

K-Series Software Upgrade Guide

K-FRAME

Kayenne / Karrera / GV Korona

K-Series Software Upgrade Guide

13-06000-000-AA

2023-8-24

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About the K-Frame Software Update

GV K-Frame systems are shipped with the current software version installed on the Frame and Control Surface. Updates to GV Switcher system software are available for download from the Grass Valley website. Software installation tools are provided with each update package.

The GV K-Frame Deployment Tool extracts and copies Grass Valley switcher system files to a Menu Panel or PC. These files include the K-Frame Installer Program.

The K-Frame Installer Program is used to install the extracted software to Grass Valley Video Processor Frame(s) and Control Panel(s) over the network. The program also launches other installation tools (wizards). One wizard installs the Menu application directly on the Menu Panel or PC running the installer program. If multiple Menu Panels (or PCs running the Menu application) exist, each must be updated individually. Installation wizards can also be launched for the KSP and NetConfig features.

Update the K-Frame Software

This software update procedure assumes your Grass Valley switcher system is fully operational with all network communications properly configured. Refer to the *Kayenne/Karrera/GV Korona Installation & Service Manual* for configuration instructions.

Back up Current Configuration and Effects Files:

- 1 Save your system configuration files (Eng Setup, User Setups), and your operational registers (EMEM, Macros, etc.) and other settings. You can create a Show file that contains all this information. (Note that the Show File does not contain the Eng Setup so it will need to be saved separately.) See the K-Frame Kayenne/Karrera/GV Korona User Manual for file operations instructions.

Note: A thumb drive that includes the current Grass Valley switcher software version is a convenient location to back up these files.

- 2 Store the backup media in a safe place. You may want to use these files if you decide to back down to that earlier software version.

Deploy the Switcher Update Package Files and Installer:

- 1 Exit the Menu application and any other applications that may be running on the Menu Panel or PC.
- 2 Disable any virus protection, Windows firewall, and any other firewall protections that may have been installed on the Menu Panel or PC. Firewalls must be inactive to allow switcher system software installation over the network.
- 3 Run the K-Frame Setup application, either:
 - a Insert the K-Frame Software USB stick into an available port on the Menu Panel or PC. Locate the removable disk in My Computer, open **K-FrameSetup.exe**, and select **OK**,
 - or -
 - b Download the K-FrameSetup.exe file from the Grass Valley download site, open the file, and select **OK**.

Note: If the same K-Frame Deployment Tool version files are detected, a Repair/Remove screen is displayed, allowing re-installation or removal of the Deployment files.

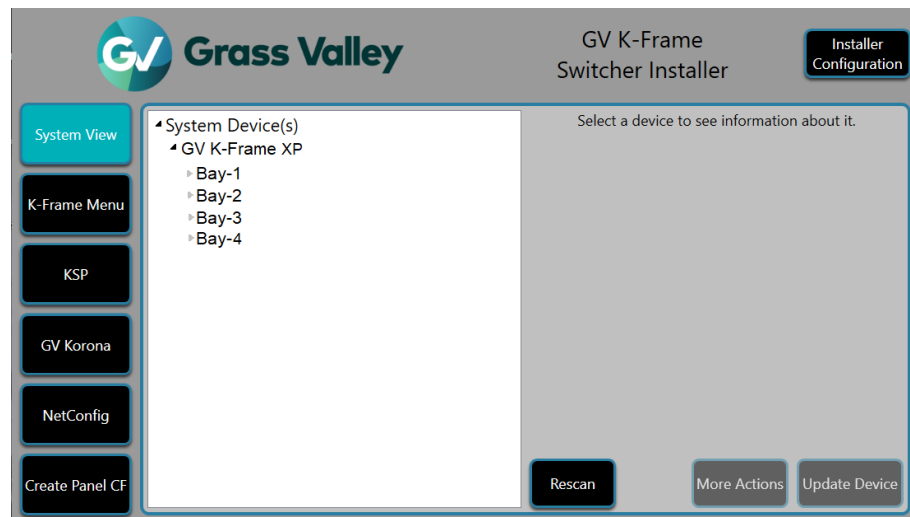
- 4 Select **Next** in the K-Frame Deployment Tool window.
- 5 Accept the license agreement and select **Next**.
- 6 Select **Next** to accept the default deployment location. Alternatively, you can Browse to a different location to deploy the files. The "Ready to Install the Application" screen appears next.
- 7 Select **Next** to deploy the files.

Result: When the deployment completes, the K-Frame Installer Program will launch automatically. After the switcher files have been deployed, the K-Frame Installer Program can be launched at any time by opening the **K-Frame Installer** from the desktop icon.

K-Frame Installer Program Description

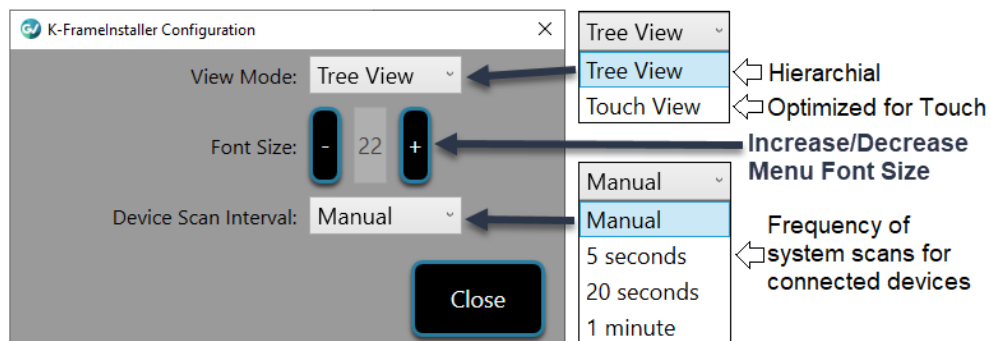
The K-Frame Installer Program menu has buttons on the left used to select various installers. Selecting the System button displays a hierarchy (Tree View) of connected devices.

Note: If a Video Processor Frame is started or rebooted, **Rescan** must be pressed to view the additional system.

