

ICONTROL SOLO

STANDALONE PC-BASED CONTROL

User Guide

M786-1600-334

2017-04-19

www.grassvalley.com

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Introduction

Overview

This guide describes how to configure and use iControl Solo for controlling and monitoring devices required in the broadcast signal path for interfacing, routing and distribution. iControl Solo is designed and produced by Grass Valley.

iControl Solo is a standalone, PC-based control application which offers affordable control directly from a desktop or laptop that has Windows 7. It provides easy list-based control and configuration of up to 100 Densité Series and/or Imaging Series modules. Operators are provided with quick access to devices and parameters for fast and easy control. More advanced control requirements demanding simultaneous, multi-device monitoring and error logging, and a customized, highly graphical user interface, can be met with the iControl Application Server. A USB-to-RS-422 adapter (IC-USB) used to connect Imaging Series housing frames is sold separately.

In brief, iControl Solo offers the following key features and benefits:

- an iControl Solo window with different sorting options, similar to iControl Navigator,
- · drivers for most Grass Valley Densité and Imaging devices,
- the ability to interface up to 100 devices,
- · easy problem resolution using status indicators,
- ideal for set and forget operations.
- [OPTIONAL] a loudness logging and analysis service (IC-LOUDNESS-LOG-1-SOLO loudness logging option for one device to be installed on iControl Solo)

Differences Between iControl Solo and iControl

iControl Solo does not:

- provide thumbnails,
- use a GSM (Global Status Manager) for central management of alarm conditions and error logging,
- support audio level meters (ALMs),
- support Virtual Service Managers for configuring and controlling Grass Valley proc amp devices,
- support Router Manager for configuring and controlling routing switchers.

Getting Started with iControl Solo

Key Concepts

Communicators

Communicators are software components that implement a specific protocol for controlling a family of devices.

Communicators in iControl Solo are responsible for the discovery process whereby a PC or laptop detects Grass Valley devices connected to its serial ports or on the LAN, and initiates services to control these devices.

A communicator is an application that handles the communications between your PC or laptop and Densité, GeckoFlex, or Imaging-series frames on the network. The four types of communicators (Imaging, Densité, GV Node, and GeckoFlex) are configurable services in iControl Solo.

Imaging Communicators allow you to control signal processing and distribution performance modules housed in Grass Valley Imaging series (Symphonie, Quartet 2) frames. The Imaging series frames are connected to your PC or laptop via RS-422 serial ports.

Densité Communicators, GV Node Communicators, and GeckoFlex Communicators allow you to control interfacing and distribution modules housed in Densité, GV Node, and GeckoFlex frames, respectively. These frames are connected to the network via their controller card's Ethernet port.

To be able to use a communicator, the service must be configured. If the service is not configured, you will not be able to control the devices even if they are connected. If the service is configured, but there are no cards connected, only the service will be displayed in iControl Solo.

Densité Manager

Densité Manager is a service that allows you to manage multiple Densité, or GV Node frames (using Densité Communicators).

For Densité Manager to discover cards and begin controlling services, you need to specify the IP addresses of the Densité, or GV Node frames that it will manage. Depending on the model, a frame may contain up to 24 devices. If you do not add any addresses, or if you add an incorrect address, the Densité Manager will not discover any frames.

GeckoFlex Manager

GeckoFlex Manager, like **Densité Manager**, is a service that allows you to manage multiple GeckoFlex frames (using GeckoFlex Communicators).

For **GeckoFlex Manager** to discover cards and begin controlling services, you need to specify the IP addresses of the GeckoFlex frames that it will manage. Each frame may contain up to 10 devices. If you do not add any addresses, or if you add an incorrect address, the GeckoFlex Manager will not discover any frames.

See also

For more information, see Working with GeckoFlex Communicators on page 9.

License Management

License management is the method by which iControl Solo administrators can request, activate, and distribute licenses for options. The majority of tasks related to license management have as a starting point the Grass Valley License Manager page.

Concept	Description
License	An agreement to use a specific software module or collection of modules under specific terms
Grass Valley License Manager	Web-based license management for end-users.
Software Feature	A licensable portion of software.
License request file	A file iControl Solo generates that you send to Grass Valley by e-mail in order to request licenses for one or more optional features.
Activation file	A file Grass Valley sends to you that unlocks and activates one or more optional features.

See also

For more information about licensing, see Licensing Options, on page 15.

Detailed Directions

To set up your iControl Solo system you will need to:

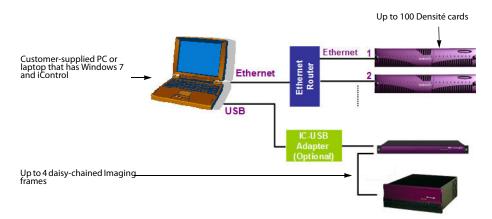
- connect the Densité, GeckoFlex, GV Node, and Imaging frames that house the cards you
 wish to control
- · connect the Kaleido-Solo units you wish to control
- · configure Densité, GeckoFlex, GV Node, and Imaging services in iControl Solo
- configure Kaleido-Solo services in iControl Solo

Connecting Densité and Imaging Series Housing Frames

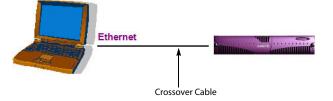
You can connect your iControl Solo PC to Densité frames and Kaleido-Solos over the network through an Ethernet router, or directly via a crossover cable. Imaging frames (Symphonie and Quartet 2) are connected to your PC or laptop using either the IC-USB device, or an RS-232-to-RS-422 converter.

IMPORTANT: iControl Solo is supported on Windows 8 and Windows 7 platforms only

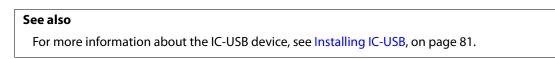
Client PCs running iControl Solo must have Windows 8 or Windows 7 installed. Windows XP is not supported.



Connecting multiple Densité Series frames through a router, and up to 4 Imaging Series frames via IC-USB



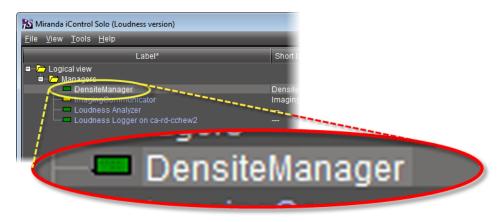
Connecting a single Densité Series frame without a router



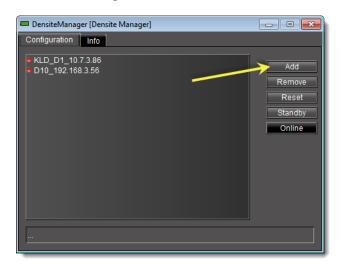
Adding Densité Communicator Services

To add a Densité Communicator service

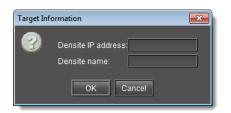
1. Open iControl Solo and double-click **DensiteManager** in the logical view.



2. In DensiteManager, click Add.



3. In the **Target Information** window, type the frame's IP address and a descriptive name for the new Densité Communicator service, and then click **OK**.

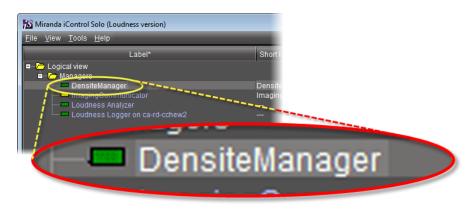


The new Densité Communicator will be started and added to the list. iControl Solo will query the corresponding Densité frame and any devices (e.g. cards) it discovers will be displayed in iControl Solo.

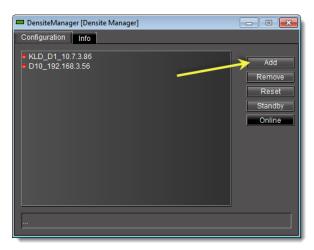
Adding Kaleido-Solo Services

To add a Kaleido-Solo service

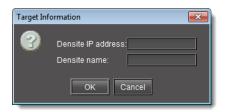
1. Open iControl Solo and double-click DensiteManager in the logical view.



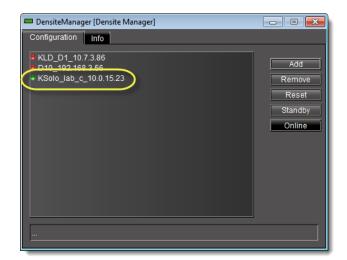
2. In DensiteManager, click Add.



3. In the **Target Information** window, type the Kaleido-Solo's IP address and a descriptive name for the new service, and then click **OK**.



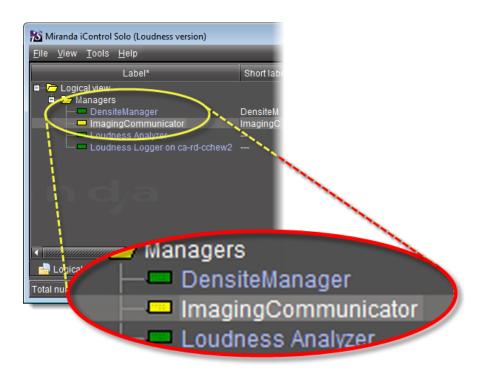
The new Kaleido-Solo will be started and added to the list.



Configuring Imaging Communicator Services

To configure the Imaging Communicator service

1. Open iControl Solo, and double-click ImagingCommunicator in the logical view.



2. In ImagingCommunicator, click Standby.

📼 Imaging@	Communicator [Serial 💼 🔳 🗾
Configurati	ion Info
-Serial confi	!
	Online
	Standby
COM port	
	Note: The configuration can only be
	changed in standby mode.

3. In the COM Port list select the COM port you chose when you installed the IC-USB device

Note: COM port can only be selected in **Standby** mode.

4. Click **Online** to activate the selected port.

The Imaging Communicator service will be restarted and iControl Solo will query all Imaging Series frames interfaced to your computer. Any devices (e.g. cards) housed in the frames will be displayed in iControl Solo.

Working with GeckoFlex Communicators

GeckoFlex Communicators, like Densité communicators, allow you to monitor and control cards housed in Grass Valley GeckoFlex frames.

You can connect your iControl Solo PC to GeckoFlex over the network through an Ethernet router, or directly via a crossover cable. In order to establish communications between the GeckoFlex frame and iControl Solo, a Communicator service must be configured and activated for each frame. If the service is not configured, you will not be able to monitor or control the GeckoFlex frame, even if it is connected.

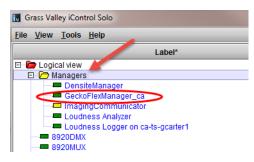
Note: Because of the one-to-one correspondence between GeckoFlex frames and GeckoFlex Communicators, the terms are used interchangeably.

The GeckoFlex Manager is a service that allows you to manage multiple GeckoFlex Communicators. If there are GeckoFlex frames on your network, you will automatically see the GeckoFlex Manager service displayed in the **iControl Solo** window.

For the GeckoFlex Manager to be able to control services, you must specify the IP address(es) of the GeckoFlex frame(s) that it will manage. For each frame specified in this way, the GeckoFlex Manager opens a GeckoFlex Communicator.

To configure a GeckoFlex Communicator

- 1. Open iControl Solo.
- 2. Click Logical view.
- 3. In the Managers folder, double-click the GeckoFlex Manager row.



SYSTEM RESPONSE: The **GeckoFlex Manager** control panel appears. The **Configuration** tab contains a list of currently configured GeckoFlex Communicators. The Status bar located at the bottom of the control panel displays Error, Warning and Information messages.

Note: The first time you access the GeckoFlex Manager, this list will be empty. You must manually add the IP address and name of each GeckoFlex frame to be controlled.

If you select a GeckoFlex Communicator (frame) from the list, you can take one of the following actions:

- Click **Standby** to interrupt the data flow to and from the GeckoFlex frame.
- Click **Online** to restore the data flow to and from the GeckoFlex frame.
- 4. Click Add to add a new GeckoFlex Communicator (frame) to the list.

SYSTEM RESPONSE: The Target Information window appears.

5. Type the GeckoFlex frame's IP address and name, and then click OK.

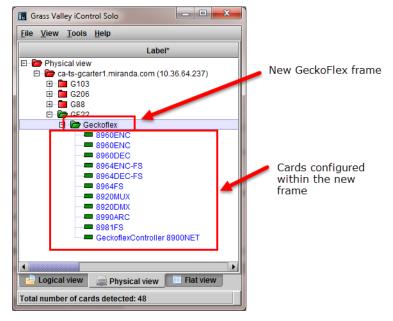


SYSTEM RESPONSE: The GeckoFlex Manager displays the newly added GeckoFlex frame in the list. The frame name and IP address are used to define alarm IDs in the GSM.

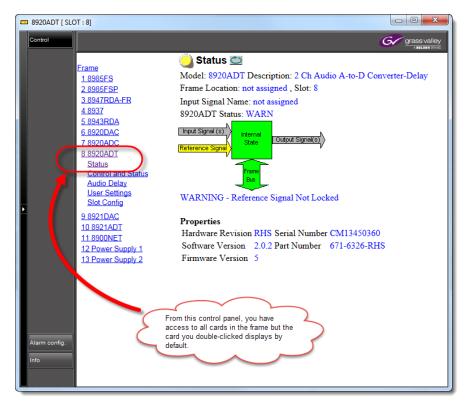
- 6. Click the Info tab.
- 7. In iControl Solo, in the *GeckoFlex Manager* row of the **Logical view** tab, double-click the values in the **Short Label**, **Comments**, and w, and type new values as required.

le Yiew Iools Help							
Label*	Sio	¢	Frame	Туре	Config status	Source ID*	Short label*
b b Logical view	***						-
🖯 🗁 Managers							
DensiteManager				Densite Manager	_		DensiteM
GeckoFlexManager_ca				GeckoFlex Manager	-		GeckoFle
- ImagingCommunicator				Serial Link Manager			ImagingC
Loudness Analyzer				Loudness Analyzer			
Loudness Logger on ca-ts-gcarter1				Loudness Logger			
	8	GF22		8920DMX	Not In Ref. Configuration		8920DMX
8920MUX	7	GF22		8920MUX	Not in Ref. Configuration		8920MUX
- = 8960DEC	3	GF22		8960DEC	Not In Ref. Configuration		8960DEC
	1	GF22		8960ENC	Not In Ref. Configuration		8960ENC
- # 8960ENC	2	GF22		8960ENC	Not in Ref. Configuration		8960ENC
8964DEC-FS	5	GF22		8964DEC-FS	Not in Ref. Configuration		8964DEC-
8964ENC-FS	4	GF22		8964ENC-FS	Not in Ref. Configuration		8964ENC-
- # 8964FS	6	GF22		8964FS	Not In Ref. Configuration		8964FS
- # 8981FS	10	GF22		8981FS	Not In Ref. Configuration		8981FS
= 8990ARC	Q	GE22		R990ARC	Not in Ref. Configuration		REGOARC

8. To see the GeckoFlex cards in your newly configured frame, click the **Physical view** tab, navigate to the desired GeckoFlex frame, and then double-click any of the cards to launch a card's control panel.

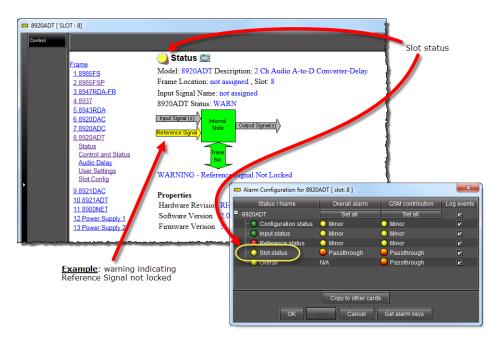


GeckoFlex frame and cards in iControl Solo

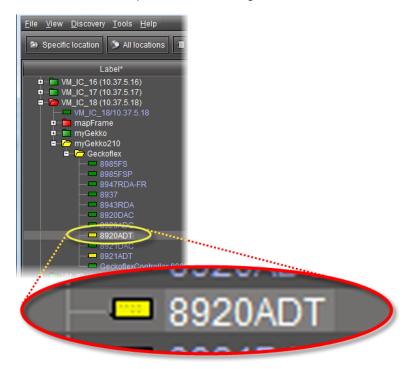


Control panel of a GeckoFlex card

Perform any required card configuration through each card's respective control panels.
 SYSTEM RESPONSE: Alarm status can be seen in iControl Solo and the GeckoFlex card control panel interface.



