071-8545-01

K2 TimeDelay Version 2.1.3 Release Notes & Install Instructions

These release notes contain the latest information about the K2 TimeDelay software. The information in these release notes applies to both K2 TimeDelay installed on K2 Media Clients using local storage (stand-alone models) and K2 Media Clients using shared storage.

For additional information see the *K2 TimeDelay User Manual.* The latest Grass Valley documentation can also be found online at:

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

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Grass Valley Product Support

To get technical assistance, check on the status of problems, or report new problems, contact Grass Valley Product Support via e-mail, the Web, or by phone or fax. Contact Grass Valley first regarding problems with third party software on Grass Valley products, such as the Microsoft® Windows® operating system and SQL Server™.

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 by searching our Frequently Asked Questions (FAQ) database.

World Wide Web: http://www.thomsongrassvalley.com/support/
Technical Support E-mail Address: gvgtechsupport@thomson.net.

Phone Support

Use the following information to contact product support by phone during business hours. Afterhours phone support is available for warranty and contract customers.

United States	(800) 547-8949 (Toll Free)	France	+33 (1) 34 20 77 77
Latin America	(800) 547-8949 (Toll Free)	Germany	+49 6155 870 606
Eastern Europe	+49 6155 870 606	Greece	+33 (1) 34 20 77 77
Southern Europe	+33 (1) 34 20 77 77	Hong Kong	+852 2531 3058
Middle East	+33 (1) 34 20 77 77	Italy	+39 06 8720351
Australia	+61 1300 721 495	Netherlands	+31 35 6238421
Belgium	+32 2 3349031	Poland	+49 6155 870 606
Brazil	+55 11 5509 3440	Russia	+49 6155 870 606
Canada	(800) 547-8949 (Toll Free)	Singapore	+656379 1390
China	+86 106615 9450	Spain	+ 34 91 512 03 50
Denmark	+45 45968800	Sweden	+46 87680705
Dubai	+ 971 4 299 64 40	Switzerland	+41 (1) 487 80 02
Finland	+35 9 68284600	UK	+44 870 903 2022

Authorized Support Representative

A local authorized support representative may be available in your country. To locate the support representative for your country, visit the product support Web page on the Grass Valley Web site.

What's new in K2 TimeDelay/ K2 software version compatibility

The K2 TimeDelay version 2.1.3 is compatible with the K2 system software 3.2 versions 3.2.21.746 and 3.2.56.765 or higher, and K2 system software 3.1 release, version 3.1.14.741 or higher.

For more information on K2 system software compatibility, see *K2 Media Client Release Notes and Upgrade Instructions*. For general information about K2 software, refer to the *K2 Media Client System Guide*.

K2 TimeDelay features

- K2 TimeDelay runs on the K2 Media Client.
- Maximum delay is 23:59:59;29
- Minimum delay is 15 seconds for a K2 Media Client with local storage (standalone) and 25 seconds for a K2 Media Client with shared storage.
- When play is paused, the delay does not increase. Using the **Stop** button pauses playback; when playback is resumed, play jumps to the same delay offset that you had specified.
- You can modify the delay settings so that a playback channel rejoins the delay at the newly specified time, or you can reschedule the Start At time for playback.
- There can be up to two TimeDelay sessions running on a given K2 Media Client, depending on the K2's configuration.
- The audio levels for the Record or Play channels can be adjusted independently.
- TimeDelay can be started automatically at a specific timecode value, regardless of the timecode source.
- The record buffer is saved as a clip. This clip can be used in other applications.
- If the video source is disrupted, TimeDelay maintains correct delay positions by inserting black video in the recording for the length of the disruption.
- TimeDelay remembers previous configuration settings. For example, if you configure a TimeDelay session with three Play channels, the next time you start a TimeDelay session it will automatically default to three Play channels.

Installing K2 TimeDelay

K2 TimeDelay can only be installed and run on a local K2 Media Client. TimeDelay comes with a trial license. For more information on licensing, see "Licensing K2 TimeDelay".

To install K2 TimeDelay you must be logged on as Administrator. For information about logging on as Administrator, see the *K2 Media Client System Guide*.

NOTE: These instructions assume that current K2 3.2 software is at version 3.2.21.746 or 3.2.56.765, or higher, or for the K2 software 3.1 release version 3.1.14.741 or higher. If you have a lower version, you will need to upgrade the K2 system before installing K2 TimeDelay.