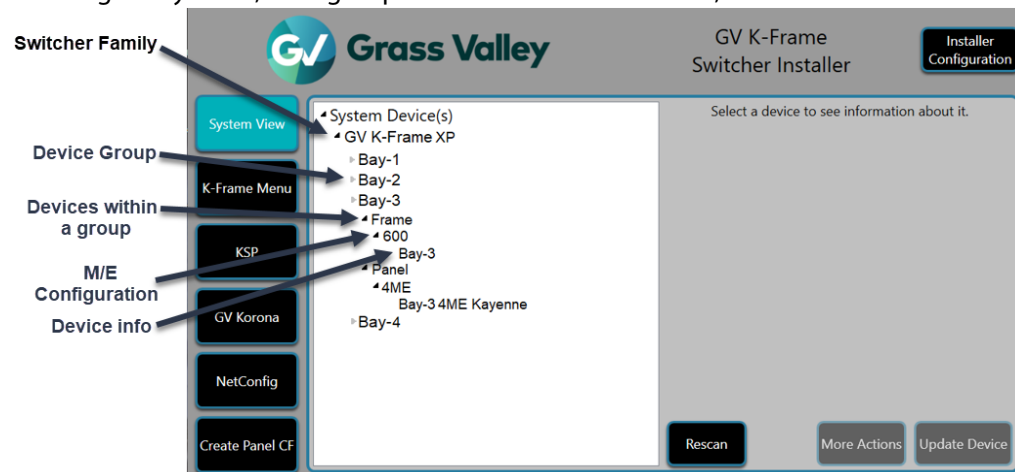


Configuring the Installer Menu

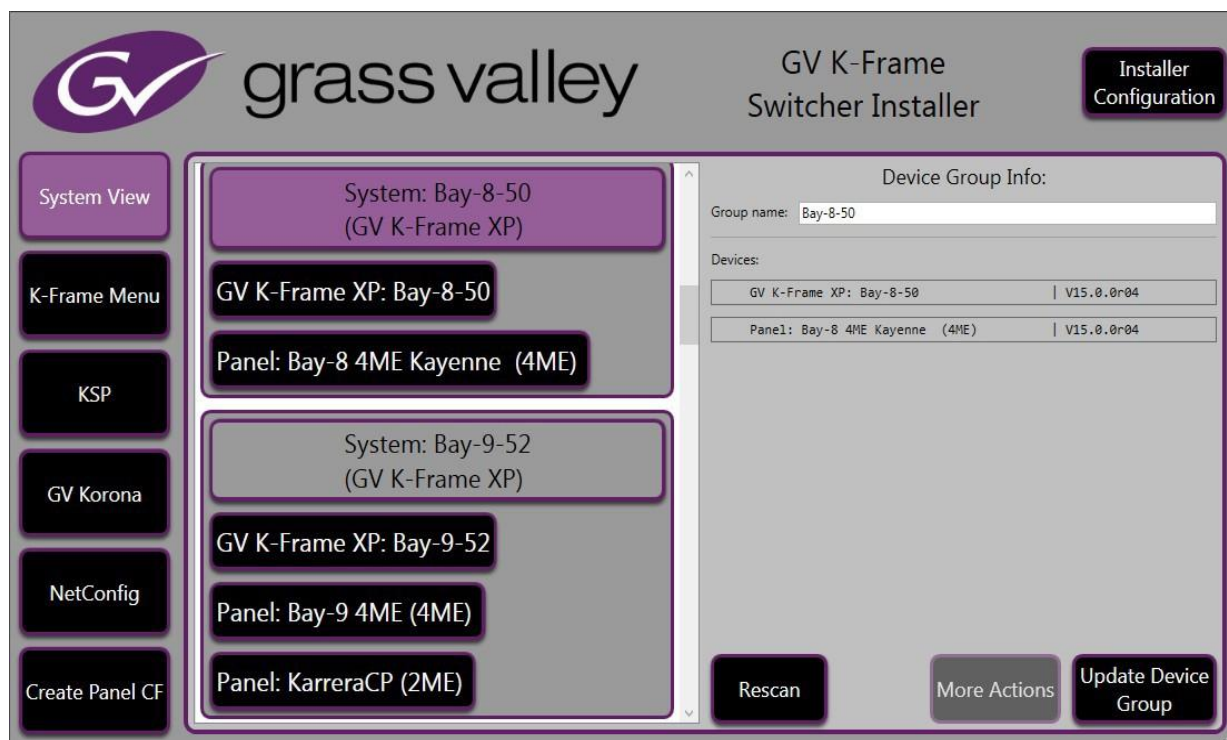
The **Installer Configuration** button (top right) is always available and provides customization of the installer menu.



When **System** is selected, a hierarchy (Tree View) or list of buttons (Touch View) is displayed showing the systems, their groups of devices on the network, and other information.



Touch View is organized by the Device Group.



