

K2 Dyno PA

LIVE PRODUCTION CONTENT MANAGEMENT
SYSTEM



Configuration Manual

Software Version 1.5



Affiliate with the N.V. KEMA in The Netherlands

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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

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4377 County Line Road
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Ph: (215)997-4519
Fax: (215)997-3809

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K2 Dyno PA

LIVE PRODUCTION CONTENT MANAGEMENT
SYSTEM



Configuration Manual

Software Version 1.5

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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.

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	Japan	+81 3 6848 5561
	Southeast Asia - Malaysia	+603 7492 3303
	Southeast Asia - Singapore	+65 6379 1313

Region	Country	Telephone
Pacific	India	+91 22 676 10324
	Australia	1 300 721 495
	New Zealand	0800 846 676
	For callers outside Australia or New Zealand	+61 3 8540 3650
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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, Tadjikistan, 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
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Near East and Africa		+800 80 80 20 20; +33 1 48 25 20 20

Chapter 1

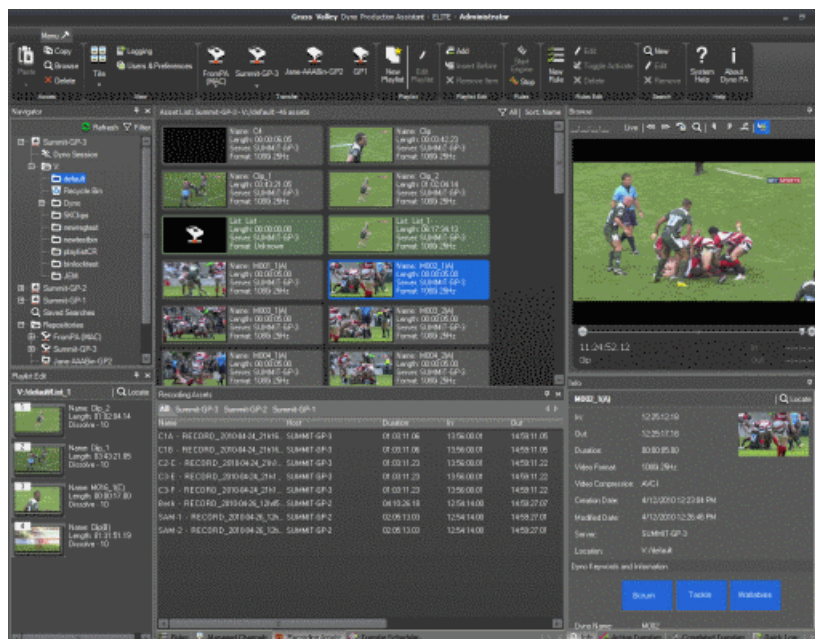
About K2 Dyno Production Assistant

This section contains the following topics:

- *About K2 Dyno Production Assistant*
- *Using K2 Dyno PA*
- *About K2 Dyno PA User Interface*
- *Customizing the K2 Dyno PA user interface*

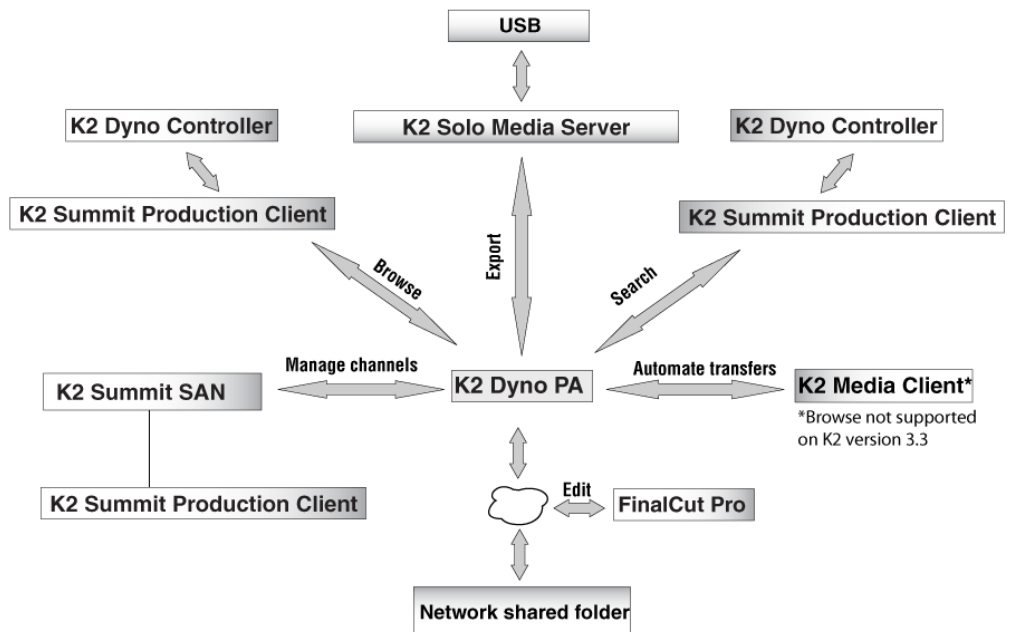
About K2 Dyno Production Assistant

K2 Dyno Production Assistant (Dyno PA) is a software platform composed of the Dyno PA application and the Grass Valley platform service. The platform service allows users on various Dyno PA clients to access assets as well as share saved searches, keywords, and transfer rules.



NOTE: The Dyno PA application can be used with K2 Media Clients, K2 Summit Production Clients, and K2 Solo Media Servers. When a procedure can be applied to any of these, the term K2 system is used. A K2 Summit Production Client with internal storage is referred to as a standalone K2 Summit system. A K2 Summit Production Client with external storage (an FSM server and a RAID) is referred to as a K2 Summit SAN system. Where a procedure can be applied to a K2 Summit Production Client (in a standalone or SAN system) or a K2 Solo Media Server, the term K2 Summit system is used. The Dyno PA application runs on a machine referred to as the Dyno PA client.

Dyno PA can manage various K2 systems to perform several different tasks.



Related Links

- [About K2 Dyno PA User Interface](#) on page 12
- [Customizing the K2 Dyno PA user interface](#) on page 14
- [Using K2 Dyno PA](#) on page 11

Using K2 Dyno PA

This section describes three of the common workflows for the K2 Dyno PA application.

Content Management/Controller workflow

This workflow describes a role that principally deals with assets. The user can be manually exporting or transferring assets about the network, creating playlists, loading assets onto managed channels, creating rules for automatic transfers/exports, creating searches, managing repositories, setting up scheduled transfers, and adding keywords to assets.

Logger workflow

This workflow is more about metadata enrichment of record trains from the K2 Dyno Replay Controller. Users load source clips into the Browse pane and then using the keyframe logging mode add keyframes (keywords with timecode context) to assets. Users can also add Dyno PA keywords to Dyno highlights or other assets in the system.

Judiciary/Review workflow

This workflow describes the use of the Browse pane to review footage from a live event from multiple angles, possibly as part of a formal judiciary process such as a

video referee. The Browse, Recording Assets and Keyframe panes are used to quickly find points within the record trains and then to switch between trains keeping the current timecode context.

Related Links

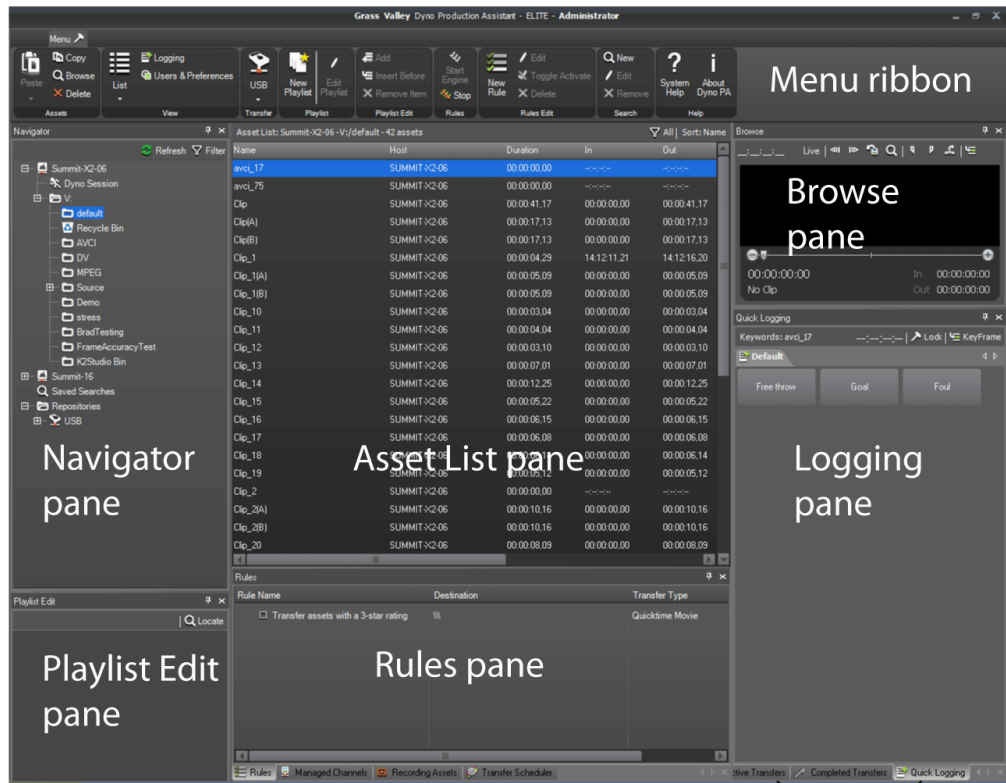
[About K2 Dyno Production Assistant](#) on page 10

[About K2 Dyno PA User Interface](#) on page 12

[Customizing the K2 Dyno PA user interface](#) on page 14

About K2 Dyno PA User Interface

The K2 Dyno PA user interface is composed of several panes that can be hidden or dragged to different areas of the screen. Highlighted items, such as bins, playlists, or managed channels, are displayed with a blue background.





Rules, managed channels, recording assets, and transfer scheduler tabs


Transfer status and quick logging tabs



The Dyno PA panes are described below.

NOTE: *If your Dyno PA system is not licensed to use a particular feature, that pane is not displayed in the Dyno PA application.*

Navigator pane: Lists all the K2 systems that have been added as a server to the Dyno PA client, the current Dyno session, bins (folders on a K2 system), repositories (folders on a user-defined location), and any search queries that have been saved. The **Refresh**  and **Filter**  buttons let you update the list or select which K2 systems you want to display. You can add, edit or delete servers, bins, repositories, and searches in this pane.

Server Information pane: If a K2 system in the Navigator pane is highlighted, the Server Information pane displays, showing the status and version information of that K2 system. When the K2 system is not highlighted, the Server Information pane is not accessible.