1. Insert the K2 TimeDelay software CD in the K2 Media Client where you want to install K2 TimeDelay or download the software from the FTP site.
2. In the 2.1.3 folder, double click on the ***Setup.exe*** file to run the file, and follow the install instructions.

Licensing K2 TimeDelay

To use the K2 TimeDelay software past the trial period, you need to get a permanent license from Grass Valley. Licenses are requested through the TimeDelay License Wizard and managed through the SabreTooth License Manager, which are installed with TimeDelay software. The TimeDelay License Wizard and SabreTooth License Manager must be on the K2 Media Client. K2 TimeDelay requires one license for each Record channel.

NOTE: If you are upgrading from K2 TimeDelay version 2.1.2, you do not need to re-license the TimeDelay software.

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.

NOTE: 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, or changing an Ethernet card, you must obtain a new license based on the new MAC address.

You can use the K2 TimeDelay License Wizard for the following task:

- "Requesting a license" on page 4

You can use the SabreTooth License Manager for the following tasks:

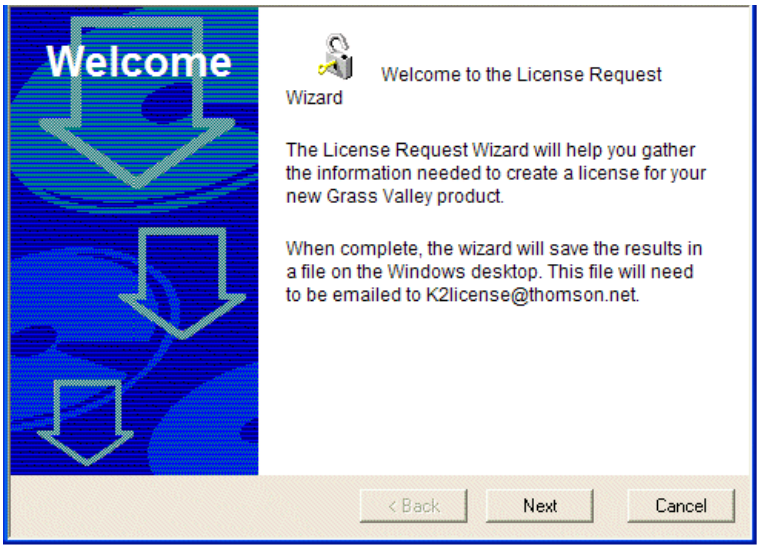
- "Adding a license" on page 9
- "Deleting licenses" on page 9
- "Archiving licenses" on page 10

Requesting a license

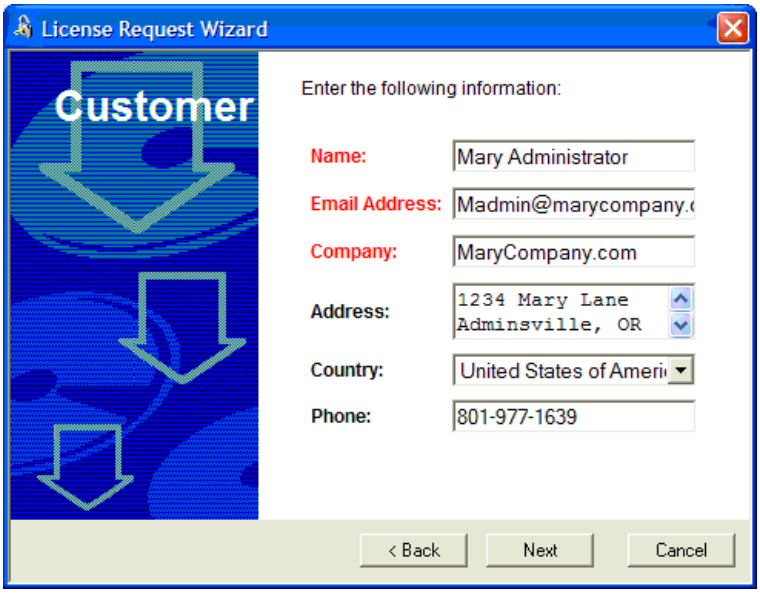
Software licenses are unique to the system for which they are purchased. They cannot be used on any other system. This requires that you provide a generated unique ID for the desired system to Grass Valley, which is then used to create your unique license.