GeckoFlex card's control panel and alarm configuration window



Card as seen from iControl Solo, showing overall alarm status

See also

For more information about configuring GeckoFlex card parameters, refer to the specific card's documentation.

Adding GV Node Services

For iControl Solo to monitor and control a GV Node frame, a GV Node service must first be added to the list of communicators in Densité Manager.

To add a GV Node service

1. In iControl Solo's *Logical view*, expand the *Managers* folder, and then double-click the Densité Manager element.

ile <u>V</u> iew	r <u>T</u> ools <u>H</u> elp				
	Label*	Туре	Fram	ie Slot	
E 🗁 Log	ical view				
ē 🗁	Managers				
	💻 DensiteManager	Densite Manager			Located at CA-RE
	GeckoFlexManager_CA-RD	-SGeckoFlex Manager			Located at CA-RE
_	ImagingCommunicator	Serial Link Manager			
	💻 Loudness Analyzer	Loudness Analyzer			Loudness Analyz
	Loudness Logger on CA-R	D-Loudness Logger			Located at CA-RE

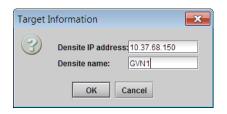
The Densité Manager control panel opens.

DensiteManager [Densite Manager] Configuration	
	Add Remove Reset Standby Online

2. In the Densité Manager control panel, click **Add**. The **Target Information** window opens.

Target I	nformation
3	Densite IP address:
	OK Cancel

3. In **Target Information**, type the GV Node frame's IP address, and a name to identify the new service associated with this particular frame.



4. Click **OK**. The new GV Node service starts and is added to the list of Densité communicators in the Densité Manager control panel.

DensiteManager [Densite Manager]	
Configuration	
• GVN1_10.37.68.150	Add Remove Reset Standby Online

5. Close the Densité Manager window.

The *GV Node Manager* control panel (see <u>GV Node Manager</u> on page 33), and control panels for all modules housed in your GV Node frame are now available in iC Navigator.

ile <u>V</u> iew <u>T</u> ools <u>H</u> elp				
Label*	Туре	Frame	Slot	Comments*
🗆 🗁 Logical view				
🖻 🗁 Managers				
🖻 🗁 GV Node Manager				
GV Node Manager/CA-R	DGV Node Manager			Located at CA-RD-SBOLDUC2/10
DensiteManager	Densite Manager			Located at CA-RD-SBOLDUC2/10
—— GeckoFlexManager_CA-RD-	SGeckoFlex Manager			Located at CA-RD-SBOLDUC2/10
ImagingCommunicator	Serial Link Manager			
— Loudness Analyzer	Loudness Analyzer			Loudness Analyzer at CA-RD-SBO
Loudness Logger on CA-RD	-Loudness Logger			Located at CA-RD-SBOLDUC2/10
Frame ControllerGVN1	GV Node Frame Controller	GVN1	19	Densite Frame Service
Frame Reference	Frame Reference	GVN1	18	HD/SD Frame Reference Module
	Thanke Presidence	0/111	10	TID/OD THATTE Reference module

Logical view showing GV Node Manager, Frame Controller, and Frame Reference

Note: Modules for which a Densité card package is not yet included in iControl Solo (e.g., IFM-2T, XIO-4901, KMX-4911) will only appear after you have uploaded the appropriate package to your iControl Solo installation (see Uploading a Densité Card Package, on page 75).

Licensing Options

Perform the tasks listed in the following workflow in the prescribed sequence.

Workflow: Requesting and Activating a License for iControl Solo

Workflow: Requesting and activating a license for iControl Solo

1.	In iControl Solo, open Grass Valley License Manager (see page 15).
2.	Request the desired license (see Requesting a License, on page 15).
3.	Wait for Grass Valley to return an activation file.
4.	Upload the activation file to the PC on which you have iControl Solo installed, and then activate the license (see Activating a License, on page 16).

Opening Grass Valley License Manager

REQUIREMENT

Before beginning this procedure, make sure you have opened iControl Solo (see page 34).

To open Grass Valley License Manager

• In iControl Solo, on the **Help** menu, click **License**.

```
Grass Valley License Manager appears.
```

Feature	name	Order code	Status	Time remaining	Request fea	atun
Loudness logging opt	ion for one device	IC-LOUDNESS-LOG-1-SOLO	0		0	
		Get license request file for sele	ted features			
		Licensed feature activa	tion form			
Activation file from Gras	s Valley:	Licensed feature active	tion form		Browse	e
Activation file from Gras	s Valley:	Licensed feature active			Browse	e

Requesting a License

IMPORTANT:When licensing for the IC-LOUDNESS-LOG1-SOLO option, the number of licenses
must match the number of devices you with to log from (for example, if you
have seven Kaleido-Solo units, each of which are providing streaming loudness
data to your iControl Solo, then you must have seven IC-LOUDNESS-LOG1-SOLO
licenses).

REQUIREMENTS

Make sure you meet the following conditions before beginning this procedure:

- You have opened Grass Valley License Manager (see page 15).
- You are able to send and receive e-mail on your client PC.

To request a license

1. In **Grass Valley License Manager**, in the **Request feature** column, type the number of licenses you wish to purchase.

▶ Instructions				- +		
Feature name	Order code	Status	Time remaining	Request feature		
Loudness logging option for one device	IC-LOUDNESS-LOG-1-SOLO	0		2 *		
Get license request file for selected features						

Alternatively, you may use the up and down arrows.

2. Click Get license request file for selected features.

A confirmation message appears.

3. Validate the information listed in the confirmation, and if satisfactory, click **OK**. If not satisfactory, click **Cancel**.

If you clicked **OK**, you are prompted to save the downloaded license request file.

- 4. Save the MLR file to a convenient location on your hard drive.
- In your e-mail client application, create a new e-mail with the following recipient: ordering@grassvalley.com
- 6. Attach to this e-mail the MLR file you saved to your local hard drive in step 4, and then send the e-mail.

The request for an activation file is sent to Grass Valley. Wait until Grass Valley provides you with the activation file before proceeding to the next task in the workflow (see Workflow: Requesting and Activating a License for iControl Solo, on page 15).

See also

For more information about licensing, see License Management, on page 4.

Activating a License

IMPORTANT: When licensing for the IC-LOUDNESS-LOG1-SOLO option, the number of licenses must match the number of devices you with to log from (for example, if you have **seven** Kaleido-Solo units, each of which are providing streaming loudness data to your iControl Solo, then you must have **seven** IC-LOUDNESS-LOG1-SOLO licenses).

REQUIREMENTS

Make sure you meet the following conditions before beginning this procedure:

- You have opened Grass Valley License Manager (see page 15).
- You have received an activation file from Grass Valley and it is stored on your client PC's hard drive (either a V2C file or a ZIP file).

To activate a license

1. In Grass Valley License Manager, in the Licensed feature activation form area, click Browse.

iranda License Manager					×	
▶ Instructions						
Feature name	Order code	Status	Time remaining	Request feature		
Loudness logging option for one device	IC-LOUDNESS-LOG-1-SOLO	0		0	3	
	Get license request file for selec	ted features	_			
, Send your Grass Valley license request file to: or	dering@grassvalley.com					
	Licensed feature activat	ion form				
Activation file from Grass Valley: Browse						
	Upload license activation	file				

A file browser window appears.

2. Navigate to the appropriate activation file.

IMPORTANT: Activation files may be V2C or ZIP files

The file Grass Valley sends back to you may have a V2C suffix or a ZIP suffix. In either case, the steps to follow are the same.

3. Select the file, and then click **Open**.

In **Grass Valley License Manager**, the path and file name of the desired activation file appear next to the **Browse** button.

4. Click Upload license activation file.

A confirmation window appears.

In **Grass Valley License Manager**, in the row corresponding to the feature for which you bought licenses, the **Status** column displays the number of active licenses you have.

See also

For more information about licensing, see License Management, on page 4.

Using iControl Solo

Key Concepts

iControl Solo Window

When you open iControl Solo, you see the menu bar, a hierarchical list view, sorting tabs for three different iControl Solo views, and a status bar.

Menu	bar	Hierarchica	al list view		
🔀 Miranda iControl Solo (Loudness	version)				×
<u>F</u> ile <u>V</u> iew <u>T</u> ools <u>H</u> elp <					
Label*		Short label*	Туре	Co	onfig sta
 Logical view Managers 					
DensiteManager	tor	DensiteM ImagingC	Densite M Serial Link		
Loudness Analyzer			Loudness		
Loudness Logger or	n ca-rd-cchew2		Loudness		
	200000000000000000000000000000000000000				i r
Logical view Physical v		/iew <			
Total number of cards detected: 2					
	Status bar	c	Sorting tabs		

The menu bar provides access to iControl Solo's main features.

The status bar is where iControl Solo displays messages related to its current operations.

The sorting tabs are a way of filtering the information to include all devices or a subset.

The hierarchical list is a representation of all the devices interfaced with iControl Solo.

You can use the plus
→ and minus
→ buttons in the hierarchy to navigate the hierarchical list by expanding and collapsing folders and groups (see Managing Device Groups, on page 35 for details).

iControl Solo shows the current status of every device and service within your iControl Solo system. By default, iControl Solo displays the following information for each device:

Status icon	Green (OK), yellow (warning), red (error), or grey (not connected) (see Alarm Status, on page 24).			
Label	The device type (by default) or a user-specified name. The text color reflects the device configuration status.			
	See:			
	Changing Device Information on page 35			
	Reference Configuration on page 24			
	Adding Cards to the Reference Configuration on page 36			
	Removing Cards from the Reference Configuration on page 37			
Short label Abbreviated 8-character label.				
Source ID	Name of the signal source.			
Device type	The device type.			
Comments	Optional; may be entered by the user.			
Config status	Whether the device is or is not part of the Reference Configuration, also if there is a mismatch between the actual and defined device (see Reference Configuration, on page 24).			
Frame	Name of the frame housing the device (when applicable).			
Slot	Number of the slot where the device is located inside the frame (when applicable).			

Control Panels and Device Parameters

Most Grass Valley devices can be controlled using *control panels*. A control panel is a software interface that lets you monitor and control various device parameters.

Note: Grass Valley cards are shipped with Installation & Operation Guides that provide detailed descriptions of their respective control panels, along with instructions on their use.

To access the control panel for a device, double-click the device in iControl Solo. Alternatively, right-click the device name, and then click **Show control panel** on the shortcut menu.

The device name is displayed at the top of its control panel, along with a *dashboard* containing one or more icons representing the status of key device parameters. Error conditions are indicated by color and by a text message that appears below the dashboard. If more than one error condition is present, hold the pointer over an icon to continuously display its associated error message; otherwise the display cycles through all reported errors.

Note: If the *Control* icon on the dashboard is yellow, this indicates that local card control is active—the card is being controlled from a local hardware control panel. In such a case, any changes made using the iControl Solo interface will have no effect on the card.



When control panels are open their names are added to the **View** menu. To bring a specific panel to the foreground, click its name on the **View** menu. To close all open panels at once, click **Close all control panels**.

Control Panel Tabs

Note: For more information on a control panel, please refer to the Installation and Operation Guide for the corresponding device.

The table below lists common control panel tabs and their typical purposes:

Tab	Description
Input	Allows input selection, second input operation mode selection, and control of the deglitcher and freeze functions.
Video Processing	Contains color-correction parameters that apply to the input signal.
Video Output	Allows control over several aspects of the high definition and standard definition video output: aspect ratio conversion, timing control, image quality processing, metadata insertion.
Audio Processing	Provides audio processing and delay parameters for the embedded or discrete audio input channels. These parameters affect both the output audio channels (embedded and AES) and the audio channels sent to other companion cards.
Audio Output	Provides extended audio processing for the 16 audio channels embedded in the HD/SD outputs, including audio channels mixing and audio embedding mode.
Timing	Provides access to timing adjustments which affect the signal outputs.
Factory/Presets	Allows user and device profile management, and restoring of a device's factory default configuration.
Options Describes available options for the device, and provides information on how to enable of them.	
Alarm Config.	Opens a separate window where alarm status can be monitored and configured.
Info	Allows viewing and modifying information about a device (e.g. labels, source ID, comments) to help identifying a specific device in a complex setup.

Info Control Panels

The Info control panel is available for all device types. The Info panel includes device identification information such as a label, a short label, the device type, comments, source ID, config status, frame, and slot. You can display the Info panel from the device control panel, or you can right-click a device in iControl Solo and then click **Show info control panel** from the shortcut menu.

From the Info panel, you can change the name of the selected device and type comments. By default, the device name takes the type identification; however, you will find it helpful to rename devices using meaningful names. Once you change the device name in the control panel, the new name will be displayed in iControl Solo, making the device easier to locate.

-	DEC-1002 [SLOT	:1]			- • -
	Input	REM NTSC	• • • • • •		Mirandya
	Video Processing	Video/Audio	o Test:Audio		
	Audio Output			Inp	
	Thumbnail		Input Format		Operation Mode
	RALM		Auto		⊖ Satellite
			O NTSC		🔿 ѕтиріо
	Blanking				O VCR
	Timing		O PALm		Decoding Filter
	Reference Input		⊖ secam		2D Adaptive
	Input Error		O NTSC B&W		O Notch/Bandpass
ľ	Test		O PAL B&W		
	Options				
	ABUS				
	Factory / Presets				
	Alarm config.				
	Info				

Example of an Info control panel for a specific device

Devices Groups

iControl Solo allows you to organize devices into logical groups, making them easier to locate and to manage. A *device group* is a folder into which you drag selected devices. You can create as many device groups and subgroups as you want.

When you create a device group, you automatically create a virtual alarm that displays the overall status of the member devices. The color of the device group's folder icon will change when one or more of its members displays an error or warning status. For example, if one member device changes status as a result of a critical error, then the group's folder icon will turn red. If no devices are assigned to a group, its folder icon will be white.

🔀 Miranda iControl Solo				
<u>F</u> ile ⊻iew <u>T</u> ools <u>H</u> elp				
Label*	Short label*	Туре	Config status	Comr
E Cogical view				
👤 🖻 🗁 DEC-1002s 💫 🔵				-
DEC-1002	DEC-1002	DEC-1002	Not In Ref	10 Bits
DEC-1002	DEC-1002	DEC-1002	Not In Ref	10 Bits
🗖 🗖 Managers				
📭 💼 NameComp				
🗖 🗖 Rename group				
DEC-1001	DEC-1001	DEC1001	Not In Ref	10 Bits
DEC-1002	DEC-1002	DEC-1002	Not In Ref	10 Bits
DEC-1002	DEC-1002	DEC-1002	Not In Ref	10 Bits
DEC-1002	DEC-1002	DEC-1002	Not In Ref	10 Bits
DEC-1002	DEC-1002	DEC-1002	Not In Ref	10 Bits
Densite2D10	Densite2	Controller2		Densi
Densite2D11	Densite2	Controller2		Densi
	SCP-1121	SCP-1121	Not In Ref	SDI Pr
	SCP-1121	SCP-1121	Not In Ref	SDI Pr
SCP-1121	SCP-1121	SCP-1121	Not In Ref	SDI Pr
SCP-1121	SCP-1121	SCP-1121	Not In Ref	SDI Pr
	SCP-1121	SCP-1121	Not In Ref	SDI Pr
	SCP-1121	SCP-1121	Not In Ref	SDI Pr
	SCP-1121	SCP-1121	Not In Ref	SDI Pr
	SCP-1121	SCP-1121	Not in Ref	SDI Pr

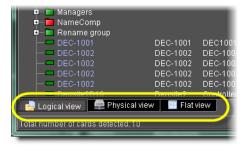
New device group folder (circled)

Note: Device groups can only be created in (and are only visible in) iControl Solo's Logical sort mode.

