

NetConfig NETWORKING CONFIGURATION APPLICATION

Instruction Manual Software Version 2.0.12

www.grassvalley.com

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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 — Download software updates, drivers, and patches.



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Grass Valley's innovation and excellence in product design also extends to the programs we've established to manage the recycling of our products. Grass Valley has developed a comprehensive end-of-life product take back program for recycle or disposal of end-of-life products. Our program meets the requirements of the European Union's WEEE Directive, the United States Environmental Protection Agency, and U.S. state and local agencies.

Grass Valley's end-of-life product take back program assures proper disposal by use of Best Available Technology. This program accepts any Grass Valley branded equipment. Upon request, a Certificate of Recycling or a Certificate of Destruction, depending on the ultimate disposition of the product, can be sent to the requester.

Grass Valley will be responsible for all costs associated with recycling and disposal, including freight. However, you are responsible for the removal of the equipment from your facility and packing the equipment to make it ready for pickup.



For further information on the Grass Valley product take back system please contact Grass Valley at + 800 80 80 20 20 or +33 1 48 25 20 20 from most other countries. In the U.S. and Canada please call 800-547-8949, and ask to be connected to the EH&S Department. Additional information concerning the program can be found at: www.grassvalley.com/about/environmental-policy

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NetConfig

Introduction

NetConfig (Networking Configuration Application) is a multipurpose software component for managing NetConfig-enabled Grass Valley devices. Grass Valley products that currently use NetConfig include:

- Kameleon and Gecko Modules and Newton Panels,
- Encore and Prelude Routing Systems,
- M-2100 Mini Master Control Panel,
- Grass Valley Camera CCUs,
- Kayenne Switchers, and
- Kalypso and Zodiak Switcher Remote Aux Panels.

As Grass Valley develops new product this list will grow.

NetConfig Features

The NetConfig application is designed to make network configuration simple.

- NetConfig discovers devices on the network, and these devices can have their IP addresses configured remotely using the PC on which NetConfig has been installed,
- NetConfig reports duplicate IP addresses, which can be easily resolved,
- NetConfig is used to install software to these devices,
- NetConfig can be used to identify devices, by blinking their LEDs or panel buttons,
- NetConfig incorporates a web browser that displays web pages served by the devices on the network,
- NetConfig provides rudimentary health checks of these devices, and
- NetConfig provides inventory tools for equipment management.

Application specific NetConfig plug-ins are also available for use with various Grass Valley products (for example, Newton and Prelude). Each plug-in provides special functionality for that product.

NetConfig Scope

The NetConfig application uses a client-server model. The NetConfig application acts as the server and sends out Requests to client devices, which send Responses.

The NetConfig discovery process employs Ethernet broadcast messages. This process works only when the NetConfig-enabled devices are on the same LAN; that is, either connected directly, or connected via a hub or switch. Broadcast messages do not normally propagate through router gateways, so devices on a WAN are not normally discovered (see Figure 1).



Figure 1. Network Topology and Broadcast Messages

Note We generally recommend using unmanaged switches, instead of hubs, on networks. A hub may be used with a single device to extend beyond the Ethernet 100 meter limit. We do not recommend attaching multiple devices to a hub since this commonly introduces Ethernet message collisions that can affect overall system performance.

On some routers, IP Helper can be enabled to propagate broadcast messages. These messages are then sent as subnet broadcasts for a particular port. If a device is configured on a subnet that matches IP Helper, then it will receive and respond to broadcast messages. However, if the device is completely unconfigured or misconfigured, it will not receive the broadcast message even if IP Helper is enabled. In summary, NetConfig works on a flat, isolated LAN without the need for special network configuration. To work properly in any other network topology, network system configuration outside the scope of this manual may be required. Work with your network administrator if you wish to use NetConfig in other network environments.

Important Security Information

The NetConfig application is a powerful tool. A NetConfig user can easily change the IP addresses of NetConfig compliant devices on a network, and can change the software installed on those devices. For responsible facility engineering staff these capabilities are extremely useful for bringing up and configuring systems. A person with malicious intent, however, can use these same capabilities to take any or all NetConfig compliant devices on the network offline, possibly seriously disrupting facility operations.

It is assumed that those using NetConfig are indeed legitimate authorized users, and are working in premises which are physically secure/restricted and protected from extraneous network penetration, either by physical isolation or behind a company firewall.

Device Software Load Background Information

NetConfig can be used by several different Grass Valley product lines to load software to various devices over the network. The same NetConfig application software is used by all the product lines, but different kinds of device software will need to be loaded to different devices. Identifying what type and version of software is available to NetConfig to load is accomplished using separate files included with each specific product line release. These files provide NetConfig paths to the locations of the software appropriate for each device. Only the path and software files for that particular product line will be included in the NetConfig software bundled with that product's software releases. These files are installed onto the PC along with the NetConfig application itself.

In earlier versions of NetConfig, files appended with .sw3 were used to identify the type and location of device software. In newer versions, .xml files are used. NetConfig supports either or both mechanisms. The organizational tree structure displayed by NetConfig from which you choose which software version to load is determined by these files.

For example, if you install the NetConfig application provided with one product, and then install NetConfig provided with a different product, the new product's .xml or .sw3 files are simply added to that PC, and do not overwrite files of the other product line. NetConfig can still load the other product's software to those devices. The software load tree structure will show both the new product line device software and the previous product line device software.

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, and category 5 UTP Ethernet cabling with RJ-45 connectors.

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 Net-Config 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.

To run NetConfig you will need:

- Windows 2000 SP4, Windows XP SP2, or Windows 7 and above operating system,
- to be logged in with Administrator-level privileges for the local machine, and
- have Internet Explorer version 5.5 or later installed.

Windows 7 Requirements

If your PC is running Windows 7, opening the NetConfig application by clicking the shortcut may display an error message: **Health check pings disabled**, which indicates the application needs administrator access. This can be accomplished in various ways"

Permanent Application Administrator Access

• Right click on the program shortcut, then click on **Properties** and on the **Compatibility** tab, check the **Run this program as an administrator** box, and then click **OK**.