To get a license number, follow these steps:

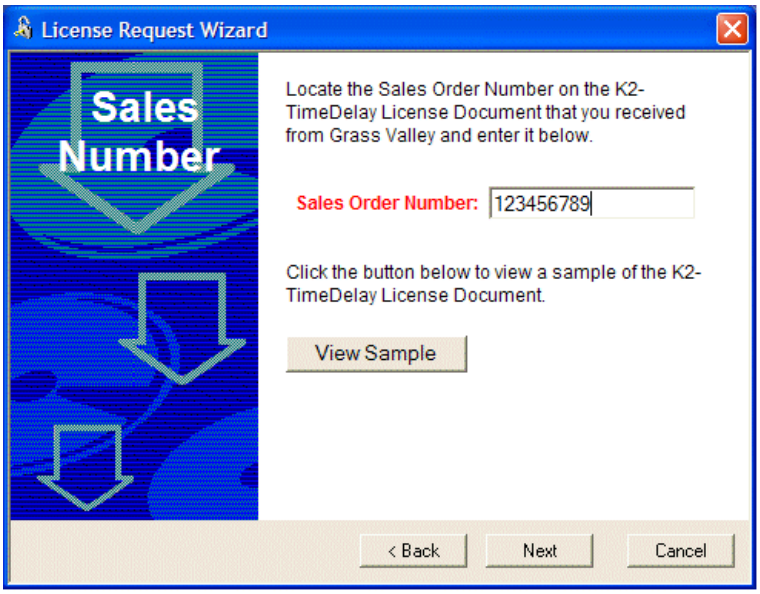
1. From the Start menu, select **Programs | Grass Valley | Request K2 Licenses**. The License Request Wizard displays.



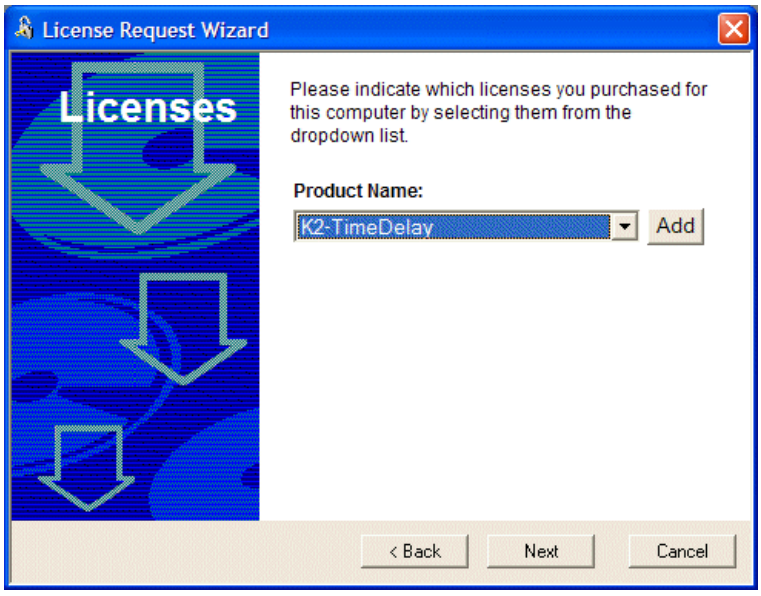
2. Read the on-screen instructions, then click **Next** to proceed to the customer information screen. The Customer dialog box displays.



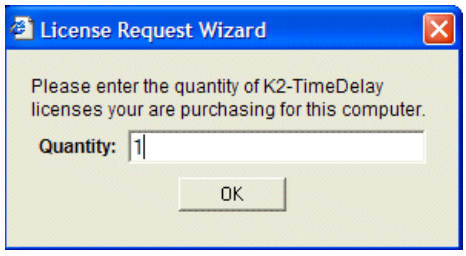
3. Enter the information requested in red font on this page. You must provide a valid email address to receive your license file.
4. Click **Next** to continue. The Sales Number dialog box displays.