Views

Sorting allows you to determine the way in which devices will be arranged for display in iControl Solo.

Three views are available by clicking tabs at the bottom of iControl Solo.



iControl Solo tabs (circled)

- **Logical view** displays all active services and devices interfaced with iControl Solo. The devices and services may be organized into groups. Groups and their contents are arranged in alphabetical order. Ungrouped items are displayed at the end of the list. Empty slots are not shown, unless they are in the *Reference Configuration* (see Reference Configuration, on page 24).
- **Physical view** arranges the devices relative to their physical connections and network location. All frame slots are shown. Empty slots show up as **Empty**, unless the card is designated as **In Ref. Configuration**, in which case it will show up as before, but with the description **missing from slot**. Devices are sorted by the name you typed when you

added a Densité Communicator service, and by the number of the serial port where an Imaging frame is connected.

• Flat view shows all devices in alphabetical order without any grouping.

Alarm Status

The current status of an alarm determines the color of any on-screen object associated with that alarm: the LED-like icon to the left of a device or service label, an enclosing folder, etc. Each possible alarm status is represented by a color. Alarm statuses are dynamically updated.

iControl Solo implements an industry standard¹ color code definition for all alarms. The following table describes the color scheme used by iControl Solo to display alarm statuses, and how they map to the ITU-TX.733 Recommendation:

Color	Status	ITU-T X.733	Description	
White	Pending	_	Alarm exists but has not yet been reported. iControl Solo is waiting for the hardware or driver to update the alarm. White is the default status for a new alarm, before its current status is known. This status should be replaced very quickly, though it might persist as the result of a slow network connection. If a service is stopped, then all alarms originating from this service will revert to pending status.	
Green	Normal	Cleared	The device, service, or signal is operating within allowable parameters.	
Yellow	Minor	Minor/Warning	Warning that an error of low importance has occurred.	
Orange	Major	Major	Warning that an error of intermediate importance has occurred.	
Red	Critical	Critical	Warning that an error of critical importance has occurred.	
Gray	Unknown	Indeterminate	Failure to get the status of an alarm provider, even though the source device has been detected. This could happen, for example, as the result of (1) a lost network connection, or (2) a loss of signal that would trigger a critical alarm for signal presence but leave all other related alarms in an unknown status (e.g. the freeze or black status is unknown if a signal is not present).	
Blue	Non- existent	_	A pseudo-status representing an alarm that has been removed (or was never added). If an alarm provider is removed—for example, if a card is removed from a frame—the virtual alarm will be unable to detect an alarm status, and will therefore report the "non-existent" status as blue.	
Black	Disabled	Not supported	Alarm exists but has been disabled at the source. Some devices can have certain alarms disabled on the hardware itself, resulting in these alarms appearing black.	

Reference Configuration

The *reference configuration* is a feature of iControl Solo that allows you to keep track of important cards, or groups of cards. If a card is removed from a slot, the default behavior in iControl Solo is for the card to disappear from the list in the Logical and Global views. In the

^{1.} Default alarm severities in iControl Solo are compliant with the *intent* of ITU-T Recommendation X.733, *Information Technology – Open Systems Interconnection – Systems Management – Part 4: Alarm Reporting Function*

Network view, the device name is replaced by the slot number followed by the indication Empty.

When you to designate a card as part of the reference configuration, then the name of the card and the slot number it occupies are retained. If the card is removed, its label will be visible as before, but with the description Missing from slot appended.

Device Profile Manager

Maintenance personnel and operators can perform quick and accurate, system-wide or focused, card and device configuration management by using **Device Profile Manager**.

Device Profile Manager allows you to:

- export profile data (configuration data about device groups) from one or several devices to a profile file
- import profile data from a profile file to one or several devices
- compare configured parameters, between two or more cards, of the same type and firmware version
- copy configuration data from:
 - one card to one card
 - one card to several cards
 - several cards to several cards
- perform a system snapshot by exporting all card configuration data (for cards supporting profile export)
- · load a user-specified preset to one or several cards as the current configuration
- save the current configuration of one or several cards to any available user preset

See also

For more information, see Working with Device Profile Manager on page 37.

Loudness Logging and Analyzing

Certain devices like the Kaleido-Solo are capable of monitoring the loudness of audio streams. The data generated from monitoring may be sent to your client PC where iControl Solo's *Loudness Logger* can record and archive this stream of loudness data to a dedicated local folder.

After (or even during) the logging of loudness data, iControl Solo's *Loudness Analyzer* can plot a log file's loudness, making visible the data in units of LUFS (EBU) or LKFS (A85) over the time period covered by the file. **Loudness Analyzer** allows you to zoom into the data plot as well, effectively taking a subset of the time frame analyzed while increasing data granularity in the chart.

Additionally, with **Loudness Analyzer**, you may edit analysis parameters as well as showing or hiding certain data plots (e.g. choosing to show or hide the *DIALNORM* and *Short-term Momentary 1* data plots on the chart).

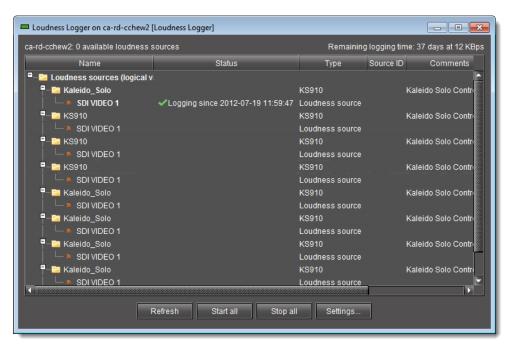
See also

For more information about:

- Loudness Logger, see page 26.
- Loudness Analyzer, see page 27.
- loudness logging and analyzing, see Working with Loudness Logger and Loudness Analyzer, on page 50.
- Loudness Logger and Loudness Analyzer, refer to the Loudness Analyzer User Manual, available from the Documentation Library section of Grass Valley's website.

Loudness Logger

Loudness Logger allows you to start and stop the logging of loudness data streams coming from external audio sources, such as Kaleido-Solo. When you initiate logging of a loudness data stream, you are streaming the data to a log file on your client PC.



Loudness Logger

UI Element Description		
Main window	Displays available loudness data streams	
Refresh	fresh Refreshes the main window	
Start all Starts logging all available loudness data streams		
Stop all Stops logging all available loudness data streams		
Settings	Allows you to specify the location on your local file system where you would like to save loudness data	

IMPORTANT:	Make sure you have sufficient storage space for loudness data
	When specifying a location for storing loudness data, make sure you have enough storage space available. If, when logging loudness data, the logger runs out of space, it will stop logging.
	Grass Valley recommends using a controlled remote storage device to ensure adequate storage space.
	Refer to the table below, for guidelines on estimating storage space requirements.

Differential bit rate of loudness raw data from various devices

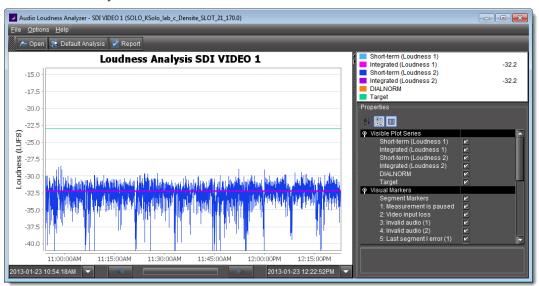
Device	Number of audio programs	Bitrate (Bytes/second)	Bitrate (MBytes/day)
KS-910	1-2	170-210	14.7-18.2
XVP-3901	1-8	170-450	14.7-39
EAP-3901	1-8	170-450	14.7-39
AMX-3981	1-8	170-450	14.7-39
ADX-3981	1-8	170-450	14.7-39

See also

For more information about:

- Working with Loudness Logger and Loudness Analyzer, see page 50.
- Loudness Analyzer, see page 27.

Loudness Analyzer



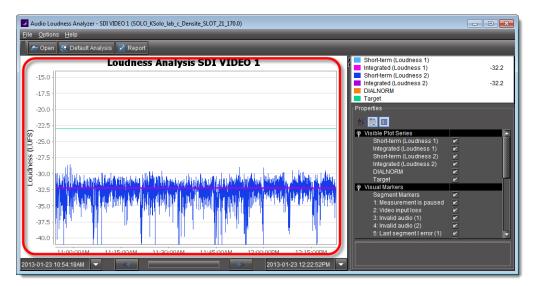
Loudness Analyzer is a powerful tool for graphically depicting an audio source's loudness data over a period of time. The power of this tool lies primarily in its configurability of analysis parameters, including the applicable loudness standard, relative gating, and short-term window. As well, **Loudness Analyzer** allows you to *zoom into* a data plot. Each zooming action triggers a new analysis of loudness data from source, for the requested time period (configurable start and stop times) and given the configured analysis parameters.

Additionally, one can choose to incrementally display or hide plot series. For example, you may decide to display only *Short-term Momentary 1*, *Integrated Momentary 1*, and *DIALNORM* data while hiding the remaining series in order to unencumber the visual chart.

See also

For more information about:

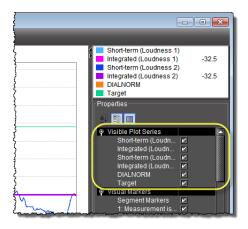
- **Loudness Analyzer**, refer to the Loudness Analyzer User Manual, available from the Documentation Library section of Grass Valley's website.
- Loudness Logger, see page 26.
- Working with Loudness Analyzer and Loudness Logger, see page 50.



Data plot chart (circled in red)

-	
Short-term (Loudness 1) Integrated (Loudness 1) Short-term (Loudness 2) Integrated (Loudness 2) DIALNORM Target	-32.5 -32.5
Properties	

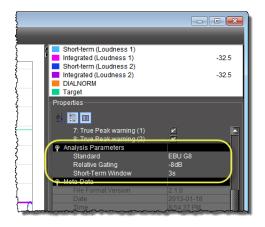
Visible plot series: Color-coded legend and values



Visible plot series: Display options

{		
	Short-term (Loudness 1)	-32.5
	Short-term (Loudness 2) Integrated (Loudness 2) DIALNORM Target	-32.5
<u></u>	Properties	
}	DIALNORM Target I Visual Markers	
}	Segment Markers 1: Measurement is paused 2: Video input loss	XXXXXX
	3: Invalid audio (1) 4: Invalid audio (2) 5: Last segment I error (1) 6: Last segment I error (2)	
2 mm	7: True Peak warning (1) 8: True Peak warning (2) 9: Analysis Parameters	
{	Standard Relative Gating Short-Term Window	EBU G8 -8dB 3s
		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

Visual Markers: Display options



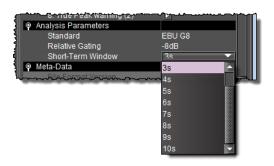
Properties: Analysis parameters

8: True Peak warning (2)		
Analysis Parameters		
Standard	FBU G8 🔍	L
Relative Gating	EBU G8	L
Short-Term Window	EBU G10	
Meta-Data	ARIB TR-B32	
File Format Version		
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	A85 1770-1	
	A85 1770-2	

Properties: Analysis parameters (available standards)

8: True Peak warning (2)	
Analysis Parameters	
Standard	EBU G8
Relative Gating	-8dR 🗸
Short-Term Window	-10dB
Meta-Data	-8dB
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	

Properties: Analysis parameters (relative gating)



Properties: Analysis parameters (short-term window)

	8: True Peak warning (2)	
	<ul> <li>Analysis Parameters</li> <li>Standard</li> <li>Relative Gating</li> <li>Shed Term Window</li> </ul>	EBU G8 -8dB 20
	Meta-Data	
		2.1.0
		2013-01-18
		8:54:37 PM
- r		100
		SDI VIDEO 1
<u></u>		Relative to session
	Audio IDs	000
	Audio ID 1	Loudness 1
		Loudness 2

Meta-data (not editable)

#### Densité Upgrade Manager

**Densité Upgrade Manager** is an iControl Solo utility allowing you to manage the firmware and software versions of individual cards without having to put entire Densité frames into operational *Standby* mode. **Densité Upgrade Manager** allows you to effectively toggle

among Densité card firmware versions. From time to time, new versions become available, and **Densité Upgrade Manager** allows you to upload these.

#### **IMPORTANT:** System behavior

The **Densité Upgrade Manager** included with any version of iControl Solo (starting with version 6.00), supports all Densité card types, *including* cards that do not yet exist.

For example, if a brand new Densité card, *ABC-1234*, is installed in a Densité frame visible to a version of iControl Solo that is, at the time, three years-old (but still version 6.00 or greater), the *ABC-1234* card would be visible within **Densité Upgrade Manager**.

Firmware and software is bundled into single upgrade packages. That is, a package contains one version of firmware for a given Densité card and one version of software. By upgrading a card with a given package, you are changing both the installed firmware and software to those versions of each within the upgrade package.

<b>IMPORTANT:</b>	The version numbering of packages represents a system of incrementation
	belonging <b>ONLY</b> to the package and not to the respective version numbering of
	firmware and software.

**Note:** Densité Upgrade Manager does not allow you to upgrade, downgrade, or roll back firmware separately from software. Changing an installed package necessarily implies changing the component firmware **AND** software to those versions of each embedded within the introduced package.

#### See also

For more information about:

- Upgrading, downgrading, and rolling back firmware and software of Densité cards, see Working with Densité Upgrade Manager, on page 67.
- The **Densité Upgrade Manager** user interface including icon colors and their meanings, see User Interface of Densité Upgrade Manager, on page 32.

Navigation	Туре	Installed firmware	Installed package	Available package	Select /	Install progress	Package history	Rel. no
DAC-1721	DAC-1721	1.0.0	1.0.0-RC-6	<b></b>			E Current: 1.0.0-RC-6	1
HCO-1822	HCO-1822	1.0.9	1.0.0-RC-6	<b></b>			E Current: 1.0.0-RC-6	72
-HCO-3901	HCO-3901	1.0.1	1.0.0-RC-6	<b></b>			E Current: 1.0.0-RC-6	72
HMP-1801	HMP-1801	5.1.3	5.1.0-RC-6	<b></b>			E Current: 5.1.0-RC-6	72
HRS-1801	HRS-1801	1.2.4	1.2.0-RC-6	<b></b>			E Current: 1.2.0-RC-6	72
HRS-1801	HRS-1801	1.0.1	1.0.0-RC-6	<b></b>			Eurrent: 1.0.0-RC-6	74
-SME-1901	SME-1901	1.0.0	1.0.0-RC-6	<b></b>			E Current: 1.0.0-RC-6	72
-SME-1901	SME-1901	1.0.1	1.0.0-RC-6	<b></b>			E Current: 1.0.0-RC-6	7
-XVP-1801	XVP-1801	1.4.1	1.4.0-RC-6	<b></b>			E Current: 1.4.0-RC-6	72
- Logical view	Physical view	Flat view						
								2

#### User Interface of Densité Upgrade Manager

#### Densité Upgrade Manager

Densité l	Jpgrade	Manager	UI	descriptions
-----------	---------	---------	----	--------------

ltem	Description				
Columns					
Navigation	<ul> <li>The tree structure in this column graphically situates Densité cards, and their modules if applicable, in the context of several different navigation method, as follows:</li> <li>Logical view: a logical arrangement (sorted by type)</li> <li>Physical view: a hierarchy representing the nested physical componentry (e.g. appserver &gt; Densité frame &gt; slot &gt; card)</li> <li>Flat view: a flat listing of the Densité cards in alphabetical order.</li> </ul>				
Туре	Type of Densité card				
Installed firmware	<ul> <li>Installed firmware version and firmware upgrade path.</li> <li>If no package is selected under Available package, only the installed firmware version appears in this column. If a package is selected, the upgrade (or downgrade) path appears.</li> <li>If you would like to determine if firmware will be installed in the installation of the selected package, an upgrade path showing X —&gt; X in this column indicates there will be no new installation of firmware. By contrast, an upgrade path showing X —&gt; Y indicates firmware will be installed.</li> </ul>				
Installed package	Installed package version and package upgrade path.				
Available package	Selectable list of packages (relevant to a given Densité card) available to be installed. The version numbers listed are package numbers and <b>not</b> firmware numbers.				
Select / Bypass	Selection tool indicating which cards will have their respectively selected available packages installed once the <b>Upgrade</b> or <b>Force upgrade</b> button is pressed. Additionally, if a package is selected for a card and you would like for it to remain selected but not installed in the next upgrade, you may clear the <b>Select / Bypass</b> check box to make this happen.				
Install progress	The progress bar measuring the current installation of a package. After an installation, this field displays a status message of the last installation attempt.				
Package history	Logs of all package installations for each Densité card.				
Rel. notes	Link to the release notes for the version of firmware embedded within the installed package.				

ltem	Description
Buttons	
Upgrade	Click to begin installing the selected packages (whether upgrade, downgrade, or rollback) to their respective cards.
Force upgrade	Click to begin installing the selected packages to their respective cards (same behavior as the <b>Upgrade</b> button). However, in all cases where the firmware embedded within selected packages have the same version numbers as the installed firmware, no firmware will be installed from the selected package (in theory because it is the same version).
	In order to override the <b>Upgrade</b> button's behavior of <b>NOT</b> installing a save-version firmware from a selected package, you must click <b>Force upgrade</b> .
Clear	Click to clear all selections from the <b>Available package</b> column and all messages from the <b>Select / Bypass</b> column.
Upload files	Click to upload an upgrade package file.

