with an embedded link, the home page for that device or the embedded link is displayed in the web browser view.

Figure 9. Initial NetConfig Main Screen



Device Discovery

When the NetConifig application starts, it automatically discovers devices on the network. If at any time you wish to see if any additional device have been added, press the **Discover** toolbar button.

Network Views

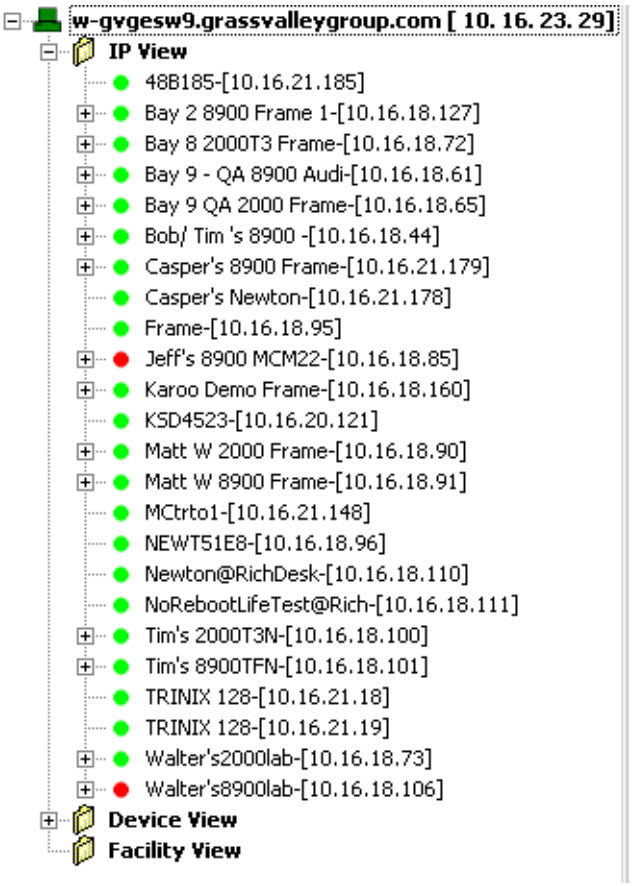
There are three different network views, IP, Device, and Facility, available with NetConfig. Any one or all of the views can be enabled by selecting the view icon in the toolbar at the top of the NetConfig window (Figure 9 on page 12). When the logical tree is expanded from the root, the enabled views will appear in the list (Figure 10).

If no devices appear on the network, or the wrong network is displayed, refer to *NetConfig Configuration* on page 10.

Figure 10. NetConfig Views

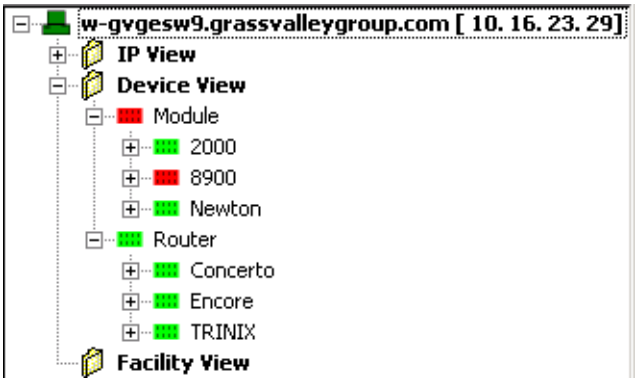
The names of all devices connected to the network and their current IP addresses are listed by IP address under **IP View.** Select the **IP View** icon or the IP View selection in the View pulldown menu. Expand the view to see the devices (Figure 11).

Figure 11. IP View Expanded



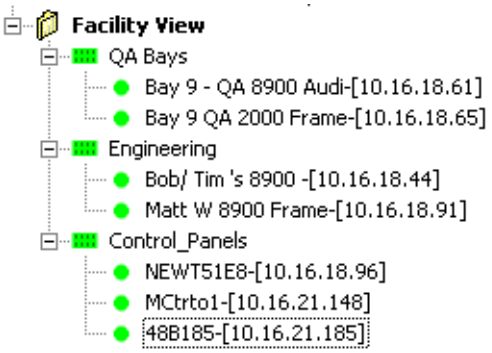
The **Device View** hierarchically lists the categories and types of devices, and under each device type, the names of each device of that type connected to the network. Select the **Device View** icon or the Device View selection in the View pulldown menu. The Device view does not display the IP addresses of the devices.

Figure 12. Device View List



The **Facility View** enables you to create custom hierarchical tree structures, representing the location of various devices in the facility where NetConfig is being used. Select the **Facility View** icon or the Facility View selection in the View pulldown menu. Refer to *Using The Facility View* on page 20 for more information on setting up the Facility view.

Figure 13. Facility View List



Expanding Branches

Any branch can be expanded to show the entire tree structure beneath that branch by right-clicking it and selecting **Expand** on the context menu that appears (Figure 14 on page 17).

Select **Collapse** to collapse the tree structure.

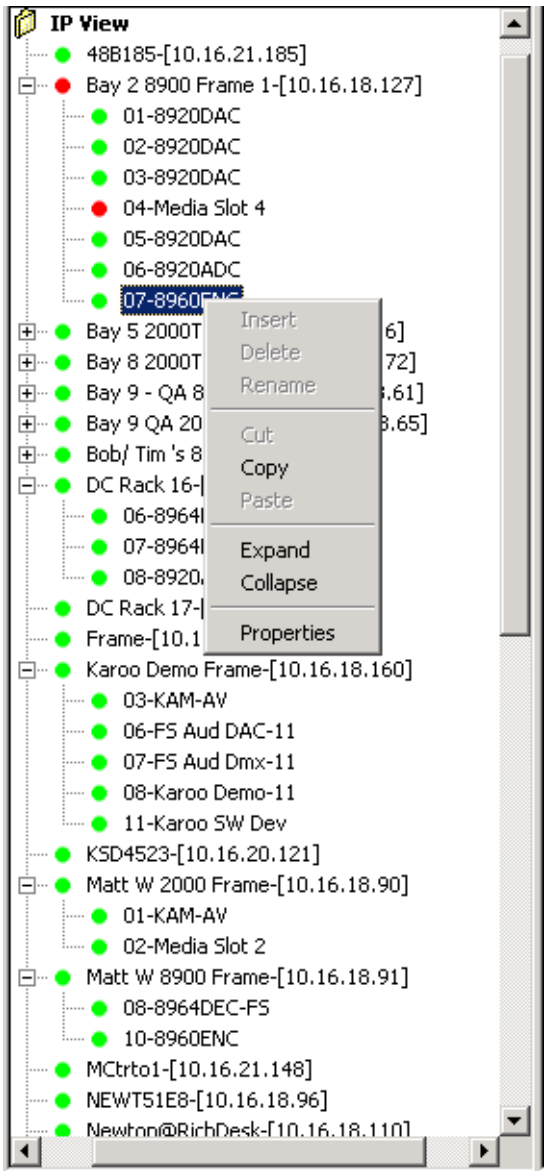
Device Status

The status of each device on the network is shown by use of colored icons. Icons report the following conditions:

- **Rectangular icons** indicate branches on the tree — categories or types of devices.
- **Round icons** indicate devices — individual devices on the tree.
- **Green icons**, whether branches or devices, indicate proper communication.
- **Red icons**, whether branches or devices, indicate functional or communication problems, either at that level in the hierarchy or a sublevel thereof.

In the example shown in Figure 14 on page 17, a single device in the Bay 2 8900 Frame has a problem which is reflected in the top frame level. Expanding the frame will show the point of failure.

