

# Newton

MODULAR CONTROL SYSTEM

## Release Notes

SOFTWARE VERSION 2.0.0

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*the most watched worldwide*

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## Grass Valley Web Site

The [www.thomsongrassvalley.com](http://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.

# *Newton Release Notes*

## **Introduction**

This document provides information on the latest software release for the Newton Modular Control System which includes the Newt-PC software and the Newt-RM Rack Mount Control Panels.

This document details:

- Enhancements in the version 2.0.0 update,
- Modular System Requirements,
- Acquiring and Updating Newton v2.0.0 and NetConfig v2.0.4 Software,
- Enabling the Newt-Route Option, and
- Accessing Reference Documents.

## **Version 2.0.0 Software Release**

The latest software release for the Newton Modular Control System offers the following enhancement:

- Enables the Newt-Route option for Newton control panel router interface functionality with Grass Valley routing systems.

## Newton Router Interface Option

Version 2.0.0 software for the Newton Modular Control System enables new functionality that allows NewtonPC and NewtonRM control panels to interface to Grass Valley routing systems. The option can be ordered from your Grass Valley Sales representative (order NEWT-ROUTE). You must upgrade to Newton version 2.0.0 and NetConfig v 2.0.4 software first before the Newton Router Interface option can be installed and enabled.

Once v2.0.0 is installed, you must provide a specific Device ID number from the control panel to obtain a Software License Key to enable the option. All of these steps are described in these Release Notes.

### Overview

The Newton Router Interface option allows a Newton control panel to interface to Grass Valley routers with Native or RCL protocols to provide simple X-Y direct router control and module source chain control from the Newton panel. Module parameters in the router source chain can be controlled by a Newton Control Panel associated with a router destination. Newton can also be used to directly control a router for all level takes to specified destinations.

Both the rack mount and software control panels can operate with the optional Router interface. The **Route** and **Monitor** buttons and the Router LED become active on both panels when this option is enabled and a valid router connection is established. Soft keys can be configured to take router sources and to select Monitored Destinations on the router.

Complete details for installing, enabling, and using the option with Newton are provided in the Newton Modular Control System Instruction Manual that comes in PDF format when new software is installed.

### Router Interface Requirements

The Newton Router Interface option will operate with the following Thomson Grass Valley routing system protocols:

- Routers supporting RCL protocol
- Routers with Native Protocol and ethernet interface to system controllers

### Enabling the Router Option

The Newton Router Interface option comes bundled with the latest software and is installed at the same time as the Newton panel software. It must then be enabled by the user with a software License Key provided by Grass Valley based on the Device ID of the panel it will be running on.

After installing version 2.0.0 software, the Device ID from each panel must be obtained and given to Grass Valley Order Entry in order to generate the License Key. To obtain the Device ID, refer to the following page references for each panel type:

- Rack Mount Panel Device ID ([page 9](#))
- Newton PC Device ID ([page 11](#))

**Note** Each License Key is node-locked. It will only enable the router interface on the NewtonPC or rack mount panel whose Device ID was used to generate the License Key. For installations with multiple NewtonPC applications on multiple PCs or multiple rack mount panels, a License Key is required for each separate application.

## Modular System Requirements

For control panel remote control and monitoring capability of any 8900 or 2000 modules, the frames must be equipped with an 8900NET module or a 2000NET module with v3.2.0 software or later. Refer to Appendix B in the Newton Modular Control System Instruction Manual included in PDF format during the software installation for how to upgrade to the required version.

## Newton Software Updating

This section describes how to update an existing NewtonRM rack mount or NewtonPC software control panel to the latest software version.

### NewtonRM – Rack Mount Control Panel

The NewtonRM Rack Mount Control Panel software is updated by downloading a zip file from the Grass Valley Customer Service web site and installing it using the NetConfig Networking application.

The updated NetConfig application necessary for the router interface option is bundled with the NewtonRM software and will be installed at the same time in the main .exe file.

## Obtain and Install Rack Mount Software

To obtain the software update files required for the NewtonRM version 2.0.0, go to the following URL:

<http://gvg.custhelp.com>

This will take you to the Grass Valley Customer Service FAQ database. The information provided here is the most up-to-date. You may also subscribe to software updates through the FAQ site. This is recommended so that when new versions of software are released, you are notified by E-mail.