-or-

• Right click on the program shortcut, then click on **Properties**. Click on the **Shortcut** tab for a program shortcut, then click on the **Advanced** button. Check the **Run as an administrator** box, and then click **OK**.

Current Session Only Administrator Access

• Right click on the program shortcut or program .exe file, and click on **Run as administrator**.

Installing NetConfig

NetConfig can be purchased as a separate option, or it may be bundled with individual Grass Valley product software. If bundled, refer to the software installation instructions provided with that Grass Valley product (typically a *Software Release Note* or *Instruction Manual*).

CAUTION After NetConfig installation, do not delete any files under the directory where the NetConfig tool resides. This may lead to abnormal behavior of the tool.

Plug-In Licensing

Some NetConfig plug-ins for specific products employ a licensing key mechanism. Each license key is associated with a particular PC, and separate keys will need to be purchased for each NetConfig computer installation that will employ that plug-in. The licensing keys only apply to plug-in functionality. The NetConfig application itself can be installed onto any computer and its basic functionality will be fully operational.

NetConfig Versions



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

The NetConfig installer replaces any older version of NetConfig that may already reside on your PC. You do not need to uninstall any older versions first. A version checking mechanism has been implemented that prevents overwriting newer NetConfig software with an older version.

Note Always select the NetConfig check box when installing bundled software to get the latest version of NetConfig, which may be required to support necessary plug-ins.

NetConfig Installation Procedure

- **Note** Bundled versions of NetConfig may have different installation screens. A menu with check boxes may be displayed that allows you to choose which components to install. Refer to the documentation provided with that product for specific installation instructions.
- 1. Insert the NetConfig CD-ROM into the CD drive in your networked PC. The setup application should autorun when inserted. If not, locate the Setup.EXE file on the CD and double-click on it to start the installation. The Welcome screen is displayed (Figure 2).

Figure 2. Installation Welcome Screen

NetConfig	×
G	Welcome to NetConfig Setup program. This program will install NetConfig on your computer. It is strongly recommended that you exit all Windows programs before running this Setup Program. Click Cancel to quit Setup and close any programs you have running. Click Next to continue with the Setup program. WARNING: This program is protected by copyright law and international treaties. Unauthorized reproduction or distribution of this program, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under law.
	<u>N</u> ext > Cancel

2. Click Next >. The License Agreement screen is displayed (Figure 3).

Figure 3. License Agreement Screen

NetConfig	×
Software License Agreement	
Please read the following license agreement.	
GRASS VALLEY, INC. SOFTWARE END USER LICENSE AGREEMENT THE ENCLOSED MATERIALS ARE PROTECTED BY COPYRIGHT LAW AND ARE FURNISHED SUBJECT TI THE TERMS AND CONDITIONS OF THIS AGREEMENT. RETENTION OF THE MATERIAL: MORE WHAN THIRTY DAYS, OPENING THE SEALED MEDIA PACKAGE, IF ANY, SURROUNDING THE MATERIALS, OR USE OF THE MATERIALS IN ANY MANNER WILL CONSIDERED ACCEPTANCEOF THE TERMS OF THIS AGREEMENT. IF THESE TERMS A NOT ACCEPTABLE, PROMPTLY RETURN THE UNOPENED MEDIA PACKAGE AND THE ACCOMPANYING MATERIALS TO GRASS VALLEY, INC., OR AN AUTHORIZED RESELLED FOR A FULL REFUND OF THE LICENSE FEE PAID.	BE RE
I Agree	
C I Disagree	
< <u>B</u> ack	1

3. Read the license agreement and click on the **I Agree** radio button, then the **Next** > button to continue. (Pressing the **I Disagree** button will halt the install.) If NetConfig has not previously been installed, a Destination screen appears allowing you to choose a folder location (Figure 4).

Figure 4. Installation Destination Location

letConfig	
NetConfig Destination	G
NetConfig destination directory information:	
Setup will install NetConfig in the following folder.	
To install into a different folder, click Browse, and s	select another folder.
You can choose not to install NetConfig by clicking	g Cancel to exit Setup.
C Destination Folder	
C:\PROGRA~1\GRASSV~1\NETCON~1	Browse
-	
	< <u>B</u> ack <u>Next</u> > Cancel

- If an older version of NetConfig already exists on the PC, you will not be allowed to choose a different location. This prevents installing multiple versions of NetConfig on the same PC. The screen displayed indicates the existing NetConfig application will be overwritten (Figure 5).
- Figure 5. Installation Destination of Previous Installation



Note If a newer version of NetConfig already exists at the installation destination, a message will be displayed that prevents you from overwriting the newer version with the older version. If this occurs when using a product software CD, unselect NetConfig and install only the product specific files. You will not need to re-install NetConfig since a newer version is already present.

4. Selecting the default destination (as shown in Figure 4 on page 13) is recommended. Alternatively you can use the **Browse** button to select another folder. When finished, select the **Next** > button. The Shortcut screen appears (Figure 6).

Figure 6. Install Shortcut Message

Config	
Create Shortcuts on Desktop?	G
Would you like to create shortcuts on your desktop?	
☞ Yes	
C No	
<u> </u>	> Cancel

Choose whether or not you wish to install a NetConfig shortcut on the desktop and then select the Next > button (Figure 6). The Start screen appears The Start screen appears(Figure 7),

Figure 7. Installation Start Screen

NetConfig			×
Start Installation			G
You are now ready to install NetConfig.			
Press the Next button to begin the installation or information.	the Back butt	on to reenter the ins	tallation
	< <u>B</u> ack	Next >	Cancel

6. Select the **Next** > button to begin the installation. The Installing progress screen will be displayed (Figure 8).

Figure 8. Installation Progress Screen

NetConfig				X
Installing				G
	Ð	(
Skipping file: C:\PROGRA~1\GRASSV~1\N	ETCON~1\msvcr7	'1.dll		
All Files				
Time Remaining 0 minutes 0 se	conds			
Wise Installation Wizard®				
		< Back	Next >	Cancel

7. Once installation is completed and successful, a Finish screen will be displayed (Figure 9).

Figure 9. Installation Finish Screen



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

NetConfig Shortcut



A shortcut to NetConfig will be automatically installed on the PC desktop if that option was chosen. The NetConfig shortcut icon is illustrated at left.