Figure 14. Device Status and Context Menu Example



Copy Function

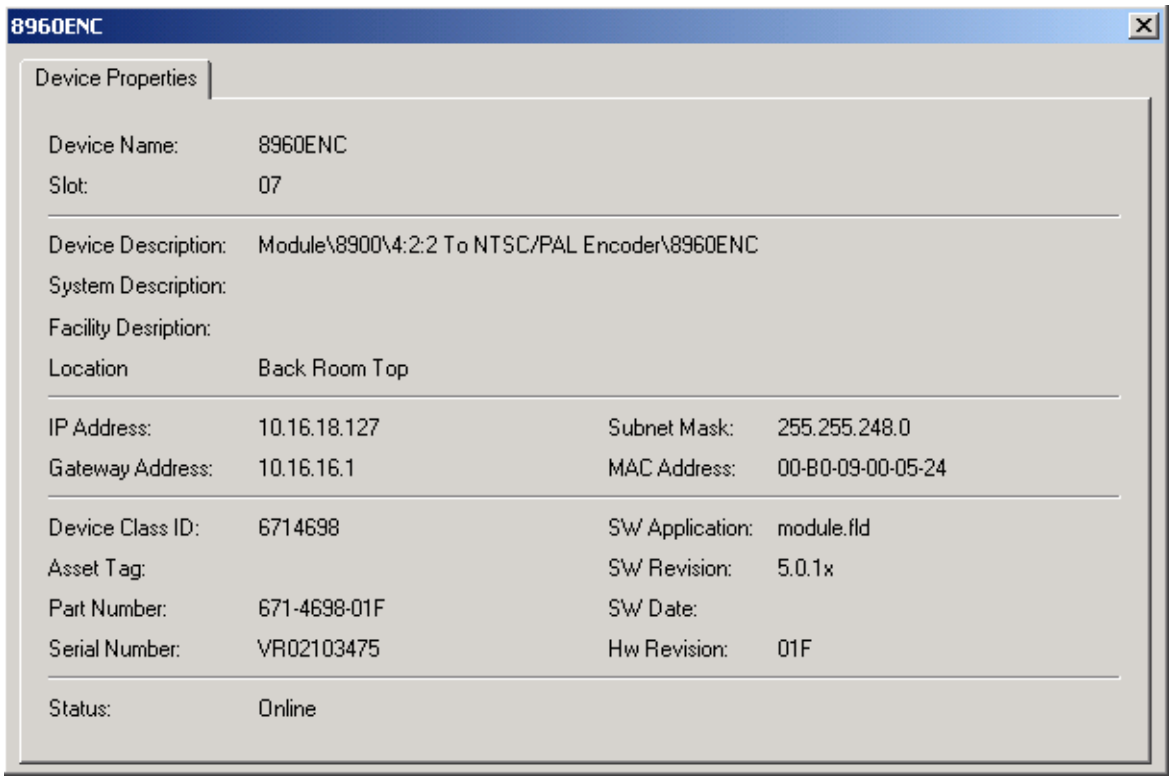
Use the Copy function in the context menu shown in Figure 14 to copy a device and paste it to the Facility View.

Device Properties

Right-clicking on any device in a view will also allow you to select **Properties** from the context menu to bring up a Device Properties screen similar to the one for an 8960ENC modular module shown in Figure 15.

Information for the device such as its location, IP Address, description, part number, software version, serial number and other information is reported. Device status is also shown. The Asset Tag and Location fields can be updated or assigned with the Inventory function in NetConfig. Refer to *Inventory Function* on page 35 for more information.

Figure 15. Device Properties Example

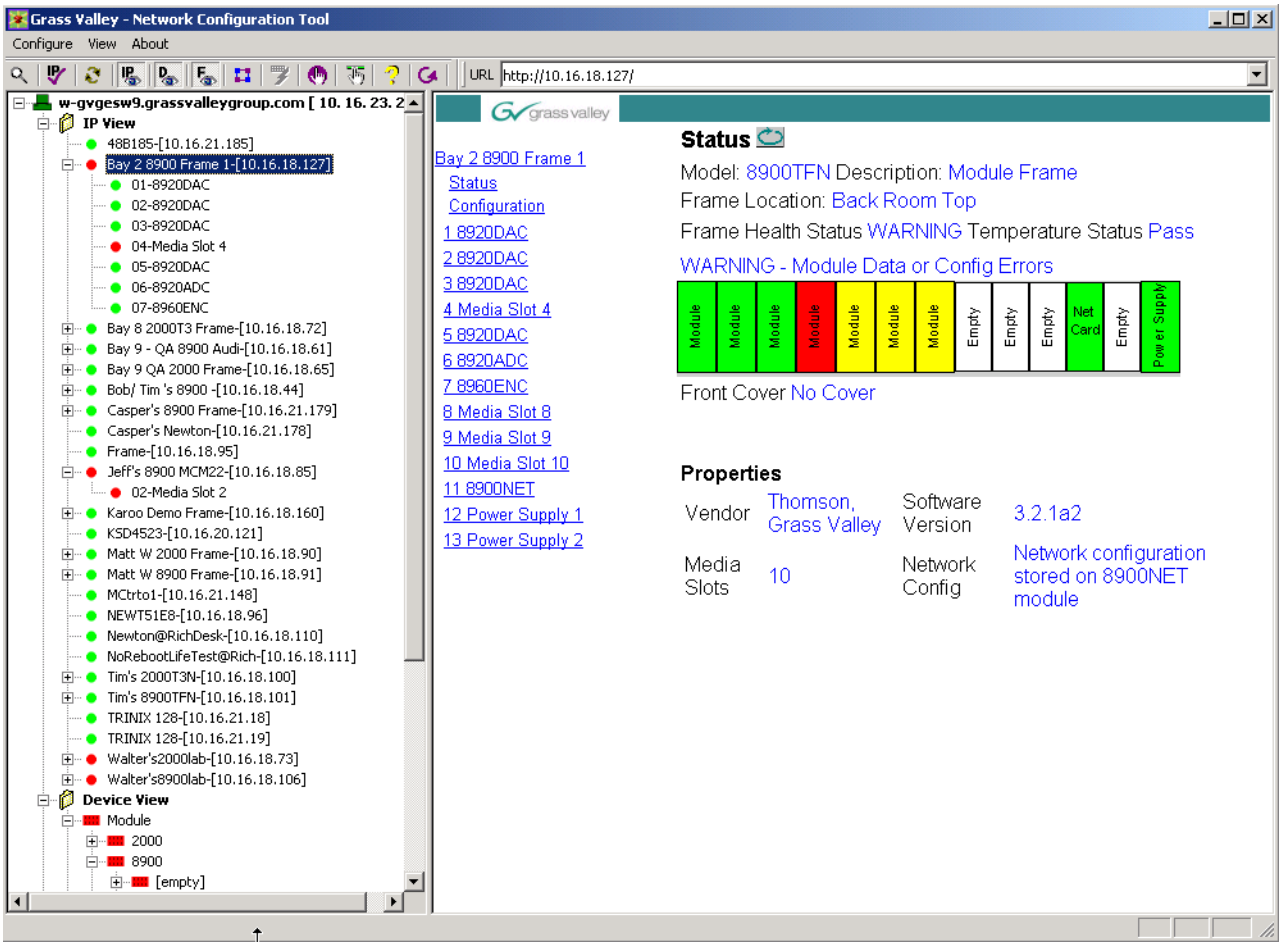


Accessing Device Web Pages

NetConfig provides configuration and monitoring web access. Selecting the device in the Device View will bring up web pages similar to the one in Figure 16 for configuring devices on the network.

To access the web page of a device, click the desired device under the IP View, Device View or the Facility View. The right side of the main screen will display the web page for the device.

