

Trinix

Broadlinx Software



Release Notes

Software Version 3.1.0



Affiliate with the N.V. KEMA in The Netherlands



CERTIFICATE

Certificate Number: 510040.001

The Quality System of:

Thomson Inc, and it's worldwide Grass Valley division affiliates DBA GRASS VALLEY

Headquarters
400 Providence Mine Rd
Nevada City, CA 95959
United States

15655 SW Greystone Ct.
Beaverton, OR 97006
United States

10 Presidential Way
Suite 300
Woburn, MA 01801
United States

Kapittelweg 10
4827 HG Breda
The Netherlands

7140 Baymeadows Way
Ste 101
Jacksonville, FL 32256
United States

2300 So. Decker Lake Blvd.
Salt Lake City, UT 84119
United States

Rue du Clos Courtel
CS 31719
35517 Cesson-Sevigné Cedex
France

1 rue de l'Hautil
Z.I. des Boutries BP 150
78702 Conflans-Sainte
Honorine Cedex
France

Technopole Brest-Iroise
Site de la Pointe du Diable
CS 73808
29238 Brest Cedex 3
France

40 Rue de Bray
2 Rue des Landelles
35510 Cesson Sevigné
France

Spinnereistrasse 5
CH-5300 Turgi
Switzerland

Brunnenweg 9
D-64331 Weiterstadt
Germany

Carl-Benz-Strasse 6-8
67105 Schifferstadt
Germany

Including its implementation, meets the requirements of the standard:

ISO 9001:2008

Scope:

The design, manufacture and support of video and audio hardware and software products and related systems.

This Certificate is valid until: June 14, 2012
This Certificate is valid as of: June 14, 2009
Certified for the first time: June 14, 2000

H. Pierre Sallé
President
KEMA-Registered Quality

The method of operation for quality certification is defined in the KEMA General Terms And Conditions For Quality And Environmental Management Systems Certifications. Integral publication of this certificate is allowed.

KEMA-Registered Quality, Inc.
4377 County Line Road
Chalfont, PA 18914
Ph: (215)997-4519
Fax: (215)997-3809

CRT 001 073004

Accredited By:
ANAB

Experience you can trust.



Trinix

Broadlinx Software

Release Notes
Software Version 3.1.0

Contacting Grass Valley

International Support Centers	France 24 x 7	+800 8080 2020 or +33 1 48 25 20 20	United States/Canada 24 x 7	+1 800 547 8949 or +1 530 478 4148
Local Support Centers (available during normal business hours)	Asia	Hong Kong, Taiwan, Korea, Macau: +852 2531 3058 Indian Subcontinent: +91 22 24933476 Southeast Asia/Malaysia: +603 7805 3884 Southeast Asia/Singapore: +65 6379 1313 China: +861 0660 159 450 Japan: +81 3 5484 6868		
		Australia and New Zealand: +61 1300 721 495	Central/South America: +55 11 5509 3443	
		Middle East: +971 4 299 64 40 Near East and Africa: +800 8080 2020 or +33 1 48 25 20 20		
	Europe	Belarus, Russia, Tadzikistan, Ukraine, Uzbekistan: +7 095 2580924 225 Switzerland: +41 1 487 80 02 S. Europe/Italy-Roma: +39 06 87 20 35 28 -Milan: +39 02 48 41 46 58 S. Europe/Spain: +34 91 512 03 50 Benelux/Belgium: +32 (0) 2 334 90 30 Benelux/Netherlands: +31 (0) 35 62 38 42 1 N. Europe: +45 45 96 88 70 Germany, Austria, Eastern Europe: +49 6150 104 444 UK, Ireland, Israel: +44 118 923 0499		

Copyright © Grass Valley, Inc. All rights reserved.
This product may be covered by one or more U.S. and foreign patents.

Grass Valley Web Site

The www.grassvalley.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 — Download software updates, drivers, and patches.



END-OF-LIFE PRODUCT RECYCLING NOTICE

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 or 530-478-4148, and ask to be connected to the EH&S Department. Additional information concerning the program can be found at: www.thomsongrassvalley.com/environment



Contents

- Broadlinx Release Notes** 7
 - Purpose 7
 - Interoperability Requirements 7
 - Related Documents 7
 - New Features 7
 - Support for the New Trinix Asymmetric Frame 7
 - Only Primary Alarms are Supported 8
 - The Compact Flash Card Size Has Increased 8
 - Software Installation 9
 - Update Caveats 10
 - Step 1: Updating Compact Flash Cards 12
 - Copying the Broadlinx Software to the CF Using a CF Reader 12
 - Updating Existing Broadlinx Boards 13
 - Step 2: Using the Console to Update a Single Broadlinx Board 13
 - Step 3: Activating the Software 15
 - Updating Systems with Two Broadlinx Boards 19
 - Step 2: Using the Console to Update Both Broadlinx Boards 20
 - Step 3: Activating the Software for Both Broadlinx Boards 21
 - Licensing SNMP on Both Broadlinx Boards 26
 - Alternate methods for Updating a Compact Flash Cards 27
 - Using the Upload process on the Broadlinx Web Page 27

Broadlinx Release Notes

Purpose

This document provides information about the new features and the software installation instructions for the 3.1.0 software release of the Broadlinx software.

Do NOT use the Protected Paths feature with the 3.1.0 release; Broadlinx 3.1.0 does not support Protected paths. A future release is planned for the Protected Paths feature.

Interoperability Requirements

- Any Encore system that is newer than version 1.7.3
- Any Jupiter system.