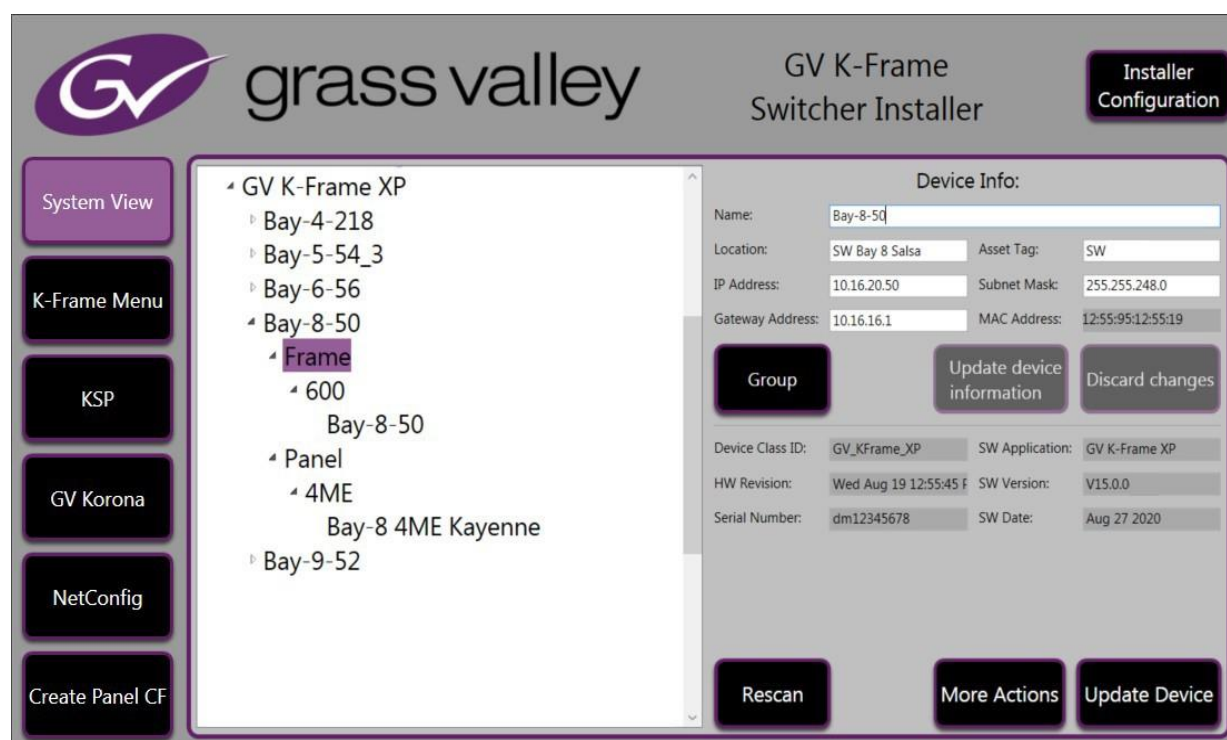
Selecting a Device Group or Device displays the Device Group/Device Info: menu (right) with configuration buttons:

Rescan—Rescan the system devices (refreshes the menu).

Update:

- **Update Device Group**—Update software for all devices in the group.
- **Update Device**—Update device software.

A group or device can be selected either in the tree/button list in the Group/Devices: list in the Device Group Info: menu (right). The Device Info: menu will be displayed (right).



Device Info can be edited in this menu. White Device info fields can be edited (gray fields cannot be edited but the text can be copied). Changes can be discarded or saved using the following buttons:

Discard changes—Deletes changes and reverts to previous configurations.

Update device information—Saves the updated device information to the Frame.

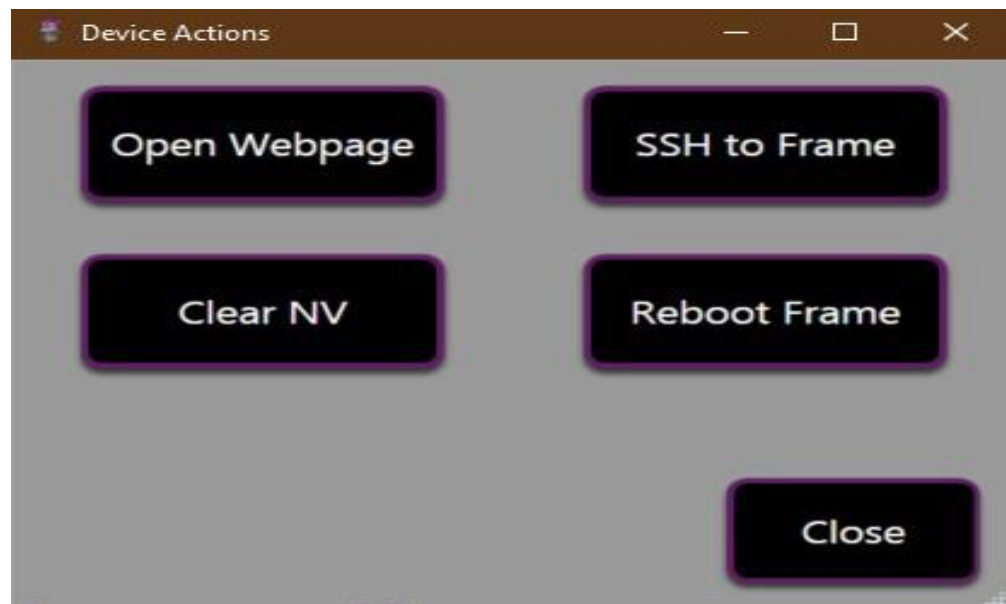
Group—Navigates to the Device Group Info: menu.

Rescan—Scans the network for devices and refreshes the menu to show the currently connected components and any modified system names.

Update Device—Update the device software.

More Actions—Provides context sensitive configuration for the selected device type:

Frame Device Actions



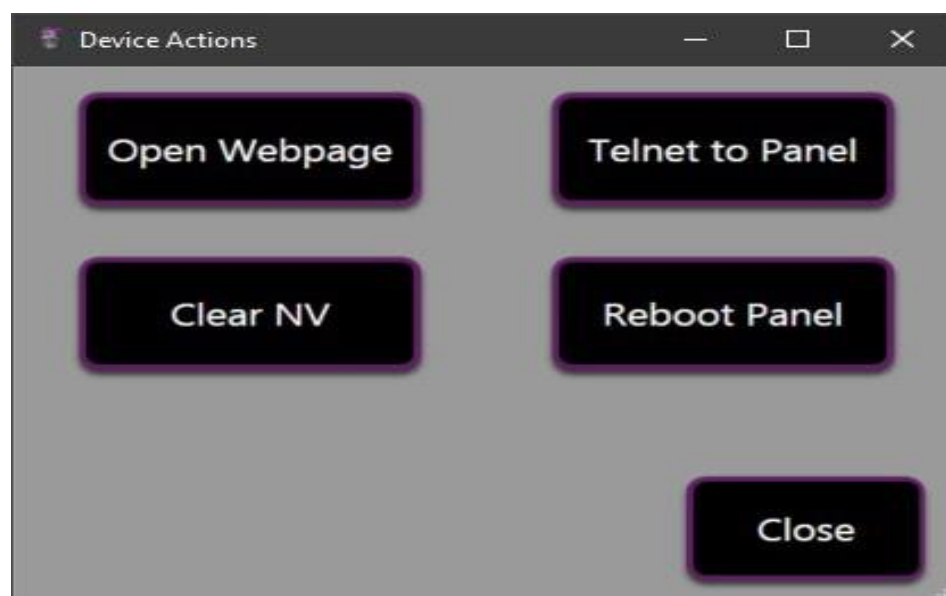
Open Webpage—Opens the device's web page using the IP Address (see the *Kayenne/Karrera/GV Korona Installation & Service Manual*).