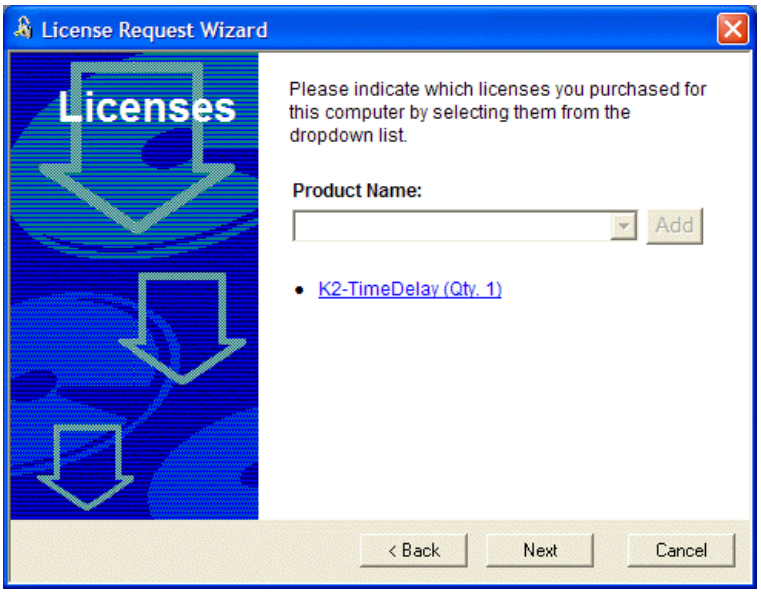
5. Enter the Sales Order Number in the field. The Sales Order Number can be found on the Software License sheet that accompanies the K2 TimeDelay software CD.
6. Click **Next** to continue. The Licenses dialog box displays.



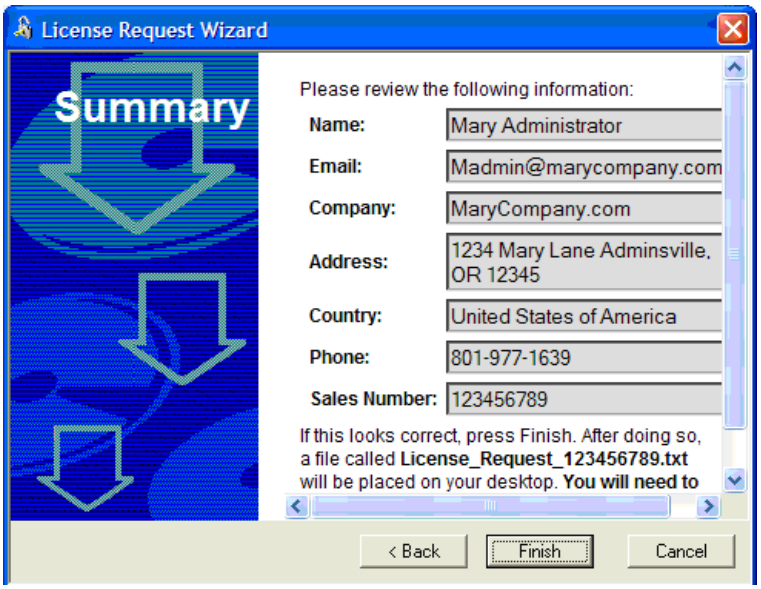
7. Select the product name with the drop-down arrow, and click Add. The License Request Wizard displays a pop-up box.



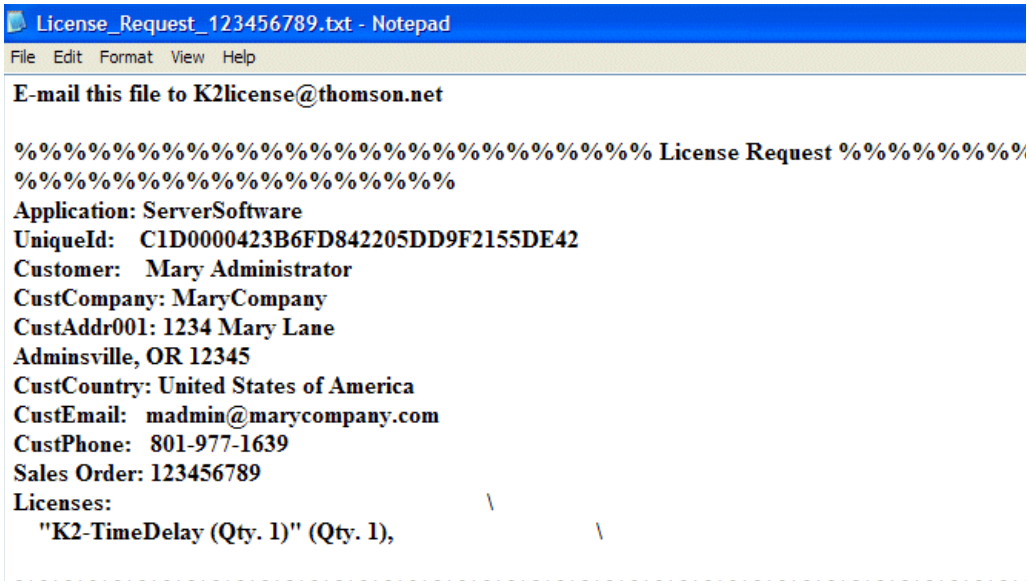
8. Enter the number of licenses. Depending on the configuration of your K2 Media Client, K2 TimeDelay allows you to request up to two licenses per machine.
9. Click **Next** to continue. The Licenses dialog box displays the quantity of licenses that you have requested.



