K2 Dyno Production Assistant Release Notes & Upgrade Instructions Version 2.0.0

These release notes contain the most recent information and supersede previous publications, as of *June 21, 2011*. Check the Grass Valley website at *www.grassvalley.com/docs* for an updated version that contains additional important information.

Contents

Grass Valley Product Support

To get technical assistance, check on the status of a question, or to report a new issue, contact Grass Valley Product Support via e-mail, the Web, or by phone or fax.

Web Technical Support

To access support information on the Web, visit the product support Web page on the Grass Valley Web site. You can download software or find solutions to problems.

World Wide Web: *http://www.grassvalley.com/support/*

Technical Support E-mail Address: *gvgtechsupport@grassvalley.com*

Grass Valley Knowledge Base: *http://grassvalley.novosolutions.net/*

In the Knowledge Base you can search by topic, search by product, or browse the Table of Contents to find Frequently Asked Questions (FAQ).

Telephone Support

Use the following information to contact Product Support by phone.

International Support Centers

Our international support centers are available 24 hours a day, 7 days a week.

Support Center	Toll free	In country
France	+800 80 80 20 20	+33 1 48 25 20 20
United States	+1 800 547 8949	+1 530 478 4148

Authorized Local Support Representative

A local support representative may be available in your country. To locate a support center during normal local business hours, refer to the following list. This list is regularly updated on the website for Grass Valley Product Support

(*http://www.grassvalley.com/support/contact/phone/*)

After–hours local phone support is also available for warranty and contract customers.

Region	Country	Telephone
Asia	China	+86 10 5883 7575
	Hong Kong, Taiwan, Korea, Macau	+852 2531 3058
	Japan	+81 3 6848 5561
	Southeast Asia - Malaysia	+603 7492 3303
	Southeast Asia - Singapore	+65 6379 1313

Region	Country	Telephone
	India	+91 22 676 10324
Pacific	Australia	1 300 721 495
	New Zealand	0800 846 676
	For callers outside Australia or New Zealand	+61 3 8540 3650
Central America, South America	All	+55 11 5509 3440
North America	North America, Mexico, Caribbean	+1 800 547 8949; +1 530 478 4148
Europe	UK, Ireland, Israel	+44 1189 230 499
	Benelux – Netherlands	+31 (0) 35 62 38 421
	Benelux – Belgium	+32 (0) 2 334 90 30
	France	+800 80 80 20 20; +33 1 48 25 20 20
	Germany, Austria, Eastern Europe	+49 6150 104 444
	Belarus, Russia, Tadzhikistan, Ukraine, Uzbekistan	+7 495 258 09 20
	Northern Europe	+45 404 72 237
	Southern Europe – Italy	+39 06 87 20 35 28
	Southern Europe – Spain	+34 91 512 03 50
Middle East, Near East, Africa	Middle East	+971 4 299 64 40
	Near East and Africa	+800 80 80 20 20; +33 1 48 25 20 20

Release Summary

What's new

This version of software includes several improvements, in addition to correcting some problems that were present in earlier releases.

Version 2.0

- **Long GOP** — Long GOP is now supported for browsing.
- **Windows 7** — The Dyno PA client can now be run on Windows 7, 32- and 64-bit.
- **Dyno and Dyno PA keywords and markers** — You can now apply or edit Dyno keywords and markers in the Dyno PA application.
- **New Logging modes** — You can log metadata in three different modes: against an entire asset in the Asset List, against a specific timecode in an asset loaded in the Browse pane, or while recording on a managed channel.
- **Scheduled Transfers** — You can save and load the currently defined Scheduled Transfers for each channel.
- **Sessions** — Using the Dyno 2.0 software, you can now name your sessions. If you use the same session name when starting a new session, the K2-type repositories re-use the session name, and any rules created for that session are preserved in Dyno PA.
- **Dynamically updated searches with the View Filter feature** — Using the View Filters feature, you can add search criteria dynamically; the Asset List pane is automatically updated to apply the filter.
- **Auto marks** — If you add a mark-in or mark-out point, Dyno PA automatically assigns a corresponding mark-out or mark-in point. (You can specify the default value for the automatically created mark, such as 10 seconds before or after the timecode of the original in or out point.)
- **Import rules** —You can set up rules to automatically import assets to file-system repositories.
- **Active transfers** — The Active Transfer feature now lets you view the bit rate.
- **Grouped managed channels** — Managed channels can be grouped together, letting you perform basic operations such as record or play on several channels at once. (Not frame accurate.)
- **K2 Summit status** — In Dyno PA, you can view the status of the K2 Summit servers associated with your Dyno PA system. Administrators can view Summit logs.
- **Contour™ ShuttlePRO USB controller** — Dyno PA now works with the ShuttlePRO USB controller.