Densité Upgrade Manager UI descriptions (Continued)

# GV Node Manager

**GV Node Manager** provides a visual control panel to help you manage a GV Node frame, and the modules it contains.

For **GV Node Manager** to discover the cards housed in a GV Node frame, you must configure a Communicator service for the frame (see Communicators, on page 3). Each frame typically includes at least the following modules:

- the frame controller, which is represented by *two* control panels in iControl Solo: *Frame Controller*, and *Frame Reference*;
- the IFM-2T internal fabric module;
- and a number of Densité cards (e.g., XIO-4901, KMX-4911).

The GV Node Manager control panel lists every Densité card in the GV Node frame's slots, and their rear panel model (if present). For a compatible card, you can select signal-type options, and select which inputs and outputs are enabled, *between the card and the Internal Fabric Module,* to match the card's actual physical configuration.

For example, the XIO-4901 3G/HD/SD SDI input/output card supports audio embedding/deembedding, as a software option (MDX). If this option has been activated, then GV Node Manager allows you to enable or disable audio embedding/de-embedding on a card's SDI inputs and outputs. If your system is monitoring MADI signals (supported at the card's inputs/outputs 8 and 9), then disabling the MDX option lets you select MADI at the inputs and outputs matching your physical configuration. The total numbers of enabled inputs (to the Fabric module), and output (from the Fabric module) are indicated at the bottom of the control panel. These totals exclude MADI inputs and outputs.

	GV Noc	le Manager/VMS	_CentOS-6	_42_1	/GV	/-Noo	de [	GV N	ode	e Mana	ger]																			-		x
									Ir	puts to	Interr	ial Fa	bric M	lodul	е								Ou	tputs fro	m Int	ernal	Fabric I	Mod	ule			
#	Card	Rear panel	Options	1		2		3		4		5	6	3	7		8	9		1	2	3		4	Τ	5	6		7	8		9
1	XIO-4901	XIO-4901-4SRP-D		SDI	•	SDI	•	SDI	•	SDI 🔻	SD	•	SDI	•	SDI	4	SDI 🔻	SDI 🔻	SD	•	SDI 🔻	SDI	•	SDI 🔻	SE	H 🔻	SDI	-	SDI 🔻	SDI 🗖	r SD	н 🔻
2	XIO-4901	XIO-4901-4SRP-D		SDI	•	SDI	•	SDI	-	SDI 💌	SD	•	SDI	•	SDI	•	MADI 🔻	SDI 🔻	SD	•	SDI 🔻	SDI	•	SDI 🔻	S	H 🔻	SDI	-	SDI 🔻	MADI -	<ul> <li>SD</li> </ul>	H 🔻
3	XIO-4901	XIO-4901-4SRP-D	MDX 🔻	MDX	-	MDX	-	MDX	-	MDX 🔻	SD	•	SDI	•	SDI	•	MDX 🔻	MDX 🔻	ME	× •	MDX 🔻	MDX	•	MDX 🤜	SE	н <b>т</b>	SDI	-	SDI 🔻	MDX -	ME	× ▼
4	XIO-4901	XIO-4901-4SRP-D		SDI	-	SDI	-	SDI	-	SDI 🔻	SD	•	SDI	•	SDI	•	SDI 🔻	SDI 🔻	SD	•	SDI 🔻	SDI	-	SDI 🔻	SE	H 🔻	SDI	-	SDI 🔻	SDI 🖣	SD	I 🔻
5	XIO-4901	XIO-4901-4SRP-D		SDI	-	SDI	-	SDI	-	SDI 💌	SD	•	SDI	•	SDI	•	SDI 🔻	SDI 👻	SD	•	SDI 🔻	SDI	•	SDI 🔻	SE	H 🔻	SDI	-	SDI 🔻	SDI 🖣	r SD	N 🔻
6	XIO-4901	XIO-4901-4SRP-D		SDI	-	Off	-	SDI	-	Off 🔻	SD	•	Off	•	SDI	•	Off 🔻	SDI 👻	Off	•	Off 🔻	Off	-	Off 🔹	Of	• •	Off	-	Off 🔻	Off -	Off	F 🔻
7	XIO-4901	XIO-4901-4SRP-D	None 🔍 🔻	SDI	•	SDI	•	SDI	•	SDI 🔻	SD	•	SDI	T	SDI	•	SDI 🔻	SDI 🔻	SD	•	SDI 🔻	SDI	•	SDI 🔻	SD	I 🔻	SDI	-	SDI 🔻	SDI 🖣	<ul> <li>SD</li> </ul>	I 🔻
8	XIO-4901	NO REAR		SDI	-	SDI	-	SDI	-	SDI 💌	SD	•	SDI	•	SDI	•	SDI 🔻	SDI 👻	SD	•	SDI 🔻	SDI	•	SDI 🔻	SE	н 🔻	SDI	-	SDI 🔻	SDI -	r SD	N 🔻
9	Empty																															
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12	Empty																															
13	Empty																															
14	Empty																															
15	Empty																															
16	Empty																															
	IFM-2T	IFM-2T-RP		Total Ir	nputs	s to Inte	ernal	Fabric	Mod	dule:		67							Tota	al Outpu	uts from In	ternal F	abrio	Module:		62						

### See also

For more information, see Adding GV Node Services on page 13, and Opening GV Node Manager on page 78.

# **Detailed Directions**

# **Opening iControl Solo**

# To open iControl Solo

• Use the iControl Solo shortcut on your desktop. iControl Solo appears.

# **Closing iControl Solo**

### **To close iControl Solo**

- Do **one** of the following:
  - Close all iControl Solo windows, OR,
  - On iControl Solo's File menu, click Quit.
  - All changes are automatically saved.

# **Opening Control Panels**

# To open the control panel for a device

- In iControl Solo, right-click the device, and then click **Show control panel** on the shortcut menu. Alternatively, double-click the device.
  - The device's control panel appears.

# **Opening Info Control Panels**

# To access the Info control panel for a device

- 1. In iControl Solo, double-click the device. The device control panel appears.
- 2. Do **one** of the following:
  - Select the **Info** tab, **OR**,
  - In iControl Solo, right-click the device, and then click **Show info control panel** on the shortcut menu.

# **Changing Device Information**

Some device information can be customized from the device's Info control panel. Changes made in the control panel are immediately applied to the device.

- The device name appears in the Label box.
- You can modify the source ID and add comments in the corresponding boxes.

# **Renaming Devices**

### To rename a device

- 1. Open the **Info** window for the device you wish to rename (see Opening Info Control Panels, on page 35).
- 2. Type the new name in the **Label** box.

The changes are immediately applied.

# Managing Device Groups

With iControl Solo, you can create as many device groups as necessary for your system, and then place the various devices into the appropriate groups. A device can only be a member of one group.

### **Creating Groups**

### To create a group

- 1. In iControl Solo, click **Logical view**.
- 2. Right-click the location for the new group (the root folder, or another folder within the hierarchical structure) and then click **Add Group** on the shortcut menu.

The **Group name** window appears.



3. Type a name for the group (e.g. "satellite" or "remote"), and then click **Create Group**. The group appears as a new folder in the chosen location.

### **Moving Groups**

### To move a group

- 1. In iControl Solo, right-click the group you wish to move, and then click **Cut** on the shortcut menu.
- 2. Right-click the destination folder, and then click **Paste** on the shortcut menu. The group appears as a new folder in the chosen location.

# **Renaming Groups**

### To rename a group

- 1. In iControl Solo, select the group folder you wish to rename.
- Right-click the group folder and then click **Rename group**. The **Folder Name** window appears.

S Folder Name	
New folder Managers	Rename group

3. Type a new name for the group, and then click **Rename group**. The new group name appears for the chosen folder.

# **Removing Groups**

### To remove a group

- 1. In iControl Solo, expand the group folder you wish to remove.
- 2. Remove all devices from the group folder by dragging them to another folder or to the root of the folder structure (only empty groups can be removed).
- 3. Right-click the empty group folder, and then click **Remove group** on the shortcut menu.
- 4. When prompted to confirm the removal, click **Yes**. The group no longer appears in iControl Solo.

# Adding Cards to the Reference Configuration

The reference configuration (see page 24) is a way to keep track of cards or groups of cards important to your setup.

### To add a card to the reference configuration

• In iControl Solo, right-click the card you wish to add, and then click **Add to reference configuration** on the shortcut menu.

The phrase In Ref. Configuration appears in the Config status column.

**Note:** If this card is physically removed from its slot, the card name remains in the **Label** column, along with the phrase **Missing from slot**.

# Removing Cards from the Reference Configuration

### To remove a card from a reference configuration

• In iControl Solo, right-click the card you wish to remove, and then click **Remove from** reference configuration.

The phrase Not In Ref. Configuration appears in the Config Status column.

# Working with Device Profile Manager

### **Opening Device Profile Manager**

### To open the Device Profile Manager

- 1. In iControl Solo, select the devices whose profiles you would like to compare, export from or import to.
- 2. On the Tools menu, click Device Profile Manager,

# OR,

Right-click one of the selected device rows, and then click **Device Profile Manager**.

The **Device Profile Manager** window appears, displaying (by default) the **Export** tab in the **Logical view** of the selected devices.

**Note:** You can select **Show all devices** to display all discovered devices.

- 3. Near the top of the window, click the **Export** tab, **Import** tab, **Presets** tab, or **Compare** tab, as required.
- 4. Near the bottom of the window, click the **Logical view** tab, **Physical view** tab, or **Flat view** tab as required.

#### Notes

- If you are in the **Import** tab, you must select a view for both **Source devices** and **Target devices**.
- If you are in the **Compare** tab, you must select a view for both **Master card** selection and **Compare cards selection**.
- The Logical view, Physical view, and Flat view tabs behave in the same way in **Device Profile Manager** as in iControl Solo. For more information about these tabs, see Views, on page 23.

# Exporting Selected Device Profiles to a Profile File

### REQUIREMENT

Before beginning this procedure, make sure you have opened **Device Profile Manager** (see page 37).

### To export selected device profiles to a profile file

- 1. In **Device Profile Manager**, click the **Export** tab.
- 2. In the **Apply** column, select the devices whose profiles you wish to export to a file on your local PC, by selecting the corresponding check boxes, in the **Apply** column.
- 3. Select Local.

w all devices	Refresh	
Preset	Apply	
Current 🔻		
Current 🔻		
Current 🔻		
Current 💌		
🕈 Current 🔻		
Current 🔻		
Current 🔻		
Current 🔻		
Current 🔻		
40000000000	•	
	✓ Local	

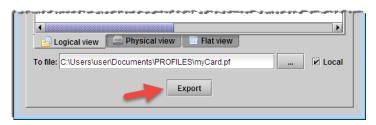
4. Click the Browse button (____) next to the **Local** check box.

The **Open** window appears.

- 5. In the **Look In** menu, browse for the directory you would like to export to (see Navigating with the File Browser in the Open Window, on page 48).
- 6. In the **File Name** box, type the name of the profile file you wish to create.
- 7. Click Select.

The **Open** window closes.

8. In Device Profile Manager, click Export.



A progress window displays the export progress.

**Note:** To cancel the operation before this process is complete, click **Cancel**.

When the process is complete, the **Export** confirmation window appears.

9. Click **OK** to close the **Export** confirmation window.

In **Device Profile Manager**, in the Result column (the column with the information icon in the header), either a check mark or an 'X' is displayed for the selected devices.

Preset	Apply	0 🗲
Current 🔻		<b>~</b>
Current 🔻		×
Current 🔻		×
Current 🔻	1 1	
Current 🔻		
Current 🔻		

**Note:** A check mark indicates that the last operation for this device succeeded. An 'X' indicates that the last operation for this device failed.

### **Importing Profile Data from a File to Selected Devices**

#### REQUIREMENT

Before beginning this procedure, make sure you have opened Device Profile Manager (see page 37).

#### To import profile data from a file to selected devices

1. In **Device Profile Manager**, switch to the **Import** tab.

The Import tab shows discovered or preset Source devices and Target devices.

2. Click Local file.

Device Profile Manage	r						×
Export Import Preset	ts Comp	pare					
Source devices	Remo	te file	Local file	e Cu	urrent device:	s Clear	
Label*		Short label*	Туре	Comments*	Source ID*	Config sta	
- C Logical view		11					

The **Open** window appears.

- 3. Navigate to the profile file from which you would like to import (see Navigating with the File Browser in the Open Window, on page 48).
- 4. Click Select.

The **Open** window closes, and card profiles from the selected file are added to the **Source devices** list in **Device Profile Manager**.

5. In the **Source devices** pane, select the check box in the **Allow** column for every source device whose profile you wish to import,

### OR,

Select the source devices whose profile you wish to import, right-click the selection, point to **Allow**, and then click **Check**.

Source devices	Presets Comp	oare			
Lab	<b>)</b> *	Short label*		Туре	Comments*
🗉 📂 Logical view		110.0 4000		4000	110/00 Ob -
- HCO-182	Browse device i			-1822	HD/SD Cha
	Browse device i				
	Remove from vi	ew			
	Allow		•	Check	
				Unched	:k
占 Logical view	Physical vie	ew 📃 Flat	view	1	

6. In the **Target devices** pane, if the desired target devices are not listed in the list of preset devices, click **Show all devices**.

The Target devices list refreshes with a complete list of discovered devices.

5	✓ Auto-assig	gn exact mate	ches only	Auto-assign	Show all devices	Refresh
T	Slot	Firmware	Preset	Apply 🗌	Assigned source device	
ĩ.						🔺
τ.	21	2.2.3				333
2	21	2.2.3				200
Y,	12	1.0.5	Current 🔻	r	ENC-1103 (D2 #12) 🛛 🔻	
1	18	2.0.5	Current 🔻	r	FRS-1801 (D2 #18) 🔻	1993
-2	9	1.0.0				
Ł	16	1.1.4	Current 🔻	r	HCO-1822 (D2 #16) 🔻	Ī
7	4	1.0.3				
F	2	1.0.7				_

**Note:** By default, the **Auto-assign exact matches only** check box is selected. For those targets with exact matches to any listed source devices, assigned sources appear in the **Assigned source device** column.