Figure 16. Product Web Access Configuration



The default NetConfig web page will appear in the Browser view of the main screen if you click:

- The root (the PCs name or IP number) in the Tree View,
- The roots of the logical views – IP View, Device View and the Facility View.
- Any branch which has no devices

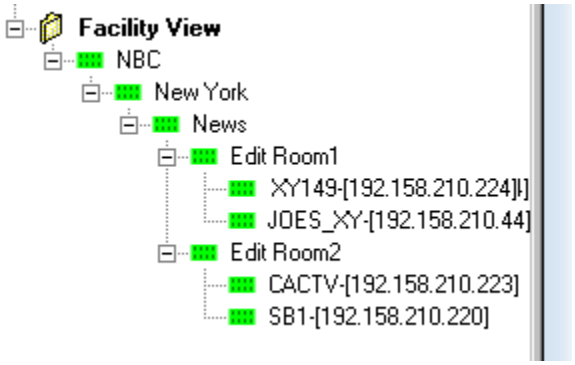
If, in the Facility View, you click on a device which doesn't have an associated link, you'll see the following reminder in the web browser:

```
There is no link for this node. To add a link:
Right-click, select Properties, enter the node link.
```

Using The Facility View

Use the Facility View to create hierarchical tree structures representing the location of various devices in the facility where you're using NetConfig. For example, if your control panels are in Edit Room 1, the location of the room is News section, the location of the building is in New York, and New York is a location for the division/branch of a company called NBC, then you could create a logical structure under Facility View like the one in Figure 17.

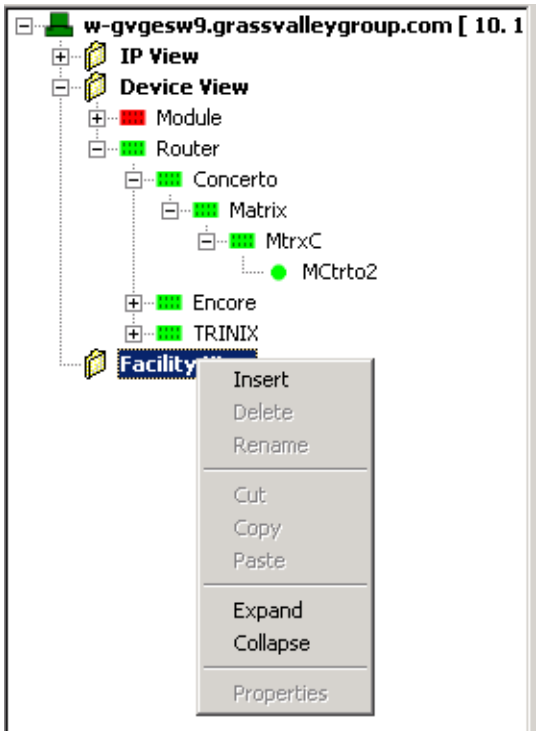
Figure 17. Facility View Example



Creating/Inserting New Tree Branches in Facility View

To insert/add a tree branch to the Facility View, select the branch or category under which the new branch is to be inserted and right-click. On the context menu that appears (Figure 18), choose **Insert**. A new branch will be inserted and you can type in your label/text for it. Alternately, you may choose to type in the label for the new device at a later stage, in which case the new branch would be named New Node.

Figure 18. Context Menu



Renaming Tree Branches in Facility View

To rename branches under Facility View, select the one to be renamed and right-click. On the context menu that appears, choose **Rename**. In standard Windows fashion, the name is selected and you can type a new or revised name.

Note Existing devices can not be re-named in the Facility View. They must be renamed in either the IP or Device View. Changes will be reflected in Facility View entries for that device.

Deleting Tree Branches or Devices in the Facility View

To delete any of the branches or devices in the Facility View, select the one to be deleted and right-click. On the context menu, choose **Delete**. A warning window will appear asking for confirmation to delete the selection. If you confirm deletion, the device or selected branch and the devices (if any) under it will be deleted.

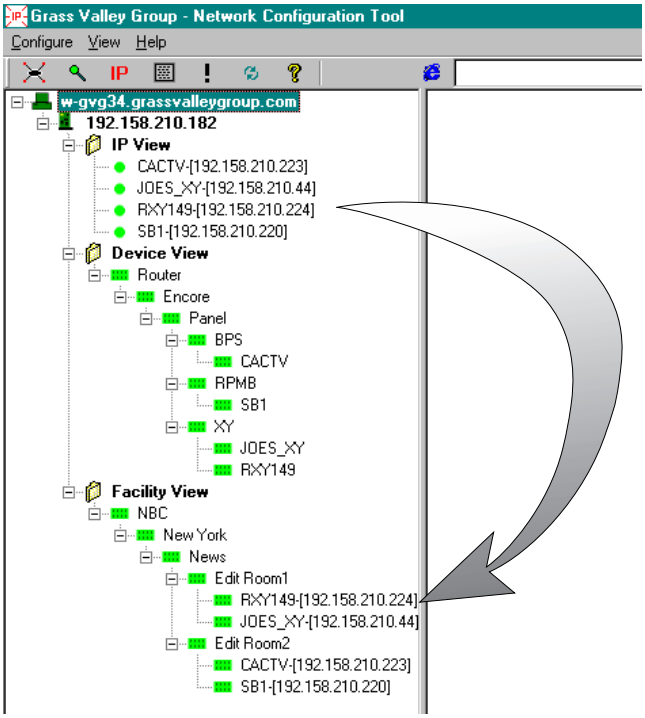
Note Deleting an existing device in the Facility View does not remove or disable the device.

Placing Devices in the Facility View

To place devices under the desired branch in the Facility View, select and drag the devices from the IP View or Device View and drop them on the branch in the Facility View below which they are to be placed. Only devices can be dragged and dropped into the Facility View. The drag and drop operation makes a copy of the dragged device(s) under the selected branch. The device(s) is/are not deleted from the previous location.

For example: To place the device labeled RXY149-[192.158.210.224] in the IP View to NBC - New York - News - Edit Room1 - Panels of the Facility View, drag the device from IP View and drop it over the Panels under the hierarchy NBC - New York - News - Edit Room1 of the Facility View.

Figure 19. Placing a Device in the Facility View



Note A device cannot reside in multiple locations under the Facility View. If you try to drag and drop a device into more than one location in the Facility View, an error message appears.

Rearranging Devices in the Facility View

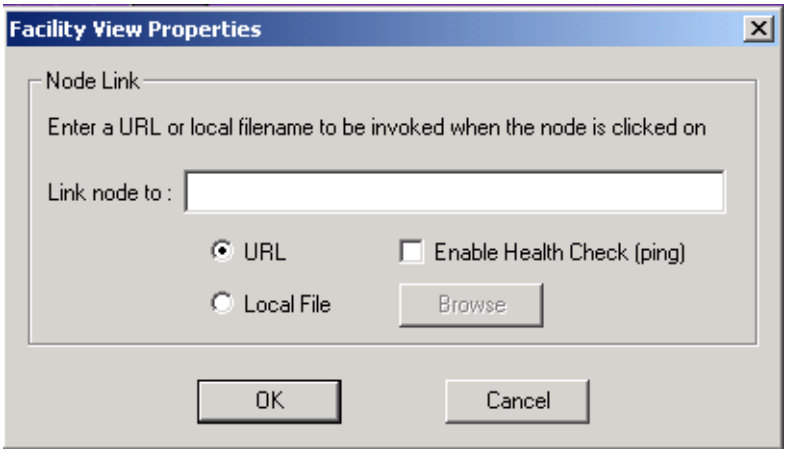
Devices can be moved from one location to another within the Facility View. To move a device from one location to another, drag and drop it in the new location. Since a device can be in only one location in the Facility View, it is moved from the previous location to the new location.

Associating a Branch in Facility View with a User-Defined Link

Any branch in the Facility view can be associated with a link to an HTML page, a GIF file, a JPEG file, or any file with an embedded hyperlink.

To associate a page or file with a branch, right-click it and select **Properties** on the context menu that appears. In the Node Link dialog (Figure 20) which appears use the **Browse** button to navigate to, and select the HTML page, GIF file, or JPEG file you want to associate with the branch selected in the Facility View.

Figure 20. Node Link Dialog



This feature can be very useful for linking to such documents as a system level drawing of a facility done with Visio or any user documentation in PDF format, for example. Embedded links can be added to these documents and links created to them in the Node Link Dialog box.