Version compatibility

Versions qualified for compatibility with this release of software are summarized in the following sections. This section contains the latest compatibility information.

System requirements

To run K2 Dyno PA, you need the following system requirements.

Component	Notes
At least one K2 Production Client, K2 Solo Media Server, or K2 Media Client.	Dyno PA is compatible with K2 3.3.x systems (except for the Browse feature) and K2 Summit systems version 7.2.7.1369 or higher.
A PC to run the Dyno Production Assistant platform service.	One platform service can accommodate multiple Dyno PA clients.
At least one PC to run the Dyno PA client application.	The Dyno PA application and the platform service can be run from the same PC.

Software requirements

Before installing K2 Dyno PA, verify the software requirements.

K2 Dyno PA

The K2 Dyno PA application has the following software requirements:

Software	Version	Notes
Microsoft .Net Framework	4.0	Included in the prerequisites installer file.
Microsoft DirectX	9 (June 2010)	
Sabretooth	2714	
Quantum SNFS software	3.5.2.1.b15620	Only needed if using the Browse feature.
Generic iSCSI software	The version matching the K2 software on your system	Only needed if using the Browse feature on a K2 SAN system.

K2 Media Client

The K2 Media Client has the following software requirement:

Software	Version	Notes
K2 software	3.3.2.1412 For information on configuring the K2 software, consult the K2 Media Client documentation.	The Browse feature is not supported in the version 3.3 standalone server.
SiteConfig Discovery Agent	1.1.0.190	Recommended for best performance.

K2 Summit Production Client/K2 Solo Media Server

The K2 Summit Production Client/K2 Solo Media Server has the following software requirements:

Software	Version	Notes
K2 Summit software	7.2.7.1369 or higher. For information on configuring the K2 Summit software, consult the K2 Summit Production Client documentation.	The Browse feature is supported.
SiteConfig Discovery Agent	1.1.0.190	Recommended for best performance.
Quantum SNFS software	3.5.2.1.b15620	Only needed if using the Browse feature.

In addition, if using Browse, the standalone K2 Summit Production Client/K2 Solo Media Server must have the following:

Component	Notes
A unique file system name and storage disk labels.	If K2 Summit 7.2x or higher software was installed on this system, it already has a unique file system name and storage disk labels. If upgrading from a version of K2 Summit software previous to 7.2, refer to *About unique file systems and K2 Dyno PA* in the *K2 Dyno PA Configuration Manual*.
Dyno PA-specific network adapter order.	For more information, refer to *Ordering the network adapters for K2 Dyno PA* in the *K2 Dyno PA Configuration Manual*.

K2 Dyno Replay Controller

The K2 Dyno Replay Controller has the following software requirement:

Software	Version	Notes
K2 Dyno Replay Controller	2.0 or higher For information on the K2 Dyno Replay Contoller software, consult the K2 Dyno Replay Contoller documentation.	If using a K2 Dyno Replay Controller with the K2 Dyno PA system.

Hardware requirements

Before installing K2 Dyno PA, verify the hardware requirements.