- 7. In the Target devices pane, perform the following steps:
  - a) Select all devices to which you would like to download imported profile data.
  - b) If you would like to perform exact matching of sources to targets, select **Auto-assign exact matches only**, otherwise the system performs lenient matching.

**Note:** *Exact matching* allows you to quickly finish the task when you only need to import onto identical devices. *Lenient matching* is for advanced users who would like to import onto non-identical but compatible devices.

c) Select the check boxes in the **Apply** column for all devices to which you would like to attempt to import profile data.

**Note:** If you want to import profiles for all listed devices, select the **Apply** check box in the header row.

- d) Click Auto-assign to discover matches between the listed source and target devices.
   For each selected target with at least one matching source, possible source devices are listed in the Assigned source device column.
- e) In the **Assigned source device** column, select the desired source device match for each selected target.
- f) Click Import.

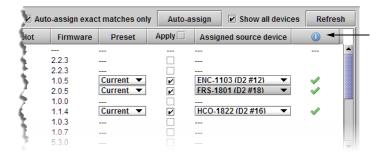
A progress window displays the import progress.

Note: To cancel the operation before this process is complete, click Cancel.

When the process is complete, the **Import** confirmation window appears.

g) Click **OK** to close the **Import** confirmation window.

In the Result column (the column with the information icon 
in the header) of the **Target devices** pane, either a check mark or an 'X' is displayed for selected devices.



**Note:** A check mark indicates that the last operation for this device succeeded. An 'X' indicates that the last operation for this device failed.

**Comparing Configured Parameters Between Selected Devices** 

### To compare configured parameters between selected cards

- 1. In iControl Solo, select the cards whose configured parameters you wish to compare.
- 2. Right-click the selection, and then click **Compare**.

**Device Profile Manager** appears, with the **Compare** tab in focus. Both panes are in **Logical view** mode. The selected cards appear in the **Master card selection** pane.

laster card selection						Show all de	vices Refresh
Label*	Short label*	Туре	Comments*	Frame	Slot	Firmware	
E- 📴 Logical view — IRS-1801-Inpu — IRS-1801-Inpu		HRS-1801-Input HRS-1801-Input		QAFrame-2 QAFrame-2		- .0.1 .0.1	
占 Logical view 📃	Physical view	Flat view					
ompare cards selection							
Label*	Short label*	Туре	Comments	* Frame	Sic	t Firmware	e Apply 🗌 🕕
Logical view	Physical view	Flat view					

**Note:** You can select **Show all devices** to display all discovered devices.

3. In the **Master card selection** pane, click the card you wish to use as the reference device for the comparison.

Cards of the same type and firmware version appear in the **Compare card selection** pane.

laster card select	tion					Show all de	vices	Refresh
Label*	Short label	* Type	Comments ^a	Frame	Slot	Firmware		
🗉 🗁 Logical viev								
	01-Input HRS-1801	HRS-1801-Input		QAFrame-2		1.0.1		
HRS-18	01-Input HRS-1801	HRS-1801-Input	HD Router	QAFrame-2	19	1.0.1		
🔒 Logical view	📄 Physical view	Flat view						
Compare cards se Label*	Short label*	Туре	Comments*	Frame	Slot	Firmware	Apply	
E Cogical view	v 01-Input HRS-1801	HRS-1801-Input	UD Pouter	۔ QAFrame-2		 1.0.1		
- 1103-10	io remparentos roo r	HIX3-100 Hillput	HD Kouler	QAFTattie-2		1.0.1		•
🔒 Logical view	Physical view	Flat view						
			,					

A green check mark in the Information column for a card indicates that this card and the master card have the same settings. A red cross indicates that there are differences between the cards' configured parameters.

• To review a card's configured parameters, against the master card's: In the Compare cards selection pane, click the card you wish to compare against the master, and then click the Compare button.

The **Detailed comparison results** window appears, with differences highlighted in red. You can filter the comparison results by typing text in the **Filters** box, selecting **Case sensitive**, or **Show different only**, and then clicking **Search**.

🛓 Detailed comparis	son results		×
Master card: MC_VM_33	_MyFrame_Dens	ite_SLOT_17_114	
Compare card: MC_VM_3	33_MyFrame_De	nsite_SLOT_16_114	
Filters Case s	sensitive 🗌 Sh	ow different only Search	
Parameters 🔺	Master	Compare	
vBlackDet1_V	7	7	
vFormatIn1	2	0	
vFormatin2	2	0	
vFormatinCh1	2	0	
vFormatInCh2	2	0	
vFreezeDet1_2_D	14	14	
vFreezeDet1_2_E	0	0	
vFreezeDet1_2_Reset	2	2	
vFreezeDet1_2_ST	3	3	
vFreezeDet1_2_V	1	1	332
vFreezeDet1_D	14	14	
vEroozoDot1_E	0	0	•

 To export card configuration details to a CSV file: In the Apply column, select the cards whose parameters you wish to export by clicking the corresponding check boxes, click the Browse button to specify the CSV file name and location, and then click Export.

Label*	Short label*	-					s Refresh	
-	2	Туре	Comments*	Frame	Slot	Firmware		
🛛 📂 Logical view								
		HLP-1801	HD/SD SDI			2.0.0		
		HLP-1801 HLP-1801	HD/SD SDI HD/SD SDI			2.0.0		
HLF-1001	HLF-1001	HLF-1001	HD/3D 3DI	wyrianie	17	2.0.0		
Logical view     Logical view     Logical view     Logical view								
Label*	Short label*	Туре	Comments*	Frame	Slot	Firmware	Apply 🗹	
🖿 🗁 Logical view						-		
			HD/SD SDI M	*		2.0.0	<b>r</b>	XX
- HEP-1001	HEP-1001	HEF-1001	HD/3D 3D11	Nyrianie	10 2	2.0.0	V	~
🚽 Logical view 📃 🚍 Pl	hysical view	📃 🔲 Flat view	]					

The exported CSV file lists all configured parameters, with one column for the master card, and a column for each of the cards you selected for export.

# **Copying Profile Data from Selected Devices to Other Selected Devices**

#### REQUIREMENT

Before beginning this procedure, make sure you have opened **Device Profile Manager** (see page 37).

### To copy profile data from selected devices to other selected devices

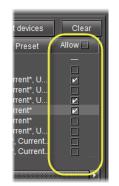
- 1. In Device Profile Manager, click the Import tab.
- 2. In the **Source devices** pane, perform the following steps:
  - a) Click Current devices.

N	Device Profile Ma	nager		_	1-1-10				x
-	Export Import	Presets	1						
						$\langle$			
	Source devices		Remote	file	Local file	Cur	rent devices	Clear	
	Label*	Short label*	Туре	Comments*	Source ID*	Config Stat		Slot	
	— 🗖 Logica								

The **Source devices** pane is populated with all discovered current devices.

Device Profile Manager	_		-		-	
Export Import Pres	ets					
Source devices	Remote	e file	Local file	. Curre	ent devices	Cle
Label* Short lab	el* Type	Commen	ts* Source ID	* Config stat	Frame	Slo
💷 🗁 Logica						
🚺 🗖 🗖 Lip						
DeDensite2	Controller2	Densite Fr	a		trieu	21
DeDensite3	Controller2	Densite Fr	a		LabA_D3_1	21
DeDensite3	Controller2	Densite Fr	a		LabA_D3_2	21
	1 HDC-1861	HD Down-	C	Not In Ref	LabA_D3_1	3
	1 HDC-1861	HD Down-	C	Not In Ref	LabA_D3_2	3
	000000000000000000000000000000000000000	****	****	0000000		

b) In the **Allow** column, select all devices whose configuration data you would like to copy from.



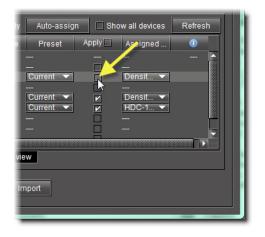
- 3. In the **Target devices** pane, perform the following steps:
  - a) Select Show all devices to display all discovered devices.

Target devic		assign exact r		Auto-assig		w all devices	Refres
onfig stat	Frame	Slot	Firmware	Preset	Apply 🗌	Assigned	٩
-							
-							
	trieu	21	2.0.2	Current 🔻	r	Densit 🔻	
	LabA_D3_1	21	2.0.4				
	LabA_D3_2	21	2.0.4	Current 🔻	V	Densit 🔻	
ot In Ref	LabA D3 1	3	112	Current V		HDC-1 V	

The Target devices pane is populated with all discovered devices.

**Note:** The target devices all display auto-assigned matches (the check box in the **Apply** column is selected for every matched device).

b) For every target device you do not want to copy configuration data to, clear the **Apply** check box.



- c) For every target device you would like to copy configuration data to, make sure the assigned source device is the appropriate choice. If it is not, select a more appropriate source device from the list in the **Assigned source device** column.
- 4. In the **Assigned source device** column, if you do not find the source device you would like to assign, perform the following steps:
  - a) Clear the Auto-assign exact matches only check box.

Target devices	Auto-as	sign exact ma	atches only	Auto-assig
Label*	Short label*	Туре	Comments*	Source ID
■-/ Logica u- = Lip				
De De	Densite2	Controller2	Densite Fra	
- De	Densite3 Densite3		Densite Fra Densite Fra	

b) Click Auto-assign.

The lists of possible source device matches, in the **Assigned source device** column, are expanded to include non-exact matches.

- c) Select the appropriate source device match from the expanded lists.
- 5. Click Import.

The configuration data from the selected source devices is copied to the selected target devices.

In the Result column (the column with the information icon of in the header) of the **Target devices** pane, either a check mark or an 'X' is displayed for selected devices.

**Note:** A check mark indicates that the last operation for this device succeeded. An 'X' indicates that the last operation for this device failed.

### Loading a Device's Preset Configuration Data as its Current Configuration

#### REQUIREMENT

Before beginning this procedure, make sure you have opened Device Profile Manager (see page 37).

### To load a device's preset configuration data as its current configuration

1. In **Device Profile Manager**, click the **Presets** tab.

The **Presets** tab displays discovered or preset devices.

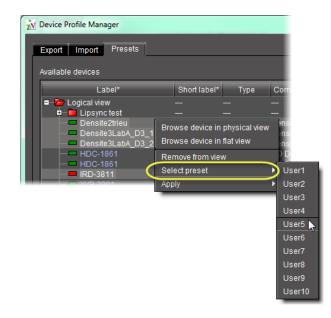
Ň	Device Profile I	Manager				- 2			×
-	Export Imp	rt Presets							
	Available devic		*			🗌 Sho	w all devices	Refresh	
	Label*	Short label*	Туре	Comments*	Source ID*	Config stat	Frame	Slot	Ĩ
	— 🗖 Logica								

- 2. Click Show all devices to populate the list.
- 3. In the **Available devices** area, select those devices with presets you would like to set as the active configuration.
- 4. If you would like to assign presets individually for each of the selected devices, select the preset you would like to load as the active configuration.

			<b>∠</b> s	how all devices
ame	Slot	Firmware	Preset	Apply 🗌
Dens	4	3.1.0	User1 🔻	
Dens		2.0.1	User1 🔻	V
feeds		2.0.0	User1	V
feeds		2.0.0	User2	
feeds	10	2.0.0	User3	V
feeds	12	2.0.0	User4	
eds		2.0.0	User5	
eds		2.0.0	Useri 🚬 💌	
Dens	13	1.0.1	User1 🔻	
Dens	16	1.2.2	User1 🔻	
oution	21	2.0.0	User1 🔻	
feeds	21	2.0.2	User1 🔻	
eds	21	2.0.2	User1 🔻	
	34	200	Lloort 🔍	

**Note:** When a preset is selected in the **Preset** column, the corresponding **Apply** check box is automatically selected.

- 5. If you would like to assign one preset to multiple devices, perform the following steps:
  - a) Select those devices for which you would like to assign a preset as the active configuration.
  - b) Right-click on any one of the selected devices, point to **Select preset**, and then click the desired preset from the list.



6. Click Load from preset.



A confirmation window appears.

7. Click **OK** in the confirmation window.

# Saving a Device's Current Configuration Data as One of its Presets

### REQUIREMENT

Before beginning this procedure, make sure you have opened **Device Profile Manager** (see page 37).

### To save a device's current configuration data as one of its presets

- In Device Profile Manager, click the Presets tab near to the top. The Presets tab displays listings of discovered or preset devices.
- 2. For each of the selected devices, perform the following steps:
  - a) In the **Preset** column, select the preset to which you would like to save configuration data.
  - b) In the **Apply** column, for each device with active configuration data you would like to save to a preset, select the check box.
- 3. Click Save to preset.

A confirmation window appears.

4. Click **OK** in the confirmation window.

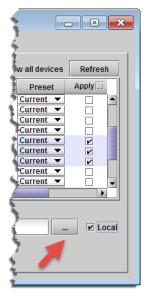
### Navigating with the File Browser in the Open Window

### REQUIREMENT

Before beginning this procedure, make sure you have opened **Device Profile Manager** (see page 37).

### To navigate with the file browser in the Open Window

- 1. In **Device Profile Manager**, perform only **ONE** of the following steps, depending on your requirements:
  - If you are exporting, on the Export tab, select the Local check box, and then click the Browse button (____) near the bottom, right side of the window.



# OR,

• If you are importing, on the **Import** tab, click **Local file**.



The **Open** window appears.

	File browser	Navigation buttons	Display forma	at buttons
Doen	DFILES			— File display area
File <u>N</u> ame:				
Files of <u>T</u> ype: P	rofile bundles (*.pf)		-	
		Select	Cancel	

2. In the **Open** window, browse to the local directory where the desired profile file is located or where you wish to create a profile file.

Note: Use the Navigation buttons to help you browse.

- 3. To change the view format of the displayed files, use the **Display format** buttons, or perform the following steps:
  - a) Right-click anywhere in the file display area.
  - b) Point to View, and then click either List or Display, as required.

🚺 Open		×
Look <u>I</u> n:	PROFILES	
	View	
File <u>N</u> ame:		
Files of <u>T</u> ype:	Profile bundles (*.pf)	•
		Select Cancel

The view format changes to the selected mode.

# Working with Loudness Logger and Loudness Analyzer

There are several tasks you can perform related to both logging and analyzing loudness data in iControl Solo. Certainly, before you do anything else, you must make sure your system is properly configured. You must also make sure you log before you analyze. While the sequence of these tasks may seem obvious, the sequence of other required tasks may not be. The following is an approved workflow for configuring, logging, and analyzing loudness data in iControl Solo.

Sample workflow: Logging and analyzing loudness

1.	Open Loudness Logger (see page 51).
2.	Specify a location in your local file system where you would like loudness data to be saved (see page 53).
3.	Log loudness data for the desired audio stream (see Logging an Audio Stream's Loudness Data, on page 55).
4.	Stop the loudness log recording (see page 56).
5.	Open Loudness Analyzer (see page 52).
6.	Configure general <b>Loudness Analyzer</b> settings (see page 56).

Sample workflow: Logging and analyzing loudness (Continued)

7.	Open a loudness log file (see page 60).
8.	[OPTIONAL] Zoom into Loudness Analyzer's data plot (see page 63).
9.	[OPTIONAL] Configure loudness analysis parameters for this data plot (see page 61).
10.	[OPTIONAL] Generate a loudness analysis report (see page 65).

### See also

For more information about:

- Logging and analyzing loudness data, see page 25.
- Loudness Logger, see page 26.
- Loudness Analyzer, see page 27.
- Loudness Logger and Loudness Analyzer, refer to the Loudness Analyzer User Manual, available from the Documentation Library section of Grass Valley's website.

# **Opening Loudness Logger**

### REQUIREMENT

Before beginning this procedure, make sure you have opened iControl Solo (see page 34).

### To open Loudness Logger

• In iControl Solo, double-click the desired **Loudness Logger**.