When the desired link/file has been entered, click **OK** to save and link it to that branch. Clicking **Cancel** will discard any changes to the existing link properties for the branch.

Once a link has been set for a branch, the link will open in the web browser of the main screen when the associated branch is selected. For example, if the set link for a particular branch was a web link to www.thomsongrass-valley.com and the device is selected, the home page of Thomson Grass Valley will appear in the right side of the main screen if the system were connected to the Internet.

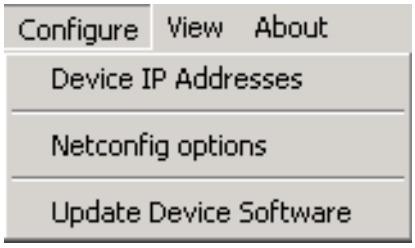
Note Users can associate links only with branches, not with Grass Valley devices in the Facility View.

This feature can be used to enter user-defined branches for non-Grass Valley devices not listed in the logical views and associate them with appropriate web pages. This enables you to control all of your equipment from a single control point.

Configuring Devices Using NetConfig

Use the commands on the Configure menu pulldown (Figure 21) or their corresponding icons in the toolbar to display IP addresses and other network-related information, update device software, or modify NetConfig options.

Figure 21. Configure Pulldown

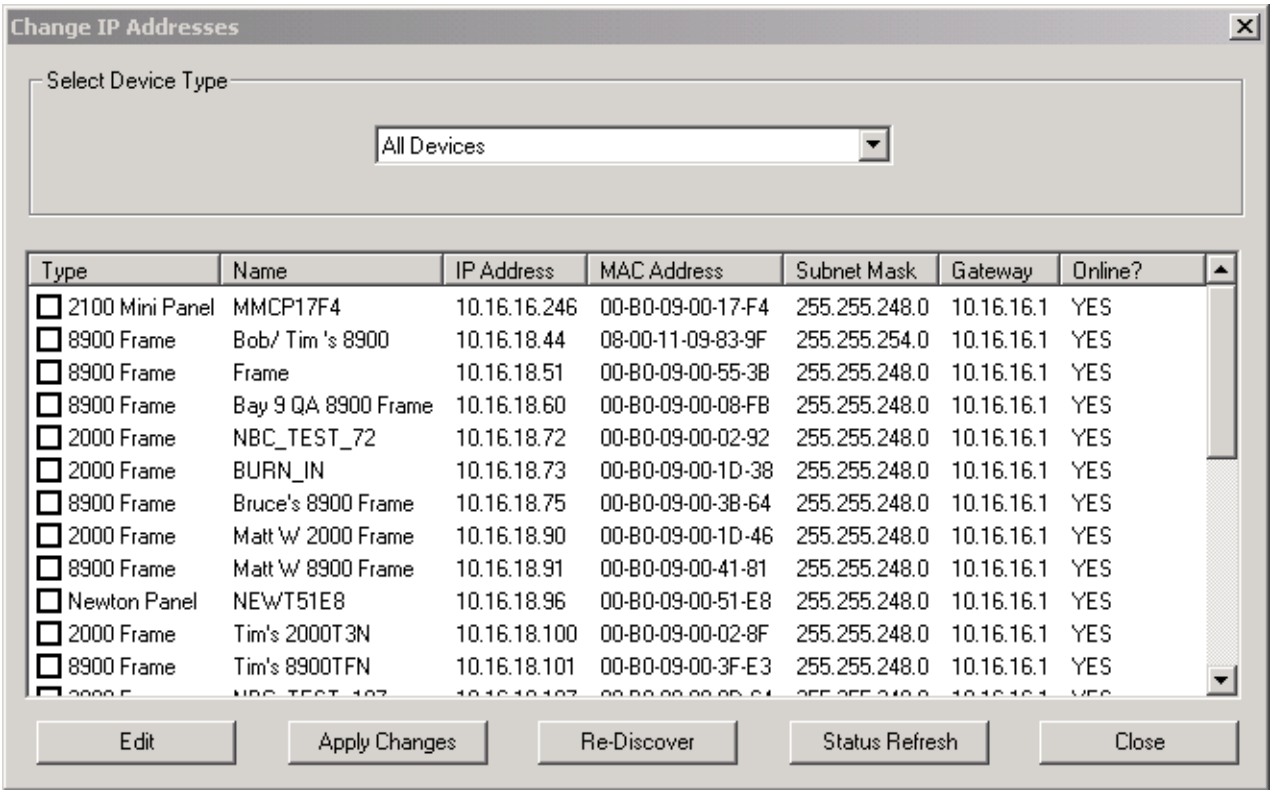


Setting IP Addresses

Use the **Device IP Addresses** command on the **Configure** menu pulldown, or the corresponding **Set IP** icon in the toolbar to view or change IP addresses for any NetConfig compliant devices on your network.

The Change IP Addresses dialog (Figure 22) will open.

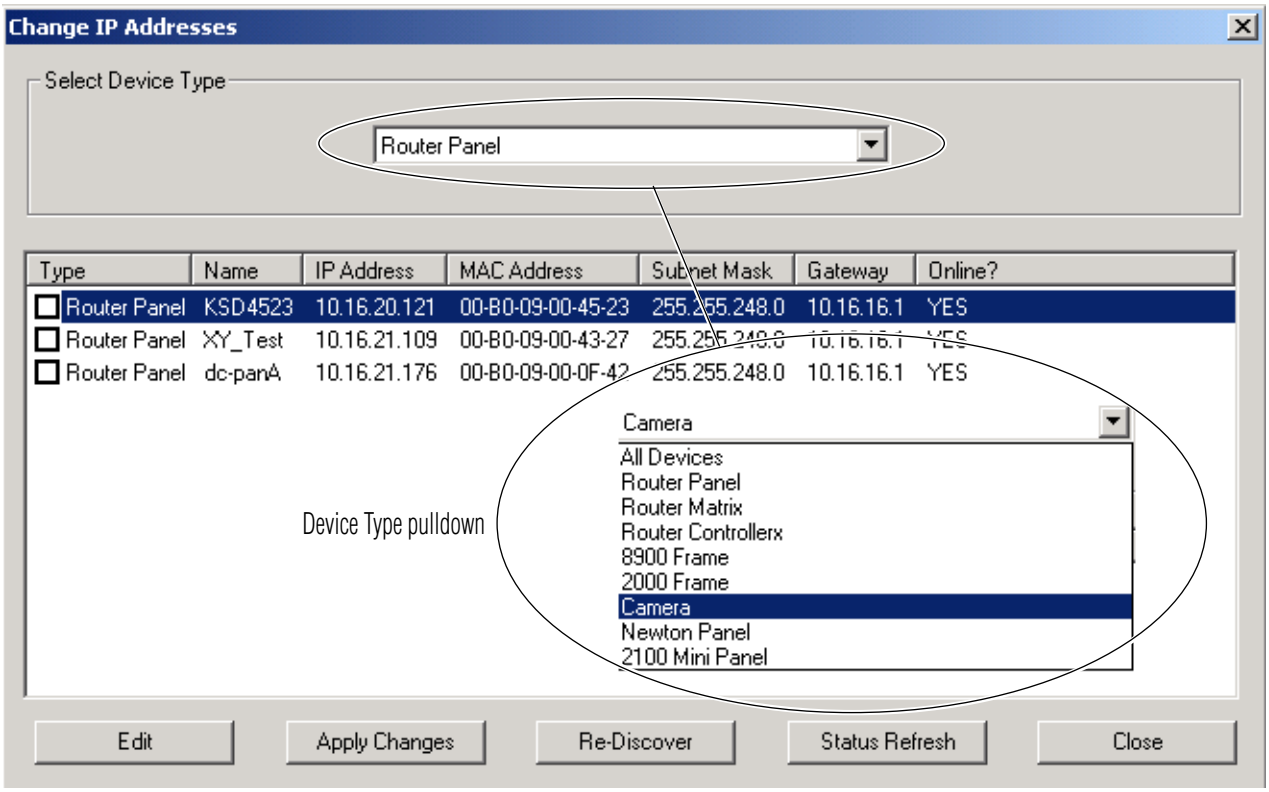
Figure 22. Change IP Addresses Dialog



Use the Select Device Type pulldown in this window to specify the kind of devices you want NetConfig to look for. Clicking the **Re-Discover** button at the bottom of the screen refreshes the contents of the list box dialog and displays the MAC addresses along with other details about the devices (Newton and Encore control panels, modular frames, matrices and system controllers, etc.) on the network.

