

Dolby IMS3000

User's Manual

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This documentation applies to Model CID1002.

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Safety precautions

Warning

THIS DEVICE MUST BE GROUNDED.



Important

Power requirements for electrical equipment vary from area to area. Please ensure that the Dolby IMS3000 meets the power requirements in the surrounding area. If in doubt, consult a qualified electrician or a Dolby Laboratories, Inc., dealer.

Dolby IMS3000 power ratings

The Dolby IMS3000 maximum power consumption is up to 53 W when in playback at 400 Mbps and has three external Universal Serial Bus (USB). USB devices connected can draw 5 V/0.5 A from each USB port.

Dolby IMS3000 rackmount and thermal information

- Maximum operating ambient temperature is 40°C.
- Never restrict the airflow through the device fan or vents.

Protecting yourself and the Dolby IMS3000

Always disconnect the projector from the power supply by pulling on the plug, not the cord. Never touch the projector AC plug with wet hands.

In addition to voiding the warranty, unauthorized engineers may receive a serious electric shock when touching live internal parts. Use only a projector or authorized equipment from Dolby to supply power to the .

If water or any other liquid is spilled into or onto the Dolby IMS3000, disconnect the power and call a Dolby Laboratories, Inc., dealer. The unit must be well ventilated and be kept away from direct sunlight. To avoid damage to internal circuitry, as well as the external finish, keep the Dolby IMS3000 away from direct sources of heat (heater vents, stoves, radiators). Avoid using flammable aerosols near the Dolby IMS3000. They can damage the surface area and may ignite. Do not use denatured alcohol, paint thinner, or similar chemicals to clean the Dolby IMS3000. These can damage the unit.

Modification of this equipment is dangerous and can result in the impairment of the functions of the Dolby IMS3000. Never attempt to modify the equipment in any way. In order to ensure optimum performance of the Dolby IMS3000, select the setup location carefully and make sure the equipment is used properly. Avoid setting up the Dolby IMS3000 in the following locations:

- In a humid or dusty environment
- In a room with poor ventilation
- On a surface that is not level
- Inside a moving vehicle where it will be subject to vibration
- In an extremely hot or cold environment

Removable drives warning

Removal of the hot-swappable hard drives allows access to pins and traces supplying power to the hard drive back plane. This is considered an energy hazard. Removal of the hard drives must be performed by a trained service specialist or by trained personnel.

The equipment may be used only in a restricted access area that is not accessible to the general public.

Battery caution

The nonremovable battery is located on the Dolby IMS3000. Danger of explosion if battery is removed.

Warning

To prevent fire or shock hazard, do not expose this appliance to rain or moisture.

CAUTION

RISK OF ELECTRIC SHOCK. DO NOT OPEN.

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER (OR BACK).

NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightening flash with the arrowhead symbol superimposed across a graphical representation of a person, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Product end-of-life information



This product was designed and built by Dolby Laboratories to provide many years of service, and is backed by our commitment to provide high-quality support. When it eventually reaches the end of its serviceable life, it should be disposed of in accordance with local or national legislation. For current information please visit our website: http://www.dolby.com/environment

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1 Introduction to the Dolby IMS3000 User's Manual

This documentation provides the instructions for operating the Dolby IMS3000.

- Supporting documentation
- Contacting Dolby

1.1 Supporting documentation

Dolby provides a full set of documentation to support setting up and configuring the Dolby IMS3000 with Dolby Atmos audio.

- The *Dolby Atmos Designer User's Manual* provides instructions for configuring the theatre auditorium audio parameters and for generating a Dolby Atmos Designer (.dad) file.
- The *Dolby Multichannel Amplifier Manual* provides instructions for setting up the Dolby IMS3000 with a Dolby Multichannel Amplifier.
- The *Dolby Atmos Interface DAC3202 Manual* provides instructions for setting up a Dolby DAC3202.
- The *Dolby IMS3000 Installation Manual* provides instructions for installing and setting up the Dolby IMS3000.
- The *Dolby IMS3000 software bundle release notes* include information about software component versions and release notes.

1.2 Contacting Dolby

You can contact Dolby Cinema Solutions and Support using email or regional telephone numbers. You can also access documentation by visiting the Dolby customer portal.

Contact Dolby Cinema Solutions and Support

- Send an email to cinemasupport@dolby.com.
- Call:

Americas: +1-415-645-4900 Europe/Middle East/Africa (EMEA): +44-33-0808-7700 Asia-Pacific (APAC): +86-400-692-6780 Japan: +81-3-4540-6782

Access documentation

Visit www.dolbycustomer.com.