Related Documents

- Trinix Planning and Installation Manual
- 3.1.0 Release Notes Addendum

New Features

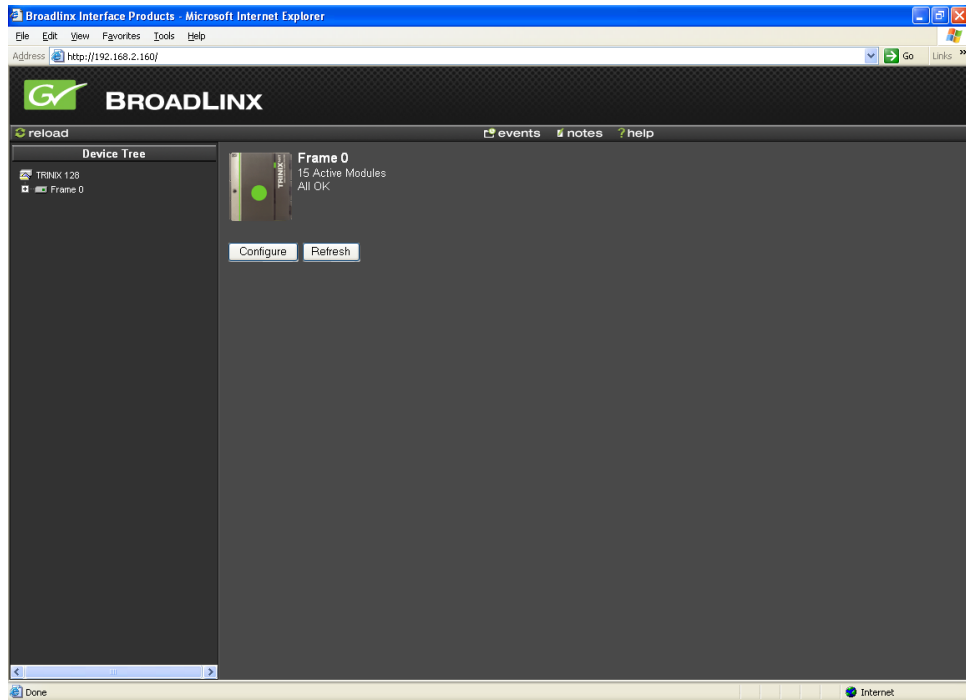
The 3.1.0 version of the Broadlinx software includes the following new features:

Support for the New Trinix Asymmetric Frame

This support includes changes to the console commands and Web pages for the new Sync Reference (TRX-SR) and Status Concentrator (TRX-SC) boards.

The Broadlinx GUI has been updated to the new Grass Valley color scheme (Figure 1).

Figure 1. Broadlinx Interface with the New Grass Valley Color Scheme



Only Primary Alarms are Supported

The operation of cooling fans, frame power supplies, on-board power supplies, and primary as well as secondary Broadlinx board are all monitored and are considered “mission critical.” Any alarm for these critical items is treated as a Primary alarm.

The Trinx system alarm has two modes:

- No alarm Mode, which will illuminate green.
- Primary alarm mode, which will illuminate red.

The Compact Flash Card Size Has Increased

The minimum size of a Compact Flash (CF) card that you can use to update Broadlinx has been increased to 128 MB.

Software Installation

CAUTION Installation of this upgrade will interrupt video signals passing through the system. The length of this interruption will vary depending on system size and specific procedures used. Users of this equipment may wish to consult with Grass Valley Technical Support personnel before proceeding.

There are three steps that must be followed to update existing Trinix boards to the latest version of Broadlinx. You will need to know if the Trinix router that you are updating has one or two Broadlinx boards (NR-33000); the steps are different if you have one or two Broadlinx boards.

These steps and the page number they are on are:

Step 1: Updating Compact Flash Cards [on page 12](#)

Single Broadlinx Board

Step 2: Using the Console to Update a Single Broadlinx Board [on page 13](#)

Step 3: Activating the Software [on page 15](#)

Two Broadlinx Boards

Step 2: Using the Console to Update Both Broadlinx Boards [on page 20](#)

Step 3: Activating the Software for Both Broadlinx Boards [on page 21](#)

Please read and follow all of the Installation instructions in this document to avoid unscheduled downtime, system failure, or loss of data.

Update Caveats

Before starting the Installation process, please read the following:

- Protected paths are not monitored during firmware updates. If the primary path fails during a firmware update, no fail-over switch will occur.
- Certain TRX-NXT-512x512 systems will require DIP switch changes to operate properly with the 2.4 and newer versions of Broadlinx.
 - The S401-7 and S401-8 DIP switches on the DM-33501 and DM-33502 1.5G matrix boards should be set to **ON**. Stickers were added to indicate that these boards have been tested with new equalization settings, which are included in version 2.4, and newer, of the Broadlinx software.
 - If no stickers are present, the S401-7 and S401-8 DIP switches should be set to **OFF**. This selection sets the board to the same equalization value that was in releases earlier than the 2.4 version of Broadlinx. The remaining six switches on S401 board are always set to **OFF**.
- For multiple Trinix 128 or 256 frame systems only, the dip switch “A” setting on the frame with the Broadlinx board that is driving the Com Bus should be set to Open. This setting should be set to Closed on all other frames in the system. This step is required when using Protected Paths. For single frame operation the “A” switch must be set to the Open position.
- Certain steps of the following procedure will momentarily interrupt switcher operations. These steps are preceded by Caution statements.