NetConfig PC Configuration with Two NICs

If NetConfig does not discover the devices you expect to see on a PC which has two or more Network Interface Cards (NICs), this may indicate you need to change the setting of the default gateway for the PC.

NetConfig sends broadcast messages to discover devices on the network which are then displayed in the IP and Device views. Broadcast messages are sent via the NIC which has the default gateway assigned to it. If the devices you are expecting to see are on the LAN attached to another NIC, then you must make that NIC the primary NIC for the PC, so that it's gateway address is used as the default gateway for the PC.

If you have two or more NICs, use one of the following two methods to assign the default gateway.

Setting Default Gateway

Method 1 - 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 10).

Figure 10. Setting Default Gateway



3. Select the Adapters and Bindings tab (Figure 11).

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 11. Adapters and Bindings Tab



Method 2 - Disable and Re-Enable 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 12.





Figure 12. Initial NetConfig Main Screen, No Devices Present

The **Discover** button is used to detect devices on the network, and the three **View** buttons determine how the devices are shown on the screen.

When devices are detected and a view is selected, 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 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 13).



Figure 13. NetConfig Main Screen, IP View With Device Web Page Displayed

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

Three different network views (IP, Device, and Facility) are available with NetConfig. Any one or all of the views can be enabled by selecting that view button in the toolbar at the top of the NetConfig window (Figure 12 on page 18). When selected the views will appear in the left window. These views can be expanded or collapsed by clicking on the box to the left of each view.

Figure 14. NetConfig Views, Collapsed



The names of all devices connected to the network and their current IP addresses are listed by IP address under **IP View**. The root of the IP view displays the name and IP address of the local computer running NetConfig. Select the **IP View** button or the IP View selection in the View pulldown menu. Expand the view to see the devices (see Figure 14 on page 19).

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** button or the Device View selection in the View pulldown menu. The Device view does not display the IP addresses of the devices.

Figure 15. 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** button or the Facility View selection in the View pulldown menu. Refer to *Using The Facility View* on page 25 for more information on setting up the Facility view.

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 16 on page 21).

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.
- Gray icons indicate devices with unknown statuses.

In the example shown in Figure 16, a 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. Also in the figure Fred's Acappella frame is not communicating (perhaps its Ethernet cable is unplugged). The screen therefore indicates a failure for the frame, but its boards may still be passing signals so their status is unknown.

Figure 16. Device Status and Context Menu Example



Copy Function

Use the Copy function in the context menu shown in Figure 16 to copy a device and paste it to the Facility View.

Identifying A Device

You can also identify a device on the network using the context menu opened by right clicking on a device. Clicking on **Identify Device** (Figure 16 on page 21) will blink board LEDs or control panel buttons of that device for a defined period of time (see *Device Identification* on page 38). This can be very helpful when multiple devices reside in the same equipment rack, and at large facilities where devices may reside at different locations.

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 17.

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 27 for more information.

48B_207				×
Device Properties				
Device Name:	48B 207			
Slot:	00			
Device Description:	Router\Encore\Panel\48B\48B_2)7		·
System Description:				
Facility Description:				
Location	none			
IP Address:	192.168.1.207	Subnet Mask:	255.255.255.0	
Gateway Address:	192.168.1.1	MAC Address:	00-80-09-01-50-C4	
Server1:	192.168.1.1	Server2:	192.168.1.2	
Device Class ID:	1683832024	SW Application:	cpclientE66_APP	
Asset Tag:	none	SW Revision:	V1.8.0a13	
Part Number:		SW Date:	Jul 07 2010 10:03:00	
Serial Number:		Hw Revision:		
Features:	Change IP address: Y Update	Software: Y W	eb Pages: Y	
Status:	Online			

Figure 17. 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 18 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.

Grass Valley - Network Configuration Tool			<u>_ X</u>
Configure View About			
Construction C	Eacility View Inventory Magn	🖇 🕚 🖓	ut Befresh
URL http://10.16.21.52/INDEX.HTM			
		Acap 52 Router S	tatus 🔿 👘 🗎
🕀 🖷 😑 Gils bay 2 #2-[10.16.18.68]	Status		
🕀 🖷 🕒 Gils bay 2 #3-[10.16.18.59]	Status	Model: A1616V-	AA-L
🗄 🖷 💿 Gils bay 2 #4-[10.16.18.227]	System Config	Description: 16x16x2	Analog Video-Audio w/Local Panel
Matt W Gecko Frame-[10.16.18.91]	<u>oyotonn oonnig</u>	Location:	· · · · · · · · · · · · · · · · · · ·
	Network Config	Location.	
Matt W GeckoFlex-[10.16.18.233]		Serial Number:	prototype
. +	Remote Config	Matrix PCB Number:	prototype
48818486-[192,168,1,174]		Firmware Versions:	
Acap. 52-[10.16.21.52]	Reference Config	Timule Versions.	Medic Ref Matrices
Acap 54-[10.16.21.54]			Maulces
. Acap_55-[10.16.21.55]	Factory Default		001 005 001
	Poutor Applications	Software Version	V3 2 4b1 - Apr 23 2010 17:57:00
🗄 🗣 Acap_58-[10.16.21.58]	Router Applications	Configuration Version	· 1/2.2.2
🗄 🖷 🗢 AcapGil-[10.16.18.231]	Maintenance	Configuration version	. V 3.2.3
 AcpFoam1-[192.168.2.57] 		Boot Version:	1.0.0 - 52/2 acap
• A-RF Newton Pnl-[10.16.18.70]		Asset Tag:	None
AUR-CONF1-[10.16.16.83]		-	_
• AUR-EDITI-[10.16.16.00]		_ / //	
• Aur-Elici-[10.16.16.84]		Router Crosspoint S	Status
• Aur-K2-Client1-[10.16.16.85]		Logond: Logal	Pomoto
• AUR-K2-SERVER1-[10.16.16.81]		Legend. Local	Kemote
AUR-K2-SERVER1-[192.168.7.81]		Lock	
AUR-MEDIAFRAME-[10.16.16.87]		/Protect	
🗄 – 🕒 Bay3 Rack Frame-1-[10.16.18.185]			
🖶 🖷 🗢 Bay3 Rack Frame-10-[10.16.18.143]		Destination	
Bay3 Rack Frame-2-[10.16.18.187]		Analog	Video Analog Audio
		DST1 SRC	C 3 SRC 3
Bay3 Rack Frame-6-[10.16.18.105]		DST2 SRC	C3 SRC 3
		DOIL ONC	

Figure 18. Product Web Access Configuration

The default NetConfig web page (Figure 12 on page 18) 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, or
- Any branch which has no devices.