Playlist pane: Displays the playlist currently being edited. In this pane, clicking the **Locate** button  causes the Asset List pane to display the bin on the K2 system where this playlist is located.

Asset List pane: Lists, either in thumbnail or list view, all the assets on the bin, repository, or Dyno session currently highlighted in the Navigator pane. The **Filter** button  lets you view all the assets in a system or view assets from a specific camera angle. The **Sort** button  lets you group assets by criteria such as name, creation date, rating, and so on.


Rules pane: Displays all the rules currently configured. In this pane, you can add, edit, activate or delete rules that tell K2 Dyno PA when to transfer an asset and where to transfer it to. Clicking the Rules tab displays the Rules pane if it is covered by other panes.


Managed Channels pane: Displays all the currently configured record and play channels on K2 systems that can be controlled through the Dyno PA application. If you have administrator-level privileges on Dyno PA, you can add, edit, or delete channels in addition to playing, recording, stopping, fast-forwarding, rewinding, or ejecting assets or putting an asset in loop playback mode. Clicking the Managed Channels tab displays the Managed Channels pane if it is covered by other panes.

Recording Assets pane: Displays all the records currently in progress on the K2 systems. You can view the records in list or thumbnail view, browse a record or load it to one of the K2 systems. The tabs above the record trains let you choose whether to view record trains on one K2 system or all available systems. Clicking the Recording Assets tab displays the Recording Assets pane if it is covered by other panes.

Transfer Scheduler pane: Displays the scheduled transfers. You can add, edit, cancel or delete scheduled transfers in this pane. Clicking the Transfer Scheduler tab displays the Transfer Scheduler pane if it is covered by other panes.

Browse pane: Allows you to load assets from a K2 Summit system and view them in Dyno PA. You can create cue points, mark in or mark out points, create subclips, unload the asset or locate it in the Asset List, and toggle between Live mode and


Keyframe Logging mode. In this pane, clicking the **Locate** button  causes the Asset List pane to display the bin on the K2 Summit system where the asset loaded in the Browse pane is located.

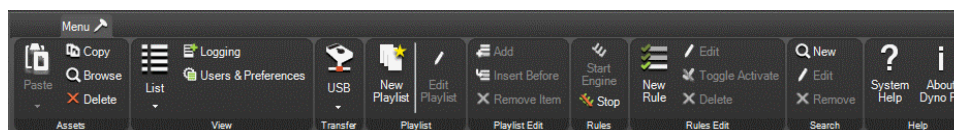
Info pane: Allows you to view the video and keyword information of a highlighted asset. Clicking the Info tab displays the Info pane if it is covered by other panes. In this pane, clicking the **Locate** button  causes the Asset List pane to display the bin on the K2 system where the asset loaded in the Info pane is located.

Active Transfer pane: Allows you to view transfers currently in progress as well as failed transfers, if any. Clicking the Active Transfer tab displays the Active Transfer pane if it is covered by other panes.

Completed Transfer pane: Allows you to view the status of completed transfers. Clicking the Completed Transfers tab displays the Completed Transfer pane if it is covered by other panes.

Quick Logging pane: Allows you to associate Dyno PA keywords and keyframes (keywords linked to a specific timecode) with assets or remove them from assets. You can also add, edit, delete or export Dyno PA keywords from categories and view Dyno keywords and ratings. Clicking the Quick Logging tab displays the Quick Logging pane if it is covered by other panes.

Menu Ribbon: The menu is based on the Windows Ribbon interface. When you click on the **Lock** button , the menu ribbon displays. If you double click on the button, the menu remains fixed at the top of the user interface. Double clicking the button again hides the menu ribbon again.



Related Links

[About K2 Dyno Production Assistant](#) on page 10

[Customizing the K2 Dyno PA user interface](#) on page 14

[Using K2 Dyno PA](#) on page 11


Customizing the K2 Dyno PA user interface

The K2 Dyno PA interface is based on the standard Microsoft Dockable Windows user interface. The Asset List pane is fixed; it cannot be moved or closed. However,

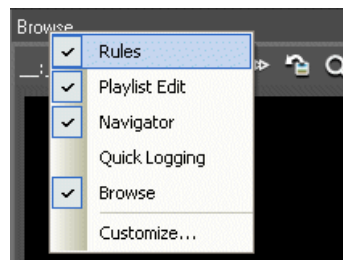
you can arrange the other panes around it, which effectively moves the Asset List pane in relation to the other panes.

Any changes made to your layout are automatically saved when you log out of the Dyno PA application. The layout information is saved by the Grass Valley platform service, so your customized layout can be accessed, if you log into Dyno PA with the same username and password, from any Dyno PA client that shares that particular Grass Valley platform service.

1. To close or hide/unhide a pane in Dyno PA, you can do the following:

- To hide a pane, click the **Thumbtack** button . A hidden pane remains off to the side, with only its title visible. This allows you to customize the interface for a particular workflow. For example, you could close down some panes so that you can view more assets at one time in the Asset List pane.
- To display a hidden pane briefly, hover the mouse over the pane title.
- To unhide the pane, hover the mouse over the pane title and then click the **Thumbtack** button.
- To close the pane click the **X** in the upper-right corner of the pane.
- To open the pane up again, right-click on the title of another pane and select the closed pane from the options. In the following illustration, the Quick Logging pane has been closed, and right-clicking on the title of the Browse pane displays the Quick Logging pane unchecked.

NOTE: *This list displays the panes that are visible; that is, panes that are not hidden beneath other panes. For example, the Completed Transfers pane is not shown here because it is hidden beneath the Quick Logging pane. The Customize pane is not available in this release.*



2. To move a pane around in Dyno PA, you can do the following:

- To open a pane as a separate window, double click the pane status bar. To restore a pane to its previous location, double click the pane status bar again.
- To drag a pane from one location to another in the user interface:
 - a) Click the status bar and hold the mouse button down.

While the mouse button is being held down, a cursor appears and direction arrows are displayed in the center of the user interface and on each side of the screen.

- b) Drag the cursor until it is over the arrow where you want the pane to be placed.

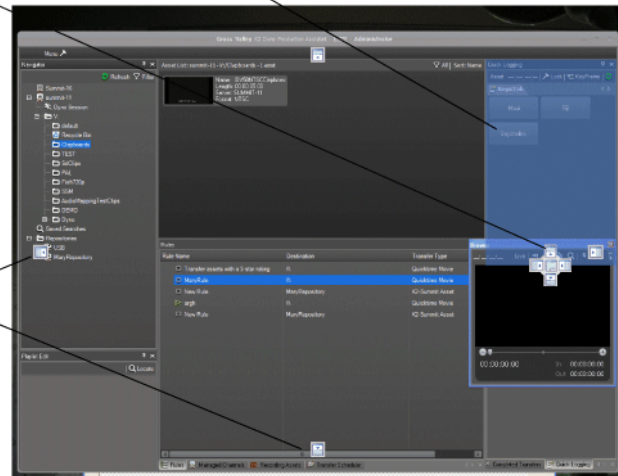
- c) Release the mouse button.

The pane appears in the new location.

Drag the cursor over the arrow that is in the relative position where you to insert the pane.

The location where the pane will be inserted when you release the mouse is highlighted in blue.

When you move a pane by the status bar, arrows display on four sides of the application. You can drag the pane over one of these arrows or position the pane over the central 4-way arrow. The 4-way arrow moves as you drag the pane, so you can position the pane exactly where you want it to be in the application.



3. If panes are grouped together, you can separate one of the panes from its group by clicking on its tab and dragging it to another section of the UI. To add a pane to a group, drag the pane to the group and drop it onto the center of the four-way arrow.
4. To change the font type, style, or size, select **Users & Preferences** from the menu and select the desired font options.
5. Layouts are automatically saved on the Grass Valley platform service PC when you exit the Dyno PA application. To export a layout, select **Users & Preferences** from the menu and click the **Save Layout** button.
6. To open a layout that has been stored locally, select **Users & Preferences** from the menu and click the **Load Layout** button.
7. To restore the default layout, select **Users & Preferences** from the menu, highlight the user, click **Default Layout** and then click **Yes**.

When you next restart Dyno PA, the layout returns to the default settings.

Related Links

- [About K2 Dyno Production Assistant](#) on page 10
- [About K2 Dyno PA User Interface](#) on page 12
- [Using K2 Dyno PA](#) on page 11

Chapter **2**

K2 Dyno PA prerequisites

This section contains the following topics:

- *System requirements*
- *Hardware requirements*
- *Software requirements*

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 7.2.x systems.
A PC to run the Grass Valley 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.

Related Links

[Software requirements](#) on page 19

[Hardware requirements](#) on page 18

Hardware requirements

Before installing K2 Dyno PA, verify the hardware requirements.

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

Component	Required hardware
Platform	PC desktop or laptop Core 2 Duo @ 2 GHz minimum
Operating system	English (US) Windows XP 32b SP3
Video board	Integrated or discrete graphics with a minimum of 128 MB of memory (not required for the platform service)
RAM	2 GB (minimum)
Network	1 GigE Ethernet
Disk	80GB 7200 rpm
Keyboard and mouse	Standard

Related Links

[Software requirements](#) on page 19

[System requirements](#) on page 18

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	3.5 SP1	
Microsoft DirectX	August 2009	
Quantum SNFS software	3.5.2.14727	Only needed if using the Browse feature.
Generic iSCSI software	7.2.7.1369	Only needed if using the Browse feature on a K2 Summit SAN system. Download and run the <i>727b1369_gi.exe</i> file.

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.

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 software	7.2.7.1369 or higher. For information on configuring the K2 software, consult the K2 Summit Production Client documentation.	The Browse feature is supported.
Quantum SNFS software	3.5.2.14727	Only needed if using the Browse feature.

Software	Version	Notes
DLC Tool	1.5.0.1590	Only needed if using the Browse feature on a standalone K2 Summit system.

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

Component	Notes
A unique file system name and storage disk labels (standalone only).	If K2 Summit 7.2x software was installed on this system, it already has a unique file system name and storage disk labels. If upgrading to K2 Summit 7.2x software from a previous version, refer to <i>Creating a unique file system name and storage disk labels</i> in the <i>K2 Dyno PA Configuration Manual</i> .
Dyno PA-specific network adapter order.	For more information, refer to <i>Ordering the network adapters for K2 Dyno PA</i> in the <i>K2 Dyno PA Configuration Manual</i> .

K2 Dyno Replay Controller

The K2 Dyno Replay Controller has the following software requirement:

Software	Version	Notes
K2 Dyno Replay Controller	1.6.0.119 or higher For information on the K2 Dyno Replay Controller software, consult the K2 Dyno Replay Controller documentation.	If using a K2 Dyno Replay Controller with the K2 Dyno PA system.