To download the Newton RM and latest NetConfig software, do the following:

1. Navigate to the FAQ site and click on the first FAQ, **DOWNLOAD THE LATEST SOFTWARE?**
2. Select the **2000** or **8900 Series** link.
3. Select the link to the Newton Remote version 2.0.0 software.
4. Select the Newt-rm.zip link and save it to your PC.
5. Extract the zipped file to access the unzipped files. You may create a CD with these files to load the application on a different PC or run the Newt-RM1-Setup.EXE to install the application on the host PC.
6. This install process will put the v2.0.0 NewtonRM file required into the NetConfig directory to allow updating NewtonRM software with NetConfig. It will also install the latest version of NetConfig required for this release of Newton software.

**Note** In addition, a PDF version of the Newton Control System Instruction Manual will be placed in the NewtonRM directory.

To update the NewtonRM software, do the following:

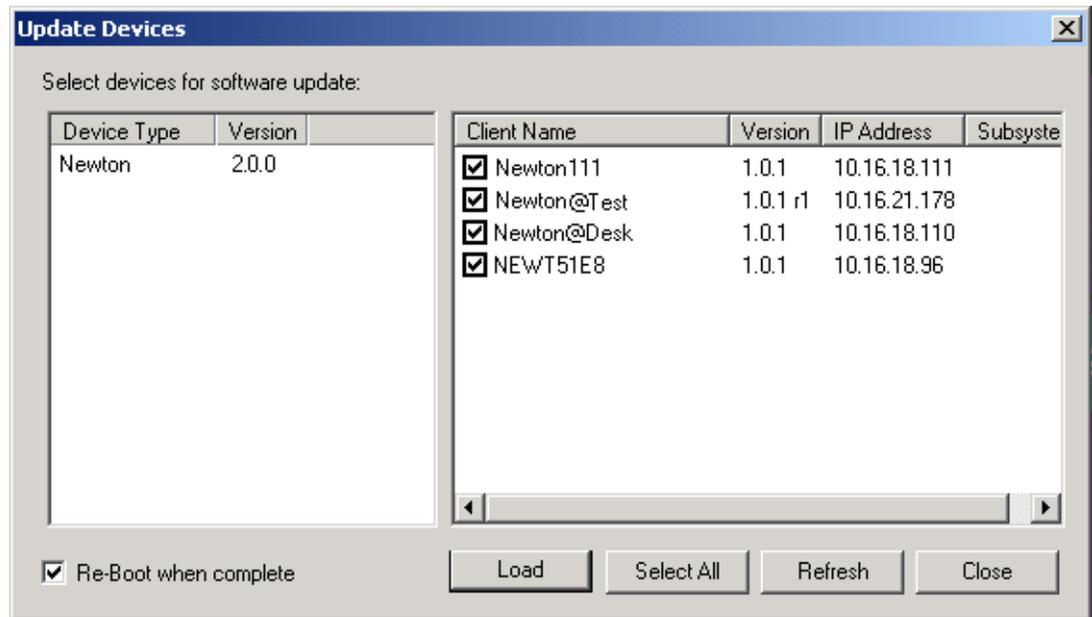


1. Open NetConfig from the desktop icon and select the Load SW icon in the top NetConfig toolbar.
2. The Update Devices window will come up as shown in [Figure 1 on page 7](#).

The latest version of NewtonRM rack mount panel software should appear in the Device Type list (2.0.0). Note that old versions may also be present along with other device types.

The Newton rack mount panels accessible on the NetConfig LAN will appear in the Client Name list along with the software version currently installed and the IP Addresses of each device.

Figure 1. NetConfig Update Devices Window



3. Highlight the Newton Device Type on the far left of the screen.
4. Check the box for the Newton rack mount panel to update in the Client Name list. You may update any or all devices. Use the **Select All** button to highlight all of the devices. An option must be purchased for each device you intend to use with the Newton Router Interface.
5. Check the **Re-Boot when complete** checkbox in the lower lefthand corner to have the panel(s) re-boot when the software update is complete.
6. Click the **Load** button to begin the update.
7. Once all downloads are complete, use the **Refresh** button to update the window and check that the version of software has been downloaded to each selected device successfully.
8. When finished, select the **Close** button.
9. This completes the software installation.

## Newt-PC – Software Control Panel

The NewtonPC Control Panel software is updated by downloading a zip file from the Grass Valley Customer Service web site.