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ile <u>v</u> lew <u>T</u> u					_
	Label*		Short label*	Туре	Config
🗕 🗁 Logical vi					
📮 🗁 Mana	-				
	pServer_INF4/10.8.1.4			GSM	
	udio Video Fingerprint Ar udio Video Fingerprint			Audio Vide Audio Vide	
	ensiteManager2_Ar_Sei		DensiteM	Densite Ma	
	ensiteManager_ApServ		DensiteM	Densite Ma	
	oudness Analyz			Loudness	
	oudness Logger on Apps	Server_INF4		Loudness	
🗌 🖵 Kaleio			Kaleido_	KS910	
Francisco					
🚽 Logical viev	N 📮 Physical view	Flat view			
onnections: 10	814				

Name	Status	Туре	Source ID	Comments
🛅 Loudness sources (logica	1 vi		II	
■ 🛅 Kaleido_Solo		KS910	Ka	aleido Solo Con
🗆 🖿 🕷 SDI VIDEO 1	Logging since 2012-07-19 11:59:47	Loudness source		
– 🔁 KS910		KS910	Ka	aleido Solo Con
📙 🗏 🕷 SDI VIDEO 1		Loudness source		
– 🔁 KS910		KS910	Ka	aleido Solo Con
🗆 🖿 🕷 SDI VIDEO 1		Loudness source		
⁼ —🚞 КS910		KS910	Ka	aleido Solo Con
SDI VIDEO 1		Loudness source		
🖣 🚞 Kaleido_Solo		KS910	Ka	aleido Solo Con
📔 🗆 🕷 SDI VIDEO 1		Loudness source		
🖣 🚞 Kaleido_Solo		KS910	Ka	aleido Solo Con
📔 🗆 🕷 SDI VIDEO 1		Loudness source		
🖣 🚞 Kaleido_Solo		KS910	Ka	aleido Solo Con
📙 🗏 🔋 SDI VIDEO 1		Loudness source		
🖣 🚞 Kaleido_Solo		KS910	Ka	aleido Solo Con
📙 🖳 🕷 SDI VIDEO 1		Loudness source		

#### Loudness Logger appears.

# **Opening Loudness Analyzer**

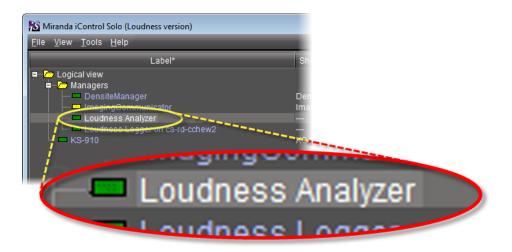
#### REQUIREMENTS

Make sure you meet the following conditions before beginning this procedure:

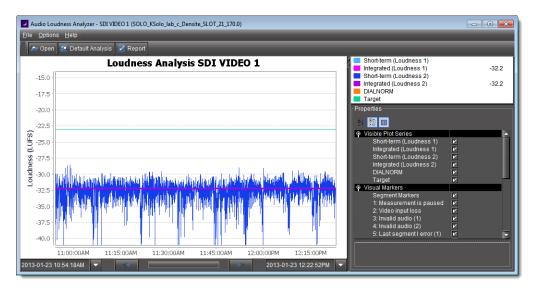
- The PC running iControl Solo is connected to a device which is streaming loudness values, such as a Kaleido-Solo.
- You have already logged loudness data (see Logging an Audio Stream's Loudness Data, on page 55).
- You have opened iControl Solo (see page 34).

### To open Loudness Analyzer

• In iControl Solo, double-click Loudness Analyzer.



### Loudness Analyzer appears.



**Note:** Loudness Analyzer is time zone-agnostic, meaning it displays a data plot's time code as UTC (coordinated universal time). When you configure your general Loudness Analyzer settings, make sure you set the time zone to that of the signal being analyzed.

# **Specifying a Location for Saving Loudness Data**

IMPORTANT:	Make sure you have sufficient storage space for loudness data
	Ensure you have enough storage space available for loudness data at the specified location. If, when logging loudness data, the logger runs out of space, it will stop logging.
	Grass Valley recommends using a controlled remote storage device to ensure adequate storage space.

### REQUIREMENTS

Make sure you meet the following conditions before beginning this procedure:

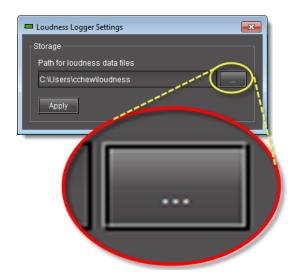
- The PC running iControl Solo is connected to a device which is streaming loudness values, such as a Kaleido-Solo.
- You have opened iControl Solo (see page 34).

#### To specify a location for saving loudness data

- 1. In **Loudness Logger**, select the loudness source.
- 2. Click Settings.

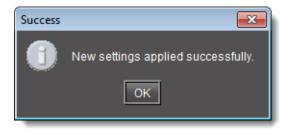


3. In the **Loudness Logger Settings** window, click the Browse button to browse for the location in your local file system where you would like to save loudness data.



4. Click Apply.

If you chose a valid path, the **Success** message appears.



# Logging an Audio Stream's Loudness Data

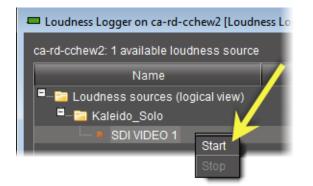
# REQUIREMENTS

Make sure you meet the following conditions before beginning this procedure:

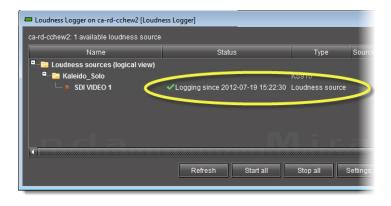
- There is a device streaming loudness values, such as a Kaleido-Solo, visible to iControl Solo.
- You have opened Loudness Logger (see page 51).

### To log an audio stream's loudness data

- 1. In **Loudness Logger**, find the loudness source for which you would like to create a log.
- 2. Right-click the source and click Start.



Loudness Logger begins logging loudness data from the indicated source.



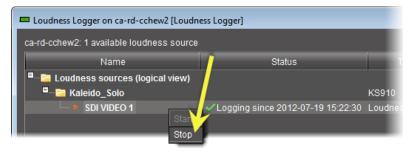
# **Stopping a Loudness Log Recording**

### REQUIREMENT

Before beginning this procedure, make sure you have opened Loudness Logger (see page 51).

### To stop a loudness log recording

- 1. In **Loudness Logger**, find the audio source whose loudness data you would like to stop recording.
- 2. Right-click this audio source and click **Stop**.



The **Status** column should be blank indicating that logging has stopped for this audio source.



# **Configuring General Loudness Analyzer Settings**

Perform this procedure to define time zone as well as search parameters when searching for loudness log files.

### To configure Loudness Analyzer general settings

1. In Loudness Analyzer, on the Options menu, click View Settings.



The Settings window appears.

Settings
Logs Timezone (GMT-5:00) America/New_York 🔻
Reset analysis when a marker is detected 🛛 🖌
Maximum level of directory nesting in search 3
Loudness Range in Plot +9 -4114
OK Cancel

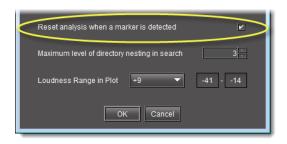
2. Select the time zone that matches your logs.

**Note:** Loudness Analyzer is time zone-agnostic, meaning it displays a data plot's time code as UTC (coordinated universal time). When you configure your general Loudness Analyzer settings, make sure you set the time zone to that of the signal being analyzed.

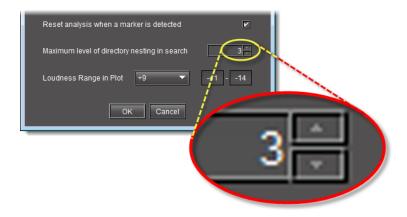
Settings		×
Logs Timezone	(GMT-5:00) America/New_York	-
Reset analysis when a	(GMT-5:00) America/New_York (GMT-5:00) America/Nipigon	Ê
	(GMT-5:00) America/Panama (GMT-5:00) America/Pangnirtung	
	(GMT-5:00) America/Port-au-Prince (GMT-5:00) America/Resolute	
Loudness Range in Pl	(GMT-5:00) America/Thunder_Bay (GMT-5:00) America/Toronto	-
Γ	OK Cancel	

3. Select **Reset analysis when a marker is detected** if you would like for the integrated value to reflect only those data belonging to the segment.

By contrast, if you would like for your integrated value to reflect the data belonging to the entire analysis range, then clear this check box.

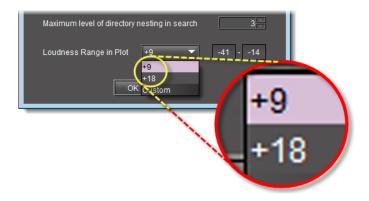


4. Next to **Maximum level of directory nesting in search**, use the *Up* and *Down* arrow buttons to select the number of nested levels in which you would like **Loudness Analyzer** to search for log files.



#### Notes

- Selecting **3**, for example, instructs **Loudness Analyzer** to search in the directory named in the path you will define later when you open a loudness log file and then within the next *three* nested levels down.
- If you select **0**, **Loudness Analyzer** only searches for log files within the immediate level of the directory named in the path.
- The deeper you search into nested directories, the slower the search operation will be.
- 5. Next to Loudness Range in Plot, do ONE of the following:
  - Select a preset loudness range to be visible in your data plot (taking note of the range values).

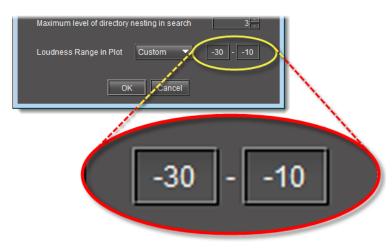


# OR,

a) Select Custom.



b) Manually enter a custom range.



6. Click **OK**.

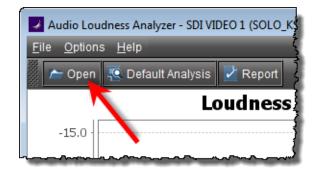
# **Opening a Loudness Log File in Loudness Analyzer**

#### REQUIREMENT

Before beginning this procedure, make sure you have opened **Loudness Analyzer** (see page 52).

#### To open a loudness log file

1. In Loudness Analyzer, click Open.



The **Open Logs** window appears.

2. Next to Loudness Logs Root Folder, click Browse.

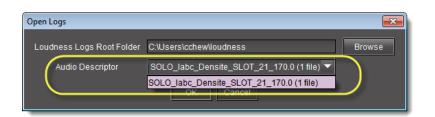
Open Logs		×
Loudness Logs Root Folder	C:\Users\cchew\loudness	Browse
Audio Descriptor	SOLO_labc_Densite_SLOT_21_170.0 (1 file) 🔻	$\uparrow$
	OK Cancel	

3. In the **Open** window, in the **File Name** box, type the path to the directory containing the loudness data.

🗖 Open		
Look <u>I</u> n:	loudness	
File <u>N</u> ame:	C:\Users\cchew\loudness	
Files of <u>T</u> ype:	All Files	▼
		Open Cancel

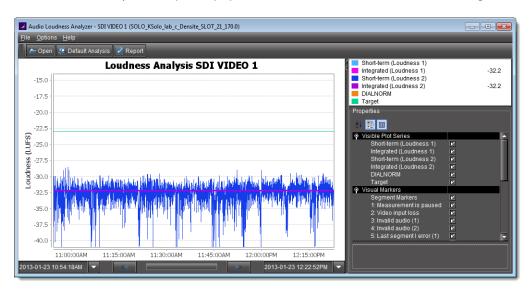
4. In the **Open Logs** window, in the **Audio Descriptor** list, select the desired loudness dataset to analyze.

**Note:** The dataset may contain one file or several files. The number of files in each dataset is indicated in parentheses.



- 5. Click **Open**.
- 6. In the **Open Logs** window, click **OK**.

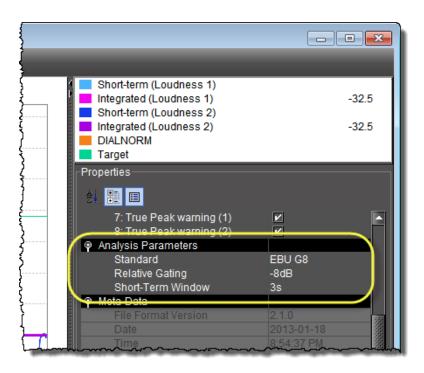
The Loudness Analysis data plot is populated with the loudness data from the log file.



# **Configuring Loudness Analysis Parameters**

There are three loudness analysis parameters you may configure:

- Loudness standard
- Relative gating
- Short-term window



### Configurable loudness analysis parameters

Parameter name	Description	Data set
Standard	<ul> <li>The program compliance loudness standard against which the loudness data will be measured.</li> <li>EBU G8 refers to the now-obsolete version of EBU-R128 recommending a gate value of -8LU. The currently recommended value is -10LU.</li> <li>A85 1770-1 leaves the threshold level up to broadcasters and recommends an anchor when available and a gate if necessary (used in USA, Canada).</li> <li>A85 1770-2 recommends a gate is ALWAYS enabled, having a threshold set to -10LU (used in the European Union).</li> <li>ARIB TR-B32 is based on A85 1770-2 with a recommended threshold of -24LKFS (absolute gate at -70LKFS, -10LU relative gate, 400ms sample blocks).</li> </ul>	<ul> <li>EBU G8</li> <li>EBU G10</li> <li>ARIB TR-B32</li> <li>A85 1770-1</li> <li>A85 1770-2</li> </ul>
Relative Gating	The concept of filtering out low volume sound by a configurable dB (LU) level below the absolute loudness calculation in order to prevent skewing a loudness calculation with very quiet sounds or silence.	<ul><li>-10dB</li><li>-8dB</li></ul>
Short-Term Window ^a	The <i>intermediate</i> length sliding time window.	<ul> <li>1s</li> <li>2s</li> <li>3s</li> <li>4s</li> <li>5s</li> <li>6s</li> <li>7s</li> <li>8s</li> <li>9s</li> <li>10s</li> </ul>

a. Once loudness data is plotted in Analyzer, you should expect for the Short-Term Window plot series not to begin until one cycle of its configured duration to have elapsed. This is due to there not being enough data before this point with which to produce a moving average.

**Note:** Changes you make to any analysis parameters are immediately applied to a new analysis.

### **Zooming into Loudness Analyzer's Data Plot**

After loading a loudness data file into **Loudness Analyzer**, the plot of the loudness data may not show, by default, the granularity of detail you might like to see at first. Additionally, the time period covered by the data may cover too large a time span.

You can effectively zoom into the data by specifying a subset time period within the initial graph, thereby increasing granularity and removing extraneous data.

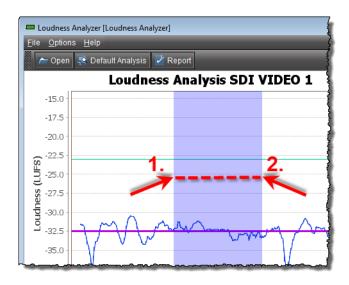
**Note:** You may choose to either configure analysis parameters before you zoom or after you zoom with the same end-effect. You will lose analysis parameter data **ONLY** when you click **Default Analysis**.

#### REQUIREMENT

Before beginning this procedure, make sure you have opened a loudness data file in **Loudness Analyzer** (see page 60).

#### To zoom into Loudness Analyzer's data plot

- 1. In Loudness Analyzer, do ONE of the following two sub-procedures:
  - a) On the data plot, use your mouse to click and hold on any point along the vertical line marking the desired beginning time of your zoom.
  - b) Drag the mouse to any point along the vertical line marking the desired end time of your zoom.
  - c) Release the mouse button.