Related Links

[Hardware requirements](#) on page 18

[System requirements](#) on page 18

Configuring the K2 Summit SAN and K2 Dyno PA

This section contains the following topics:

- *About configuring K2 Summit SAN systems*
- *About the K2 Dyno PA application and the Grass Valley platform service*
- *Starting the K2 Dyno PA application*
- *Adding a server*
- *Installing the generic iSCSI Client Software*
- *Configuring the iSCSI client on the K2 Dyno PA*
- *Configuring SNFS for the DLC or iSCSI client on the K2 Dyno PA*

About configuring K2 Summit SAN systems

To use the Browse feature on a K2 Dyno PA machine, the K2 Summit SAN system needs the following:

- The K2 Summit system network adapters configured for Dyno PA, as described in *Ordering the network adapters for K2 Dyno PA*.
- The `FsNameServers` file in the SNFS directory configured for Dyno PA.

Related Links

[Configuring the K2 Summit SAN and K2 Dyno PA](#) on page 21

[About the `FsNameServers` file](#) on page 35

[Ordering the network adapters for K2 Dyno PA](#) on page 36

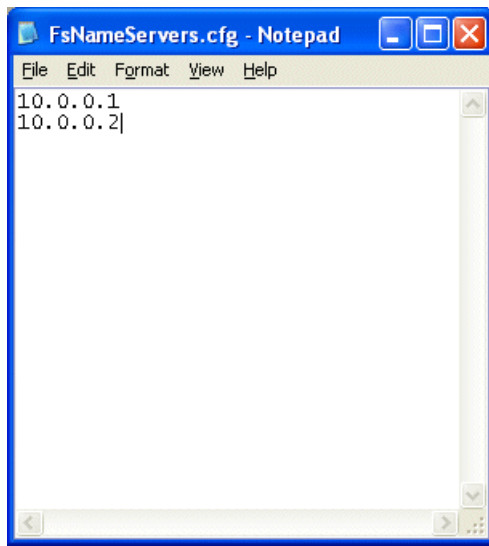
About the `FsNameServers` file

To use the Browse feature of K2 Dyno PA, the `FsNameServers` file needs to be configured on each K2 Summit and Dyno PA machines in the system. The `FsNameServers` file contains the Control network port IP addresses for each host name server in the system (up to a total of three host name servers).

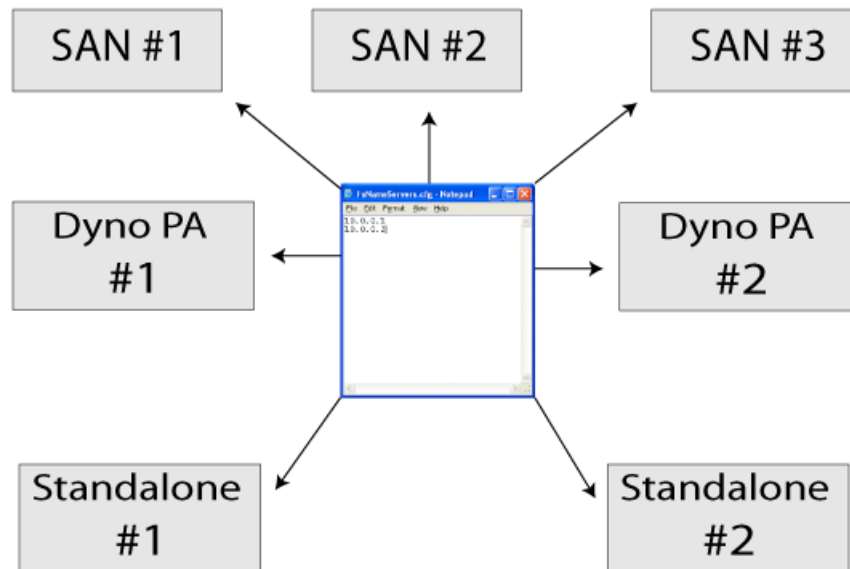
For example, if you have the following:

Machine	IP address for the Control network port on the machine
K2 Summit SAN #1 (Host name server)	10.0.0.1
K2 Summit SAN #2 (Host name server)	10.0.0.2
K2 Summit SAN #3	10.0.0.3
K2 Summit Standalone	10.0.0.4
K2 Summit Standalone	10.0.0.5
K2 Dyno PA #1	10.0.0.101
K2 Dyno PA #2	10.0.0.102

In this example, the `FsNameServers` file would look like this:



The *FsNameServers* file must be located in the *C:\SNFS\Config* directory in each K2 Summit and Dyno PA machines in the system.



The identical *FsNameServers* file must be on each machine in the system.

Related Links

[About configuring K2 Summit SAN systems](#) on page 22

[About standalone K2 Summit system and K2 Dyno PA DLC configuration](#) on page 34

Ordering the network adapters for K2 Dyno PA

Prerequisites:

- The K2 7.2.x software must be installed and configured as specified in the K2 Summit documentation.
- The file system name and storage disk labels on the K2 Summit system need to be unique. If the system has been upgraded to 7.2.x from an earlier version, the file system must be re-created with the Storage Utility tool, as specified in the *K2 System Guide*.

To enable the Browse feature on K2 Dyno PA, SNFS requires that the first network adapter on the K2 Summit system must be the Control connection; the loopback adapter cannot be the first network adapter.

1. Disable the write filter.
2. Reboot the machine.
3. If you are going to use the DLC Tool to configure the FsNameServers file, skip to step 5. Otherwise, navigate to `c:\snfs\config`.
4. Edit the FsNameServers file to add a line containing the IP address of the Control network for each host name server. Do not include any loopback IP addresses in this file.
5. On the Windows desktop right-click **My Network Places** and select **Properties**.
The Network Connections window opens.
6. On the menu bar at the top of the window, select **Advanced**, then **Advanced Settings...**
7. On the Adapters and Bindings tab, order adapters as follows:
 - a) Control network
 - b) Media network
 - c) Loopback adapter
8. To close Advanced Settings and accept the changes, click **OK**.
9. Close the Network Properties window.
10. If you are using a standalone K2 Summit system with Dyno PA, proceed to *Configuring the DLC Server*. If you are using a K2 Summit SAN system with Dyno PA, proceed to *About the K2 Dyno PA application and the Grass Valley platform service*.

Related Links

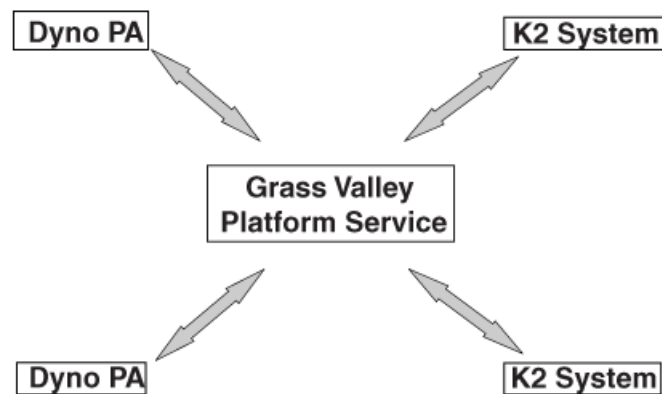
[About configuring K2 Summit SAN systems](#) on page 22

[Configuring the standalone K2 Summit system and K2 Dyno PA](#) on page 33

[About standalone K2 Summit system and K2 Dyno PA DLC configuration](#) on page 34

About the K2 Dyno PA application and the Grass Valley platform service

The K2 Dyno PA application is managed by the Grass Valley platform service. One Grass Valley platform service can coordinate between multiple Dyno PA clients and multiple K2 systems.



Related Links

[Configuring the K2 Summit SAN and K2 Dyno PA](#) on page 21

[Installing the Grass Valley platform service](#) on page 43

[Installing the K2 Dyno PA application](#) on page 44

[Configuring the standalone K2 Summit system and K2 Dyno PA](#) on page 33

[Installing the Grass Valley platform service](#) on page 43

[Installing the K2 Dyno PA application](#) on page 44

Installing the Grass Valley platform service

Apart from the Browse feature, the Grass Valley platform service manages all the interactions between the K2 Dyno PA application and the K2 system or systems. The Grass Valley platform service can be obtained from the FTP download site.

Prerequisites:

- Grass Valley does not recommend the use of a firewall with Dyno PA. If using a firewall, ensure that the port 49173 is allowed full access on the PC with the Grass Valley platform service installed and all PCs running Dyno PA.
- The hardware and software requirements as specified in *K2 Dyno PA Prerequisites*.
- An administrator-level username and password for the K2 system that Dyno PA communicates with.

- A PC that the service can be run on. Do not run the platform service on the K2 Media Client, K2 Product Client, or K2 Solo Media Server. The platform service can be run on the same PC as the Dyno PA application.

To install the Grass Valley platform server, follow these steps:

1. Double-click the **Dyno-PISvc** file.
2. Follow the installation wizard, and accept the EULA license.

The platform service is now installed.

3. After you install the platform service, reboot the PC or manually start the service.

The service is set to automatic.

4. Proceed to *Installing the K2 Dyno PA application*.

Related Links

[About the K2 Dyno PA application and the Grass Valley platform service](#) on page 42

[About the K2 Dyno PA application and the Grass Valley platform service](#) on page 42

[Installing the K2 Dyno PA application](#) on page 44

[Starting the K2 Dyno PA application](#) on page 45

Installing the K2 Dyno PA application

The K2 Dyno PA installation software can be obtained from the FTP download site.

Prerequisites:

- Grass Valley does not recommend the use of a firewall with Dyno PA. If using a firewall, ensure that the port 49173 is allowed full access on the PC with the Grass Valley platform service installed and all PCs running Dyno PA.
- The hardware and software requirements as specified in *K2 Dyno PA Prerequisites*.
- If using the Browse feature, follow the procedures described as described in the section on configuring your K2 Summit system, and then copy the FsNameServers file from the K2 Summit system to the K2 Dyno PA machine. This file must be in the C:\SNFS\Config folder on the Dyno PA as well as the K2 Summit system. Reboot the Dyno PA machine before proceeding.

To install the Dyno PA application, follow these steps:

1. Double-click the **Dyno-PA** file.
2. Follow the installation wizard, and accept the EULA license.

The Dyno PA application is now installed.

3. Once you have installed the Grass Valley platform service and K2 Dyno PA application, you need to start the Dyno PA application to configure it. Proceed to *Starting the K2 Dyno PA application*.