From the list of devices, select the device you wish to update and double-click on the name or select the **Edit** button to bring up the Change IP Address dialog box (Figure 24).

Figure 23. Change IP Address Device List



The edit boxes in this frame display the IP address, Subnet Mask and Gateway addresses corresponding to the item selected in the list box (i.e., the selected item's details in the list box will be reflected in these edit boxes) (Figure 24).

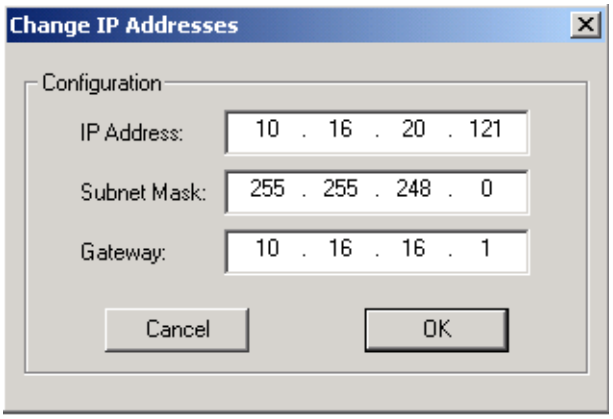
IP Address — The IP Address of the device

Subnet Mask — The Subnet Mask IP address of the device

Gateway — The Gateway address of the device

You can change the IP address, Subnet Mask, and/or Gateway in these edit boxes.

Figure 24. Change IP Address Dialog Box

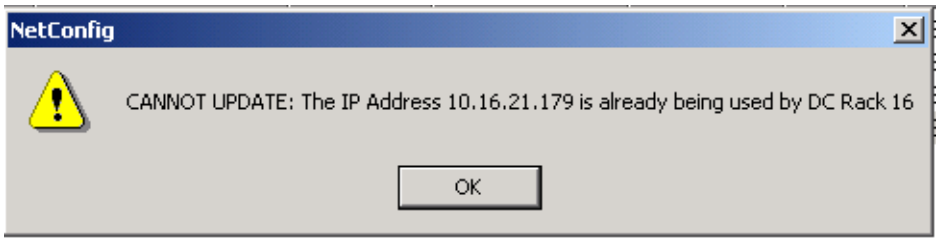


Note This does not apply the changes to the selected device(s) yet.

Click **OK** to enter these values.

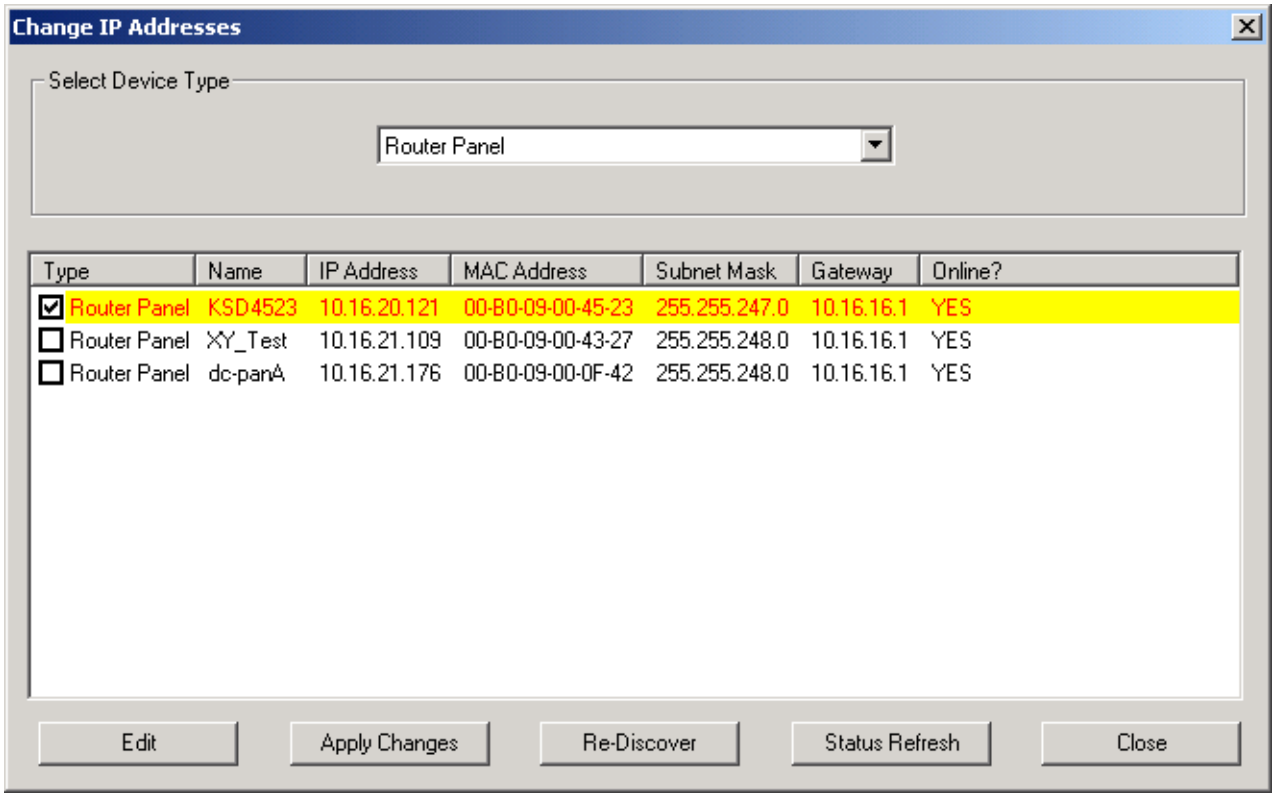
If you attempt to assign an IP Address that is already assigned to another device on the network, a warning message (Figure 25) will be displayed.

Figure 25. Duplicate IP Address Warning



If this is a valid IP address (not used by another device) a confirmation screen will come up (Figure 26).

Figure 26. IP Address Confirmation Screen



Click **Apply Changes** to send the modified/updated information to the clients.

Clicking the **Status Refresh** button also discovers the changes, if any, made (through the web page or otherwise) to the network parameters of the devices listed and refreshes both the list box in the Find Devices dialog as well as the Tree View in the main NetConfig window.

Clicking the **Re-Discover** button searches for new devices that have come on-line.