The Dyno PA application and the platform service have the same hardware requirements, with the exception of the video board. The hardware specifications are listed in the following table.

Component	Minimum required hardware	Recommended hardware
Platform	PC desktop or laptop, Core i5 processor (or equivalent)	PC desktop or laptop, Core i7 processor (or better)
Operating system	English (US) Windows XP 32b SP3, or English (US) Windows 7 32-bit or 64-bit	
Video board	Integrated or discrete graphics with a minimum of 256 MB of memory (not required for the platform service)	Discrete graphics with a minimum of 512 MB of memory (not required for the platform service)
RAM	2 GB	4 GB
Network	1 GigE Ethernet	
Disk	80GB 7200 rpm	
Keyboard and mouse	Standard	

Upgrading K2 Dyno PA

This section contains the tasks necessary for the upgrade to this release of software.

Prepare for upgrade

Before upgrading, do the following:

- Procure the software installation files for this release and make them available to the systems you are upgrading via the appropriate method such as CD-ROM, network drive, or external drive.
- On your K2 Summit system, upgrade the SiteConfig Discovery Agent as described in *Upgrading the SiteConfig Discovery Agent software for K2 Dyno PA*.
- Stop the GV Platform service. (As of version 2.0, this is now called the Dyno Production Assistant platform service.)

Upgrading the SiteConfig Discovery Agent software for K2 Dyno PA

For best performance, Grass Valley recommends that you upgrade the SiteConfig Discovery Agent on your K2 system to the version specified in the *Version Compatibility* section of these release notes. You can download the Discovery Agent from the website.

1. Install the SiteConfig Discovery Agent.
2. During the installation process, select your K2 system as follows:

   - For a standalone K2 Summit Production Client, select **K2 Summit Standalone Client** from the Device Type drop-down list.
   - For a K2 Summit SAN, select **K2 Summit SAN Client**.
   - For a K2 Solo, select **SoloMediaServer**.
   - For a standalone K2 Media Client, select **K2Standalone**.
   - For a K2 SAN, select **K2Client**.

3. After installing the Discovery Agent, reboot the K2 system.

Upgrade K2 Dyno PA systems

Before upgrading the software, the following tasks need to be done:

- Verify that the prerequisite software is the appropriate version specified in the *Version Compatibility* section. If necessary, download and run the Prerequisites installer from the website.
- Stop the platform service before upgrading the software.

As of version 2.0, the K2 Dyno PA software files are installed under new folder names. During the upgrade procedure, you will need to transfer your old system configuration into the new software location.

1. Uninstall the previous version of K2 Dyno PA software (the Dyno PA software and the GV platform service software).
2. Upgrade your K2 systems to the compatible versions of software. Refer to *Version Compatibility* for version information.
3. Upgrade the K2 Dyno PA software. Refer to the installation procedures described in the *K2 Dyno PA Configuration Manual*.

4. Locate the original software installation folder for the platform service: `C:\Program Files\ Grass Valley\Dyno_Svc`.

5. Copy the *Applications* and *Environment* sub-folders and paste them into the new install folder for the platform service: `C:\Program Files\Grass Valley\Dyno PA Platform Service`.

   The system configuration is transferred into the new version.

Enabling SNFS

If using the Browse feature of the K2 Dyno PA application, perform this task as part of the upgrade procedure.

1. Log into the Dyno PA application as an administrator.

2. Right-click in the Navigator pane and select **Edit Server**

3. Under **SNFS Configuration**, configure the SNFS based on your K2 system:

   • If using Dyno PA with a standalone K2 Summit server, make sure the file system name is listed in the Configuration Settings and click **Enable SNFS**.

   • If using Dyno PA with a K2 SAN, the drive letter for the iSCSI connection to the FSM is **V:**.

4. After enabling SNFS for all the servers, restart the Dyno PA PC.

About K2 Dyno PA licensing

K2 Dyno PA requires a license from Grass Valley. Licensing is enforced on the Dyno Production Assistant platform service, so every machine running the service must have a valid license in place. When the platform service is installed, it places license request wizards on the Windows desktop, one for each type of Dyno PA license.