Related Links

[About the K2 Dyno PA application and the Grass Valley platform service](#) on page 42

[About the K2 Dyno PA application and the Grass Valley platform service](#) on page 42

[Installing the Grass Valley platform service](#) on page 43

[Starting the K2 Dyno PA application](#) on page 45

Starting the K2 Dyno PA application


The K2 Dyno PA application can be started from the desktop icon or from selecting **Start | Programs | Grass Valley**. Multiple Dyno PA clients can access one Grass Valley platform service.

Prerequisites:

- The Grass Valley platform service must be running before you start the K2 Dyno PA application.
- The first time you start the Grass Valley platform service after installation, you need to reboot the PC that the service is running on, or manually start the service.

When the Dyno PA application is first started, it runs on a 30-day trial license. To continue using Dyno PA, you need a permanent license to run Dyno PA. For more information on licensing, see the *K2 Dyno PA Release Notes*.

To start the K2 Dyno PA application, follow these steps:

1. Double-click on the Dyno PA icon. 

The Dyno PA login displays. This allows you to log in to the PC that runs the Grass Valley platform service.

2. Enter the following:
 - a) A username and password. If logging in as an administrator, supply the administrator username and password as specified in the *Managing Users* chapter of the Configuration manual. If logging in as a normal user, enter the username and password supplied by your administrator.
 - b) The name or IP address of the PC running the Grass Valley platform service. If the platform service is running on the same machine, enter **localhost**.
3. Click the **Connect** button.

Dyno PA connects with the platform service. The License Selection dialog box displays. If you have already purchased a permanent license, that license is displayed. For information on licensing, see the *K2 Dyno PA Release Notes*.

4. Highlight the license you want to use. To make this the default license, check the Make Default box. Select the license from the drop-down list.
5. Click **Select**.

The Dyno PA application displays.

Related Links

[Configuring the K2 Summit SAN and K2 Dyno PA](#) on page 21

[Configuring the standalone K2 Summit system and K2 Dyno PA](#) on page 33

[Installing the Grass Valley platform service](#) on page 43

[Installing the K2 Dyno PA application](#) on page 44

Adding a server

Prerequisites:

- You must be logged in as an administrator on the Dyno PA application to add a server.
- You must have an administrator-level username and password on the K2 system that you are going to add as a server.
- The K2 system must have the requirements described in *K2 Dyno PA Prerequisites*.
- The K2 system must have a hosts table set up as described in the K2 System Guide.
- If using the Browse feature, the K2 Summit system must be configured as described in *Configuring the K2 Summit system for K2 Dyno PA*

To add a server, follow these steps:

A K2 system is referred to as a *server* in the K2 Dyno PA application. Before you can access a K2 system, you need to add it in the K2 Dyno PA application.

1. In the Navigation pane, right-click and select **New Server**.
2. Choose either **Standalone server** or **SAN System**.

The Add/Edit Server Device dialog box displays.

3. To have Dyno PA populate the text fields, click the Discovered Devices button and select a K2 system from the drop-down list. Alternately, you can add the information:
 - (For standalone only)**Type**: Server (Currently, there is no other option)
 - (For standalone only)**Sub Type**: From the drop-down list, select the server you want to add from the list of available servers. A server can be a K2 Summit Production Client, K2 Solo Media Server, or K2 Media Client.
 - **Name**: Enter the name of the server.
 - **Description**: If desired, you can enter a description of the server.
 - (For standalone only)**Host**: Enter the host name of the server, for example *Summit2*.
 - (For SAN only)**SAN Server Host**: Enter the host name of the SAN server, for example *K2SummitSAN2*
 - (For SAN only)**FTP Host**: Enter the host name of the FTP server, for example *K2FTP1*. If the FTP server is the same as the SAN server host, leave blank.
 - **Username**: Enter an administrator-level username for the server.
 - **Password**: Enter the matching administrator-level password for this server.
4. Click **OK**.

The K2 system appears in the Navigator pane. While Dyno PA is in the process of establishing a connection with the system, the icon next to the K2 system turns yellow.

NOTE: *In the SAN system, the V:\ drive is displayed in the Navigator pane under the SAN while the individual Dyno sessions are displayed under each K2 Summit Production Client that uses the SAN for storage. In the standalone server, the V:\ drive and Dyno sessions are all listed under the standalone server.*

5. If you are not planning to use the Browse feature of the Dyno PA, proceed to *Adding a bin* or *Adding a repository*, depending on your workflow.
6. If you are planning to use the Browse feature of the Dyno PA, proceed to *Installing the generic iSCSI Client software*.

Related Links

[Configuring the K2 Summit SAN and K2 Dyno PA](#) on page 21

[Configuring the standalone K2 Summit system and K2 Dyno PA](#) on page 33

[Managing K2 Dyno PA](#) on page 49

Installing the generic iSCSI Client Software

To use the Browse feature on the K2 Dyno PA machine with a K2 Summit SAN, you need to install the generic iSCSI Client software on the Dyno PA machine. The Generic iSCSI Client software is located on the download site.

1. Navigate to the K2 Summit folder and double-click on the *727b1319_gi.exe* program.
2. Follow the instructions to install the software.
3. Once the generic iSCSI install software is installed, reboot the Dyno PA machine.
4. When the machine comes back up, go to **Start | Settings | Control Panel | Administrative Tools | Services** and verify that the service Grass Valley K2 Config is running.
5. Proceed to *Configuring the iSCSI client on the K2 Dyno PA*.

Related Links

[Configuring the K2 Summit SAN and K2 Dyno PA](#) on page 21

Configuring the iSCSI client on the K2 Dyno PA

To enable the Browse feature on the K2 Dyno PA application to work with a K2 Summit SAN system, the K2 Dyno PA machine must be configured as an iSCSI client. You use the K2 Configuration application wizard to configure each of the K2 Dyno

PA machines on the Media (iSCSI) network. For more information on the K2 Configuration application, see the K2 Summit documentation.

1. On the Control Point PC, open the K2 Configuration application.
2. At the login dialog box, log in with the correct administrator account. By default this is as follows: User name — **administrator** Password — **adminK2**

The K2 System Configuration application appears, displaying a hierarchy of machines with the K2 Summit SAN at the top, followed by the GigE switch, and then each of the K2 Dyno PA machine clients.

3. If you need to add another K2 Dyno PA client to the hierarchy:
 - a) Select the server and click **Add Device**.
 - b) In the Add Device window, click iSCSI Client and click **OK**.

A new iSCSI client device gets added to the hierarchy.

4. Select the iSCSI client to be configured in the hierarchy view and click **Configure**.
5. At the Client Configuration - Page 1 screen, enter the machine name of the K2 Dyno PA client you are configuring (such as Client1) and click **Next**.
6. At the Network Configuration screen, click **Modify** to change the IP address and subnet of any network adapters for this machine, and then click **Next**.
7. At the File System Client Configuration screen, enter the drive letter you want to configure as the iSCSI drive on the K2 Dyno PA machine; click **Next**.
8. At the iSCSI Initiator Configuration screen, enter client bandwidth:
 - a) Click **Modify**.
 - b) Enter the total bandwidth requirement for this K2 Dyno PA client machine. (For instructions see the next section, *Calculating K2 Dyno PA Machine Bandwidth*).
 - c) Click **Assign TOE**.

⚠ CAUTION: *To avoid bandwidth usage issues, assign the K2 Dyno PA machine to a TOE that does not have a K2 Summit client.*

9. Click **Next**.
10. At the Completing the Configuration Wizard screen, click **Finish**.

The wizard closes and the K2 Dyno PA machine reboots.

11. Repeat this procedure for each K2 Dyno PA machine on the K2 network.
12. Proceed to *Configuring SNFS for the DLC or iSCSI client on the K2 Dyno PA*.

Related Links

- [Configuring the K2 Summit SAN and K2 Dyno PA](#) on page 21
- [Calculating K2 Dyno PA machine bandwidth](#) on page 31

Calculating K2 Dyno PA machine bandwidth

One feature of the K2 network is its ability to load balance the K2 Dyno PA machine's iSCSI connection to the K2 storage system. In order to do this, calculate the amount of bandwidth each machine will use, using this formula: $(\text{Video Bit Rate in Mbps} \times \text{Number of Streams}) / 8$ (to convert to MB)

1. Determine the highest bit rate you use on the K2 Dyno PA machine. The bit rates for the DV formats are: DV25 = 28.8 Mbps; DV50 = 57.6 Mbps; and DV100 = 115.2 Mbps for the NTSC and PAL video formats. MPEG bit rates are variable; enter the bit rate set in K2 Dyno PA.
2. Multiply the highest bit rate by the number of streams that are licensed on this machine. For systems such as K2 Dyno PA, only one stream is available for each K2 Dyno PA machine.
3. Divide that number by 8 to convert Mbps to MB.
4. Round the MB number to the nearest integer.
5. Enter this number in the iSCSI Client Bandwidth Input screen in the K2 Configuration application wizard.

Related Links

[Configuring the iSCSI client on the K2 Dyno PA](#) on page 29

Configuring SNFS for the DLC or iSCSI client on the K2 Dyno PA

Prerequisites:

- The standalone or K2 Summit SAN system must have been configured as described in the section on configuring your K2 Summit system.
- A K2 Summit system, referred to as a *server* in the K2 Dyno PA application, must have been added to the Dyno PA client.
- The K2 Dyno PA machine must have the requirements described in the *K2 Dyno PA Prerequisites*.
- The K2 Dyno PA machine must have the identical FsNameServers file as the K2 Summit system. This file must be in the C:\SNFS\Config folder on the Dyno PA machine. For more information, see *About configuring K2 Summit systems and K2 Dyno PA*.

To enable the Browse feature on the K2 Dyno PA application to work with a K2 Summit system, the K2 Summit system needs to be configured for K2 Dyno PA and the SNFS software needs to be configured on the Dyno PA machine. This section describes configuring SNFS software for the DLC or iSCSI client on the Dyno PA machine.

1. If you do not already have the K2 Dyno PA application open, start it now.
2. Right-click on the K2 Summit system in the Navigation pane, and select **Edit Server**.

The Add/Edit Server Device dialog box displays.

3. In the Add/Edit Server Device dialog box, check the Enabled box.
4. Click the **SNFS Configuration** button.
5. Enter the file system name.

If using a standalone K2 system, the file system name must be unique to this K2 Summit system, for example *gvfs_summit1*. The name is case sensitive.

NOTE: *The file system name can be found in the Windows Explorer tree view, next to the V: drive.*

6. Assign a drive letter.
7. If using a standalone K2 system, specify the maximum number of clients. This is the number of Dyno PA clients that can access assets on a K2 Summit system at the same time. The maximum number allowed is 2.
8. Click the **Apply Setting** button.