If, in the Facility View, you click on a device which doesn't have an associated link, a no link notice will appear in the web browser (Figure 19).

Figure 19. Default NetConfig Web Page with No Link Notice



Web Address (URL) Field

You can use the web address field in the toolbar (Figure 20) to navigate to other web links.

Figure 20. Web Address (URL) Field

URL

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.

About (NetConfig)



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

Refresh Browser



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

•

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 21.

Figure 21. 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 22), 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.



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.

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.

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.

Note 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 23) which appears use the **Browse** button to navigate to, and select the HTML

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.

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

page, GIF file, or JPEG file you want to associate with the branch selected in the Facility View.

Figure 23. Node Link Dialog

Fa	acility View Properties	×						
	Node Link							
	Enter a URL or local filename to be invoked when the node is clicked on							
	Link node to :							
	URL Enable Health Check (ping)							
	C Local File Browse							
	OK. Cancel							

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.

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.

Inventory Function



Selecting the **Inventory** button 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 button 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 of the device (frame address if a module), and, if applicable, Subnet Mask, Gateway, and EN2 IP data.
- 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.
- Part # and Serial # (if supported by that device).;
- Hardware and Software Revisions.
- MAC address.

Figure 24. Inventory Function

Configure Year About Refresh Discover Set IP Load SW IP Vew Facility Vew Twentory About Refresh URL Improvement Vertex Ver	*	Grass Valley - Network Configuration Tool																	
Q IV Load SW IV Decover View Fear Part IV IV Part Part Part </th <th><u>C</u></th> <th colspan="7">nfigure View About</th>	<u>C</u>	nfigure View About																	
URL P Export to Excel Export as CSV Update Asset Info Name IP address Submet Mask Gateway ad EN2 Submet Stot Class Type Asset Tag Location Part # Serial # HW Rev SW Rev MAC address Yn 010 192.166.1.10 255.255.255.0 192.166.1.1 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 <td< th=""><th></th><th colspan="9">Q IP P F III III IIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII</th></td<>		Q IP P F III III IIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII																	
Export to Excel Export to	U	URL V																	
Name IP address Studnet Mask Gateway ad. EN2 Pad. EN2 Database. Type Asset Top Location Part # Serial # HW Rev SW Rev MAC address A YY, D10 192:1681.10 255:255:550 192:1681.11 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.	Í	Export to Excel	Export as CS	V Upda	ite Asset Info]													
Xy_010 192:168.1.10 255:255.255.0 192:168.1.1 0.0.0 0.0.0 0.0.0 0 Router Panel YY 0 Router Panel VI.7.3 00-80-09-09-07-3C PMB_110 255:255.255.0 192:168.1.10 255:255.255.0 192:168.1.1 0.0.0.0 0.0.0.0 0.0.0.0 0 Router Panel MB GV01559A1 Bey-4:Rad-2 VI.7.3 00-80-09-00-45-7A CM1055000641 192:168.1.12 255:255.255.0 192:168.1.1 0.0.0.0 0.0.0.0 0.0.0.0 0 Router Matrix M 3.1.0.r 00-01-95-02-13-0C 488.19466 192:168.1.17 255:255.255.0 192:168.1.1 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0	Ш	Name	IP address	Subnet Mask	Gateway ad	EN2 IP ad	EN2 Subnet	EN2 Gatewa	Slot	Class	Туре	Asset Tag	Location	Part #	Serial #	HW Rev	SW Rev	MAC address	
PMB_110 192:168.1.10 255:255.255.0 92:168.1.1 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 </td <th>Ш</th> <td>XY_010</td> <td>192.168.1.10</td> <td>255.255.255.0</td> <td>192.168.1.1</td> <td>0.0.0.0</td> <td>0.0.0.0</td> <td>0.0.0.0</td> <td>0</td> <td>Router Panel</td> <td>XY</td> <td>0</td> <td>Router Panel</td> <td></td> <td></td> <td></td> <td>¥1.7.3</td> <td>00-80-09-00-49-77</td> <td></td>	Ш	XY_010	192.168.1.10	255.255.255.0	192.168.1.1	0.0.0.0	0.0.0.0	0.0.0.0	0	Router Panel	XY	0	Router Panel				¥1.7.3	00-80-09-00-49-77	
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48819466 192.168.1.17 255.255.255.0 192.168.1.1 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 <t< td=""><th>ш</th><td>CM105000642</td><td>192.168.1.121</td><td>255.255.255.0</td><td>192.168.1.1</td><td>0.0.0.0</td><td>0.0.0.0</td><td>0.0.0.0</td><td>0</td><td>Router Matrix</td><td></td><td></td><td></td><td></td><td></td><td>M</td><td>3.1.0.r</td><td>00-01-95-D2-13-CE</td><td></td></t<>	ш	CM105000642	192.168.1.121	255.255.255.0	192.168.1.1	0.0.0.0	0.0.0.0	0.0.0.0	0	Router Matrix						M	3.1.0.r	00-01-95-D2-13-CE	