SSH to Frame—Starts an SSH session with the Frame device (see the *Kayenne/Karrera/GV Korona Installation & Service Manual*).

Clear NV—Clears NV Memory.

Reboot Frame—Reboots the Frame.

Control Panel Device Actions



Open Webpage—Opens the device's web page using the IP Address.

Telnet to Panel—Starts a Telnet session for a Control Panel (see the *Kayenne/Karrera/GV Korona Installation & Service Manual*).

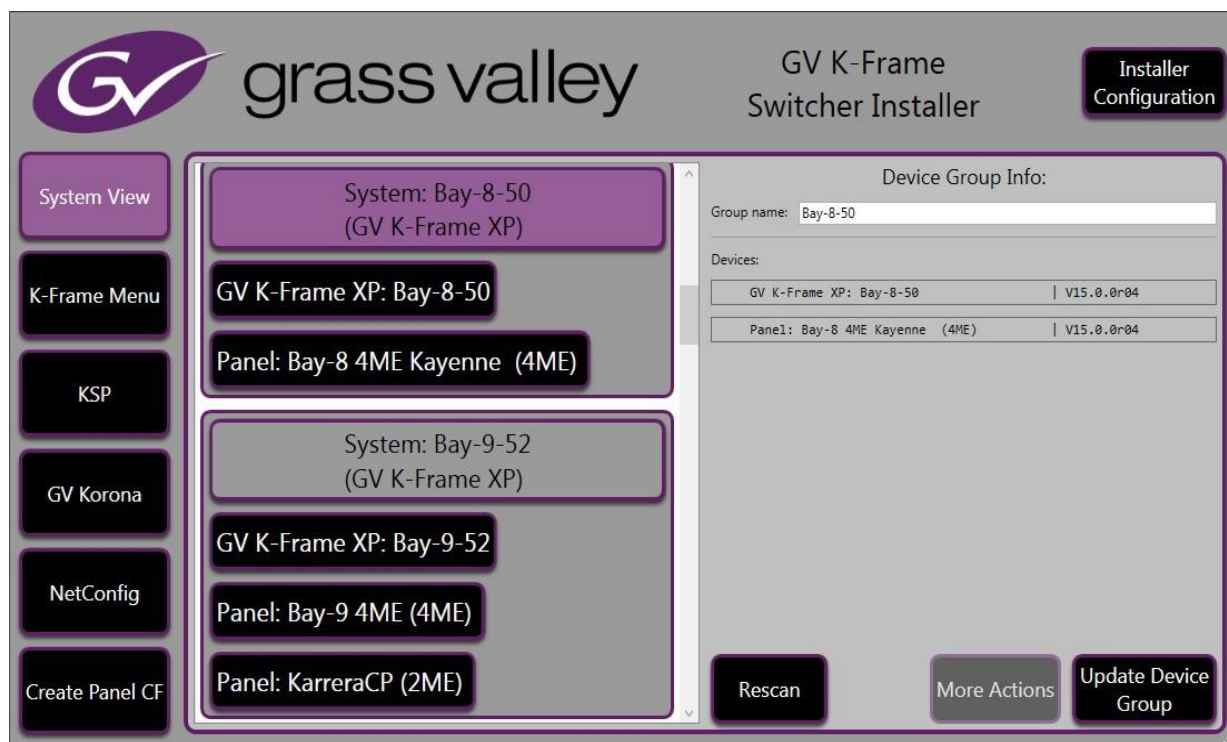
Clear NV—Clears NV Memory.

Reboot Panel—Reboots the Control Panel.

Update the K-Frame System Software

For Kayenne and Karrera, the K-Frame system's Video Processor Frame and Control Panels can be updated in one operation. The GV Korona Control Panel is updated separately from the Frame ([Update the GV Korona Control Panel Software](#)).

- 1 With the K-Frame Switcher Installer Program launched, select the **System** button.
- 2 Select a group (or device). The **Update Device Group** button becomes active.



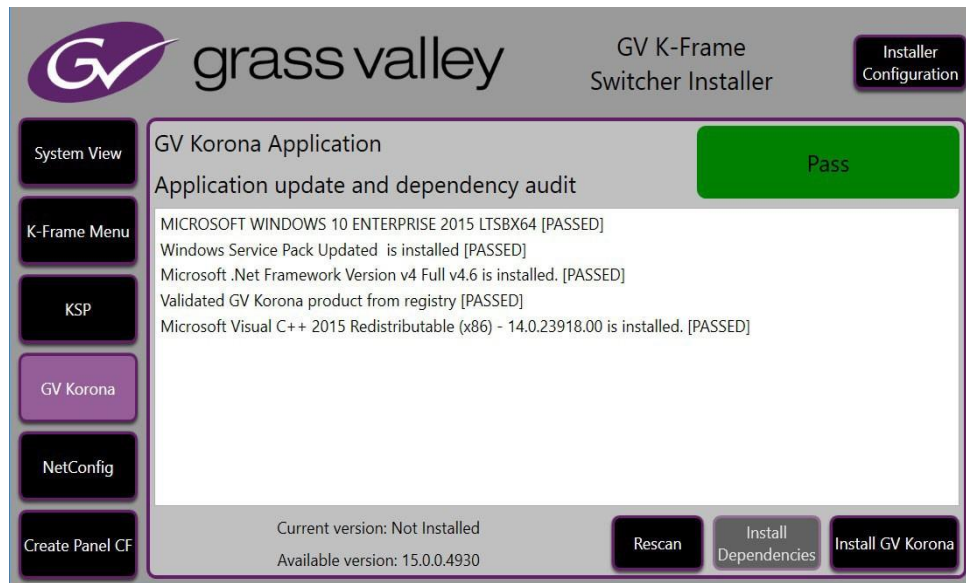
- 3 Select **Update Device Group**.
- 4 Select **Yes, update this device** if you agree.
The system will reboot after the device update has been completed.