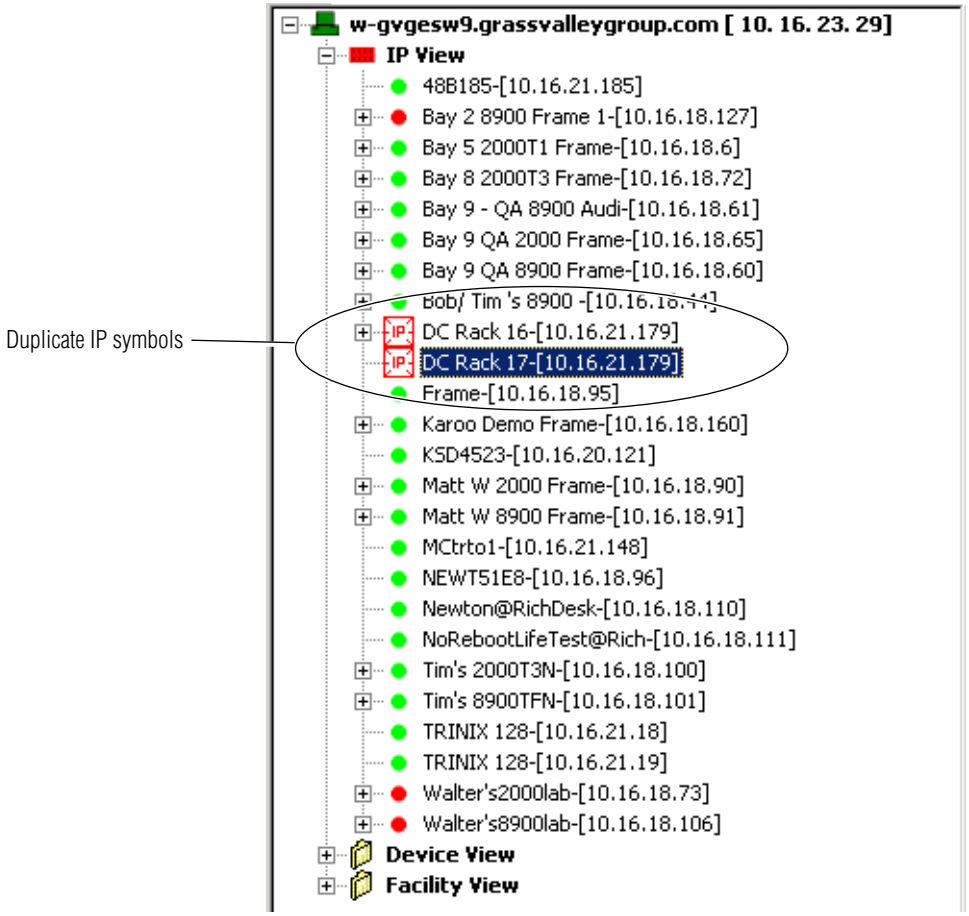
Clicking the **Close** button discards the changes made, if any (before clicking on **Apply Changes**) and exits from the dialog.

Resolving Duplicate IP Addresses

If a device is installed on the network with the same IP address as another device, when the new device is discovered, a warning message will indicate that a duplicate IP address device has been found. The IP View will also show the two devices with the same address with an IP symbol as shown in Figure 27.

This can occur when new devices with factory default IP addresses are installed on the network.

Figure 27. Duplicate IP Address Shown in IP View



To resolve the duplicate IP address, select the **Set IP** icon on the toolbar or the Device IP Addresses in the Configure pulldown and find the device type in the list. Change the device's IP address to be unique on the network.

Loading or Updating Device Software

You can use NetConfig to install the software your Grass Valley product(s) require(s). It's probably more likely that you'll use the Update Device Software command in NetConfig most of the time to update existing software.

Follow these procedures to load or update device software.

CAUTION Do not perform these tasks while on the air. The reboot procedure takes your hardware off-line briefly.

1. Launch NetConfig if it's not already running.

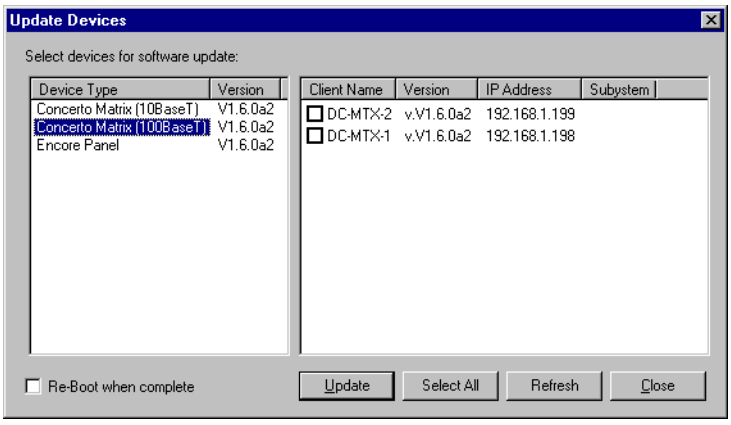
2. Choose **Update Device Software** on the **Configure** menu or click the **Load SW** icon in the toolbar.

3. In the dialog box (Figure 28) that appears, choose the software and version appropriate for the device(s) you want to update. A software update package for each device type is required on the PC before the software will appear in the Software Update window.

Note It's possible that you'll see devices listed in NetConfig, but not see the appropriate software for them in the list or vice versa. That's because NetConfig displays only the software which has been loaded *on this computer.*

Once you've selected a software version, NetConfig lists the devices for which that software is appropriate in the right pane of the dialog. It also displays the name, current software version, and IP Address for each of those devices.

Figure 28. Update Devices Dialog



4. In the right pane, use standard Windows selection techniques to select the devices you want to update.

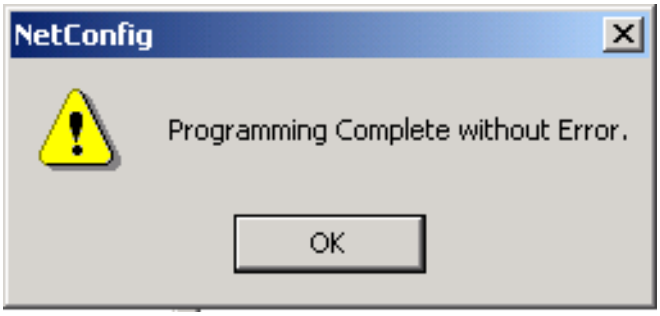
   We strongly suggest updating all devices of the same type with the same software version. To make that easier, use the **Select All** button.

5. Check the **Reboot when complete** option in the bottom left corner of the screen.

6. Click the **Update** button to install the new software in the devices you've selected. A progress pop-up will display the software update progress.

   When the software update is complete without error, the message shown in Figure 29 will appear.

Figure 29. Software Update Complete Message



7. Wait long enough for the devices to reboot, then click the **Refresh** button to complete the procedure and confirm that your updates are in place.

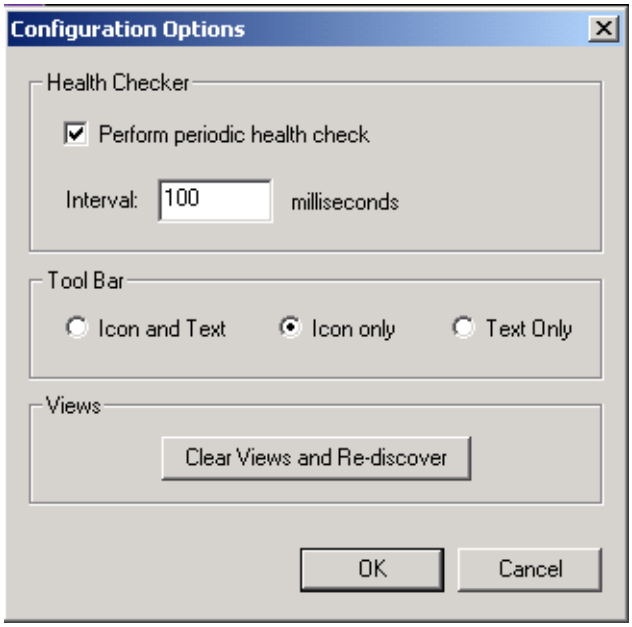
8. Click the **Close** button to exit the Update Devices window.

NetConfig Options

NetConfig Options are used to enable/disable checking device communication, set the toolbar view, and define the automatic polling interval to test the devices.

choose the menu option **Configure > NetConfig Options**, or click the **Options** icon in the toolbar to open the Configurations Options dialog box (Figure 30).

Figure 30. NetConfig Options Dialog



Health Checker

This area is to enable/disable the periodic health check and to configure the polling time interval for the periodic health check. The polling interval is set in milliseconds, the default (and recommended) interval being 100 milliseconds.

Depending on the polling interval specified in the interval, the devices shown in the tree view will be polled for the health check if a periodic health check is enabled. If the Network Configuration Tool is unable to connect to the device, the icon beside the device's IP address in the tree view will be shown in red. Otherwise the icon will be displayed as green to indicate that the device is in good health. When device icons are red in the Device View, the icons for their entire device family will also be red.