Using 3G Boards

The Broadlinx software that is currently running on your Trinix Routing switcher must be updated to Broadlinx 3.0.1 (or newer) if you add **ANY** of the following Trinix 3G boards:

- TRX-HI-3G
- TRX-HO-3G
- TRX-DM128-3G
- TRX-DM128R-3G
- TRX-DM256-3G

Adding a New High Definition Board

You **MUST** do one of the following options when you are adding a new High Definition (HD) board to a Trinix router that is running Broadlinx 2.4.2 or older:

Note Selecting one of these options will insure that switches occur at the correct timing position.

- Update the Trinix router to Broadlinx 3.0.1 or newer (most preferred).
- Rollback the version of Broadlinx on the new HD board to the version of Broadlinx that is currently running on your router. (*This is the least preferred option; please contact Grass Valley's Technical support.*)

CAUTION Grass Valley strongly recommends that customers keep all software updated to the latest released version. New boards are **NOT** guaranteed to be compatible with older versions of software. A system failure may occur if a new board is received as a replacement part and then loaded with an older version of software.

Before Proceeding with the Installation process, see Appendix D in the Trinix Installation manual. The information in this appendix is intended to help you understand what is required to update from your current version to the latest version of software.

For more information about any of the above caveats, contact Grass Valley's Technical support; see *Contacting Grass Valley* on [page 4](#).

Step 1: Updating Compact Flash Cards

The Broadlinux firmware is installed and updated using Compact Flash (CF) Memory cards. If the programmed Compact Flash card is not available, you must obtain the necessary files and then copy them to a blank Compact Flash card. The card must have a minimum of 128 MB of available memory. These cards are read from the NR-33000 (Broadlinux) board.

You will need to copy the Broadlinux software to the CF using a CF reader. This process is explained below.

Copying the Broadlinux Software to the CF Using a CF Reader

Note This is the preferred method for updating Broadlinux on CF cards. See [page 27](#) for alternative methods for updating CF cards.

This process assumes that a Compact Flash (CF) card reader has been connected to the workstation; if not, see the Installation instructions that came with the CF card reader.

Follow these steps to update a CF with the latest version of Broadlinux:

1. Place the Broadlinux CD in the computer's CD drive.
2. Open Windows Explorer using one of the following suggested options:
 - Press the **Windows logo** and **E** key combination.
 - Right click the **Start** button and then select the "Explore all users" option.
 - Click the **Start** button, then All Programs, point to Accessories, and then select Windows Explorer.
3. Navigate to and open the Trinix folder on the CD, select and then copy all of the Broadlinux files.
4. Navigate to the Compact Flash (CF) memory and then paste the files.
 - If you are using a new CF, copy the ipconfig.txt file from the existing CF.

Note If you use a CF card on which a previous version of Broadlinux has been saved, you will need to overwrite the existing files. It is important that you do NOT overwrite the ipconfig.txt file on the Compact flash.

The compact flash is now ready to update your system.

Updating Existing Broadlinx Boards

Note No Installation is required for new Broadlinx boards. Broadlinx boards are shipped with the latest version of the Trinix software installed. If your Trinix router is currently running a previous version of Broadlinx, please contact Grass Valley's Technical Support department (+1 800 547 8949 or +1 530 478 4148).

You will need to know if the Trinix router that you are updating has one or two Broadlinx boards (NR-33000); see *Step 2: Using the Console to Update a Single Broadlinx Board* for one board and [page 19](#) for routers with two Broadlinx boards.

When updating an existing Broadlinx board, you must first update Broadlinx using a serial connection and console commands. You will then need to navigate to the Firmware Management screen in the Broadlinx Web page to activate the FPGAs for the boards.

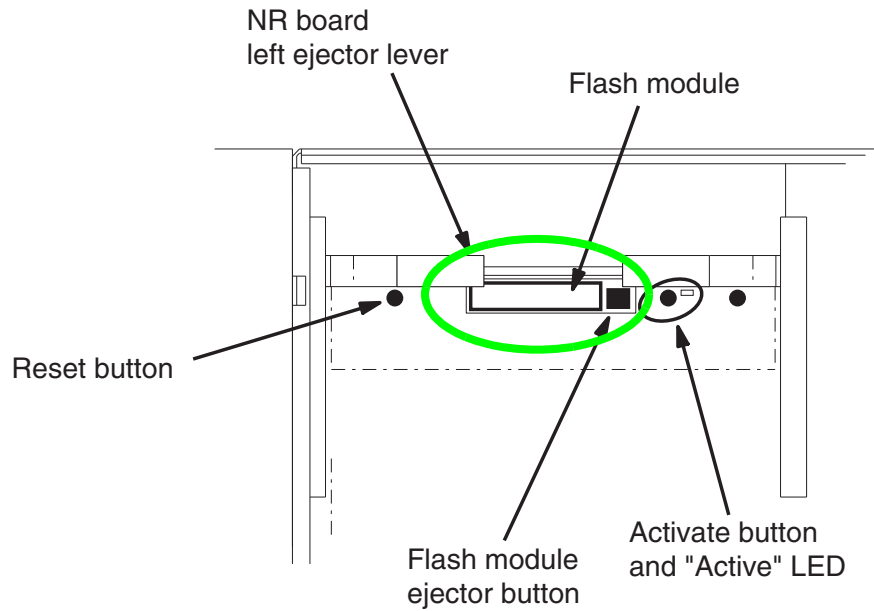
Step 2: Using the Console to Update a Single Broadlinx Board

Follow these steps to update all the boards within the Trinix frame (except the active NR-33000 board):

1. Connect either a serial or CAT 5 cable to the router.
2. Remove the Broadlinx board from the chassis and then remove any existing CF cards by pressing the **Flash Module Eject** button ([Figure 2](#)).