### Obtain and Install NewtonPC Software

To obtain the software update files required for the Newton Router Interface option, go to the following URL:

<http://gvg.custhelp.com>

This will take you to the Grass Valley Customer Service FAQ database. The information provided here is the most up-to-date. You may also subscribe to software updates through the FAQ site. This is recommended so that when new versions of software are released, you are notified by E-mail.

To download the NewtonPC and latest NetConfig software, do the following:

1. Navigate to the FAQ site and click on the first FAQ, **DOWNLOAD THE LATEST SOFTWARE?**
2. Select the **2000** or **8900 Series** link.
3. Select the link to the NewtonPC version 2.0.0 software. You will find instructions on how to obtain the updated software.
4. Extract the zipped files. You may create a CD with these files to load the application on a different PC or run the Newt-PC1-Setup.EXE to install the application on the host PC.
5. This will install the latest version of NewtonPC and NetConfig required for this release of Newton software.

**Note** In addition, a PDF version of the Newton Control System Instruction Manual will be placed in the NewtonPC directory.

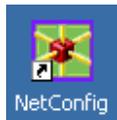
6. This completes the software update process.

## Enabling Newt-Route Option

If you have purchased or plan to purchase the Newt-Route option, you will need to acquire the Device ID for each NewtonPC and NewtonRM control panel on which you wish to enable the option. The Device ID given to Grass Valley is used to generate the specific License Key for each panel.

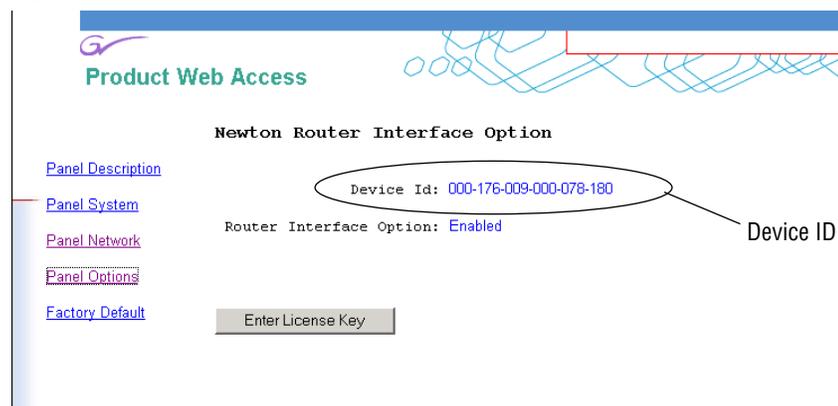
### NewtonRM – Obtain Device ID and Install License Key

To obtain the Device ID of a NewtonRM panel, do the following:



1. Double-click on the NetConfig icon and select the Device View.
2. Expand the Module View, then the Newton View to access the NewtonRM panels on the network.
3. Click on the Newton panel on which to enable the option. This will bring up the Newton Panel Description web page (not shown).
4. Select the **Panel Options** link on the left side of this web page.
5. This will bring up the Newton Router Interface Option web page (Figure 2).
6. Locate the Device ID of this panel (Figure 2) and record this number.
7. If you have not yet purchased the option, call Sales and when directed to Order Entry, give them the Device ID number. This will allow them to generate the License Key to enable the option based on the Device ID of this panel.
8. If you have already purchased the option and did not receive a License Key, call Grass Valley Customer Service or Sales and have them connect you with the proper channel to get your License Key.
9. Once you receive the License Key, select the **Enter License Key** button.

Figure 2. Newton Panel Options Web Page



10. In the Licensing Screen that comes up, enter the License Key code provided from Grass Valley in the blank field and press the **Submit** button (Figure 3).

Figure 3. Enter License Key



11. This should enable the option on this panel and change the Router Interface Option status shown in Figure 2 on page 9 to Enabled.
12. You will now need to configure this Newton panel to connect to a valid router connection.
13. Open the NewtonRM directory (installed by default in Program Files/Grass Valley Group/NewtonRM) on your PC to access the Newton Modular Control System Instruction Manual in PDF format (Newton.pdf) which is placed here during the software update.  

The latest Newton manual in pdf format is also available on the external Thomson Grass Valley web site. Refer to [Accessing Reference Documents](#) on page 14.
14. Go to Section 3 – Configuration and refer to page 63 in the manual for instructions on configuring the router interface. Once the configuration is complete, download it to the Newton panel to use the router interface.  

The manual describes the complete operation of the Newton Router Interface option.