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AppR-besing 192:168.2.57 255:255.255.0 192:168.2.19 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0	ш	48B_207	192.168.1.207	255.255.255.0	192.168.1.1	0.0.0.0	0.0.0.0	0.0.0.0	0	Router Panel	48B	none	none				¥1.8.0a13	00-80-09-01-50-C4	
ALR-2-SERVER1 192.168.7.81 255.255.255.0 0.0.0 10.16.16.0 255.255.25 0.0.0 10.16.16.0 255.255.25 0.0.0 10.16.16.0 255.255.25 0.0.0 0.0.14.3OC Pacter Panel K25urmt Dumm. 10.10.18 00-114-3OC 552.25 CipOtrot20 192.166.7.105 255.255.255.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0	ш	AcpFoam1	192.168.2.57	255.255.255.0	192.168.2.119	0.0.0.0	0.0.0.0	0.0.0.0	0	Router Matrix	Router	AST-4		7610	none		V3.2.4b1	00-80-09-00-83-48	
ClapStore120 192:168.71.29 255:255.255.05 00.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00 0.0.00<	ш	AUR-K2-SERVER1	192.168.7.81	255.255.255.0	0.0.0.0	10.16.16.81	255.255.248.0	10.16.16.1	0	Router Panel	K2Server			Dumm	NotIm	Dum	1.1.0.188	00-11-43-DC-5B-26	
CrPRb1 192:168:100.5 255:255.255.0 192:168:100.1 0.0.0.0 0.0.0.0 0.0.0 0.0.0 Router Matrix MtrxC Core Port CRS1 Interop Lab V1.7.6 00-80-90-10-2C-7 128:x32 Port 192:168:100.5 0.0.0.0 0.0.0.0 0.0.0.0 1.0 ther Board Core Port CRS1 Interop Lab V1.7.6 00-80-90-10-2C-7 128:x32 Port 192:168:100.5 0.0.0.0 0.0.0.0 0.0.0.0 2.0 ther Board Core Port CRS1 Interop Lab V1.7.6 00-80-90-10-2C-7 128:x32 Port 192:168:100.5 0.0.0.0 0.0.0.0 0.0.0.0 2.0 ther Board Core Port CRS1 Interop Lab V1.7.6 00-80-90-10-2C-7 128:x32 Port 192:168:100.5 0.0.0.0 0.0.0.0 0.0.0.0 2.0 ther Board Core Port CRS1 Interop Lab V1.7.6 00-80-90-10-2C-7 128:x32 Port 192:168:100.6 225:255.0 192:166:100.1 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 V1.7.6 00-80-90-10-2C-7 GrPRN2 192:16	ш	ClipStore120	192.168.7.129	255.255.255.0	0.0.0.0	0.0.0.0	0.0.0.0	0.0.0.0	0	Router Panel	K25ummit			Dumm	00102	Dum	1.1.0.188	00-B0-09-01-E4-1E	
128x32 Port 192:168:100.5 0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 1.0.0.0 1.0.0.0 1.0.0.0 1.0.0.0 1.0.0.0 1.0.0.0 1.0.0.0 1.0.0.0 1.0.0.0 1.0.0.0 1.0.0.0 1.0.0.0 1.0.0.0 1.0.0.0 1.0.0.0 1.0.0.0 1.0.0.0 1.0.0.0 1.0.0.0 1.0.0.0 1.0.0.0 1.0.0.0 1.0.0.0 1.0.0.0 1.0.0.0 1.0.0.0 1.0.0.0 1.0.0.0 1.0.0.0 1.0.0.0 1.0.0.0 1.0.0.0 1.0.0.0 1.0.0.0 1.0.0.0 1.0.0.0 1.0.0.0 1.0.0.0 1.0.0.0 1.0.0.0 1.0.0.0 1.0.0.0 1.0.0.0 1.0.0.0 1.0.0.0 1.0.0.0 1.0.0.0 1.0.0.0 1.0.0.0 1.0.0.0 1.0.0.0 1.0.0.0 1.0.0.0 1.0.0.0 1.0.0.0 1.0.0.0 1.0.0.0 1.0.0.0 1.0.0.0 1.0.0.0 1.0.0.0.0 1.0.0.0 1.0.0.0.0 1.0.0.0.0 1.0.0.0.0 1.0.0.0.0 1.0.0.0.0 1.0.0.0.0 1.0.0.0.0 1.0.0.0.0 1.0.0.0.0 1.0.0.0.0.0 1.0.0.0.0 1.0.0.0.0 <th>ш</th> <td>CrPrRtr1</td> <td>192.168.100.5</td> <td>255.255.255.0</td> <td>192.168.100.1</td> <td>0.0.0.0</td> <td>0.0.0.0</td> <td>0.0.0.0</td> <td>0</td> <td>Router Matrix</td> <td>MtrxC</td> <td>Core Port CRS1</td> <td>Interop Lab</td> <td></td> <td></td> <td></td> <td>¥1.7.6</td> <td>00-B0-09-01-02-C7</td> <td></td>	ш	CrPrRtr1	192.168.100.5	255.255.255.0	192.168.100.1	0.0.0.0	0.0.0.0	0.0.0.0	0	Router Matrix	MtrxC	Core Port CRS1	Interop Lab				¥1.7.6	00-B0-09-01-02-C7	
128x32 Port 192.168.100.5 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 2.00.0 2.00.0 Core Port CRS1 Interop Lab V1.7.6 00-80-90-102-C7 128x32 Port 192.168.100.5 0.0.0.0 0.0.0.0 0.0.0.0 3.00.0 Core Port CRS1 Interop Lab V1.7.6 00-80-90-102-C7 CPRNz2 192.168.100.6 255.255.255.255.0 192.168.100.1 0.0.0.0 0.0.0.0 Router Matrix MtrxC Core Port CRS1 Interop Lab V1.7.6 00-80-90-102-C7	ш	128x32 Port	192.168.100.5	0.0.0.0	0.0.0.0	0.0.0.0	0.0.0.0	0.0.0.0	1	Other	Board	Core Port CRS1	Interop Lab				¥1.7.6	00-B0-09-01-02-C7	
128x32 Port 192.168.100.5 0.0.0 0.0.0 0.0.0 0.0.0 3 Other Board Core Port CRS1 Interop Lab V1.7.6 00-80-09-01-02-C7 C/PrRt2 192.168.100.6 255.255.255.255.0 192.168.100.1 0.0.0.0 0.0.0.0 0 Router Matrix MtrxC Core Port CRS1 Interop Lab V1.7.6 00-80-09-01-02-C7	ш	128x32 Port	192.168.100.5	0.0.0.0	0.0.0.0	0.0.0.0	0.0.0.0	0.0.0.0	2	Other	Board	Core Port CRS1	Interop Lab				¥1.7.6	00-80-09-01-02-C7	
GPrRtr2 192.168.100.6 255.255.255.0 192.168.100.1 0.0.0.0 0.0.0.0 0.0.0.0 0 Router Matrix MtrxC Core Port CR5 2 Interop Lab V1.7.6 00-80-09-01-02-C6 🚽		128x32 Port	192.168.100.5	0.0.0.0	0.0.0.0	0.0.0.0	0.0.0.0	0.0.0.0	3	Other	Board	Core Port CRS1	Interop Lab				¥1.7.6	00-B0-09-01-02-C7	
	ш	CrPrRtr2	192.168.100.6	255.255.255.0	192.168.100.1	0.0.0.0	0.0.0.0	0.0.0.0	0	Router Matrix	MtrxC	Core Port CRS 2	Interop Lab				¥1.7.6	00-B0-09-01-02-C6	- 1
		I CaroPlut	102 160 100 10	200 200 200 A	102 120 100 1	0000	0000	0000	0	Doutor Matrix							201	00.01.0E.D2.04.E2	-
	11 De	n dha																	