Update the GV Korona Control Panel Software

In addition to updating the GV Korona Control Panel software, third party software can be audited and dependencies updated in the GV Korona Application menu.

The **Rescan** button repeats the application dependency audit.

- 1 Select **GV Korona** in the GV K-Frame Switcher Installer.



- 2 Verify that the third-party applications have passed the audit.
- 3 If not, the **Install Dependencies** button will be active, select it to update the applications.

Note: If there is not a GV Korona Control Panel connected to the Device Group, the **Install Dependencies** button will not be available even if the other dependencies have passed the audit.

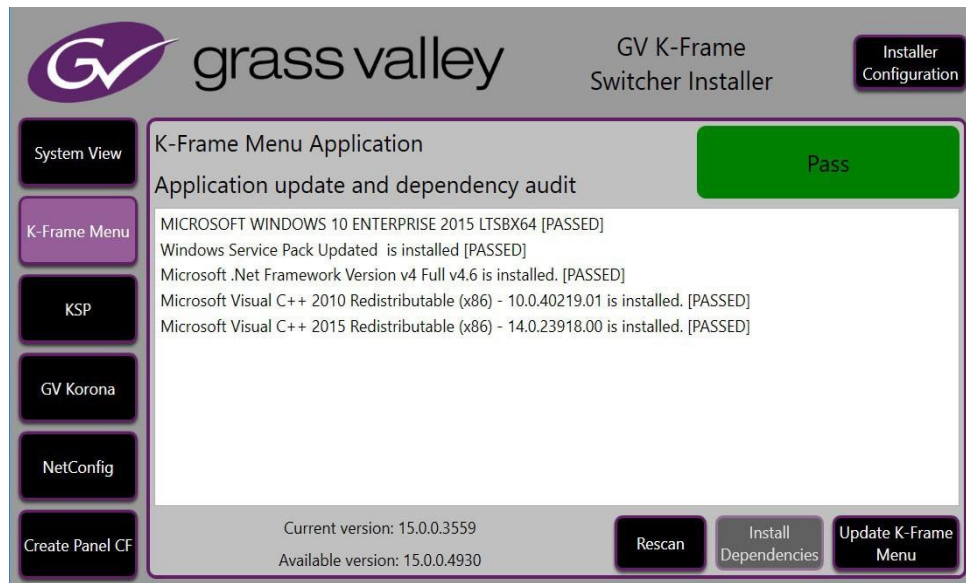
- 4 Select **Install GV Korona**.
- 5 Select **Yes, update this device** if you agree.

Update the K-Frame Menu Software

In addition to updating the K-Frame menu software, third party software can be audited and dependencies updated in the K-Frame Soft Panel Application menu.

The **Rescan** button repeats the application dependency audit.

- 1 Select **K-Frame Menu** in the GV K-Frame Switcher Installer.



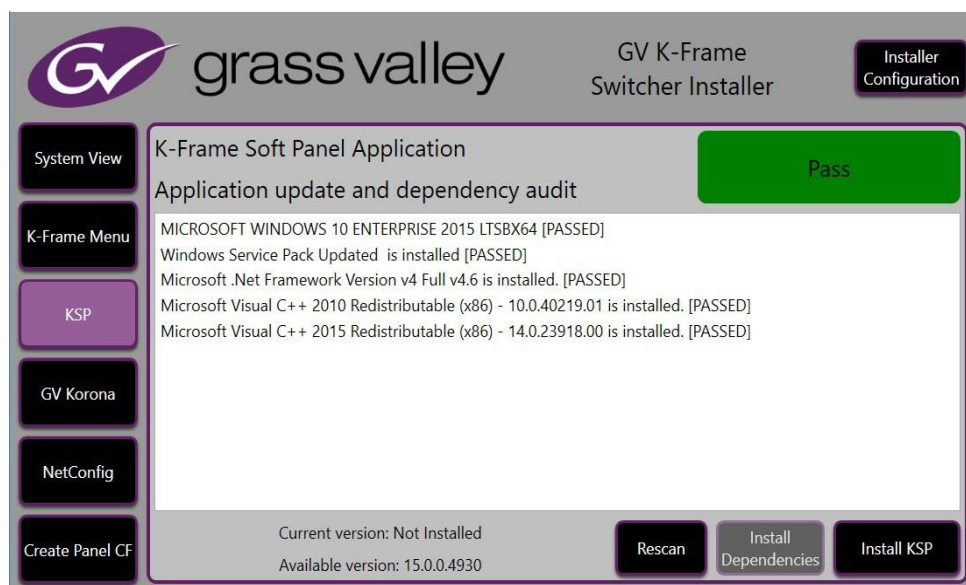
- 2 Verify that the third-party applications have passed the audit.
- 3 If not, the **Install Dependencies** button will be active, select it to update the applications.
- 4 Select **Install K-frame Menu**.
- 5 Select **Yes, update this device** if you agree.

Update the KSP (K-Frame Soft Panel) Software

In addition to updating the KSP software, third party software can be audited and dependencies updated in the K-Frame Soft Panel Application menu.

The **Rescan** button repeats the application dependency audit.

- 1 Select **KSP** in the GV K-Frame Switcher Installer.