Dyno PA software installs with a trial license in place. You must obtain a permanent license from Grass Valley and install it on the machine before the trial period expires.

About software licensing

Licenses are requested through the License Wizard and managed through the SabreTooth License Manager, which is installed on the Grass Valley product with the Grass Valley software. The License Wizard and SabreTooth License Manager must be located on the Grass Valley product.

License information is stored in text files that you can manage just like any other file on your system. Licenses are unique to the system for which they are requested and cannot be used on any other machine. You should back up the license text files to a separate drive or as part of a recovery image.

Licenses are based on your system's unique identifier, which is partially derived from your system's Media Access Control (MAC) address. If you change your system's MAC address by performing operations such as changing the System Processor card, you must obtain a new license based on the new MAC address.

Requesting a license

This topic applies to Grass Valley Sabretooth licenses. Software licenses are unique to the system for which they are purchased. They cannot be used on any other system. This requires that you provide a generated unique ID for the desired system to Grass Valley, which is then used to create your unique license.

1. Log on to the device that you want to license.
2. Open the License Request Wizard.

   Find the License Request Wizard shortcut on the Windows desktop.

   The License Request Wizard displays.

3. Read the on-screen instructions, then click **Next**.

   The Customer dialog box displays.

4. Enter the information requested on this page then click **Next**.

   You must provide a valid email address to receive your license file.

   The Sales Number dialog box displays.

5. Enter the Sales Order Number in the field then click **Next**.

   Typically the Sales Order Number is found on the Software License sheet that you received with your Grass Valley product.

   The Summary dialog box displays.

6. Review the License Request information and click **Finish**.

   A License Request text file, `License_Request_<SalesNumber>.txt`, is generated and saved to the Windows Desktop.

   NOTE: If you are requesting licenses for more than one application, be sure to modify the name of the first License Request text file before saving it to your desktop. (In Notepad, use the Save As command.) Otherwise, the second License Request text file will overwrite it.

7. Do one of the following:

   • Attach the License Request text file to an email.

   • Paste the text directly into an email message.

   You might want to keep a copy of the message for your records.

8. Send the email as instructed by the License Request Wizard.

   An email will be sent from Grass Valley to the return email address you specified; your SabreTooth software license will be provided as a text file.

9. Save this email in case you ever need to re-image this machine.

If you encounter any difficulties during this procedure, see *If you encounter difficulties when requesting a license*. Otherwise, proceed to *Adding a license*.

Related Links

If you encounter difficulties when requesting a license on page 14

Adding a license on page 14

If you encounter difficulties when requesting a license

If you encounter difficulties when running the License wizard, try this alternate method:

1. Generate a unique ID of the device where you will install software, as follows:

   a) Click on the License Manager icon on the Windows Desktop.

      The SabreTooth License Manager opens.

   b) Choose **File | Generate Unique Id** the License Manager.

   c) Click **Copy to clipboard** to copy the generated ID, and **OK** to exit.

2. Prepare an email that includes the following information:

   • Customer Name
   • Customer Email
   • Sales Order Number
   • Unique ID of the device where you will install software.

3. Send the email to K2License@grassvalley.com

The SabreTooth license number will be emailed to the email address you specified.

Related Links

Adding a license

Your software license, *Licenses_<SalesNumber>.txt*, is provided as a text file. Use the License Manager to add this file to your system and enable the desired feature.

1. Click on the License Manager icon on the Windows Desktop.

   The SabreTooth License Manager opens.

2. Do one of the following:

   • Choose **File | Import License** and navigate to the file location to open the text file.
   • Drag and drop the text file onto the License Manager.

   You will now see the permanent license in SabreTooth, as well as any other licenses, permanent or temporary, that have been installed on this machine.