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 25. 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 25. Update Asset Info Screen

Update Asset Info	×
Device Name	8964ENC
Asset Tag	I
Device Location	Bay 9 QA 8900 Frame
Update Status	
S	end to Device Cancel

Export to Excel

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 26.

0	Book2 [Compatibility Mode] - Microsoft Excel - 🗆 🗙								
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Pi	Calibri 11 aste booard 5 Font		■ <mark>■</mark> ≫~ ■ ■ ≇ ≇ Alignment	General S - % s Number	*.00 *.00 Formation	itional Format Ce atting * as Table * Style Styles	insert → Σ → insert → Delete → insort → Delete → Cells	Sort & Filter	k Find & Select *
	A1 👻 💿	fx Device Na	me						*
	А	В	С	D	E	F	G	Н	
1	Device Name	IP Address	Subnet Mask	Gateway Address	EN2 IP Address	EN2 Subnet Mask	EN2 Gateway Address	Slot	Class
2	XY_010	192.168.1.10	255.255.255.0	192.168.1.1	0.0.0.0	0.0.00	0.0.0	0	Router
3	PMB_110	192.168.1.110	255.255.255.0	192.168.1.1	0.0.0.0	0.0.00	0.0.0.0	0	Router
4	CM105000641	192.168.1.120	255.255.255.0	192.168.1.1	0.0.0.0	0.0.00	0.0.0.0	0	Router
5	CM105000642	192.168.1.121	255.255.255.0	192.168.1.1	0.0.0.0	0.0.0.0	0.0.0	0	Router
6	48B1B4R6	192.168.1.174	255.255.255.0	192.168.1.1	0.0.0.0	0.0.00	0.0.0.0	0	Router
7	48B_207	192.168.1.207	255.255.255.0	192.168.1.1	0.0.0.0	0.0.00	0.0.0	0	Router
8	AUR-K2-SERVER1	192.168.7.81	255.255.255.0	0.0.0	10.16.16.81	255.255.248.0	10.16.16.1	0	Router
9	CrPrRtr1	192.168.100.5	255.255.255.0	192.168.100.1	0.0.0.0	0.0.0.0	0.0.0.0	0	Router
10	128x32 Port	192.168.100.5	0.0.0.0	0.0.0	0.0.0.0	0.0.00	0.0.0	1	Other
11	128x32 Port	192.168.100.5	0.0.0	0.0.0	0.0.0.0	0.0.00	0.0.0.0	2	Other
12	128x32 Port	192.168.100.5	0.0.0.0	0.0.0	0.0.0.0	0.0.00	0.0.0	3	Other
13	CrPrRtr2	192.168.100.6	255.255.255.0	192.168.100.1	0.0.00	0.0.0.0	0.0.0	0	Router
14	CoreBlx1	192.168.100.10	255.255.255.0	192.168.100.1	0.0.0.0	0.0.00	0.0.0	0	Router
15	Core_XY	192.168.100.49	255.255.255.0	192.168.100.1	0.0.0.0	0.0.00	0.0.0.0	0	Router 🖕
14 -	H + > H Sheet1 / Sheet2 / Sheet3 / 2 /								
Rea	Ready 🔲 🔲 100% 😑 🔍 🕂 ,;;								

Figure 26. Export To Excel Example

Export as CVS

You can also generate a Comma Separated Variable (CSV) file, suitable for import into any spreadsheet program, with the Export as CVS button. A dialog box opens allowing you to name and choose the file save location.

Keystroke Shortcuts

The following keystroke shortcuts are available

- CTRL-C copy ٠
- CTRL-X cut
- CTRL-V paste ٠
- CTRL-E expand •
- CTRL-P properties ٠
- CTRL-I or INS key insert (Facility View) •
- CTRL-D or DEL key delete (Facility View) •

Configuring Devices Using NetConfig

Use the commands on the Configure menu pulldown (Figure 27) or their corresponding buttons in the toolbar to display IP addresses and other network-related information, update device software, or modify Net-Config options.



Figure 27. Configure Pulldown

Setting IP Addresses



1. Use the **Device IP Addresses** command on the **Configure** menu pulldown, or the corresponding **Set IP** button in the toolbar to view or change IP addresses for any NetConfig compliant devices on your network. The Change IP Addresses window (Figure 28) will open.