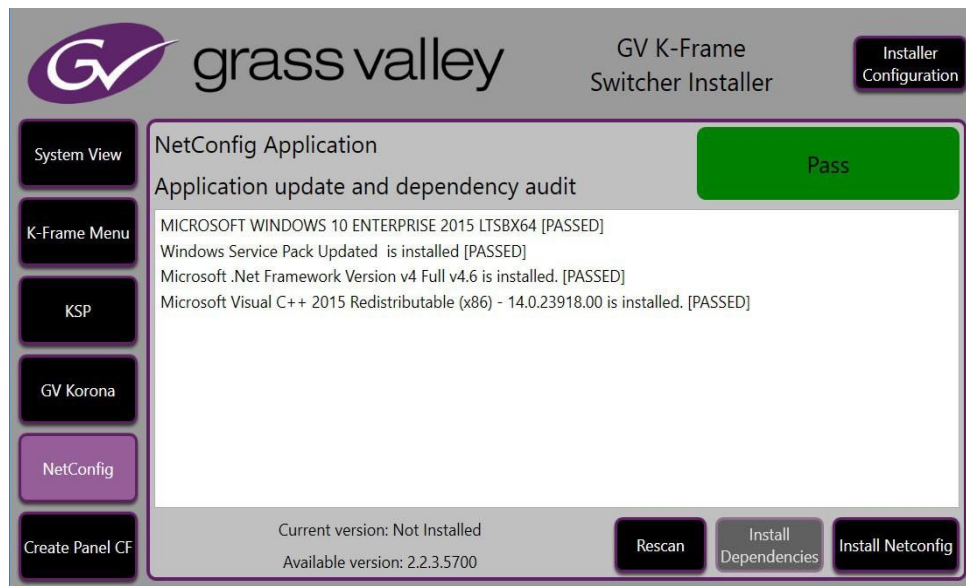
- 2 Verify that the third-party applications have passed the audit.
- 3 If not, the **Install Dependencies** button will be active, select it to update the applications.
- 4 Select **Install KSP**.
- 5 Select **Yes, update this device** if you agree.

Update the NetConfig Software

In addition to updating the NetConfig software, third party software can be audited and dependencies updated for the NetConfig Application menu.

The **Rescan** button repeats the application dependency audit.

- 1 Select **NetConfig** in the GV K-Frame Switcher Installer.



- 2 Verify that the third-party applications have passed the audit.
- 3 If not, the **Install Dependencies** button will be active, select it to update the applications.
- 4 Select **Install NetConfig**.
- 5 Select **Yes, update this device** if you agree.

Create a Control Panel Compact Flash Card

See the *Kayenne/Karrera/GV Korona Installation & Service Manual, Maintenance* section.

About Updating Spare Kayenne Control Panel Modules

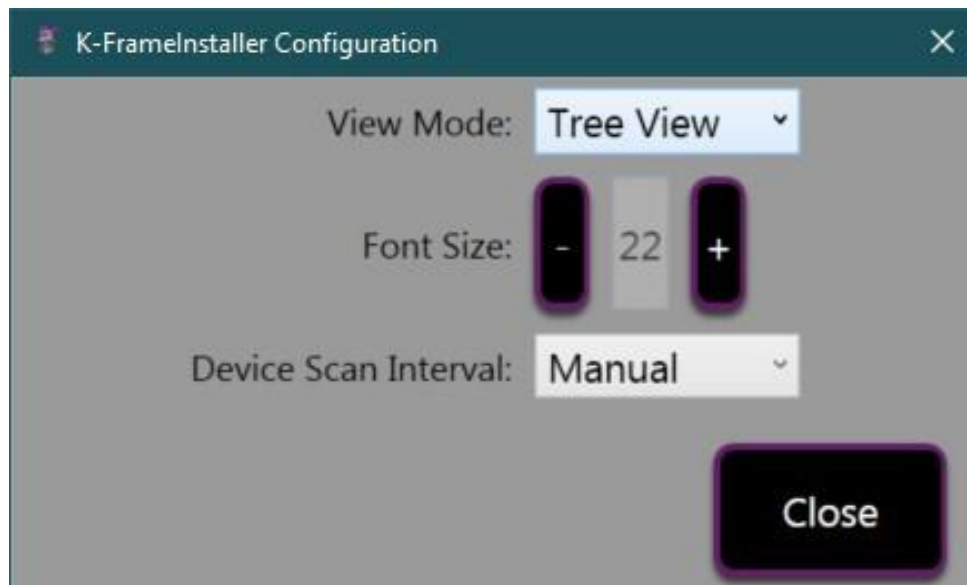
The Kayenne K-Frame Control Panel FPGAs will automatically be updated with software installation. However, spare Kayenne Control Panel Modules must be connected to the Control Panel after initial software installation and the Control Panel software re-installed so all modules are loaded with the current FPGAs and ready for use when needed.

CAUTION: Do not interrupt power to GV switcher systems during software installation; the FPGAs will revert to an older version. If power is lost during software installation, install the software once the power has been restored.

Install the Menu Panel Application Update

CAUTION: For Menu on PC, you must be logged on as administrator or the installation will fail.

- 1 Select the K-Frame Switcher Installer desktop icon, if necessary, to launch the K-Frame Switcher Installer Program.



- 2 Select the **Menu** button. The K-Frame Menu Installation tool will launch.



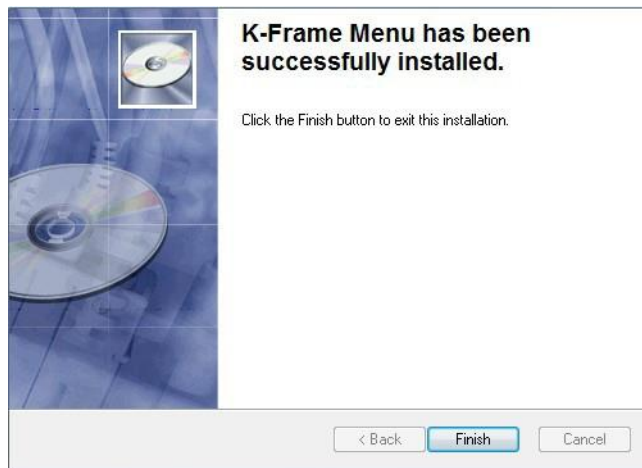
- 3 Select **Next**.

- 4 In either the Karrera, Kayenne, or GV Korona Control Panel area, choose either the Menu Platform (the Touch Screen Menu Panel) or User PC, and select **Next**.
- 5 Enter a name and organization in the User Information screen, leave the Anyone who uses this computer setting selected, and select **Next**.