Note If a Broadlinx board is not removed and the new card is inserted, it could be corrupted by the live system. There is no automatic or manual method to mount the file system on a live system.

Figure 2. NR-33000 (Broadlinx board) Controls.



Note For the Asymmetric frames, the NR-33000 (Broadlinx) board is turned side-ways, so the Eject button is at the bottom.

3. Insert the Compact Flash card into the slot on the Broadlinx board and replace the board in the frame. Broadlinx will then inventory the boards that are in the frame. Wait for a Command prompt to appear.
4. Open a console (or Telnet) window associated with the active NR-33000 board.
5. Type,

```
sendLoader -1
```

at the command prompt. The update process will then begin.

Note As the boards are being updated, the alarm light on the board that is being updated will turn red until the board has been updated.

The cursor will “blink” when the update process is completed. Press the **Enter** key on the keyboard to have the Command prompt appear. This step will let you know that this portion of the update is completed.

Step 3: Activating the Software

Navigate to the Broadlinx Web page, using Internet Explorer, to complete updating the firmware. The Broadlinx Firmware Management page will display the following information:

- The possible types of PC boards
- The version of the Broadlinx software that is presently associated with each type of board that is installed
- The versions of top-level software packages that are present in the Broadlinx board
- The compatibility Status of these software elements.

An example of this table is shown in [Figure 3 on page 15](#).

Some of the Status lights, in the Status column of the Broadlinx Firmware Management page, will be red following an installation using a Compact Flash card ([Figure 3](#)). This indicates that the software that is currently running in the module is different (or older) than the software that was just installed. The new software should be activated by following the instructions provided below.

Figure 3. The Firmware Management Screen

Module	Fpga Active	Fpga Pending	uControl Active	uControl Pending	Status
HI-33110				9	Green
SI-33110				9	Green
HO-33110		19		9	Green
SO-33110		19		9	Green
DM-33100		9		9	Green
NR-33000	21 ...	22	8	9	Red
SR-33000		10		9	Green
RP-33500				9	Green
SR-33500		10		9	Green
DM-33501		21		9	Green
DM-33502		21		9	Green
HI-33120					Green
HO-33120		14		9	Green
VI-33100		6		9	Green
HI-33200		6		9	Green
DM-128-3G		6		9	Green
DM-128R-3G		6		9	Green
DM-256-1-3G	14	14	8	9	Red
DM-256-2-3G	14	14	8	9	Red
HO-33300-3G	9	10	9	9	Red
HI-33300-3G	2	2	7	9	Red
TRX-SR	0	4	3	3	Red
VxWorks			20100319	20100319	Green
Web Interface			20100319	20100319	Green

3.1.0.e

Activate Upload Cancel

The installed version of Broadlinx

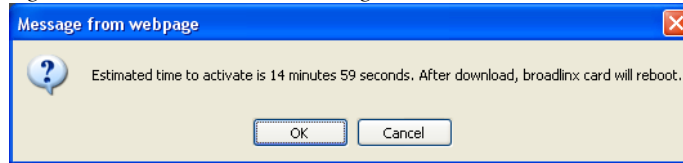
Older firmware

The Activate Button

Follow these steps to activate the Software:

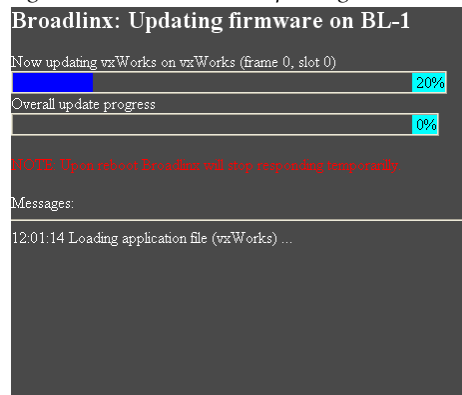
1. Click the **Activate** button at the bottom of the Firmware Management page ([Figure 3](#)). The *Message from webpage* dialog will then appear:

Figure 4. The Estimated Time Dialog



2. Click the **OK** button. The *Broadlinx: Updating firmware* status window will then appear:

Figure 5. The Broadlinx: Updating Firmware Status Window



The new software will then be copied from the NR-33000 (Broadlinx board) to each board that requires an update. This process can take from several minutes to a half an hour or more.

- Note** For systems with two Broadlinx boards, the Broadlinx board performing the update will not install software onto itself. See [page 19](#) for instructions for updating systems with two Broadlinx boards.

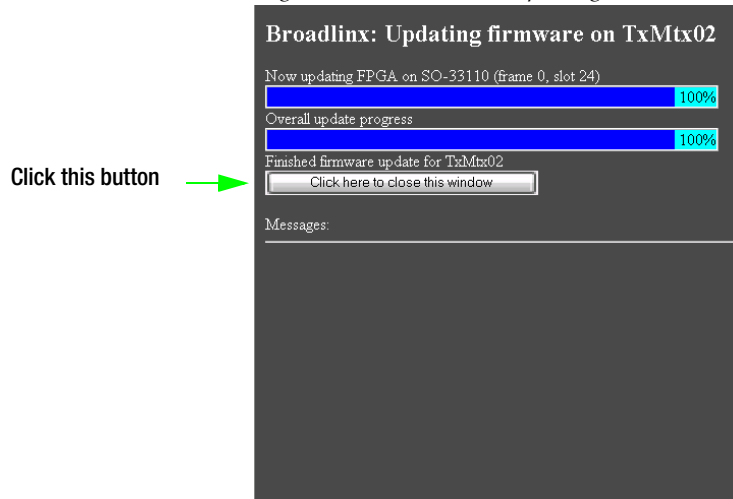
The progress of the installation will be shown by the progress bars on the Broadlinx: Updating Firmware Status Window and by the alarm LEDs on the boards that are being updated.