Figure 28. Ch	ange IP Addr	esses Window
---------------	--------------	--------------

Select Device Type -					
	All Devices		_		
Туре	Name	IP Address	MAC Address	Subnet Mask	Gateway 🔺
Router Panel	XY_010	192.168.1.10	00-B0-09-00-49-77	255.255.255.0	192.168.1.
Router Panel	PMB_110	192.168.1.110	00-B0-09-00-45-BA	255.255.255.0	192.168.1.
🗌 Router Matrix	CM105000641	192.168.1.120	00-01-95-D2-13-DE	255.255.255.0	192.168.1.
Router Matrix	CM105000642	192.168.1.121	00-01-95-D2-13-CE	255.255.255.0	192.168.1.
🗖 Router Panel	48B1B4R6	192.168.1.174	00-B0-09-01-50-C1	255.255.255.0	192.168.1.
🗖 Router Panel	48B_207	192.168.1.207	00-B0-09-01-50-C4	255.255.255.0	192.168.1.
🗖 Router Panel	AUR-K2-SERVER1	192.168.7.81	00-11-43-DC-5B-26	255.255.255.0	0.0.0.0
🗖 Router Matrix	CrPrRtr1	192.168.100.5	00-B0-09-01-02-C7	255,255,255,0	192.168.10
🗖 Router Matrix	CrPrRtr2	192.168.100.6	00-B0-09-01-02-C6	255.255.255.0	192.168.10
🗖 Router Matrix	CoreBlx1	192.168.100.10	00-01-95-D2-06-F2	255.255.255.0	192.168.10
Router Panel	Core_XY	192.168.100.49	00-B0-09-00-48-0D	255.255.255.0	192.168.10
I Dentes Denel	CDMD1	100 1/0 100 50	00.00.00.00 (0.55		100 100 10
Edit	Apply Changes	<u>R</u> e-Discover	<u>S</u> tatus Refr	esh	⊆lose

• Scrolling the inner window to the right reveals additional information (Server 1 and 2, if applicable) and an Online field (Figure 29).

Figure 29. Change IP Addresses Window, Scrolled Right

	All Device	is		-		
	,					
[m]]	[[1.5	
IP Address	MAC Address	Subnet Mask	Gateway	Server 1	Server 2	Online?
192.168.1.10	00-B0-09-00-49-77	255.255.255.0	192.168.1.1	0.0.0.0	0.0.0.0	NO -
192.168.1.110	00-B0-09-00-45-BA	255.255.255.0	192.168.1.1	0.0.0.0	0.0.0.0	NO
192.168.1.120	00-01-95-D2-13-DE	255.255.255.0	192.168.1.1	0.0.0.0	0.0.0.0	NO
192.168.1.121	00-01-95-D2-13-CE	255.255.255.0	192.168.1.1	0.0.0.0	0.0.0.0	NO
192.168.1.174	00-B0-09-01-50-C1	255.255.255.0	192.168.1.1	192.168.1.1	192.168.1.2	NO
192.168.1.207	00-B0-09-01-50-C4	255.255.255.0	192.168.1.1	192.168.1.1	192.168.1.2	NO
192.168.7.81	00-11-43-DC-5B-26	255.255.255.0	0.0.0.0	0.0.0.0	0.0.0.0	YES
192.168.100.5	00-B0-09-01-02-C7	255,255,255.0	192.168.100.1	0.0.0.0	0.0.0.0	YES
192.168.100.6	00-B0-09-01-02-C6	255.255.255.0	192.168.100.1	0.0.0.0	0.0.0.0	YES
192.168.100.10	00-01-95-D2-06-F2	255.255.255.0	192.168.100.1	0.0.0.0	0.0.0.0	YES
192.168.100.49	00-B0-09-00-48-0D	255.255.255.0	192.168.100.1	0.0.0.0	0.0.0.0	YES
100 1/0 100 50	00 D0 00 00 40 FF		100.120.100.1			vec
Edit	Apply Chapges	l Pe-D	iscover	Statuc Defree	њ I	Close

2. If you wish, you can use the Select **Device Type** pulldown in this window to specify the kind of devices you want NetConfig to look for.

- You can also click on a column heading to sort the list by that column's data. Click on the heading again to sort the list in the opposite direction.
- Clicking the **Re-Discover** button at the bottom of the screen refreshes the contents of the list box dialog.
- **3.** Select the device on the list you wish to change by double-clicking its name, or highlight the device and select the **Edit** button to bring up the Change IP Address dialog box (Figure 30).

Figure 30. Change IP Address Dialog Box

Change IP Addresses		×
IP Address	192 . 168 . 1 . 10	
🔽 Subnet Mask	255 . 255 . 255 . 0	
🔽 Gateway	192 . 168 . 1 . 1	
🗖 Server 1		
Server 2		
Cancel	ОК	

The edit boxes in this frame display the IP address, Subnet Mask, Gateway, and Server 1 and 2 addresses corresponding to the item selected in the list box.

- **Note** Selecting multiple devices allows you to change the data for these devices to the same values in the selected fields. The last octet of each device's IP address is retained, however, to prevent duplicate IP addresses. This lets you, for example, move several devices to a different subnetwork with one action.
- **4.** Checking the boxes on the left activates the edit box and allows you to change the data.
- **5.** Click **OK** to enter the new values.

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

If you attempt to assign an IP Address that is already assigned to another device on the network, a warning message (Figure 31) will be displayed.

Figure 31. Duplicate IP Address Warning



6. If this is a valid IP address (not used by another device) a confirmation screen will come up (Figure 32).

Figure 32. IP Address Confirmation Screen

Select Device Type					
	All Devices		•		
Туре	Name	IP Address	MAC Address	Subnet Mask	Gateway 🔺
Router Panel	AUR-EDIT1	10.16.16.80	00-1E-4F-C7-EF-CF	255.255.250.0	10.16.16.1
Router Panel	AUR-K2-SERVER1	10.16.16.81	00-11-43-DC-5B-25	255.255.248.0	10.16.16.1
Router Panel	AUR-CONF1	10.16.16.83	00-22-19-81-30-79	255.255.248.0	10.16.16.1
Router Panel	aur-iep	10.16.16.84	00-06-5B-F8-5F-15	255.255.248.0	10.16.16.1
Router Panel	Aur-K2-Client1	10.16.16.85	00-30-48-2D-C5-5A	255.255.248.0	10.16.16.1
Router Panel	AUR-MEDIAFRAME	10.16.16.87	00-24-E8-5F-01-EB	255.255.248.0	10.16.16.1
Router Panel	Aur-Enc1	10.16.16.88	00-22-19-51-E2-35	255.255.248.0	10.16.16.1
Router Panel	core-config.am.thmulti.com	10.16.16.101	00-0B-DB-D0-F0-5B	255.255.248.0	10.16.16.1
8900 Frame	Interop-Test	10.16.16.143	08-00-11-09-89-89	255.255.248.0	10.16.16.1
8900 Frame	CORE-8900-A	10.16.16.144	00-80-09-00-06-84	255.255.248.0	10.16.16.1
8900 Frame	CORE-8900-B	10.16.16.145	08-00-11-09-8A-D5	255.255.248.0	10.16.16.1
1 0000 From 6	CODE 0000 C	10.12.12.142	00.00.00.00 (F FF	OFF OFF 040 0	
Edit	Apply Changes	<u>R</u> e-Discover	<u>S</u> tatus Refr	esh	⊆lose