Note: Selecting 'Only for me' limits some settings to the currently loggedin user. This may be appropriate if the Menu application is installed onto a PC shared by several users. However, this is not a foolproof security method and should not be relied on for mission critical applications.

- 6 Select **Next** to accept the default installation location. Alternatively, you can browse to a different location to install the application.
- 7 In the Ready to Install the Application menu, select **Next**.
- 8 When done, the Menu Successfully Installed screen appears, select **Finish**.

If you installed onto Menu hardware you will be prompted to reboot the computer.



- 9 Select **Exit** and answer **Yes** at the prompt to exit the K-Frame Installer.

Selecting the K-Frame Menu icon launches the new version of the Menu Panel application.

Touch Screen PC Installation for KSP

The KSP (K-Frame Soft Panel) installer is intended for a customer provided touch screen PC.

Soft Panel requirements:

- The installed menu software matches the K-Frame system.
- 1920 x1080 display resolution.
- Microsoft .NET Framework 4.5 Windows 7/Windows 10.
- Microsoft Visual Studio 2010 redistributable is installed.

Prepare the Touch Screen PC for KSP

The KSP option is activated with a purchased license key.

- 1 Install the menu and follow the prompts (see [Update the KSP \(K-Frame Soft Panel Software\)](#)).
- 2 Add the PC's Name and IP Address to the KSP software in the node list, in the Eng

Setup, Control Surfaces menu (see *Kayenne/Karrera/GV Korona Installation & Service Manual*).

- 3 See the *KSP Switcher Soft Panel Graphical User Interface Instruction Manual* to configure and operate the KSP, available at www.grassvalley.com.

FPGA and Board ARM Software Upgrades

CAUTION: It is recommended that HAD FPGA Board ARM Software upgrades are performed by qualified personnel only, for example an EIC (Engineer In Charge).

About Host Address Decoder FPGA Upgrades

Each CPU or Image Store board installed in a Grass Valley K-Frame Video Processing Frame has a PCI Express endpoint for communication with the host processor. These PCI endpoints are governed by the HAD (Host Address Decoder) FPGA (Field Programmable Gate Array). Software updates can include firmware upgrades for endpoint HADs. Upgrading the HADs is recommended.

Any out of date HADs will be reported by the menu, however the HAD version match can be checked with the `checkHADs` command in the Console menu (*Kayenne/Karrera/GV Korona Installation & Service Manual, Maintenance*).

About the IP I/O Board ARM Software

Depending on which software version you are upgrading from, the 16x8 and 8x4 Video IP I/O boards may require a board ARM software upgrade as part of the software installation. In most cases, the Board ARM software upgrades are automatic but there are exceptions, see the *Kayenne/Karrera/GV Korona Installation & Service Manual, Maintenance* section.

Sample Files and DPM Effects

Sample files or other elements and instructions for use are provided with an installer from the Grass Valley website. The K-Frame Sample Installer, available on the Software USB thumb drive that came with your system and from the Grass Valley website, can be used to place the K-Frame samples in the `C:\K_Frame\user\Samples` directory on the GV Switcher system.

IMPORTANT: When upgrading, install the samples after the initial software upgrade.

During installation, you can choose to install all (the default) sample effects or select specific effects, reducing installation times.

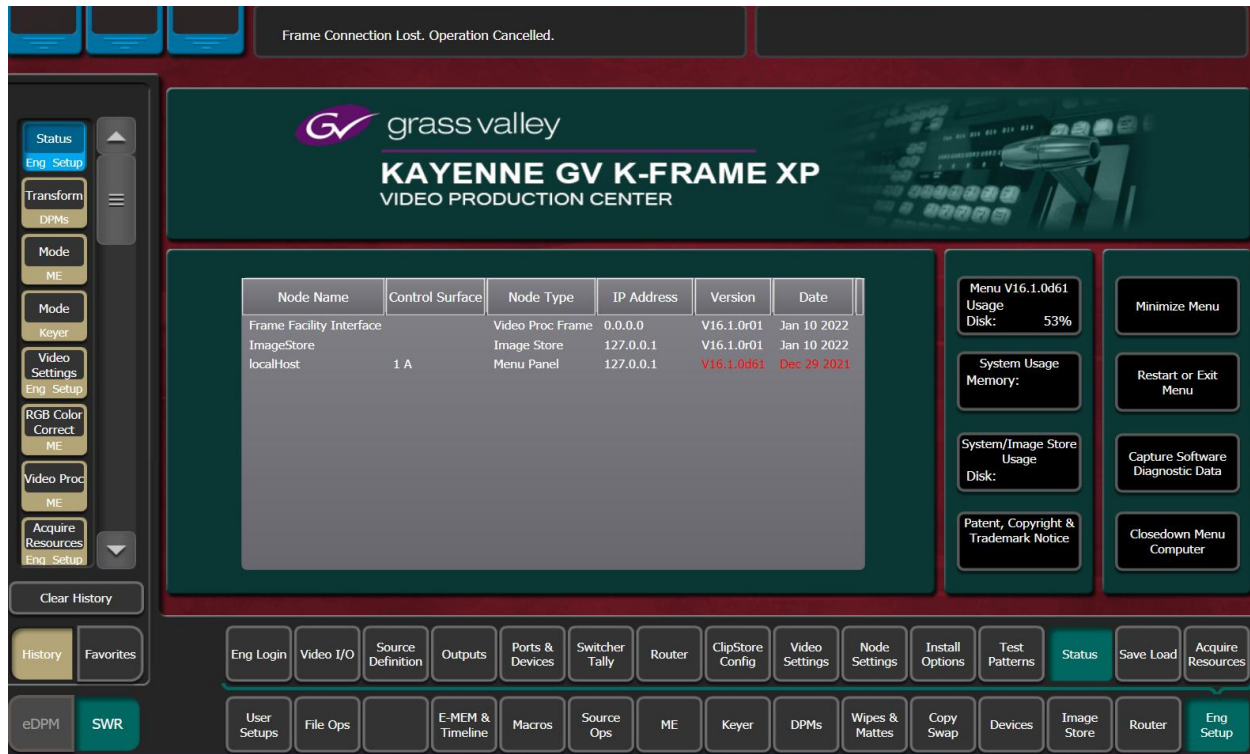
Sample DPM Effects

Sample DPM effects are provided with the K-Frame Sample Installer. It is important to read the accompanying instructions on how to load and run the sample DPM effects.