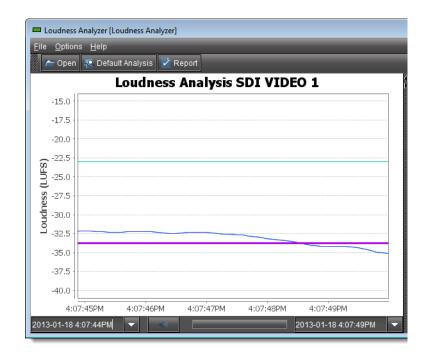
# OR,

a) On the bottom-left side of **Loudness Analyzer**, use the *Start-time* calendar to indicate the exact beginning date and time of your zoom.

			🗖 Lo	udness	Analyze	[Loudnes	s Analyzer]		
			<u>F</u> ile	<u>O</u> ption	s <u>H</u> elp				
				- Open	😨 De	fault Anal	ysis 🛃 F	Report	1
						Lou	dness	Analy	sis SDI
				-15.0					
				-17.5					
				-20.0					1
			ES)	-22.5					į
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Sun	Mon	Tue	Wed	Thu	Fri	2 Sat	1		
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27	28	29	30	31					
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							Т. Т		

b) On the bottom-right side of **Loudness Analyzer**, use the *End-time* calendar to indicate the exact end date and time of your zoom.

**Loudness Analyzer** reloads the data stream using the new time range demarked by the new start- and end-times.



2. Repeat step 1 if you must zoom into the data plot further.

### **Generating a Loudness Analysis Report**

**Loudness Analyzer** permits you to generate a report in PDF format. The report provides the data currently displayed in **Loudness Analyzer**, including the chart at its current scaling (zoom), as well as the parameters configured.

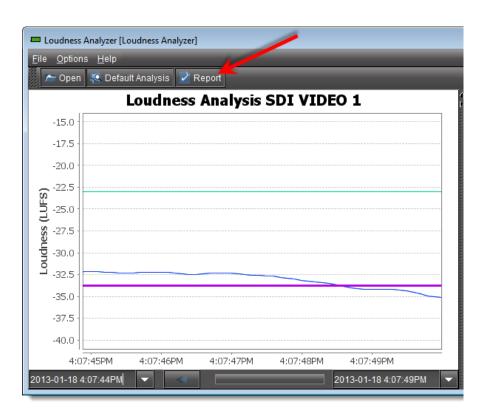
### REQUIREMENTS

Make sure you meet the following conditions before beginning this procedure:

- You have opened a loudness data file in Loudness Analyzer (see page 60).
- You have adjusted the scaling of **Loudness Analyzer**'s data plot to the desired level (see Zooming into Loudness Analyzer's Data Plot, on page 63).
- You have selected the plot series you would like to include in your report and selected the desired analysis parameters (see Configuring Loudness Analysis Parameters, on page 61).

### To generate a loudness analysis report

1. In Loudness Analyzer, click Report.

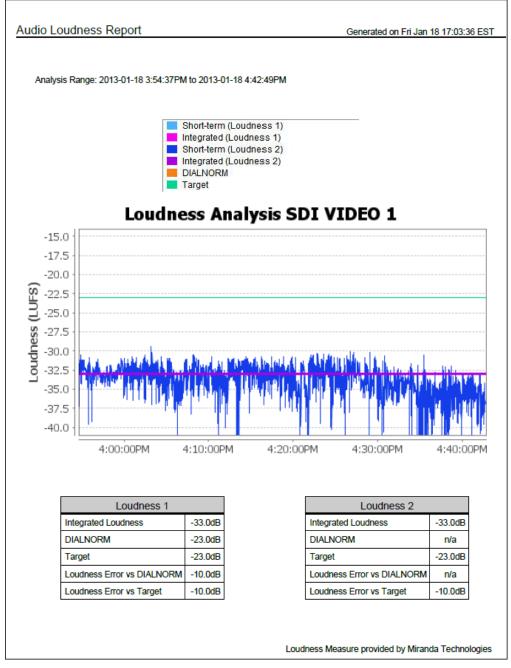


The **Save** window appears.

📟 Save	<b>×</b>
Save In: Documents	
Adobe Captivate Cached Projects	🗖 gegl-0.0
Adobe Scripts	🔲 Google Talk Received Files
Bluetooth Exchange Folder	🗖 Images
□ DB_1	🔲 My Adobe Captivate Projects
ePublisher Express Projects	📰 My Data Sources
🗖 ePublisher Stationery	🖿 My Google Gadgets
	•
File <u>N</u> ame:	
Files of Type: PDF documents (*.pdf)	▼
	Save Cancel

2. Save the PDF file to a local directory.

The PDF file contains all of the information currently in view in **Loudness Analyzer**.



Loudness analysis report (taken from the PDF output)

# Working with Densité Upgrade Manager

From time to time, improvements or fixes may become available that can be applied to an existing Densité card by upgrading its firmware and software. Firmware and software updates are available as a bundled package. To determine if an update package is available for a specific card, please contact *Grass Valley Technical Support* (see Contact Us, on page 83).

# **Opening Densité Upgrade Manager**

### REQUIREMENT

Before beginning this procedure, make sure the Densité frame housing the card whose upgrade package would like to change is visible in the **Densité Manager** of iControl Solo (see step 1 of Adding Densité Communicator Services on page 5).

### To open Densité Upgrade Manager

• In iControl Solo, on the Tools menu, click Densité Upgrade Manager.

Densité Upgrade Manager appears.

Navigation	Туре	Installed firmware	Installed package	Available package	Select /	Install progress	Package history	Rel. no
DAC-1721	DAC-1721	1.0.0	1.0.0-RC-6	· · · ·			E Current: 1.0.0-RC-6	74
HCO-1822	HCO-1822	1.0.9	1.0.0-RC-6	<b></b>			E Current: 1.0.0-RC-6	74
HCO-3901	HCO-3901	1.0.1	1.0.0-RC-6	<b>•</b>			🔳 Current: 1.0.0-RC-6	72
HMP-1801	HMP-1801	5.1.3	5.1.0-RC-6	<b>•</b>			E Current: 5.1.0-RC-6	71
HRS-1801	HRS-1801	1.2.4	1.2.0-RC-6				E Current: 1.2.0-RC-6	72
HRS-1801	HRS-1801	1.0.1	1.0.0-RC-6	<b></b>			Eurrent: 1.0.0-RC-6	71
SME-1901	SME-1901		1.0.0-RC-6	<b>•</b>			🔲 Current: 1.0.0-RC-6	72
SME-1901	SME-1901	1.0.1	1.0.0-RC-6	<b>•</b>			E Current: 1.0.0-RC-6	71
XVP-1801	XVP-1801	1.4.1	1.4.0-RC-6	· ·			E Current: 1.4.0-RC-6	74
Logical view	🚍 Physical view 🛛	Flat view						

# **Changing a Densité Card's Installed Package**

The package of a Densité card consists of a version of software and a version of firmware bundled together. You can upgrade your card's firmware and software simply by upgrading the installed package. Use iControl Solo's **Densité Upgrade Manager** to manage your card packages and Densité card upgrades.

### IMPORTANT: System behavior

Regardless of whether your installed package is upgraded, downgraded or rolled back, software always installs from a package stored on your local file system. If you use the **Upgrade** button, firmware installs *ONLY IF* it has a different version number (either newer or older) than the currently installed firmware.

If you would like to force your Densité card to install same-version firmware, use the *Force upgrade* functionality (see page 71).

### REQUIREMENTS

Make sure you meet the following conditions before beginning this procedure:

- You have opened Densité Upgrade Manager (see page 68).
- The Densité cards whose installed packages you would like to change are visible in **Densité Upgrade Manager**.
- The package you would like to install on your Densité card has already been uploaded (see Uploading a Densité Card Package, on page 75).

## To change a Densité card's installed package

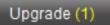
1. In **Densité Upgrade Manager**, verify if the package you would like to install on your Densité card is listed in the **Available package** column.

Navigation	Туре	Installed package	Available package
DAC-1721	DAC-1721	1.0.0-RC-6	
HCO-1822	HCO-1822	1.0.0-RC-6	
-HCO-3901	HCO-3901	1.0.0-RC-6	
-HMP-1801	HMP-1801	5.1.0-RC-6	
UDO 1001	UDO 1001	100 PC 6	1.1.0-RC-3
			100-RC-6

2. In the **Available package** column, in the row corresponding to the card to be upgraded or downgraded, select the package you would like to use.

In the row corresponding to each Densité card you are upgrading or downgrading, the following should occur:

- The **Select/Bypass** check box is selected.
- The **Upgrade** button bears the **(N)** suffix, where *N* indicates the number of cards selected for package installation.



- The selected package appears in the **Available package** column.
- The upgrade/downgrade paths of firmware, and package are displayed respectively in the **Installed firmware**, and **Installed package** columns.

1.0.0-RC-6 -> 1.1.0-RC-3

**Note:** The paths for firmware and software are displayed only if you have first manually made visible the **Installed firmware** and **Installed package** columns of **Densité Upgrade Manager** (see page 77).

Navigation	Туре	Installed package	Available package	Select / Byp	Install progress	Package history	Rel. no	
AC-1721	DAC-1721	1.0.0-RC-6				Current 1.0.0-RC-6	71	
ICO-1822	HCO-1822	1.0.0-RC-6				E Current: 1.0.0-RC-6	71	
ICO-3901	HCO-3901	1.0.0-RC-6 -> 1.1.0-RC-3	1.1.0-RC-3 🔷		0.0 %	E Current 1.0.0-RC-6	72	
MP-1801	HMP-1801	5.1.0-RC-6	-			E Current 5.1.0-RC-6	7	
RS-1801	HRS-1801	1.2.0-RC-6				E Current 1.2.0-RC-6	72	
RS-1801	HR9-1801	1.0.0-RC-6	-			Current: 1.0.0-RC-6	7	
ME-1901	SME-1901	1.0.0-RC-6				Current 1.0.0-RC-6	72	
ME-1901	/SME-1901	1.0.0-RC-6	-			E Current 1.0.0 RC-6	72	
/P-1801	🗸 XVP-1801	1.4.0-RC-6				E Current 1.4.0-RC-6	2	
Logical view	Physical view		rce upgrade (1) Cle	ear Uploa	d files			
1				_				
10	0-RC	6 -> 1.1.0-	PC-3	11	0-RC	-3		

Selected package with package upgrade path displayed

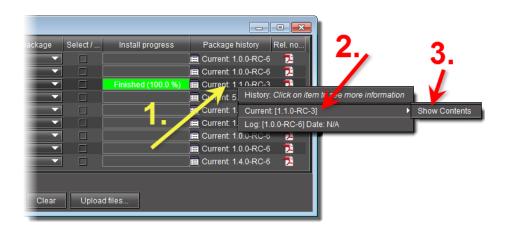


- 3. Click **Upgrade** (or in the rare situation detailed above, click **Force upgrade**). The **Upgrade confirmation** window appears.
- 4. Click Yes.

During the upgrade, a progress bar appears in the **Install progress** column and the card icon becomes yellow.

When the process is finished, the Upgrade Succeeded message appears.

- 5. If you would like to view a log of this upgrade session, click the cell at the intersection of the **Package history** column and the row corresponding to the Densité card whose installed package you just changed.
- 6. Point to **Current**, and then click **Show Contents**.



The last upgrade's status (the status of the currently installed package) is displayed on a *per component* basis.

**Forcing a Same-Version Firmware Installation onto a Densité Card** Perform this procedure **ONLY** in the rare situation that the card you would like to upgrade currently has a *Beta* version of firmware. If this is the case, using the **Upgrade** button will not upgrade the firmware to the full production version of firmware bearing the same official release number (even if **Densité Upgrade Manager** indicates both the package and software versions have been upgraded). Only the **Force upgrade** button successfully installs sameversion firmware.

**Note:** After performing a forced upgrade of firmware, executing a *rollback* operation will roll back the card to the pre-upgrade firmware even if the two versions carry the same version number. In effect, after a forced upgrade, by selecting a *Rollback* version (under **Available package**), you are in fact performing a *forced rollback* operation.

### REQUIREMENTS

Make sure you meet the following conditions before beginning this procedure:

- You have opened Densité Upgrade Manager (see page 68).
- The Densité cards whose firmware and software you would like to upgrade are visible in **Densité Upgrade Manager**.
- The package you would like to use to upgrade your Densité card has already been uploaded (see Uploading a Densité Card Package, on page 75).

### To force a same-version firmware installation onto a Densité card

1. In **Densité Upgrade Manager**, verify if the package you would like to install on your Densité card is visible in the **Available package** column.

**Note:** Grass Valley recommends displaying the **Installed firmware** column of **Densité Upgrade Manager** for this procedure. For steps on how to display this column, see Viewing a Densité Card's Installed Firmware Version, on page 77.

- 2. In the Available package column, select the desired package.
- 3. In the **Installed firmware** column, take note of the upgrade path.

If the displayed upgrade path indicates that the card is not moving to a different firmware version (for example, if the displayed upgrade path is 3.1.2 -> 3.1.2), then to override the firmware you must use the *Force upgrade* functionality. Otherwise, you may use the *Upgrade* functionality.¹

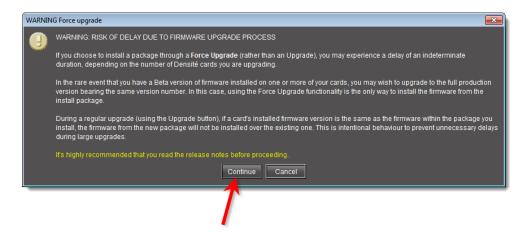
Densite Upgrade Man	ager [ca-rd-cchew	2_10.0.44.18\DensiteManager]										
Navigation	Туре	Installed package	Available package	Select /	Install progress	Package history	Rel. no					
DAC-1721	DAC-1721	1.0.0-RC-6	<b></b>			E Current: 1.0.0-RC-6	71					
-HCO-1822	HCO-1822	1.0.0-RC-6				E Current: 1.0.0-RC-6	71					
HCO-3901	HCO-3901 🏑	1.1.0-RC-2 -> 1.1.0-RC-3	1.1.0-RC-3		0.0 %	Eurrent: 1.0.0-RC-6	71					
HMP-1801	HMP-1801 🦯	5.1.0-RC-6				E Current: 5.1.0-RC-6	71					
HRS-1801	HRS-1801	1.2.0-RC-6				E Current: 1.2.0-RC-6	71					
HRS-1801	HRS-1801	1.0.0-RC-6	<b></b>			E Current: 1.0.0-RC-6	71					
-SME-1901	SME-1901	1.0.0-RC-6				E Current: 1.0.0-RC-6	2					
-SME-1901	SME-1901	1.0.0-RC-6	<b></b>			E Current: 1.0.0-RC-6	71					
-XVP-1801	<del>у</del> /Р-1801	1.4.0-RC-6	<b></b>			E Current: 1.4.0-RC-6	71					
Logical view Physical view Interview Upgrade (1) Force upgrade (1) Clear Upload files												
4		-2 -> 1.1		<b>,</b>	110	-RC-3	-					

4. Click Force upgrade.

A confirmation message appears.

5. Click Continue.

^{1.} The real-world situation in which you will find it necessary to override typical **Upgrade** button functionality (that is, to force an upgrade of same-version firmware from a selected package) would be if your installed firmware is a *Beta* version and the embedded firmware in the selected package is the production version of firmware bearing the same release number.



The upgrade proceeds.

When the upgrade operation is complete, a Finished message appears in the **Install progress** column.