- **7.** Click **Apply Changes** to send the modified/updated information to the clients. This enacts the changes to the device(s).
 - 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 the list box 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.

Note When the IP address of a Panel is changed manually, 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.

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. This can occur when new devices with factory default IP addresses are installed on the network (Figure 33).

Figure 33. Duplicate IP Address Message

NetConfig WARNIN	6
	Duplicate IP Address found: 192.168.1.173
	(OK)

To resolve the duplicate IP address, go to the Set IP window, ensure All Devices is selected, and sort the list by IP Address. The devices with duplicate IPs will be listed together. Choose one to change, and give it a unique IP address, using the standard IP address configuration procedure described earlier.

Loading Device Software

Follow these procedures to update existing devices with the latest 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 Load Software on the Configure menu or click the Load SW button in the toolbar.
- **3.** In the dialog box that appears, a hierarchy of folders can be opened for different products. Navigate to the proper folder and 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. NetConfig displays only the device software that has been loaded on this computer (see *Device Software Load Background Information* on page 9).

Figure 34. Update Devices Dialog

Select devices to load:	Client Name Version IP Address Subsystem Online?
Re-Boot when complete	Load Select All Refresh Close

- **4.** 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. In the right pane, check the boxes of all the devices you want to update.
- **Note** We strongly suggest updating all devices of the same type with the same software version. To make that easier, you can use the **Select All** button.

Figure 35. Update Devices Dialog

Select devices to load:			
⊡- Routers	Client Name	Vers IP Address	Subsystem Onlin 🔺
	MobCLN	V1.7.3 192.168.1.109	YES
Controller (V1.8.0)	MobUCP	V1.7.3 192.168.1.108	YES
Harrices Panels (V1.8.0)	MobPMB1	¥1.7.3 192.168.1.103	YES
	MobXY1	V1.7.3 192.168.1.104	YES
E. Pabicer	MobBPS1	V1.7.3 192.168.1.105	YES
	Mob48B1	V1.7.3 192.168.1.106	YES
			▼
✓ Re-Boot when complete	Load	Deselect All Refresh	⊆lose

5. Ensure the **Reboot when complete** box in the bottom left corner of the screen is checked.

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

Figure 36. Software Update Progress

Loading 192.168.103.139 (1 of 6)	X
Percentage transferred	
Percentage programmed	
Cancel All	el

When the software update is complete without error, the message shown in Figure 37 will appear.

Figure 37. Software Update Complete Message

NetConfi	g X
⚠	6 devices loaded successfully.
	ОК

- 7. Wait long enough for the devices to reboot, then click the **Refresh** button to 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** button in the toolbar to open the Configurations Options dialog box (Figure 38).

Figure 38. NetConfig Options Dialog

Configuration Options 🛛 🔀
Health Checker
Perform periodic health check
Interval: 100 milliseconds
- Device Identification
Duration 20 seconds
Tool Bar
Icon and Text C Icon only C Text Only
Views
Protocol 2 Devices : 113
Protocol 2 Subsystems: 177
Protocol 3 Devices : 24
Protocol 3 Subsystems: 0
Clear Views and Re-discover
<u> </u>

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 peri-

odic 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** button will become active.

Pressing the **Manual Ping** button 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.

Device Identification

This field sets the duration in seconds that the of LED or buttons of a device will blank when the Identify Device feature is used (see *Identifying A Device* on page 22).

Tool Bar Views

The three **Tool Bar** radio buttons (Figure 38 on page 37) 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 (Figure 39).

Figure 39). Icon	and	Text	Tool	Bar	View
1 12 11 0 00		*****	10000	1000	2	

🔀 Grass Valley - Network Configuration Tool											
Configure	View About										
Q,	₽	3	I	D	F.		7	•	1	?	G
Discover	Set IP	Load SW	IP View	Device View	Facility View	Inventory	Manual Ping	Options	Newton	About	Refresh
URL											

• Icon Only view – this view shows the NetConfig icons only (Figure 40).

Figure 40. Icon Only Tool Bar View

🐱 Grass Valley - Network Configuration Tool	
Configure View About	
 ♥ ♥ ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● 	•

• Text Only view – this view shows the NetConfig icons as text (Figure 41).

Figure 41. Text Only Tool Bar View

😻 Grass Va	alley - Netwo	rk Configura	tion Tool										
Configure	View About												
Discover	Set IP	Load SW	IP View	Device View	Facility View	Inventory	Manual Ping	Options	1	Newton	About	Refr	esh

Views

In the Views area of the NetConfig Configurations Options (Figure 38 on page 37) the numbers of devices detected on the network is dynamically reported.

Clicking 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 updates the views completely, unlike the **Discover** button which just adds any new devices discovered.

NetConfig Plug-Ins

NetConfig plug-ins exist that add product specific features to NetConfig. Plug-ins are installed using that product's software CD or downloaded files, not with the stand-alone NetConfig CD.

Figure 42 shows an example of NetConfig with two plug-ins installed (**Newton** and **Prelude**). Icons appear on the toolbar for these products that, when clicked upon, open screens with product specific features. Refer to the documentation provided with the product for information about these features.

Figure 42. NetConfig with Plug-Ins Installed



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