–**Note:** The C:/Images folder must be a shared folder on the network to use sample Image Store stills with sample DPM Effects.

Check Software Versions

Launch the Menu application. The Status menu lists the switcher system devices. Ensure all the components are running the same software version. Mismatched versions will be reported with red text.



Confirm System Operation

- 1 Verify that all the installed MEs are operational. Select different crosspoints on the Control Panel and fly a key with an iDPM.
- 2 Ensure that any software enabled options operate correctly. Existing authorization codes should work with the new software.
- 3 Check that EMEMs run properly:
 - Older effects should work with the new software. If there are differences, however, you will need to edit or rebuild the effect with the new software version.
 - If older effects use iDPMs, it may require that you load, update, and save the show (see the *K-Frame User Manual* for more information).
- 4 Reload the Macros and check that they operate correctly.
- 5 Load some Image Store images and confirm they display correctly.

Back up New Configuration and Effects Files

- 1 When you are satisfied with system operation, save the new configuration files and effects as a Show file to a folder you've created on that version's K-Frame Software USB

stick.

- 2 Label the media with the version and date and store it in a safe place.
- 3 Reactivate any virus protection on the Menu panel that may have been disabled at the start of this procedure.

This completes the standard switcher system software update procedure.

Update Other Grass Valley Switcher Systems Software

More than one switcher system (multiple Video Processor Frames) may reside on your network. Each system can operate simultaneously with different software versions, as long as all the components in each system run the same software version.

Additional switcher systems are updated using the same procedure as described.

- 1 Select the other switcher system on the K-Frame Installer Program System hierarchy screen, and choose Update All.
- 2 Insert the K-Frame Software USB stick into each Menu Panel or PC associated with that switcher system and choose the Menu software update button.

Individual Switcher System Component Update

Individual components can be selected for update (just the Video Processor Frame, Image Store, or just one Control Panel). However, all components of a switcher system must run the same software version. If updating components individually, make sure they all are at the same version before resuming K-Frame system operation.

CAUTION: Allow the Video Process Frame and optional Image Store to completely finish rebooting before attempting to install Control Panel software. The Control Panel update process requires the Frame to be operational.

K-Frame Software Removal With Windows OS

K-Frame Deployment Tool versions and Menu Panel programs can be removed using standard Windows techniques (Setup/Add or Remove Programs/Uninstall or Change Programs, etc.).

Deployment Archive Files

When new software versions are installed with the K-Frame Deployment tool, older version deployment files are not automatically removed. Each K-Frame deployment creates its own software version folder. If the default installation location, or the same alternative destination, is always chosen, all the version folders will be listed together.

Note: All the components of a switcher system must run the same software version. If you want to return to an earlier version of software, you should back-down the software on the Video Processor Frame, all Control Panels, and all Menu Panel applications used with that switchersystem

Default destinations:

- C:\Program Files (x86)\Grass Valley\GV Switcher\K_Frame_Switcher_VX.X for 32-bit
- C:\Program Files\Grass Valley\GV Switcher\K_Frame_Switcher_VX.X for 64-bit systems.

Running the K_FrameInstaller.exe file in any version's folder will permit installation of that version's files.

CAUTION: Before installing an older version of the Menu Panel application, you must first remove the newer, currently installed Menu Panel version, either using the newer version's K-Frame Deploy Tool or Windows Add or Remove Programs.

Calibrate the Lever Arm and Joystick

See the Maintenance section of the *Kayenne/Karrera/GV Korona Installation & Service Manual*.

K-Frame System Suggested IP Addresses

K-Frame systems are shipped with default IP addresses, and it is suggested that you reserve several IP Address in sequence to configure Control Panel suites and additional devices. These default addresses can be used if the K-Frame system is operating on a dedicated network with no other devices present.

Note that these addresses can be changed during installation so your system may not be using these defaults.

K-Frame System Default IP Addresses

Device	IP Address
Video Processor Frame	192.168.0.170
Control Panel Suite 1A	192.168.0.173
Touch Screen Menu Panel 1	192.168.0.175
ClipStore	192.168.0.180
All Subnet Masks)	255.255.255.0
All Gateways (except V1.6.5 software Remote Aux panel)	192.168.0.1
Reserved For Future Use	CAUTION: Do not connect any devices configured with the following IPaddresses to a Karrera network.

K-Frame System Default IP Addresses

Device	IP Address
Video Processor Frame Gigabit Ethernet	192.168.0.172
PCU Panel (Kayenne) Reserved LAN Port	192.168.0.174

Note: Customer orders with multiple Control Panels will be pre-configured to the listed IP addresses. However, if one of these additional Control Panels is reset to factory defaults, it will be given the standard 1A default 192.168.0.173 address.

IP Addresses and Single Control Surface Systems

A new Grass Valley system will operate on an isolated network with the default IP addresses configured at the factory (except for 32 Crosspoint Remote Aux panels). However, if you wish to integrate the system into an existing network, wish to use gateway communications, or wish to add more control surface components, then the IP addresses may need to be changed.

IP Addresses and Multiple Control Surfaces and Suites

If you plan to use multiple control surfaces (for example, more than one Control Panel or more than one Menu Panel) with the same Video Processor frame, you must make sure the IP addresses of the additional items are unique before connecting them to the network. Using default IP addresses will cause network conflicts and unpredictable system operation. See the *Kayenne/Karrera/GV Korona Installation & Service Manual* for network configuration information.



Contact Us

Grass Valley Technical Support

For technical assistance, contact our international support center, at 1-800-547-8949 (US and Canada) or +1 530 478 4148.

To obtain a local phone number for the support center nearest you, please consult the Contact Us section of Grass Valley's website (www.grassvalley.com).

An online form for e-mail contact is also available from the website.

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