## NewtonPC – Obtain Device ID and Install License Key

To obtain the Device ID of a NewtonPC panel, do the following:



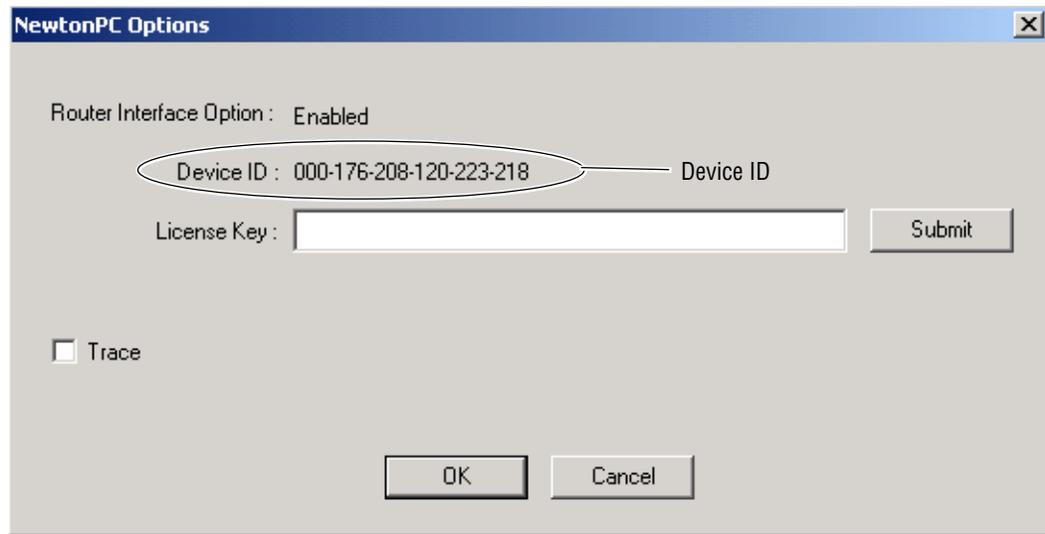
1. After updating Newton PC to v2.0.0, open the NewtonPC application by double-clicking on the NewtonPC icon to bring up the main application screen (Figure 4).
2. Right-click on the blue bar at the top of the application to bring up the pulldown menu.
3. Select the Options choice.

Figure 4. NewtonPC Router Interface Option Enable



4. Find and record the Device ID given on the NewtonPC Options screen (Figure 5).
5. If you have not yet purchased the option, call Grass Valley Sales and when directed to Order Entry, give them the Device ID number. This will allow them to generate the License Key to enable the option based on the Device ID of the PC on which NewtonPC is installed.
6. If you have already purchased the option and did not receive a License Key, call Grass Valley Customer Service and have them connect you with the proper channel to get your License Key.
7. Once you receive the License Key, enter the code you have been given and select the **Submit** button.

Figure 5. NewtonPC Options Screen



A confirmation message will appear if the License Key was accepted and the Router Interface Option will report **Enabled** on the NewtonPC Options screen (Figure 5).

If an invalid code was entered, the message shown in Figure 6 will appear.

Figure 6. Invalid License Key Entered



8. You will now need to configure the Newton panel to interface to a valid router connection.
9. Open the NewtonPC directory (installed by default in Program Files/Grass Valley Group/NewtonPC) on your PC to access the Newton Modular Control System Instruction Manual in PDF format (Newton.pdf) which is placed here during the software update.

The latest Newton manual in pdf format is also available on the external Thomson Grass Valley web site. Refer to [Accessing Reference Documents](#) on page 14.

10. Go to Section 3 – Configuration and refer to page 63 in the manual for instructions on configuring the router interface. Once the configuration is complete, download it to the Newton panel to enable the router interface controls shown in [Figure 7](#). These controls will not appear until a valid router connection is made.

The manual describes the complete operation of the Newton Router Interface option.

Figure 7. Router Interface Option Enabled



## Accessing Reference Documents

For on-line access to any of the reference documents referred to in these Release Notes, navigate to the following URL:

<http://www.thomsongrassvalley.com/docs>

Select the Broadcast Products link then the Modular Products link and scroll through the available documents to find the Newton Modular Control System documentation. All of the documents referred to may also be ordered in hard copy from any Grass Valley Sales or Customer Service source. Refer to *Contacting Grass Valley* at the front of this document.