Depending on your workflow, proceed to *Adding a bin* or *Adding a repository*.

Related Links

[Configuring the K2 Summit SAN and K2 Dyno PA](#) on page 21

[Configuring the standalone K2 Summit system and K2 Dyno PA](#) on page 33

[About standalone K2 Summit system and K2 Dyno PA DLC configuration](#) on page 34

Configuring the standalone K2 Summit system and K2 Dyno PA

This section contains the following topics:

- *About standalone K2 Summit system and K2 Dyno PA DLC configuration*
- *Ordering the network adapters for K2 Dyno PA*
- *Configuring the DLC server*
- *About the K2 Dyno PA application and the Grass Valley platform service*
- *Starting the K2 Dyno PA application*
- *Adding a server*
- *Configuring SNFS for the DLC or iSCSI client on the K2 Dyno PA*

About standalone K2 Summit system and K2 Dyno PA DLC configuration

To use the Browse feature in a system with a standalone K2 Summit Production Client, the Quantum StorNext Distributed LAN Client (DLC) on the K2 Summit (the DLC server) and K2 Dyno PA (the DLC client) systems must be configured. This requires modifying the SNFS FsNameServers file on each machine. On a standalone K2 Summit Production Client, run the DLC Configuration tool to add, edit, or remove the IP addresses from the FsNameServers file.

To set up DLC on the K2 Summit and Dyno PA systems, you need:

On the standalone K2 Summit system:

- The requirements described in *K2 Dyno PA Prerequisites*. For information on configuring the K2 7.2.x software, consult the K2 Summit Production Client documentation.
- If upgrading to K2 7.2x software from an earlier version, the K2 Summit system needs a unique file system name and storage disk labels, as described in *Creating a unique file system name and storage disk labels*. File system names are case sensitive.
- The DLC Tool needs to be installed. This tool ensures that the FsNameServers file on all the standalone K2 Summit Production Clients contains the IP address of the Control ports of the name servers. There can be a maximum of three name servers.
- Network adapters configured for the Dyno PA Browse feature. For more information, see *Ordering the Network Adapters for K2 Dyno PA*.

On the K2 Dyno PA machine:

- The requirements described in *K2 Dyno PA Prerequisites*.
- The identical FsNameServers file that was required for the K2 Summit system must also be located in the C:\SNFS\Config folder of every Dyno PA machine that is sharing the platform service.
- In the Dyno PA application, the administrator must use the SNFS configuration button to map drives for each SNFS-configured K2 Summit system that will be used with that Dyno PA.

Related Links

[Configuring the standalone K2 Summit system and K2 Dyno PA](#) on page 33

[About the FsNameServers file](#) on page 35

[Ordering the network adapters for K2 Dyno PA](#) on page 36

[Creating a unique file system name and storage disk labels](#)

[Configuring the DLC server manually](#) on page 40

[Configuring SNFS for the DLC or iSCSI client on the K2 Dyno PA](#) on page 47

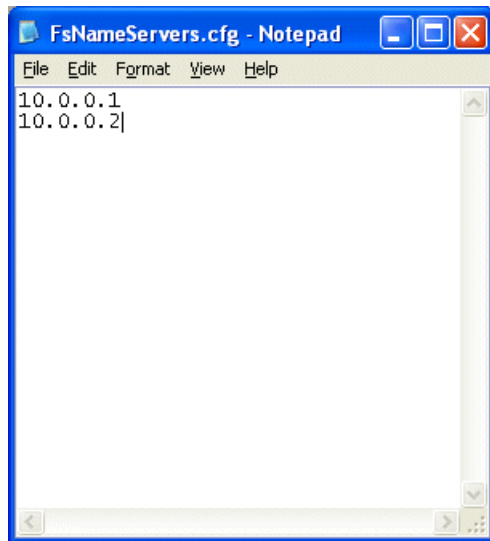
About the FsNameServers file

To use the Browse feature of K2 Dyno PA, the *FsNameServers* file needs to be configured on each K2 Summit and Dyno PA machines in the system. The *FsNameServers* file contains the Control network port IP addresses for each host name server in the system (up to a total of three host name servers).

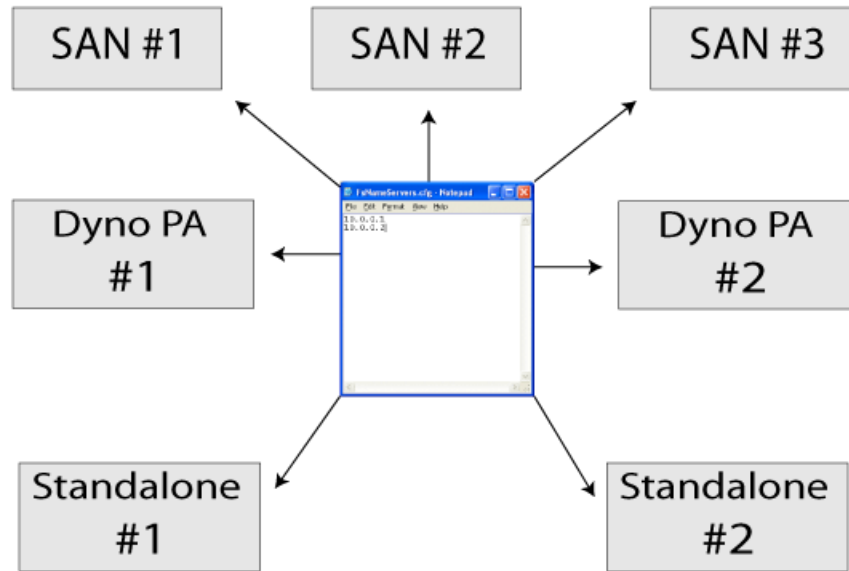
For example, if you have the following:

Machine	IP address for the Control network port on the machine
K2 Summit SAN #1 (Host name server)	10.0.0.1
K2 Summit SAN #2 (Host name server)	10.0.0.2
K2 Summit SAN #3	10.0.0.3
K2 Summit Standalone	10.0.0.4
K2 Summit Standalone	10.0.0.5
K2 Dyno PA #1	10.0.0.101
K2 Dyno PA #2	10.0.0.102

In this example, the *FsNameServers* file would look like this:



The *FsNameServers* file must be located in the *C:\SNFS\Config* directory in each K2 Summit and Dyno PA machines in the system.



The identical FsNameServers file must be on each machine in the system.

Related Links

[About configuring K2 Summit SAN systems](#) on page 22

[About standalone K2 Summit system and K2 Dyno PA DLC configuration](#) on page 34

Ordering the network adapters for K2 Dyno PA

Prerequisites:

- The K2 7.2.x software must be installed and configured as specified in the K2 Summit documentation.
- The file system name and storage disk labels on the K2 Summit system need to be unique. If the system has been upgraded to 7.2.x from an earlier version, the file system must be re-created with the Storage Utility tool, as specified in the *K2 System Guide*.

To enable the Browse feature on K2 Dyno PA, SNFS requires that the first network adapter on the K2 Summit system must be the Control connection; the loopback adapter cannot be the first network adapter.

1. Disable the write filter.
2. Reboot the machine.
3. If you are going to use the DLC Tool to configure the FsNameServers file, skip to step 5. Otherwise, navigate to `c:\snfs\config`.

4. Edit the FsNameServers file to add a line containing the IP address of the Control network for each host name server. Do not include any loopback IP addresses in this file.
5. On the Windows desktop right-click **My Network Places** and select **Properties**.
The Network Connections window opens.
6. On the menu bar at the top of the window, select **Advanced**, then **Advanced Settings...**
7. On the Adapters and Bindings tab, order adapters as follows:
 - a) Control network
 - b) Media network
 - c) Loopback adapter
8. To close Advanced Settings and accept the changes, click **OK**.
9. Close the Network Properties window.
10. If you are using a standalone K2 Summit system with Dyno PA, proceed to *Configuring the DLC Server*. If you are using a K2 Summit SAN system with Dyno PA, proceed to *About the K2 Dyno PA application and the Grass Valley platform service*.

Related Links

[About configuring K2 Summit SAN systems](#) on page 22

[Configuring the standalone K2 Summit system and K2 Dyno PA](#) on page 33

[About standalone K2 Summit system and K2 Dyno PA DLC configuration](#) on page 34

Configuring the DLC server

If configuring the DLC server on a standalone K2 Summit system with the DLC Tool, refer to the following tasks:

- About the DLC Tool
- Installing the DLC Tool
- Configuring the DLC Server with the DLC Tool

If configuring the DLC server on a standalone K2 Summit system manually, without the DLC Tool, refer to the following task:

- Configuring the DLC server manually

Related Links

[Configuring the standalone K2 Summit system and K2 Dyno PA](#) on page 33

[About the DLC Tool](#) on page 38

[Installing the DLC Configuration Tool](#) on page 38

[Configuring the DLC server with the DLC Tool](#) on page 38

[Configuring the DLC server manually](#) on page 40

About the DLC Tool


The DLC tool streamlines the SNFS configuration on a standalone K2 Summit system by adding the IP addresses of the Control network ports of the name servers to the FsNameServers file. You can download the DLC tool from the download site.

Related Links

[Configuring the DLC server](#) on page 37

Installing the DLC Configuration Tool

Install the DLC Configuration Tool on the standalone K2 Summit system. You can download the DLC Configuration Tool from the download site.

1. To start the installation, double-click the DLC Configuration Tool Setup icon on the Windows desktop .
2. Follow the instructions in the installation wizard.
3. On the final page of the installation wizard, if you do not want to use the DLC Configuration Tool immediately, click **Finish**.

The installation wizard closes.

4. If you do want to use the DLC Configuration Tool immediately, check the **Launch DLC Tool** box on the last page of the installation wizard, click **Finish**, and proceed to *Configuring the DLC server with the DLC Tool*.

The DLC Configuration Tool opens.

Once the DLC Configuration Tool has been installed, the DLC Tool, as well as the K2 AppCenter log on dialog box, displays.


Related Links

[Configuring the DLC server](#) on page 37

Configuring the DLC server with the DLC Tool

- The DLC Tool must be installed on a standalone K2 Summit system.
- The K2 7.2.x software must be installed and configured as specified in the K2 Summit documentation.
- The file system name and storage disk labels on the K2 Summit system need to be unique. For more information, see *Creating a unique file system name and storage disk labels*.
- The network adapters need to be ordered as described in *Ordering the network adapters for K2 Dyno PA*.
- Before using the DLC Tool, make sure K2 AppCenter is not running on the standalone K2 Summit system.
- The Write Filter must be disabled before using the DLC Tool.