Navigation	Туре	Installed package	Available package	Select /	Install progress	Package history	Rel. no.
DAC-1721	DAC-1721	1.0.0-RC-6	<b></b>			E Current: 1.0.0-RC-6	7
HCO-1822	HCO-1822	1.0.0-RC-6				📃 Current: 1.0.0-RC-6	72
HCO-3901	HCO-3901	1.1.0-RC-3	<b></b>		Finished (100.0 %)	📃 Current: 1.1.0-RC-3	7
HMP-1801	HMP-1801	5.1.0-RC-6	<b></b>			E Current: 5.1.0-RC-6	72
HRS-1801	HRS-1801	1.2.0-RC-6	<b></b>			🔳 Current: 1.2.0-RC-6	7
HRS-1801	HRS-1801	1.0.0-RC-6	<b></b>			📃 Current: 1.0.0-RC-6	71
SME-1901	SME-1901	1.0.0-RC-6	<b></b>			🔳 Current: 1.0.0-RC-6	72
SME-1901	SME-1901	1.0.0-RC-6	<b></b>			📃 Current: 1.0.0-RC-6	74
XVP-1801	XVP-1801	1.4.0-RC-6				E Current: 1.4.0-RC-6	72
Logical view	🚍 Physical view	Flat view					

## **Viewing Upgrade Logs**

### REQUIREMENT

Before beginning this procedure, make sure you have opened **Densité Upgrade Manager** (see page 68).

#### To view upgrade logs

- 1. In **Densité Upgrade Manager**, in the row corresponding to the card whose upgrade history you would like to view, click in the **Package history** column.
- 2. Click the upgrade log you wish to view.

Select /	Install progress	Package history Rel. no
		🖽 Current: 1.0.0-RC-6 🛛 🔁
		📺 Current: 1.0.0-RC-6 📃
	Finished (100.0 %)	E Current: 1.1.0 PC 2 -
		E Current: 5.1.0. History: Click on item to see more information
		E Current: 1.2.0- Current: [1.1.0-RC-3]
		🗮 Current: 1.000 Log: [1.0.0-RC-6] Date: March 3, 2014 3:00:00 PM EST
		🔳 Current: 1.0.0- Log: [1.1.0-RC-3] Date: March 3, 2014 2:32:34 PM EST
		🔳 Current: 1.0.0- Log: [1.0.0-RC-6] Date: March 3, 2014 1:18:42 PM EST
		🔳 Current: 1.4.0 Log: [1.1.0-RC-3] Date: March 3, 2014 1:11:45 PM EST
		Log: [1.0.0-RC-6] Date: March 3, 2014 1:06:09 PM EST
	_	Log: [1.1.0-RC-3] Date: March 3, 2014 12:48:55 PM EST
oad files		Log: [1.0.0-RC-6] Date: N/A

The selected log is displayed.

•	Upgrade Pa	Upgrade Package v1. ckage Version: 1.0. : HCO3901-service l	0-RC-6	1.0.0-RC-6	
Upgrad	ed Compon	ents			
Target	Upgraded	Firmware version	Software version	Supported firmware versions	Date
card	Yes	1.0.1	1.0.0-RC-6	1.0.0-RC-6	March 3, 2014 1:18:42 PM EST
				Close	

## Rolling Back a Card's Installed Package to the Pre-Upgrade Version

Perform this procedure if, after installing a package on a Densité card, you decide to restore both the firmware and software of the card to their respective pre-installation versions.

**Note:** In the case where you are rolling back a package installation resulting from a *Force upgrade* operation, the rollback operation effectively becomes a *Force rollback* operation. That is, even though the firmware currently installed and the firmware you are rolling back to bear the same version number, the rollback will proceed.

### REQUIREMENTS

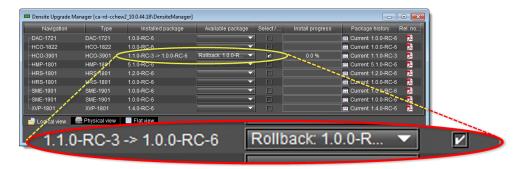
Make sure you meet the following conditions before beginning this procedure:

- You have opened **Densité Upgrade Manager** (see page 68).
- The Densité cards whose firmware and software you would like to downgrade are visible in **Densité Upgrade Manager**.
- The package you would like to use to downgrade your Densité card has already been uploaded (see Uploading a Densité Card Package, on page 75).

### To roll back a Densité card's installed package to the pre-upgrade version

1. In **Densité Upgrade Manager**, in the row corresponding to the card whose installed package you would like to roll back, select **Rollback <version #>** in the **Available package** column.

The **Select/Bypass** check box for that card is selected, indicating that this card will undergo a change in its installed package, and the rollback path is indicated in the **Installed package** column.



## 2. Click Upgrade.

The rollback operation begins. You can monitor the progress of the rollback with the progress bar in the **Install progress** column.

When the rollback operation is complete, the **Install progress** column displays a success message.

## **Uploading a Densité Card Package**

### REQUIREMENT

Before beginning this procedure, make sure you have access to the upgrade package file on your local file system. If you do not have the correct upgrade package, contact *Grass Valley Technical Support* (see Contact Us, on page 83).

### To upload an upgrade package

1. In Densité Upgrade Manager, click Upload files.

Navigation	Туре	Installed firmware	Installed package	Available package	Select /	Install progress	Packag
DAC-1721	DAC-1721	1.0.0	1.0.0-RC-6				E Current
HCO-1822	HCO-1822	1.0.9	1.0.0-RC-6				E Current
HCO-3901	HCO-3901	1.0.1	1.0.0-RC-6				E Current
HMP-1801	HMP-1801	5.1.3	5.1.0-RC-6				E Current
HRS-1801	HRS-1801	1.2.4	1.2.0-RC-6				🔳 Curren
HRS-1801	HRS-1801	1.0.1	1.0.0-RC-6				E Current
SME-1901	SME-1901	1.0.0	1.0.0-RC-6				E Current
SME-1901	SME-1901	1.0.1	1.0.0-RC-6			<u> </u>	E Current
M/D 4004	MID 4004		14000			SHOSHOSHOSHOSH	Current
🚽 Logical view	Physical view	Flat view					
Logical view							0

A file browsing window appears.

2. Navigate to the appropriate directory in your local file system, select the required upgrade package file, and then click **Open**.

**Note:** You may select more than one package file to upload at a time.

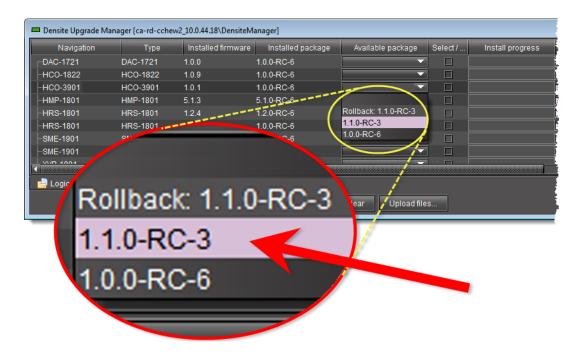
A message window appears, prompting you to start the upload process.

Progress      Transfer file(s)      HCO3901-service-1.1.0-RC-3-upgrade-package.zip Size: 1438 kb      To Hosts:      10.0.44.18
0%
Close Upload Replace file on hosts Clear log

3. Click Upload.

Progress - Done	×
Transfer file(s)	
HCO3901-service-1.1.0-RC-3-upgrade-package.zip Size: 1438 kb	
To Hosts:	
10.0.44.18	
100 %	
Mon Mar 03 10:25:39 EST 2014	
Contacting '10.0.44.18'	
Sending file 'HCO3901-service-1.1.0-RC-3-upgrade-package.zip' to host '10.0.44.18'	8888
File 'HCO3901-service-1.1.0-RC-3-upgrade-package.zip' sent to host '10.0.44.18' with	
success Operation finished	
Close Upload Replace file on hosts Clear log	

- 4. Click **Close** to close the window.
- 5. In the **Available package** column of **Densité Upgrade Manager**, verify that the new upgrade package is present.



**Note:** In order to see the newly uploaded package in the **Available package** column, you must make sure you are reading from a row corresponding to a Densité card compatible with the newly uploaded package firmware and software (i.e., if you uploaded an XVP-3901 package, check the available packages in a row corresponding to an XVP card).

## Viewing a Densité Card's Installed Firmware Version

You may decide to make the installed firmware version of your Densité cards visible in **Densité Upgrade Manager**. This may be desired, for example, if you would like to see more clearly if a package upgrade resulted in an installation of its firmware as well.

### REQUIREMENT

Before beginning this procedure, make sure you have opened **Densité Upgrade Manager** (see page 68).

### To view a card's firmware version

1. In **Densité Upgrade Manager**, right-click anywhere in the header row, point to **Add other columns**, and then select **Installed firmware**.

💻 Densite Upgrad	le Manager [ca-rd-cchew	2_10.33.10.1		
Navigatio	Remove "Navigation" (	column from vie	ew	
-ADX-7381	Add other columns		•	All
-AM -3981	AMX-398	-		Installed firmware
■MX-3981	AMX-3981	<del>2</del>	_	
■ EAP-3901	EAP-3101	<b>_</b>		
EAP-3901	EAP-3101			/ 2
FRS-1801	FRS-1801	2.0.0-RC		<b>J</b> .
FRS-1801	FRS-1801	2.0.0-RC		

2. Perform the action of step 1 again, this time selecting Installed package.

## **Opening GV Node Manager**

Along with the other elements that represent a GV Node frame in iControl, which typically include service panels for the IFM-2T fabric module, Frame Controller module, and Frame Reference modules, GV Node Manager is available from iControl Solo.

### REQUIREMENT

Before beginning this procedure, make sure You have added your GV Node frame to a Densité manager (see Adding GV Node Services, on page 13).

### To open GV Node Manager

1. In iControl Solo's *Logical view*, open the *Managers* folder, and then the *GV Node Manager* folder.

<u>F</u> ile <u>V</u> iew <u>T</u> ools <u>H</u> elp				
Label*	Туре	Frame	Slot	Com
🗉 🗁 Logical view				
🖻 🗁 Managers				
🖻 🗁 GV Node Manager				
GV Node Manager/CA-F	RD GV Node Manager			Located at CA-RD
- DensiteManager	Densite Manager			Located at CA-RD
	-SGeckoFlex Manager			Located at CA-RD
ImagingCommunicator	Serial Link Manager			
—— Loudness Analyzer	Loudness Analyzer			Loudness Analyze
Loudness Logger on CA-R	D-Loudness Logger			Located at CA-RD
—— Frame ControllerGVN1	GV Node Frame Controller	GVN1	19	Densite Frame Se
—— Frame Reference	Frame Reference	GVN1	18	HD/SD Frame Ret
— <b>—</b> KMX-4911	KMX-4911	GVN1	4	KMX-4911
- <b>E</b> KMX-4911	KMX-4911	GVN1	5	KMX-4911

Alternatively, locate your GV Node Manager in the *Physical*, or in the *Flat* view.

- 2. Double-click the GV Node Manager you would like to open.
  - The **GV Node Manager** window opens.

-	GV No	de Manager/CA-F	RD-SBOLDU	JC2/GVI	V1 [GV	Node Ma	nager]													- [	• 🗙
							nputs to Ir	nternal Fai	oric Modul	le			Outputs from Internal Fabric Module								
#	Card	Rear panel	Options	1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9
1	XIO-4901	XIO-4901-4SRP-D	None 🔻	Off 🔻	SDI 🔻	SDI 🔻	SDI 🔻	SDI 🔻	SDI 🔻	SDI 🔻	SDI 🔻	SDI 🔻	Off 🔻	SDI 🔻	SDI 🔻	SDI 🔻	SDI 🔻	SDI 🔻	SDI 🔻	SDI 🔻	SDI
2	Empty																				
3	Empty																				
4	KMX-4911	KMX-4911-38x4-4Q		SDI 🔻	SDI 🔻								SDI 💌	SDI 🔻	SDI 🔻	SDI 🔻	SDI 🔻	SDI 🔻	SDI 🔻	SDI 🔻	SDI
5	KMX-4911	KMX-4911-38x4-4Q		SDI 💌	SDI 🔻								SDI 💌	SDI 💌	SDI 💌	SDI 💌	SDI 💌	SDI 💌	SDI 💌	SDI 🔻	SDI
6	Empty																				
7	Empty																				
8	KMX-4911	Absent		SDI 💌	SDI 🔻								SDI 💌	SDI 💌	SDI 💌	SDI 💌	SDI 💌	SDI 💌	SDI 💌	SDI 💌	SDI
9	KMX-4911	Absent		SDI 🔻	SDI 🔻								SDI 🔻	SDI 🔻	SDI 🔻	SDI 🔻	SDI 🔻	SDI 🔻	SDI 🔻	SDI 🔻	SDI
10	Empty																				
11	Empty																				
12	Empty																				
13	Empty																				
14	Empty																				
15	KMX-4911	KMX-4911-38x4-4Q		SDI 💌	SDI 🔻								SDI 💌	SDI 🔻	SDI 🔻	SDI 🔻	SDI 🔻	SDI 💌	SDI 💌	SDI 🔻	SDI
16	KMX-4911	KMX-4911-38x4-4Q		SDI 🔻	SDI 🔻	•							SDI 👻	SDI 💌	SDI 👻	SDI 👻	SDI 👻	SDI 👻	SDI 🔻	SDI 🔻	SDI
1	IEM-2T	IFM-2T-RP		Total Input	s to Intern	al Fabric Mo	dule:	20					Total Outp	uts from Int	ernal Fabrie	Module:	62				



This appendix provides instructions on installing the IC-USB device.

# **Key Concepts**

# IC-USB

The IC-USB device is a USB-to-RS-422 converter. It is used to establish communication between your PC or laptop, and serial devices such as the Quartet 2 and Symphonie Grass Valley Imaging Series housing frames.

# **IC-USB** Driver

The IC-USB driver is automatically installed by Windows Update. When you first connect the IC-USB device to your PC or laptop, Windows will detect the new hardware, and download the appropriate (EdgePort) driver.

# **Detailed Directions**

# Connecting the IC-USB Device to a PC or Laptop

## To connect the converter to your PC or laptop

- 1. Plug the Type A (flat) connector end of the USB cable into the USB port located in the back of your PC.
- 2. Plug the Type B (square) end of the USB cable into the IC-USB device.

# Connecting the IC-USB Device to a Grass Valley Quartet 2 Frame

## To connect the converter to a Grass Valley Quartet 2 frame

- 1. Connect the IC-USB device's DE-9 connector to the supplied RJ-45-to-DE-9 female adapter.
- 2. Connect one end of the supplied Ethernet cable to the RJ-45-to-DE-9 female adapter, and the other end to one of the RJ-45 ports in the back of the Quartet 2 frame:

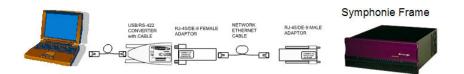


IC-USB connected to a Grass Valley Quartet 2 frame

# Connecting the IC-USB Device to a Grass Valley Symphonie Frame

## To connect the IC-USB to a Grass Valley Symphonie Frame

- 1. Connect IC-USB, RJ-45-to-DE-9 female adapter and Ethernet cable as described under Connecting the IC-USB Device to a Grass Valley Quartet 2 Frame, above.
- 2. Connect the RJ-45-to-DE-9 male adaptor to the Ethernet cable.
- 3. Connect the male adaptor to one of the RS-422 female DE-9 ports in the back of the Symphonie frame:



IC-USB connected to a Grass Valley Symphonie frame

## Determining the IC-USB COM Port Number

The IC-USB COM port number is required to configure the Grass Valley iControl Solo Imaging Communicator service.

## To determine the COM port number associated with IC-USB

- 1. On the **Start** menu, point to **Programs**, then to **Inside Out Networks**, and click **Edgeport Configuration Utility**.
- 2. Expand the Edgeport 1i line item from the **General** Tab. The COM port number is specified in brackets.

## Installing a Single Imaging Frame

Ensure that the frame is properly terminated (refer to the Installation Guide for your Quartet 2 or Symphonie frame).

# Installing Multiple Imaging Frames

A maximum of four Imaging frames (Quartet 2 and Symphonie) can be daisy-chained together. Each individual frame in the daisy chain requires a different serial identification assignment. The last frame in the chain must be terminated (refer to the Installation Guide for your Quartet 2 or Symphonie frame).



# Grass Valley Technical Support

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

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

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

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