When the check box **Perform periodic health check** is selected (checked), the user can fill in the polling interval for the periodic health check. This periodic polling of many devices may cause undesirable network traffic in some cases.

If this occurs, you can use the **Manual Ping** function on the toolbar instead to minimize network traffic. When the **Perform periodic health check** check box is not selected (unchecked) the periodic polling is disabled and the **Manual Ping** icon will become active.

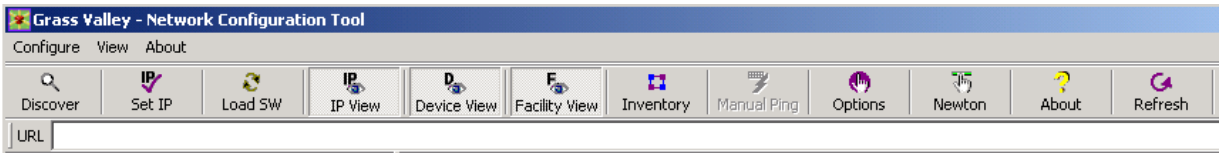
Pressing the **Manual Ping** icon causes all devices to be polled to see if they are on-line. If a listed device cannot be reached or the device is not accessible, that device's icon on the tree view will be shown in red to indicate a connect failure. The device icon will be green if the device is accessible.

Tool Bar Views

The three **Tool Bar** radio buttons (Figure 30 on page 32) allow you to select the following options for the toolbar views:

- Icon and Text view – this view shows the NetConfig icons and is accompanied by text as shown in Figure 31.

Figure 31. Icon and Text Tool Bar View

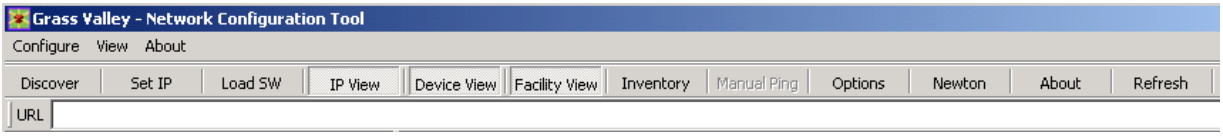


- Icon Only view – this view shows the NetConfig icons only as shown in Figure 32.

Figure 32. Icon Only Tool Bar View

- Text Only view – this view shows the NetConfig icons and is accompanied by text as shown in Figure 33.

Figure 33. Text Only Tool Bar View



Views

In the Views area of the NetConfig Configurations Options (Figure 30 on page 32), click on the **Clear View and Re-Discover** button to erase the entire contents of the IP and Device views and re-discover all devices. This will update the views completely, not just show new devices discovered.

Other NetConfig Functions

The remaining NetConfig functions are discussed in this section.

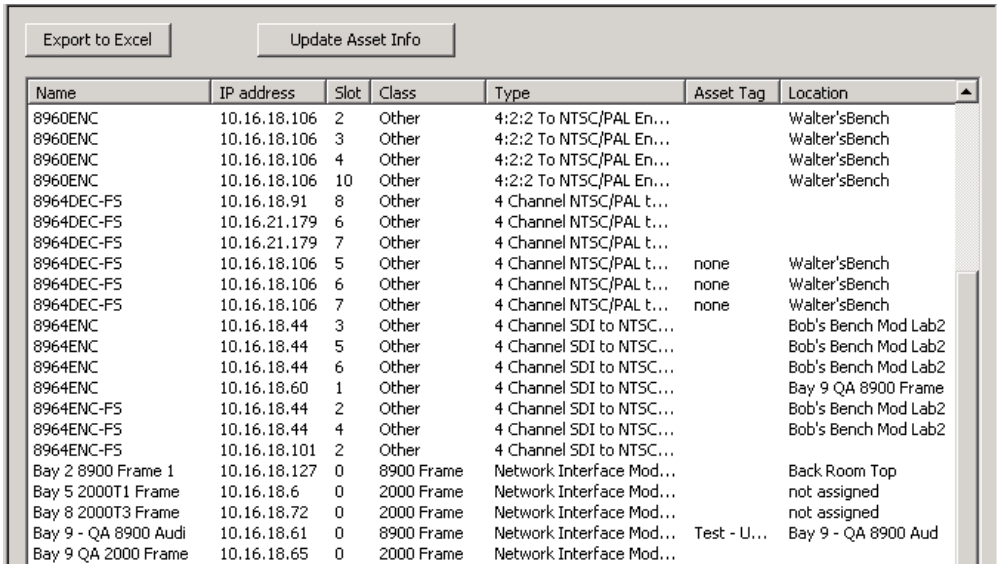
Inventory Function

Selecting the **Inventory** icon or selecting the Show Inventory View selection in the View menu pulldown opens a database view of a complete list of devices on the network on the right side of the window. Deselect the icon to turn off the Inventory function.

The Inventory function gives the following information about each device:

- Name – device name assigned by the user.
- IP Address – IP address of the device (frame address if a module).
- Slot – if the device is a frame module, the frame slot number it is installed in.
- Class– identifies the device as a frame, panel, or other (module).
- Type – gives a description of the device.
- Asset Tag number – the asset number of the device.
- Location – the user-assigned location of the device.