- Note** If the window is accidentally closed, you can return to it by navigating to the home page of the Broadlinx card. The rest of the Broadlinx pages are not available while the update is in progress.

When the progress bars reach 100%, a Finished firmware update message will appear.

3. Click the **Click here to close this window** button ([Figure 6 on page 17](#)).

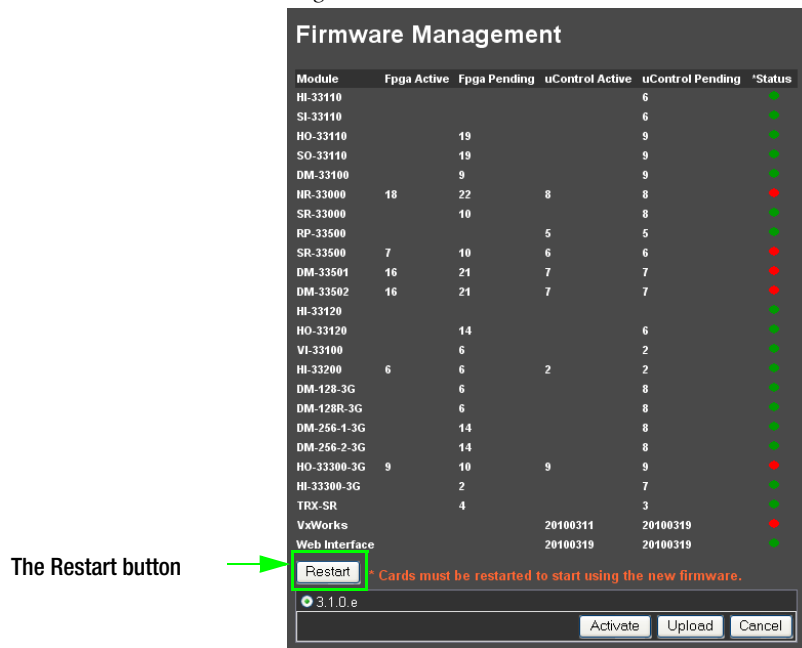
Figure 6. The Broadlinx: Updating Firmware Status Window - Update Completed



The Broadlinx web page will then indicate “Post Completed.”

4. Navigate to the Firmware Management page. The **Restart** button will now appear near the bottom of the page. (The display may vary from the example that is shown in [Figure 7 on page 17.](#))

Figure 7. The Restart Button on the Firmware Management Screen



The cards must be restarted to use the new firmware.

5. Click the **Restart** button, which is shown above in [Figure 7.](#) The following Caution pop-up window will then appear:

Figure 8. The Restart Caution Popup



CAUTION Clicking the **OK** button will cause a momentary interruption to video passing through the Routing switcher.

6. Click the **OK** button.

The Post Complete window will then reappear.

Updating Systems with Two Broadlinx Boards

This section provides the steps that are needed to update both Broadlinx boards within the Trinix frame.

Needed Information

You will need to know, the board type, frame, and slot number to perform this task. This information can be found by using the `deviceListShow` command. That is, enter

```
deviceListShow
```

at the command prompt and the available boards and information about the frame will be displayed. There will be seven columns: Frame (FR), Slot (SL), Class (clas), Board type (type), Loader Application version (App ver), FPGA version (FPGA ver) and the name of the board (Name). See [Figure 9 on page 19](#).

Note If the number shown in a column is “00,” only enter “0” in the command.

Figure 9. `deviceListShow` Command Results

```

--- DeviceList -----
-----
Device Hardware: TRINIX NXT 256x512
          Frames: 16 (0 to 15)
          Slots: 64 (0 to 63)

```

FR	SL	clas	type	App ver	FPGA ver	Name
00	00	2	10	8	21	NR-33000
00	28	2	25	9	8	HO-33300-3G
00	29	2	25	9	8	HO-33300-3G
00	30	2	25	9	8	HO-33300-3G
00	31	2	25	9	8	HO-33300-3G
00	32	2	26	7	1	HI-33300-3G
00	33	2	26	7	1	HI-33300-3G
00	34	2	26	7	1	HI-33300-3G
00	35	2	26	7	1	HI-33300-3G
00	48	2	25	9	8	HO-33300-3G
00	49	2	25	9	8	HO-33300-3G
00	50	2	25	9	8	HO-33300-3G
00	51	2	25	9	8	HO-33300-3G

```

-----
-- DeviceList ---