To enable the Browse feature on the K2 Dyno PA application, the DLC server needs to be configured on the standalone K2 Summit system, and the DLC client software needs to be configured on the Dyno PA machine. This section describes configuring the standalone K2 Summit system.

 **Tip:** *Identical FsNameServer files (same file name, same IP addresses in the same order) must be located on all the Summits and Solos or Dyno PA machines that share the same Grass Valley platform service. If configuring multiple K2 Summit systems or Dyno PA machines, create the FsNameServers file on one machine and then copy it to the others.*

1. If the Write Filter is enabled, disable it and reboot the standalone K2 Summit system.
2. Launch the DLC Tool from the installation wizard or from the DLC Tool icon on the Windows desktop.
3. Click the **Configure** button.

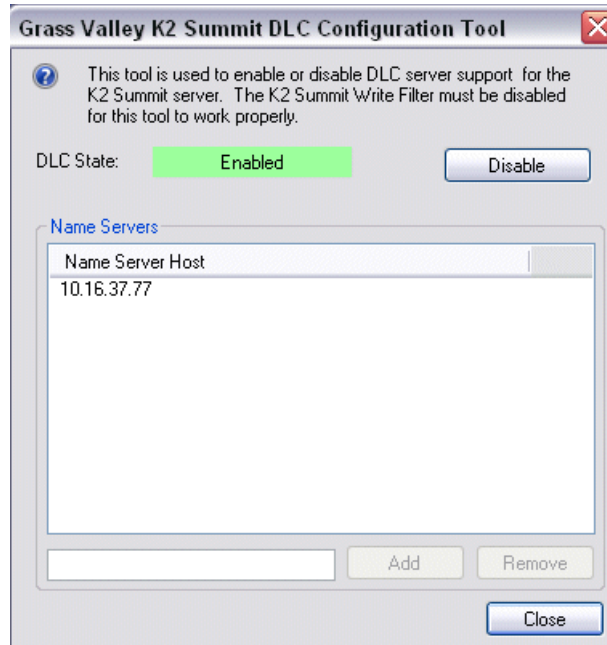
The DLC Tool dialog box displays.

4. To add a name server host, type the IP address in the text field and click the **Add** button. You can add up to three name server hosts.

NOTE: *The Add button is grayed out until you begin typing the IP address in the text field.*

5. To remove a name server host, highlight the name server's IP address and click the **Remove** button.
6. When you have finished configuring the DLC server, click the **Enable** button to enable the DLC server support.

The **Enable** button text changes to "Enabled" and the button is no longer active.



7. To disable the DLC server support, click the **Disable** button.

The **Disable** button text changes to "Disabled" and the button is no longer active.

8. Click the **Close** button to end the DLC configuration .
9. If the DLC server has been enabled, turn the write filter on.
10. Verify that the K2 Summit system is connected to the network.

⚠ CAUTION: *If the K2 Summit system is not connected to the network, connect a cable between the Control network to another network port. Otherwise, when you reboot, the machine will not be able to access the file system; you will not see the V: drive.*

11. Reboot the machine.
12. Proceed to “Installing K2 Dyno PA”.

Related Links

[Configuring the DLC server](#) on page 37


Configuring the DLC server manually

Prerequisites:

- The K2 7.2.x software must be installed and configured as specified in the K2 Summit documentation.

- The file system name and storage disk labels on the K2 Summit system need to be unique. For more information, see *Creating a unique file system name and storage disk labels*.
- The network adapters need to be ordered as described in *Ordering the network adapters for K2 Dyno PA*.

To enable the Browse feature on the K2 Dyno PA application, the DLC server needs to be configured on the standalone K2 Summit system, and the DLC client software needs to be configured on the Dyno PA machine. This section describes configuring a standalone K2 Summit system without the DLC Tool.

 **Tip:** *Identical FsNameServer files (same file name, same IP addresses in the same order) must be located on all the Summits and Solos or Dyno PA machines that share the same Grass Valley platform service. If configuring multiple K2 Summit systems or Dyno PA machines, create the FsNameServers file on one machine and then copy it to the others.*

1. From the **Start** menu, select **Programs | Stornext File System | Client Configuration**.

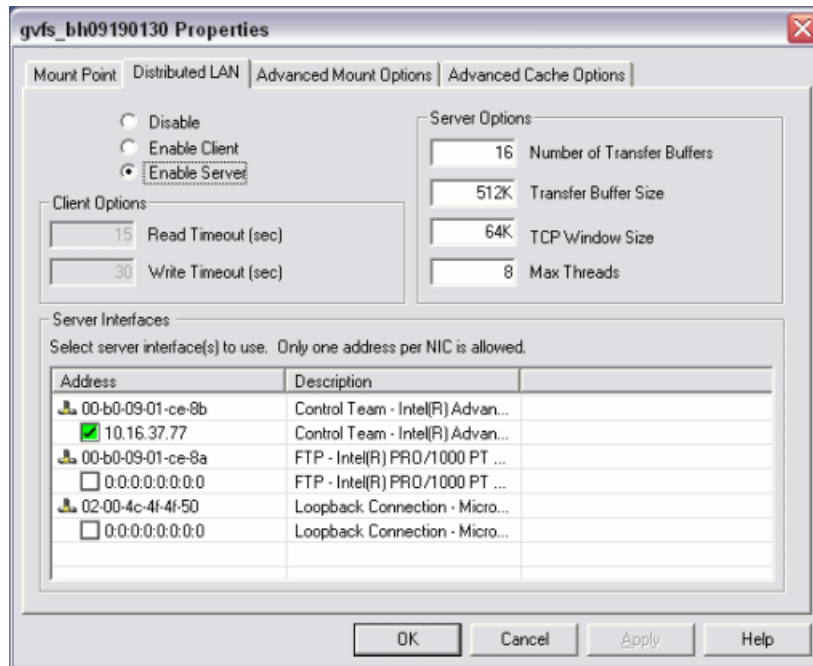
The SNFS configuration client opens.

2. Click the **Properties** button.

The Properties dialog box displays.



3. On the Distributed LAN tab, select **Enable Server**.
4. Select the Control network as the DLC network.



5. Click **OK**.
6. Turn write filter on.
7. Verify that the K2 Summit system is connected to the network.

⚠ CAUTION: *If the K2 Summit system is not connected to the network, connect a cable between the Control network to another network port. Otherwise, when you reboot, the machine will not be able to access the file system; you will not see the V: drive.*

8. Reboot the machine.
9. Proceed to “Installing K2 Dyno PA”.

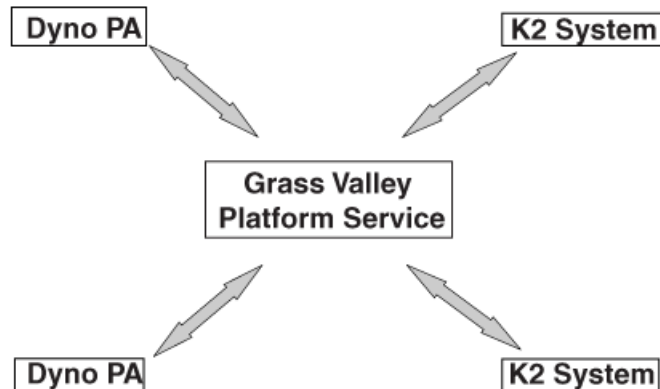
Related Links

[Configuring the DLC server](#) on page 37

[About standalone K2 Summit system and K2 Dyno PA DLC configuration](#) on page 34

About the K2 Dyno PA application and the Grass Valley platform service

The K2 Dyno PA application is managed by the Grass Valley platform service. One Grass Valley platform service can coordinate between multiple Dyno PA clients and multiple K2 systems.



Related Links

[Configuring the K2 Summit SAN and K2 Dyno PA](#) on page 21

[Installing the Grass Valley platform service](#) on page 43

[Installing the K2 Dyno PA application](#) on page 44

[Configuring the standalone K2 Summit system and K2 Dyno PA](#) on page 33

[Installing the Grass Valley platform service](#) on page 43

[Installing the K2 Dyno PA application](#) on page 44

Installing the Grass Valley platform service

Apart from the Browse feature, the Grass Valley platform service manages all the interactions between the K2 Dyno PA application and the K2 system or systems. The Grass Valley platform service can be obtained from the FTP download site.

Prerequisites:

- Grass Valley does not recommend the use of a firewall with Dyno PA. If using a firewall, ensure that the port 49173 is allowed full access on the PC with the Grass Valley platform service installed and all PCs running Dyno PA.
- The hardware and software requirements as specified in *K2 Dyno PA Prerequisites*.
- An administrator-level username and password for the K2 system that Dyno PA communicates with.
- A PC that the service can be run on. Do not run the platform service on the K2 Media Client, K2 Product Client, or K2 Solo Media Server. The platform service can be run on the same PC as the Dyno PA application.

To install the Grass Valley platform server, follow these steps:

1. Double-click the **Dyno-PISvc** file.
2. Follow the installation wizard, and accept the EULA license.

The platform service is now installed.

3. After you install the platform service, reboot the PC or manually start the service.
The service is set to automatic.
4. Proceed to *Installing the K2 Dyno PA application*.

Related Links

[About the K2 Dyno PA application and the Grass Valley platform service](#) on page 42
[About the K2 Dyno PA application and the Grass Valley platform service](#) on page 42
[Installing the K2 Dyno PA application](#) on page 44
[Starting the K2 Dyno PA application](#) on page 45

Installing the K2 Dyno PA application

The K2 Dyno PA installation software can be obtained from the FTP download site.

Prerequisites:

- Grass Valley does not recommend the use of a firewall with Dyno PA. If using a firewall, ensure that the port 49173 is allowed full access on the PC with the Grass Valley platform service installed and all PCs running Dyno PA.
- The hardware and software requirements as specified in *K2 Dyno PA Prerequisites*.
- If using the Browse feature, follow the procedures described as described in the section on configuring your K2 Summit system, and then copy the FsNameServers file from the K2 Summit system to the K2 Dyno PA machine. This file must be in the C:\SNFS\Config folder on the Dyno PA as well as the K2 Summit system. Reboot the Dyno PA machine before proceeding.

To install the Dyno PA application, follow these steps:

1. Double-click the **Dyno-PA** file.
2. Follow the installation wizard, and accept the EULA license.

The Dyno PA application is now installed.

3. Once you have installed the Grass Valley platform service and K2 Dyno PA application, you need to start the Dyno PA application to configure it. Proceed to *Starting the K2 Dyno PA application*.

Related Links

[About the K2 Dyno PA application and the Grass Valley platform service](#) on page 42
[About the K2 Dyno PA application and the Grass Valley platform service](#) on page 42
[Installing the Grass Valley platform service](#) on page 43
[Starting the K2 Dyno PA application](#) on page 45

Starting the K2 Dyno PA application


The K2 Dyno PA application can be started from the desktop icon or from selecting **Start | Programs | Grass Valley**. Multiple Dyno PA clients can access one Grass Valley platform service.