Once you have added the permanent license, you can delete the temporary license. If the temporary license is still in SabreTooth you will continue to get temporary license notifications, even with the permanent license installed, unless you delete the temporary license.

You should archive the permanent license to a backup system.

Related Links

Requesting a license on page 13

Archiving licenses

You can archive your licenses to a secure external location. This allows you to quickly re-install a license should it be deleted or should you have to downgrade and then re-license the software. You can archive multiple licenses at the same time.

NOTE: If you downgrade to an earlier version of the licensed software, make sure to archive the licenses first.

1. In the SabreTooth License Manager, select the license or licenses.

2. Choose **File | Export License** to open the Save As dialog box.

3. Assign a meaningful name to the file, and archive it to the desired location. Grass Valley recommends saving the license file to a USB drive or other external location.

Related Links

Requesting a license on page 13

Deleting licenses

Deleting a license disables the feature that it enabled. You might want to delete a temporary license prior to its expiry if you have decided not to purchase the feature. You can delete a temporary license after the permanent license has been installed without disabling the licensed product.

1. Select the license in the SabreTooth License Manager.

2. Use the Delete key on your keyboard or right click with your mouse and select **Delete**.
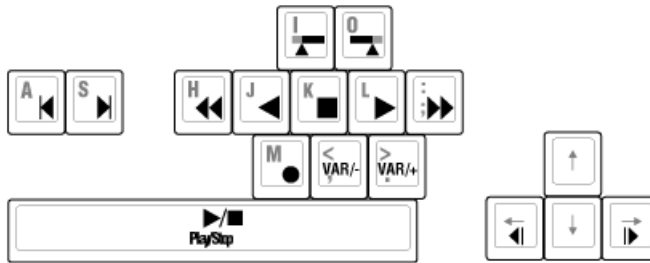
Related Links

Requesting a license on page 13

About using K2 Dyno PA with Contour controllers

If using a Contour™ ShuttleXpress or ShuttlePRO v2 controller, the config files required to use the controllers with K2 Dyno PA can be downloaded from the website.

Keyboard shortcuts

The K2 Dyno PA keyboard mappings are described below.

Off-speed play controls

The following table describes the off-speed play controls. Repeating the key sequence increments the play speed forward or backward to the maximum shuttle speed in that direction.

To do this...	Press
Play faster	Shift + L
Play slower	Shift + J

Stop-mode play controls

To do this...	Press
Cue to mark-in	A *or* Shift + I
Play slower	S *or* Shift + O
Next frame	.
Previous frame	,

Mark-point and cue controls

To do this...	Press
Set mark-in	I
Set mark-out	O
Clear mark-in	Ctrl + I
Clear mark-out	Ctrl + O

Miscellaneous controls

To do this...	Press
Live play	Ctrl + L

Operational Considerations

Networking

- **Dual network adapters on the PC running the Dyno Production Assistant platform service** — If the machine running the platform service has more than one network interface enabled, you should make sure that the Network Interface connected to the Summit Control LAN has a DNS server specified in the TCP/IPv4 properties. If no DNS server is available, then use the machine's IP address on the Control LAN, or use localhost (127.0.90.1).
- **Using K2 Dyno PA with a Firewall** — Grass Valley recommends that K2 Dyno PA be run without a firewall. If a firewall is necessary, ensure that port 49173 is allowed full access on the PC with the Dyno Production Assistant platform service installed and all PCs running the K2 Dyno PA application.
- **Anti-virus software** — Certain non-critical features are not supported with anti-virus software; K2 Dyno PA performance might be affected.
- **Network connection difficulties can affect metadata** — Intermittent network connection issues can produce unexpected results in sub-clip metadata.