```

The Column headings →

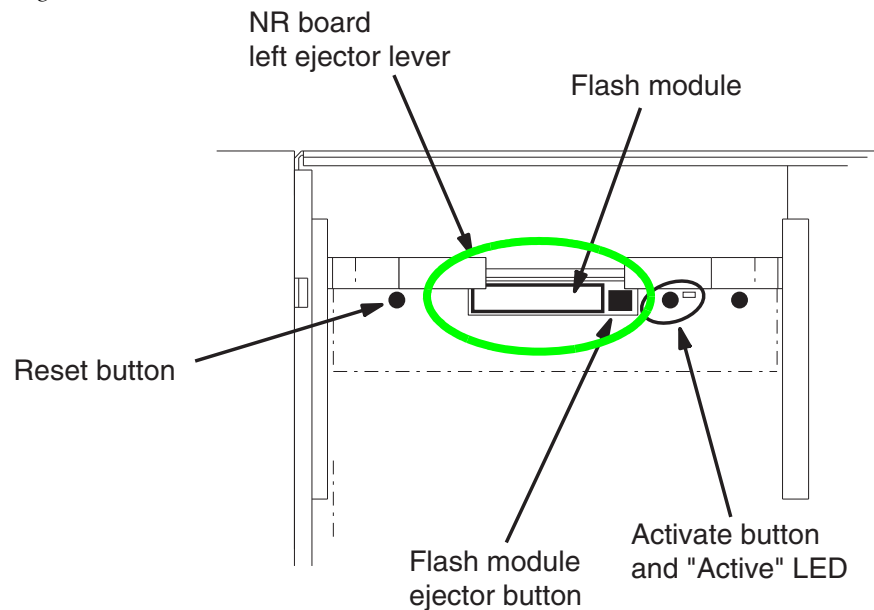
Step 2: Using the Console to Update Both Broadlinx Boards

Follow these steps to update both Broadlinx boards within the Trinix frame:

1. Connect either a serial or CAT 5 cable to the router.
2. Remove the Broadlinx board from the chassis and then remove any existing CF cards by pressing the **Flash Module Eject** button (Figure 10).

Note If a Broadlinx board is not removed and the new card is inserted, it could be corrupted by the live system. There is no automatic or manual method to mount the file system on a live system.

Figure 10. NR-33000 (Broadlinx board) Controls.



Note For the Asymmetric frames, the NR-33000 (Broadlinx) board is turned sideways, so the Eject button is at the bottom.

3. Insert the Compact Flash card into the slot on both Broadlinx boards and replace both boards in the frame. Broadlinx will then inventory the boards that are in the frame. Wait for a Command prompt to appear.
4. Open a console (or Telnet) window associated with the active NR-33000 board.
5. Type,

```
sendLoader -1
```

at the command prompt. The update process will then begin.

Note As the boards are being updated, the alarm light on the board that is being updated will turn red until the board has been updated.

You can now update the Broadlinx board in the Secondary slot.

Note See the Trinix Frame Slot Maps appendix of the *Trinix Installation manual* for maps that identify each slot number for every Trinix Router frame.

6. Make the Broadlinx card in the Secondary slot active by pressing the **Activate** button and then waiting for the LED to show that the board is active ([Figure 10 on page 20](#)) and move your console cable to the secondary Broadlinx card.

You can then update the Broadlinx board in the Primary slot, which is now inactive.

7. Type,

```
sendLoader <board type>,<frame#>,<primary
slot#>
```

For example, `sendLoader 10,0,0`

The cursor will “blink” when the update process is completed. Press the **Enter** key on the keyboard to have the Command prompt appear. This step will let you know that this portion of the update is completed.

Step 3: Activating the Software for Both Broadlinx Boards

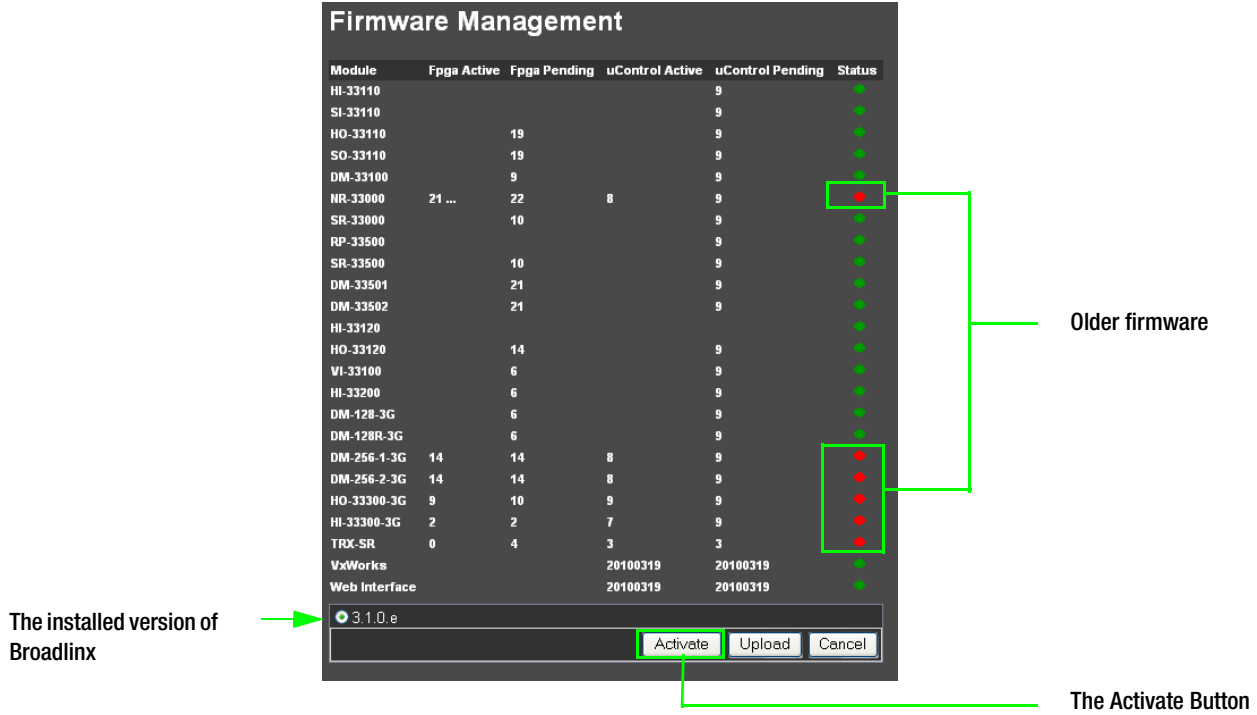
Navigate to the Broadlinx Web page, using Internet Explorer, to complete updating the firmware. The Broadlinx Firmware Management page will display the following information:

- The possible types of PC boards
- The version of the Broadlinx software that is presently associated with each type of board that is installed
- The versions of top-level software packages that are present in the Broadlinx board
- The compatibility Status of these software elements.

An example of this table is shown in [Figure 3 on page 15](#).

Some of the Status lights, in the Status column of the Broadlinx Firmware Management page, will be red following an installation using a Compact Flash card. This indicates that the software that is currently running in the module is different (or older) than the software that was just installed. The new software should be activated by following the instructions provided below.

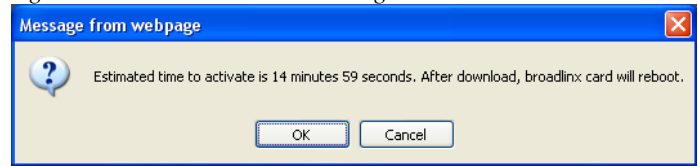
Figure 11. The Firmware Management Screen



Follow these steps to activate the Software:

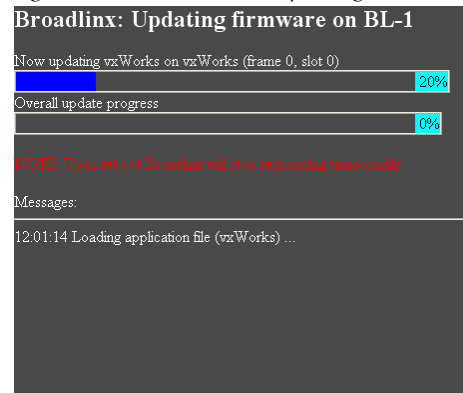
1. Click the **Activate** button at the bottom of the Firmware Management page (Figure 11). The *Message from webpage* dialog will then appear:

Figure 12. The Estimated Time Dialog



2. Click the **OK** button. The *Broadlinx: Updating firmware* status window will then appear:

Figure 13. The Broadlinx: Updating Firmware Status Window



The new software will then be copied from the active NR-33000 (Broadlinx board) to each board that requires an update. This process can take from several minutes to a half an hour or more.

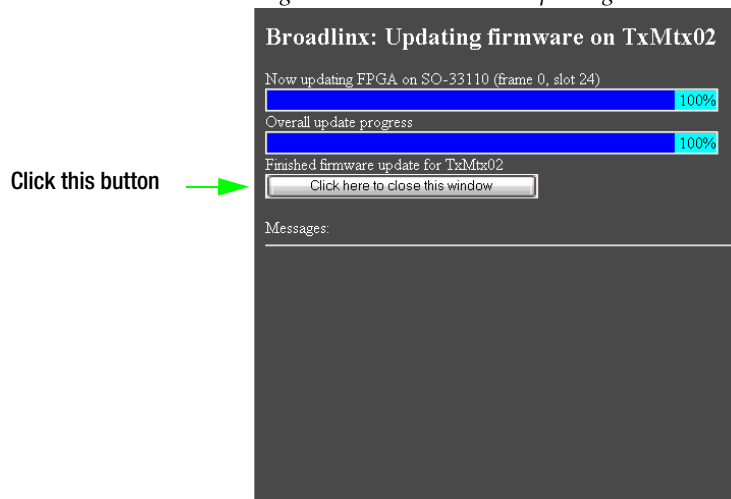
The progress of the installation will be shown by the progress bars on the Broadlinx: Updating Firmware Status Window and by the alarm LEDs on the boards that are being updated.

Note If the window is accidentally closed, you can return to it by navigating to the home page of the Broadlinx card. The rest of the Broadlinx pages are not available while the update is in progress.

When the progress bars reach 100%, a Finished firmware update message will appear.