Prerequisites:

- The Grass Valley platform service must be running before you start the K2 Dyno PA application.
- The first time you start the Grass Valley platform service after installation, you need to reboot the PC that the service is running on, or manually start the service.

When the Dyno PA application is first started, it runs on a 30-day trial license. To continue using Dyno PA, you need a permanent license to run Dyno PA. For more information on licensing, see the *K2 Dyno PA Release Notes*.

To start the K2 Dyno PA application, follow these steps:

1. Double-click on the Dyno PA icon. 

The Dyno PA login displays. This allows you to log in to the PC that runs the Grass Valley platform service.

2. Enter the following:
 - a) A username and password. If logging in as an administrator, supply the administrator username and password as specified in the *Managing Users* chapter of the Configuration manual. If logging in as a normal user, enter the username and password supplied by your administrator.
 - b) The name or IP address of the PC running the Grass Valley platform service. If the platform service is running on the same machine, enter **localhost**.
3. Click the **Connect** button.

Dyno PA connects with the platform service. The License Selection dialog box displays. If you have already purchased a permanent license, that license is displayed. For information on licensing, see the *K2 Dyno PA Release Notes*.

4. Highlight the license you want to use. To make this the default license, check the Make Default box. Select the license from the drop-down list.
5. Click **Select**.

The Dyno PA application displays.

Related Links

[Configuring the K2 Summit SAN and K2 Dyno PA](#) on page 21

[Configuring the standalone K2 Summit system and K2 Dyno PA](#) on page 33

[Installing the Grass Valley platform service](#) on page 43

[Installing the K2 Dyno PA application](#) on page 44

Adding a server

Prerequisites:

- You must be logged in as an administrator on the Dyno PA application to add a server.
- You must have an administrator-level username and password on the K2 system that you are going to add as a server.
- The K2 system must have the requirements described in *K2 Dyno PA Prerequisites*.
- The K2 system must have a hosts table set up as described in the K2 System Guide.
- If using the Browse feature, the K2 Summit system must be configured as described in *Configuring the K2 Summit system for K2 Dyno PA*

To add a server, follow these steps:

A K2 system is referred to as a *server* in the K2 Dyno PA application. Before you can access a K2 system, you need to add it in the K2 Dyno PA application.

1. In the Navigation pane, right-click and select **New Server**.
2. Choose either **Standalone server** or **SAN System**.

The Add/Edit Server Device dialog box displays.

3. To have Dyno PA populate the text fields, click the Discovered Devices button and select a K2 system from the drop-down list. Alternately, you can add the information:
 - (For standalone only)**Type**: Server (Currently, there is no other option)
 - (For standalone only)**Sub Type**: From the drop-down list, select the server you want to add from the list of available servers. A server can be a K2 Summit Production Client, K2 Solo Media Server, or K2 Media Client.
 - **Name**: Enter the name of the server.
 - **Description**: If desired, you can enter a description of the server.
 - (For standalone only)**Host**: Enter the host name of the server, for example *Summit2*.
 - (For SAN only)**SAN Server Host**: Enter the host name of the SAN server, for example *K2SummitSAN2*
 - (For SAN only)**FTP Host**: Enter the host name of the FTP server, for example *K2FTP1*. If the FTP server is the same as the SAN server host, leave blank.
 - **Username**: Enter an administrator-level username for the server.
 - **Password**: Enter the matching administrator-level password for this server.
4. Click **OK**.

The K2 system appears in the Navigator pane. While Dyno PA is in the process of establishing a connection with the system, the icon next to the K2 system turns yellow.

NOTE: *In the SAN system, the V:\ drive is displayed in the Navigator pane under the SAN while the individual Dyno sessions are displayed under each*

K2 Summit Production Client that uses the SAN for storage. In the standalone server, the V:\ drive and Dyno sessions are all listed under the standalone server.

5. If you are not planning to use the Browse feature of the Dyno PA, proceed to *Adding a bin* or *Adding a repository*, depending on your workflow.
6. If you are planning to use the Browse feature of the Dyno PA, proceed to *Installing the generic iSCSI Client software*.

Related Links

[Configuring the K2 Summit SAN and K2 Dyno PA](#) on page 21

[Configuring the standalone K2 Summit system and K2 Dyno PA](#) on page 33

[Managing K2 Dyno PA](#) on page 49

Configuring SNFS for the DLC or iSCSI client on the K2 Dyno PA

Prerequisites:

- The standalone or K2 Summit SAN system must have been configured as described in the section on configuring your K2 Summit system.
- A K2 Summit system, referred to as a *server* in the K2 Dyno PA application, must have been added to the Dyno PA client.
- The K2 Dyno PA machine must have the requirements described in the *K2 Dyno PA Prerequisites*.
- The K2 Dyno PA machine must have the identical FsNameServers file as the K2 Summit system. This file must be in the C:\SNFS\Config folder on the Dyno PA machine. For more information, see *About configuring K2 Summit systems and K2 Dyno PA*.

To enable the Browse feature on the K2 Dyno PA application to work with a K2 Summit system, the K2 Summit system needs to be configured for K2 Dyno PA and the SNFS software needs to be configured on the Dyno PA machine. This section describes configuring SNFS software for the DLC or iSCSI client on the Dyno PA machine.

1. If you do not already have the K2 Dyno PA application open, start it now.
2. Right-click on the K2 Summit system in the Navigation pane, and select **Edit Server**.

The Add/Edit Server Device dialog box displays.

3. In the Add/Edit Server Device dialog box, check the Enabled box.
4. Click the **SNFS Configuration** button.
5. Enter the file system name.

If using a standalone K2 system, the file system name must be unique to this K2 Summit system, for example *gvfs_summit1*. The name is case sensitive.

NOTE: *The file system name can be found in the Windows Explorer tree view, next to the V: drive.*

6. Assign a drive letter.
7. If using a standalone K2 system, specify the maximum number of clients. This is the number of Dyno PA clients that can access assets on a K2 Summit system at the same time. The maximum number allowed is 2.
8. Click the **Apply Setting** button.

Depending on your workflow, proceed to *Adding a bin* or *Adding a repository*.

Related Links

[Configuring the K2 Summit SAN and K2 Dyno PA](#) on page 21

[Configuring the standalone K2 Summit system and K2 Dyno PA](#) on page 33

[About standalone K2 Summit system and K2 Dyno PA DLC configuration](#) on page 34

Managing K2 Dyno PA

This section contains the following topics:

- *Adding a server*
- *Editing a server*
- *Deleting a server*
- *Adding a bin*
- *Adding a repository*
- *Configuring a rule*
- *Adding a managed channel*
- *Adding or replacing a K2 Summit system in an existing K2 Dyno PA system*
- *Restoring the K2 Summit system to a pre-DLC configuration*
- *About K2 Dyno PA administrator and user logins*
- *Creating a K2 Dyno PA user*

Adding a server

Prerequisites:

- You must be logged in as an administrator on the Dyno PA application to add a server.
- You must have an administrator-level username and password on the K2 system that you are going to add as a server.
- The K2 system must have the requirements described in *K2 Dyno PA Prerequisites*.
- The K2 system must have a hosts table set up as described in the K2 System Guide.
- If using the Browse feature, the K2 Summit system must be configured as described in *Configuring the K2 Summit system for K2 Dyno PA*

To add a server, follow these steps:

A K2 system is referred to as a *server* in the K2 Dyno PA application. Before you can access a K2 system, you need to add it in the K2 Dyno PA application.

1. In the Navigation pane, right-click and select **New Server**.
2. Choose either **Standalone server** or **SAN System**.

The Add/Edit Server Device dialog box displays.

3. To have Dyno PA populate the text fields, click the Discovered Devices button and select a K2 system from the drop-down list. Alternately, you can add the information:
 - (For standalone only)**Type**: Server (Currently, there is no other option)
 - (For standalone only)**Sub Type**: From the drop-down list, select the server you want to add from the list of available servers. A server can be a K2 Summit Production Client, K2 Solo Media Server, or K2 Media Client.
 - **Name**: Enter the name of the server.
 - **Description**: If desired, you can enter a description of the server.
 - (For standalone only)**Host**: Enter the host name of the server, for example *Summit2*.
 - (For SAN only)**SAN Server Host**: Enter the host name of the SAN server, for example *K2SummitSAN2*
 - (For SAN only)**FTP Host**: Enter the host name of the FTP server, for example *K2FTP1*. If the FTP server is the same as the SAN server host, leave blank.
 - **Username**: Enter an administrator-level username for the server.
 - **Password**: Enter the matching administrator-level password for this server.
4. Click **OK**.

The K2 system appears in the Navigator pane. While Dyno PA is in the process of establishing a connection with the system, the icon next to the K2 system turns yellow.

NOTE: *In the SAN system, the V:\ drive is displayed in the Navigator pane under the SAN while the individual Dyno sessions are displayed under each*

K2 Summit Production Client that uses the SAN for storage. In the standalone server, the V:\ drive and Dyno sessions are all listed under the standalone server.

5. If you are not planning to use the Browse feature of the Dyno PA, proceed to *Adding a bin* or *Adding a repository*, depending on your workflow.
6. If you are planning to use the Browse feature of the Dyno PA, proceed to *Installing the generic iSCSI Client software*.

Related Links

[Configuring the K2 Summit SAN and K2 Dyno PA](#) on page 21

[Configuring the standalone K2 Summit system and K2 Dyno PA](#) on page 33

[Managing K2 Dyno PA](#) on page 49

Editing a server

1. To modify a K2 system in the K2 Dyno PA application, right-click on the K2 system and select **Edit Server**.
2. Make any desired changes, and click **OK**.

NOTE: Any changes made to a server do not take effect until the Dyno PA application is re-started.

Related Links

[Managing K2 Dyno PA](#) on page 49

Deleting a server

1. To delete a K2 system as a K2 Dyno PA server, right-click on the system in the Navigation pane and select **Edit Server**.
The Add/Edit Servers Device dialog box displays.
2. Check the **Delete Next Startup** box and click **OK**.

The K2 system is not deleted until the next time the Dyno PA application is started.

Related Links

[Managing K2 Dyno PA](#) on page 49

Adding a bin

Once a server has been added, you can see the assets on that K2 system. A bin is a folder located on a K2 system, which stores K2 assets.

Prerequisites:

- At least one K2 system must have been added as a server in the Dyno PA application.

To add a bin, follow these steps:

1. In the Navigator pane, click on the location in the K2 system where you want the new bin to be located.
2. Right-click and select **New Bin**.