K2 server

- **Start the K2 Summit SAN and its clients before starting K2 Dyno PA** — If K2 Dyno PA is started before the K2 Summit SAN system has finished booting up, the K2 Summit SAN clients do not initialize.
- **Host tables** — Dyno PA, and any devices that it's connected to, must use a host table that is in sync with the host table on its K2 system. For more information on host tables used with K2 servers, refer to the *K2 System Guide*.
- **SNFS (DLC server) limitations** — Regardless of the number of K2 Summit systems being monitored, when configuring DLC software on a K2 Summit system Grass Valley recommends that there be no more than three K2 Summit systems listed in the FsNameServers file. One of these listed K2 Summit systems must be powered up first, before any K2 Dyno PA clients or any other device that uses the server. For more information on DLC configuration, see the *K2 Dyno PA Configuration Manual*.
- **K2 Summit bin names** — K2 Summit bins can be created or deleted through the K2 Dyno PA application, but bins must be renamed on the K2 Summit system directly.
- **Continuous Record with the Scheduled Transfer and Browse features** — The Scheduled Transfer and Browse features in Dyno PA are not compatible with the Dyno PA's ability to use the Continuous Record capabilities in a K2 Summit system for managed channels. Loop Record is supported with the K2 Dyno 2.0 software.

K2 Dyno Replay Controller

- **Guard band behavior in Dyno PA and Dyno** — Guard bands in Dyno PA differ from guard bands in Dyno. If Dyno PA initiates a transfer, Dyno PA guard bands are applied to the transferred asset. If a Dyno Replay Controller initiates a transfer, Dyno guard bands are applied for the transfer ("Send" in Dyno).
- **Deleting assets in search queries** — If K2 Dyno PA is set to search all bins, assets in the recycle bin appear in the search query. To avoid this, you can empty the recycle bin or configure Dyno PA to specifically search all other bins except for the recycle bin.
- **Editing angles in Dyno PA and the Dyno Replay Controller** —If you edit metadata on one angle in Dyno PA, the Dyno Replay Controller shows the change across all the angles.

- **Continuous Record with the K2 Dyno Replay Controller** — Continuous record functions with Dyno PA 2.0 and K2 Summit 7.4 software. However, do not use continuous record in a system with Dyno Replay Controller 2.0 software.
- **File Export and Loop Record** — The File Export features (Scheduled Transfer, Send To, Rules, Drag and Drop transfer) in Dyno PA are not yet fully compatible with the K2 Dyno Controller Loop Record feature. Attempts to transfer all, or part, of an asset that is still in record, with the Loop Record feature enabled, may fail. This does not affect exports of sub-clips (highlights).

Known Issues

The following limitations are present in this release of software. If you wish to obtain more information about these limitations, please mention the reference numbers.

PR40921	Description:	If transferring a Dyno 2.0 auxiliary playlist, Dyno PA transfers the video playlist and the auxiliary-only playlist separately.
	Workaround:	N/A
PR40922	Description:	If transferring a Dyno 2.0 highlight manually, Dyno PA displays all the angles as separate assets.
	Workaround:	Transfer Dyno 2.0 highlights with rules that use Dyno metadata, such as a Dyno keyword or rating.
PR40923	Description:	The Scheduled Transfer and Browse features in Dyno PA are not yet compatible with the Dyno Loop Record feature or the ability to re-join an existing session.
	Workaround:	You can schedule a transfer with Loop Record so long as the current transfer point remains ahead of the mark-in point of the looped record. Otherwise, start a new session each time; do not use Loop Record.
PR41010	Description:	Export of assets in P2 format to a remote file system is not supported.
	Workaround:	Export P2 assets to devices connected to the K2 Summit system that is exporting the asset.
PR41011	Description:	Export of assets in AVI format is not supported.
	Workaround:	N/A
PR41012	Description:	From the Dyno PA Navigator pane, if you create a sub-clip of an asset that's listed under a Dyno Session, this can cause issues if a Dyno controller re-joins that Dyno session.
	Workaround:	When creating sub-clips in Dyno PA, select a bin that is not a Dyno Session bin. By default, Dyno PA creates sub-clips in the bin that is currently selected in the Navigator pane.