10. To change the requested number of licenses, click on the underlined product name link, and redo steps 7 - 9. Otherwise, click **Next** to continue. The Summary dialog box displays.



11. 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.



12. Attach this text file to an email and send it to K2License@thomson.net. You can also paste the text directly into an email message. You might want to keep a copy of the message for your records.

13. An email will be sent to the email address you specified; your SabreTooth software license will be provided as a text file. For more information, see "Adding a license".

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.

To add a license:

1. Click on the License Manager icon on the Windows Desktop. The SabreTooth License Manager opens. When TimeDelay is first installed, a temporary license is automatically provided.
2. Choose **File | Import License** and navigate to the file location to open the text file, or drag and drop the text file onto the License Manager. In the following example, there are two permanent licenses, one for each record channel on this K2 Media Client.

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 K2 TimeDelay.

To delete a license:

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.

Archiving licenses

You can archive your licenses to a secure location. This allows you to quickly re-install a license should you inadvertently delete it.

To archive a license:

1. Select the license in the SabreTooth License Manager.
2. Choose **File | Export License** to open the Save As dialog box.

Assign a meaningful name to the file, and save it to the desired location.

Operation considerations

- The Auto Start time must be a minimum of 10 seconds ahead of the current time. (CR 72946). If you need to record in less than 10 seconds, use the Manual mode instead of Auto Start.
- On a K2 Media Client with internal storage, the Start At time must be 15 seconds or more after the Auto Start record time.
- On a K2 Media Client with shared storage, the Start At time must be 25 seconds or more after the Auto Start record time.
- After starting a record manually, wait more than 10 seconds before modifying delay settings.(CR 83196)
- Stopping the Record channel causes the Play channels to stop. To ensure that the delayed Play channels continue playing, do not stop the Record channel.
- To ensure frame accuracy, Grass Valley recommends using an external timecode source such as LTC or VITC.
- If the TimeDelay session is disrupted, for example due to operator error or power cycle, you will need to start a new TimeDelay session. (Auto recovery is not supported.)

Known problems

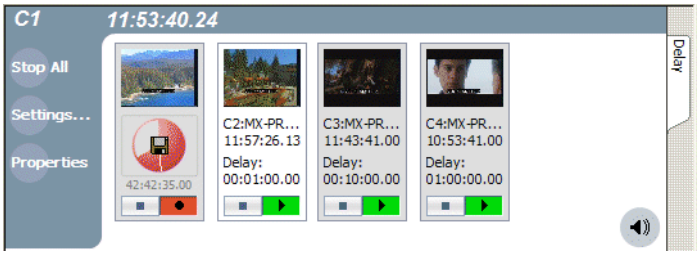
The following limitations are present in this 2.1.3 release. To obtain more information about these limitations, please mention the reference numbers that follow the description of each limitation.

Description:	If you access the Settings window by selecting **TimeDelay	Settings** on the Menu bar, the window that pops up is almost entirely obscured by the AppCenter and TimeDelay applications. (CR72772)
Workaround:	The window displays correctly if you access the Settings window by the **Settings** button instead of the Menu bar.

Description:	If play is paused for longer than the buffer length, the delay offset can slip when media is deleted. (CR72723)
Workaround:	Do not pause play longer than the buffer length.

Description: If you select the Play channel (e.g. C2, rather than clicking on the channel's Play pane within the Record channel) and then click on the **Audio Meter** button, the audio level reflects Recorder settings. Changes to the audio meter settings thus affect the Recorder audio level, not the Player audio level. (CR73664)

Workaround: 1. Select the Play channel by clicking on that channels's Play pane within the Record channel. The selected pane displays with a white background.



2. Click the **Audio Meter** button. The audio meter settings reflect the specified Play channel audio level.