A text field displays next to the New Bin selection.

3. Enter in the bin name, and press **Enter**.

The new bin appears in the Navigator pane.

Adding a repository

Prerequisite:

- At least one K2 system must have been added as a server in the K2 Dyno PA application.
- If adding a filesystem repository, the filesystem requires a network share of the folder or drive using the device that hosts the drive. This network share must be accessible from the PC that runs the Grass Valley platform service.
- If the filesystem repository is a USB drive, the drive must be UNC mountable from the machine running the Dyno PA platform service.

To add a repository, follow these steps:

A K2 Dyno PA repository can be used to transfer, import or export assets. Repositories can be used as a shortcut to a location on the network where assets can be transferred to or transferred from. If you delete a repository from Dyno PA, the shortcut is deleted; the assets in the repository itself are not affected.

1. In the Navigation pane, right-click and select **Add Repository**.
2. Enter the name of the new repository.
3. If desired, enter a description of the repository.
4. Select the type:
 - K2/Summit
 - a) Use the Host drop-down list to select the K2 system.
 - b) Click the ... button and navigate to the desired bin for the repository.
 - c) Click **OK**.

The new repository appears in the Navigator pane.

- File System
 - a) Enter the name or IP address of the repository host machine.
 - b) Enter the main UNC share mount point (the network share name).
 - c) Enter the username and password needed to access this network share.
 - d) To determine the naming convention for the exported file name, check the box next to the desired Naming Conventions:
 - Use Dyno Keywords in Export Filename: the Dyno Keywords appear as part of the name in the exported file.
 - Use Dyno Marks in Export Filename: Dyno PA puts Dyno marks in the filename itself, for example: 10:15:25:20-10:22:40:15-S00001.Mov. You can then export the file with this new filename.
 - Restrict Repository Views to Known File Types: Checking this box ensures that your view is not cluttered with extraneous file types that are not related to the Dyno PA or K2 system. For example, if your repository points to a USB disk where Word documents are stored, these documents will not be shown in the repository if this box is checked.
 - If desired, use the Editor Type drop-down list to select **Final Cut Pro**.
 - Specify the volume reference. The volume reference is used to specify, in the XML file, the filepath where the repository host machine accesses the exported media. For example, if a volume is mapped on a Mac as the volume *PA*, then enter **PA** as the volume reference.
- ⚠ CAUTION: *If this reference is incorrect, or the same volume is mounted on another machine with a different name, the repository host machine will not be able to link the metadata to the media.***
- If desired, check the Create a Single File for Each Exported Asset box. If this box is checked, Dyno PA adds an XML file describing the asset, including metadata, for each asset exported.
 - Click **OK**. The new repository appears in the Navigator pane.

5. If you are using rules as part of your workflow, proceed to “Configuring a rule”.

Related Links

[Managing K2 Dyno PA](#) on page 49

Configuring a rule

Prerequisites:

- At least one destination repository must have been added in the Dyno PA application.

- You must have a Dyno PA license that allows configuring rules.
- In addition, you need to have determined the following: transfer type, rule criteria, and scope (the locations that you want Dyno PA to monitor for assets)

To configure a rule, follow these steps:

Rules are created to automate the export or transfer of assets based on specified criteria. For example, if a K2 Dyno Replay operator assigns a rating of three stars to an asset, a K2 Dyno PA user can create a rule that searches for assets that meet that criteria, and automatically export or transfer them to a repository.

1. To configure a rule, right-click in the Rules pane and select **New**.

The Rule - New Rule dialog box displays.

2. Enter the following details:

- **Name:** Type in a name for the rule.
- **Dest. Repository:** Click the ... button to select a destination repository.
- **Trans Type:** Use the drop-down arrow to select a transfer type.

3. Click the **Any** or the **All** button. This determines where any given criteria can be met or all given criteria must be met.

4. To enter the criteria, click the **Add** button and enter the following information:

- **Type:** Choose the type from the drop-down list. If you select Dyno or PA keyword, the **Keywords** button is activated
- **Operator:** Select an operator from the drop-down list. The operator options vary depending on the type selected.
- **Value:** Depending on the type selected, you can type in a value or select one from a drop-down list. If you selected the Rating type, click on each star you want to select or deselect.
- **Keywords:** If a keyword type has been selected, you can type in a value or select a keyword tab and then select one of the available keywords.

5. Click **OK**.

The selected criteria appear under the Type, Operator and Value columns.

6. Under Scope Selection, check the box next to the Dyno session, bin, or K2 system where you want to apply the rule. If nothing is checked, Dyno PA applies the rule to all the connected devices, which can be a time-intensive process.

7. If the repository is a K2 Summit system, you can select from the following advanced options:

- **Guard Bands:** Also referred to as handles, guard bands add seconds to the beginning and end of an asset. To apply guard bands to an asset, either the transfer type must be GXF or the transfer must be from and to a K2 Summit system. Enter a number in the text field, up to 10 seconds. Use the up/down arrows to edit.

- **Use Dyno Marks for Transfer/Export:** If you check this box, Dyno PA uses Mark In and Mark Out points that were automatically added to the asset by a K2 Dyno Replay Controller.
 - **Single Transfer Queue:** If you check this box, transfers are initiated (pulled) from the K2 Summit system that is the destination server. If the box is unchecked, transfers are initiated (pushed) from the source, which means they might be affected by queue limitations.
8. Click **OK**.
The rule appears in the Rules pane.
 9. When created, a rule is inactive. To activate a rule, right-click on the rule and select **Toggle Activate**.
A message box displays listing the number of immediate transfers that will take place once this rule has been activated.

Related Links

[Managing K2 Dyno PA](#) on page 49

Adding a managed channel

A managed channel is an AppCenter channel on a K2 system, which can be controlled remotely through the K2 Dyno PA application.

Prerequisites:

- At least one K2 system must have been added as a server to the Dyno PA application.
- You must have a license that allows managing channels.

To add a managed channel, follow these steps:

1. Select the Managed Channels tab.
2. Right-click in the Managed Channels pane select **New Channel**.
The Managed Channel dialog box displays.
3. Enter the name of the managed channel.
4. If desired, enter a description of the channel.
5. From the Server drop-down list, select the K2 system that has the channel you want to manage.
6. From the Channel drop-down list, select the channel that you wish to manage and click **OK**

A managed channel appears in the Managed Channels pane.

Related Links

[Managing K2 Dyno PA](#) on page 49

Adding or replacing a K2 Summit system in an existing K2 Dyno PA system

If using the Browse feature in Dyno PA, and a K2 Summit system needs to be added or replaced, follow these steps.

1. When adding a new or replacing an existing K2 Summit system in a K2 Dyno PA system, the FsNameServers file in the C:\SNFS\Config folder must be identical to the other FsNameServers files in the system. This file contains the IP addresses of the Control network ports on up to three name servers. You do not need to disable the Write Filter to edit the FsNameServers file.
 - If adding or replacing a K2 Summit system that is not being used as a host name server, copy the FsNameServers file from one of the other machines in the setup to the C:\SNFS\Config folder of the new machine.
 - If replacing a K2 Summit system that is used as a host name server, the same IP address for the Control network can be used on the replacement machine. Since the identical FsNameServers file already exists on the other K2 Summit systems or Dyno PA machines, copy the existing FsNameServers file from one of these to the replacement machine.
 - If adding a new host name server to an existing K2 Dyno PA system, the IP address of the Control network for the new machine needs to be added to the FsNameServers file of all the K2 Summit systems and Dyno PA machines in the current setup. Either add this IP address to all the FsNameservers files or update one FsNameServers file and then copy that file to the other machines. You can have up to three host name servers in a setup.
2. Reboot the K2 Summit systems.
3. Reboot the K2 Dyno PA machines.

Related Links

[Managing K2 Dyno PA](#) on page 49

Restoring the K2 Summit system to a pre-DLC configuration

If you need to roll a K2 Summit system back to its pre-DLC configuration, you can undo the changes.

Related Links

[Managing K2 Dyno PA](#) on page 49

[Restoring the network adapter order](#) on page 57

[Undoing the DLC server configuration](#) on page 57

Restoring the network adapter order

To restore the network adapter order to its pre-DLC configuration, the Loopback adapter needs to be the first adapter on the K2 Summit system.

1. On the Windows desktop right-click **My Network Places** and select **Properties**.
The Network Connections window opens.
2. On the menu bar at the top of the window, select **Advanced**, then **Advanced Settings...**
3. On the Adapters and Bindings tab, order adapters as follows:
 - a) Loopback adapter
 - b) Control network
 - c) Media network
4. To close Advanced Settings and accept the changes, click **OK**.
5. Close the Network Properties window.
6. Proceed to *Undoing the DLC server configuration*.

Related Links

[Restoring the K2 Summit system to a pre-DLC configuration](#) on page 56

Undoing the DLC server configuration

Prerequisites:

- The network adapters need to be ordered as described in *Ordering the network adapters for K2 Dyno PA*.

To undo the the DLC server configuration, follow these steps:

1. From the **Start** menu, select **Programs | Stornext File System | Client Configuration**.

The SNFS configuration client opens.

2. Click the **Properties** button.

The Properties dialog box displays.



3. On the Distributed LAN tab, select **Disable**.
4. Turn write filter on.
5. Reboot the machine.

Related Links

[Restoring the K2 Summit system to a pre-DLC configuration](#) on page 56

About K2 Dyno PA administrator and user logins

There are two types of K2 Dyno PA users: administrators and normal users. Apart from restricting the user from administrator-level tasks, the main purpose of the user login is to allow for the Dyno PA user interface to be customized to the user's preferences and then saved for future access.

By default, the administrator login and passwords are as follows:

Login: **administrator**

Password: **adminK2**

Passwords are case sensitive.

Users are created in the Dyno PA application under **Users & Preferences**. Normal users are restricted from the following tasks:

- Adding a server
- Adding a managed channel
- Creating a user

Related Links

[Managing K2 Dyno PA](#) on page 49

Creating a K2 Dyno PA user

K2 Dyno PA users are created in the Dyno PA application by a Dyno PA administrator. Dyno PA users are not linked to the standard Microsoft Windows user accounts.

1. From the Menu, select **Users & Preferences**.

The Preferences dialog box displays.

2. Under User Accounts, click the **New** button.

The System User dialog box displays.

3. Enter the following information

- Name
- Description (optional)
- Password (case-sensitive)
- Type: Normal or Admin

4. Click **OK**.

The Dyno PA user interface can be customized to the user's preferences, and the layout will be saved, so that the next time that user logs in, their customized layout is displayed.

Related Links

[*Managing K2 Dyno PA*](#) on page 49