3. Click the **Click here to close this window** button (Figure 14).

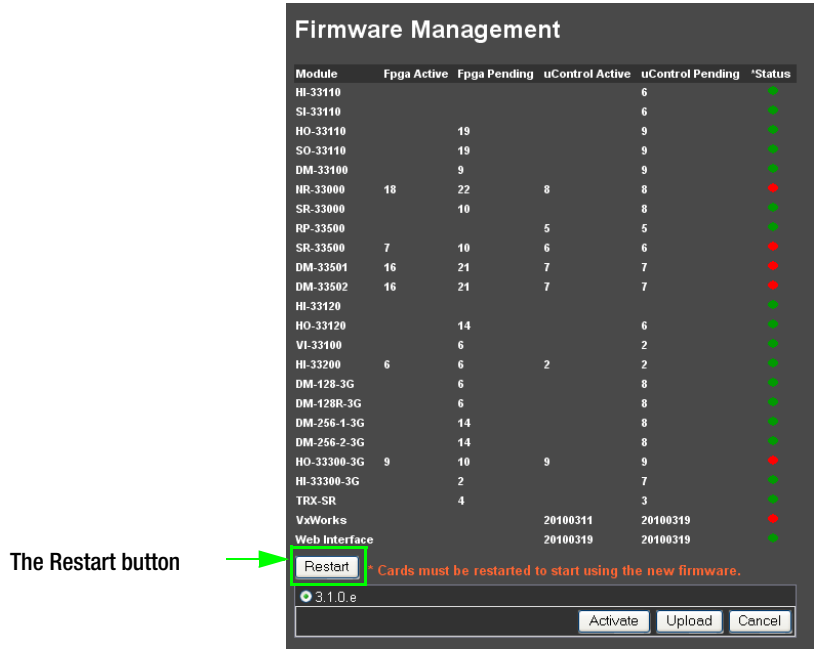
Figure 14. The Broadlinx: Updating Firmware Status Window - Update Completed



The Broadlinx web page will then indicate “Post Completed.”

- Navigate to the Firmware Management page. The **Restart** button will now appear near the bottom of the page. (The display may vary from the example that is shown in Figure 15.)

Figure 15. The Restart Button on the Firmware Management Screen



The cards must be restarted to use the new firmware.

- Click the **Restart** button.

The following Caution pop-up window will then appear:

Figure 16. The Restart Caution Popup



CAUTION Clicking the **OK** button will cause a momentary interruption to video passing through the Routing switcher.

- Click the **OK** button.

The Post Complete window will then reappear.

- Activate the Primary Broadlinx board when the restart process is completed. Navigate to the Firmware Management screen there should be a red light for the Secondary Broadlinx (NR-33000) board

8. Click the **Activate** button at the bottom of the Firmware Management page to activate the Secondary Broadlinx board.
9. Restart the Secondary Broadlinx board.

Licensing SNMP on Both Broadlinx Boards

An alternative to licensing both boards is to enable inter-board communications to save the license key from the primary board that has been licensed to the secondary board. The `setSnmppCommunicationsEnable` command will allow the SNMP key to be saved from the primary active board to the inactive board. Inter-board communications of the license key is verified with the `redundantConfigShow` command.

Follow these steps to save the license key from the primary board:

1. Start a console or telnet connection to the secondary or inactive Broadlinx board
2. Enter `setSnmppCommunicationsEnable` at the command prompt. The SNMP license should now be saved to the secondary board.
3. Enter the `redundantConfigShow` command at the command prompt to verify that the communications is active and that the SNMP license key had been transferred.
4. Once the key is transferred it can be turned off again by entering: `setSnmppCommunicationsEnable(1)` at the command prompt.

Figure 17. Example

```
Trinix_2 > setSnmppCommunicationsEnable
value = 0 = 0x0
Trinix_2 > 20000101.170709: SNMP license set to 0x00000002 (snmplicense.c:3:
Trinix_2 > redundantConfigShow
--- RedundantConfig -----
Slave:
Timeout is 5 seconds
Processing interval: every 3655243.75 seconds
Elapsed time: -55895 (946685116 - 946741011)
Run count: 1175
SNMP key is 0x00000002 (master SNMP key is 0x00000002)
*** IP configuration ***
== Bootline =====
boot device      : ata=0,0
unit number     : 0
processor number : 0
host name       : host
file name       : /ata0/vxworks
inet on ethernet (e) : 192.168.166.139:ffffff00
host inet (h)    : 192.168.166.1
gateway inet (g) : 192.168.166.1
user (U)        : broadlinx
ftp password (pw) : broadlinx
flags (f)       : 8
target name (tn) : Trinix_2
other (o)       : 192.168.166.2
== IPConfig =====
what set cha Data
-----
board: x      192.168.166.139
subnet: x    255.255.255.0
gateway: x   192.168.166.1
host: x     192.168.166.1
other: x    192.168.166.2
target: x   Trinix_2
snmp:
*** Master configuration ***
== IPConfig =====
what set cha Data
-----
board: x      192.168.166.138
subnet: x    255.255.255.0
gateway: x   192.168.166.1
host: x     192.168.166.1
other: x    192.168.166.2
target: x   Trinix_1
snmp:
----- RedundantConfig ---
Trinix_2 > setSnmppCommunicationsEnable(1)
Trinix_2 >
```

The SNMP Keys status

Ensure that the SNMP key and the master SNMP key values are the same.

The value for the SNMP keys shown in this example are for the frame type rather than the encrypted key number that was entered on the Web page.

If zero is shown, no SNMP key has been set.

Alternate methods for Updating a Compact Flash Cards

Using the Upload process on the Broadlinx Web Page

You must be able to access the Broadlinx card on the Trinix router to perform this procedure.

Follow these steps to update a Compact Flash (CF) with the latest version of Broadlinx:

1. Navigate to the Firmware Management page and then scroll down to the bottom of the page.
2. Click the **Upload** button. The Update Firmware page will then appear.
3. Click the **Browse** button. The *Choose File to Upload* dialog will then appear.
4. Navigate to the Broadlinx CD and then select the Config.ar file.
5. Click the **Open** button. The Update Firmware page will reappear.
6. Click the **Upload** button. The CF card will then be updated. The Post Complete page will appear when the process is finished.
7. Click the **Back** button. The Post Complete page will then re-appear.

The compact flash is now ready to update your system.