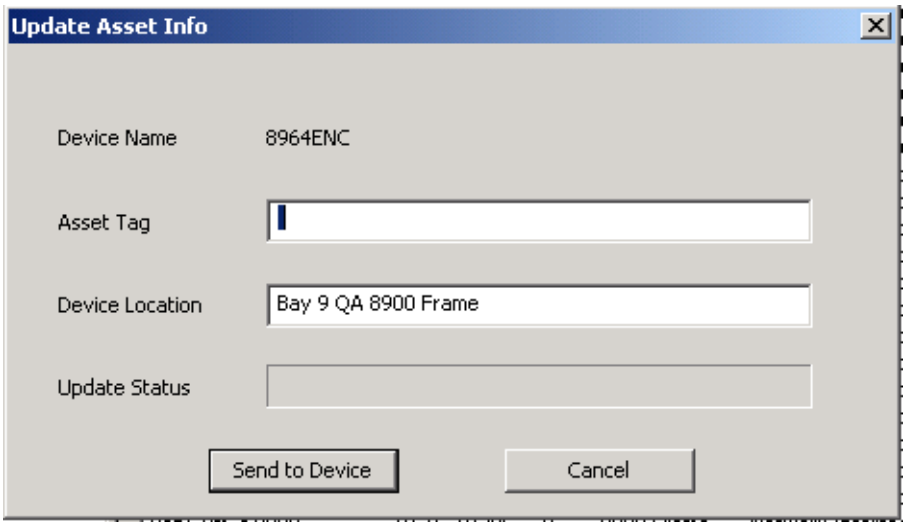
Figure 34. Inventory Function



Name	IP address	Slot	Class	Type	Asset Tag	Location
8960ENC	10.16.18.106	2	Other	4:2:2 To NTSC/PAL En...		Walter'sBench
8960ENC	10.16.18.106	3	Other	4:2:2 To NTSC/PAL En...		Walter'sBench
8960ENC	10.16.18.106	4	Other	4:2:2 To NTSC/PAL En...		Walter'sBench
8960ENC	10.16.18.106	10	Other	4:2:2 To NTSC/PAL En...		Walter'sBench
8964DEC-FS	10.16.18.91	8	Other	4 Channel NTSC/PAL t...		
8964DEC-FS	10.16.21.179	6	Other	4 Channel NTSC/PAL t...		
8964DEC-FS	10.16.21.179	7	Other	4 Channel NTSC/PAL t...		
8964DEC-FS	10.16.18.106	5	Other	4 Channel NTSC/PAL t...	none	Walter'sBench
8964DEC-FS	10.16.18.106	6	Other	4 Channel NTSC/PAL t...	none	Walter'sBench
8964DEC-FS	10.16.18.106	7	Other	4 Channel NTSC/PAL t...	none	Walter'sBench
8964ENC	10.16.18.44	3	Other	4 Channel SDI to NTSC...		Bob's Bench Mod Lab2
8964ENC	10.16.18.44	5	Other	4 Channel SDI to NTSC...		Bob's Bench Mod Lab2
8964ENC	10.16.18.44	6	Other	4 Channel SDI to NTSC...		Bob's Bench Mod Lab2
8964ENC	10.16.18.60	1	Other	4 Channel SDI to NTSC...		Bay 9 QA 8900 Frame
8964ENC-FS	10.16.18.44	2	Other	4 Channel SDI to NTSC...		Bob's Bench Mod Lab2
8964ENC-FS	10.16.18.44	4	Other	4 Channel SDI to NTSC...		Bob's Bench Mod Lab2
8964ENC-FS	10.16.18.101	2	Other	4 Channel SDI to NTSC...		
Bay 2 8900 Frame 1	10.16.18.127	0	8900 Frame	Network Interface Mod...		Back Room Top
Bay 5 2000T1 Frame	10.16.18.6	0	2000 Frame	Network Interface Mod...		not assigned
Bay 8 2000T3 Frame	10.16.18.72	0	2000 Frame	Network Interface Mod...		not assigned
Bay 9 - QA 8900 Audi	10.16.18.61	0	8900 Frame	Network Interface Mod...	Test - U...	Bay 9 - QA 8900 Aud
Bay 9 QA 2000 Frame	10.16.18.65	0	2000 Frame	Network Interface Mod...		

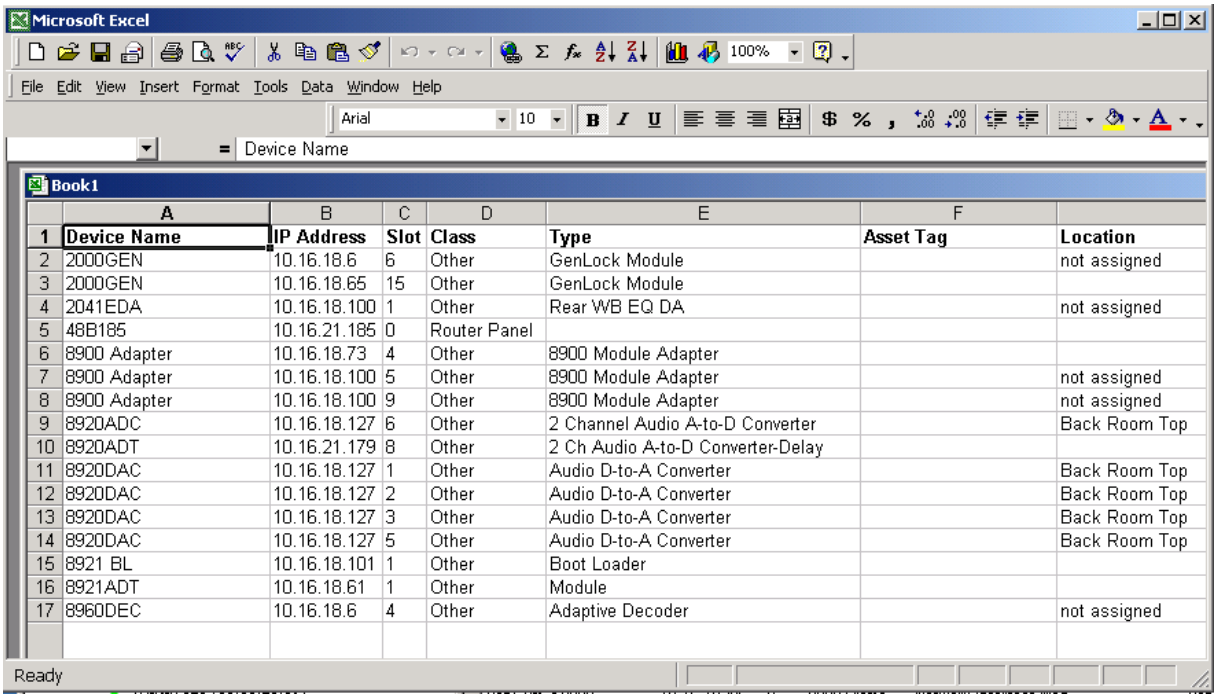
To update a device's asset and location information, select a device in the inventory list then the **Update Asset Info** button to bring up the dialog box shown in Figure 35. Update or assign the Asset Tag number and the Device Location and select the **Send to Device** button to save it to the device.

Figure 35. Update Asset Info Screen



You may export this list to a Microsoft Excel document by selecting the **Export to Excel** button. The database information will automatically open Excel and create a spreadsheet similar to the one shown in Figure 36.

Figure 36. Export To Excel Example



	A	B	C	D	E	F	
1	Device Name	IP Address	Slot	Class	Type	Asset Tag	Location
2	2000GEN	10.16.18.6	6	Other	GenLock Module		not assigned
3	2000GEN	10.16.18.65	15	Other	GenLock Module		
4	2041EDA	10.16.18.100	1	Other	Rear WB EQ DA		not assigned
5	48B185	10.16.21.185	0	Router Panel			
6	8900 Adapter	10.16.18.73	4	Other	8900 Module Adapter		
7	8900 Adapter	10.16.18.100	5	Other	8900 Module Adapter		not assigned
8	8900 Adapter	10.16.18.100	9	Other	8900 Module Adapter		not assigned
9	8920ADC	10.16.18.127	6	Other	2 Channel Audio A-to-D Converter		Back Room Top
10	8920ADT	10.16.21.179	8	Other	2 Ch Audio A-to-D Converter-Delay		
11	8920DAC	10.16.18.127	1	Other	Audio D-to-A Converter		Back Room Top
12	8920DAC	10.16.18.127	2	Other	Audio D-to-A Converter		Back Room Top
13	8920DAC	10.16.18.127	3	Other	Audio D-to-A Converter		Back Room Top
14	8920DAC	10.16.18.127	5	Other	Audio D-to-A Converter		Back Room Top
15	8921 BL	10.16.18.101	1	Other	Boot Loader		
16	8921ADT	10.16.18.61	1	Other	Module		
17	8960DEC	10.16.18.6	4	Other	Adaptive Decoder		not assigned

Web Address (URL) Field

You can use the web address field in the toolbar (Figure 37) to navigate to other web links.

Figure 37. Web Address (URL) Field

This address bar will automatically refresh to show the current link being displayed in the Browser View of the main screen. You can type or choose the link you want, then press **Enter** to go to the link.

Configure Newton Panel

The **Newton** icon will appear when the Newton Modular Control System software has been installed on the computer. Selecting the Configure Newton Panel icon will open the Newton Panel Configurator plug-in. De-select the icon to turn Newton Panel Configurator off. Refer to the Newton Modular Control System Instruction Manual for instruction on using this tool.

About (NetConfig)

Use this command or it's toolbar equivalent to learn the version of NetConfig that you're running.

Refresh Browser

Click on the **Refresh** icon to refresh the web browser when needed.

NetConfig Pointers

- The PC on which the Network Configuration Tool is loaded must have Internet Explorer 5.5 or later loaded on it. This is necessary to access the web pages of the devices.
- When the IP address of a Panel is changed manually using the Find Devices dialog, the device may initially be reported as inaccessible (red) even though you committed the changes and clicked the **Refresh** button. This is due to the time required for devices to bind to the new IP address. The status will change back to accessible (green) on the next polling cycle if the health checker is enabled.
- Do not delete any files under the directory where the NetConfig resides. This may lead to abnormal behavior of the tool.

Keystroke Shortcuts

The following keystroke shortcuts are available

- CTRL-C - copy
- CTRL-X - cut
- CTRL-V - paste
- CTRL-E - expand
- CTRL-P - properties
- CTRL-I or INS key - insert
- CTRL-D or DEL key - delete
- ENTER - go to web page

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