Submit feedback about this documentation

Send an email to documentation@dolby.com.

2 Dolby IMS3000 overview

The Dolby IMS3000 is a Digital Cinema Initiatives, LLC (DCI) compliant playback system that plays movies and other content. It is an all-in-one playback system that provides real-time internal audio rendering and video playback.

- Features and functions
- JPEG 2000 playback
- MPEG-2/H.264/VC-1 MXF Interop
- Video processing features
- Security
- Audio
- Alternative content
- Preloaded test content
- Input and output ports
- Environmental specifications for the Dolby IMS3000
- Storage and power specifications
- Ethernet
- eSATA
- USB ports
- Dolby IMS3000 web UI

2.1 Features and functions

The Dolby IMS3000 includes a user interface (UI) that allows you to configure and control audio and video settings, ingest content, ingest a Key Delivery Message (KDM), build a show playlist (SPL), and load an SPL for playback.

- Screen management system (SMS), integrated media block (IMB), and audio processor in a single device
- Integrated audio processor
 - Dolby Atmos capability unlocked via license
- HDMI input
- Web-based interface
- Support for accessibility products (Dolby Fidelio and Dolby CaptiView)
- Ingest through eSATA, USB 2.0 and 3.0, or Ethernet
- Live playback support (Ethernet stream, MPEG-2, H.264, and SMPTE 421M [VC-1] up to 50 Mbps)
- Scaler and deinterlacer included
- Provides General purpose input/output (GPIO): Four inputs and six outputs
- A Linear timecode (LTC) output port
- Has Serial digital interface (SDI) input ports that support these 3D mappings:
 - Dual stream

- Side by side
- Top/bottom

2.2 JPEG 2000 playback

The Dolby IMS3000 supports Joint Photographic Experts Group (JPEG) 2000 digital cinema package playback.

- 2K 2D playback up to 120 fps
- 2K 3D playback up to 60 fps (per eye)
- 4K 2D playback up to 60 fps (with compatible projector)
- Bit rates up to 500 Mbps
- DCI compliant
- 12-bit 4:4:4 X'Y'Z' in all formats

2.3 MPEG-2/H.264/VC-1 MXF Interop

The Dolby IMS3000 supports MPEG, H.264, VC-1 Material Exchange Format (MXF).

- 720p at 60 fps; 1080i, 1080p up to 30 fps
- Bit rates up 50 Mbps
- 4:2:0, 8 bits

2.4 Video processing features

The Dolby IMS3000 has color conversion support and a scaler that can upscale up to 4K.

- Color conversion support: YCbCr601, YCbCr709, Rec 709, X'Y'Z, YCxCz, and Rec 2020
- Scaler (upscale up to 4K)

2.5 Security

The Dolby IMS3000 supports Dolby forensic watermarking for audio and video. The Security Manager (SM) module of the Dolby IMS3000 is compliant with all 140-2 Security Level 2 requirements and some of the 140-2 Security Level 3 requirements, which is in compliance with DCI specifications.

2.6 Audio

The Dolby IMS3000 supports multiple audio formats.

- 16 channels, Advanced Encryption Standard (AES)/European Broadcasting Union (EBU), 24 bits up to 96 kHz
- AES67 support
- Dolby Atmos theatrical and consumer audio

There are no analog audio ports on the Dolby IMS3000.

2.7 Alternative content

The Dolby IMS3000 supports multiple types of alternative content.

- HDMI input
- Dual 3G SDI
- Live content (IP stream)
- Alternative content routing (using HDMI audio, SDI embedded audio, and live input)
- Decode Dolby audio formats

2.7.1 HDMI

The Dolby IMS3000 supports the HDMI format.

• Supports HDMI 2.0

Use HDMI for viewing alternative content (Blu-ray Disc player, game console, digital camera, or laptop).

• Supports High-bandwidth Digital Content Protection (HDCP) 2.2

Refer to the *Dolby IMS3000 Installation Manual* for a complete description of supported formats.

2.7.2 SDI-A and SDI-B

The Dolby IMS3000 supports SDI-A and SDI-B formats.

The connectors are in the form of high density BNC and provide 3G- support.

Refer to Dolby IMS3000 Installation Manual for complete formats.

2.8 Preloaded test content

This Dolby IMS3000 comes with preloaded test content to allow for testing before other content is received and loaded onto the server. It will also allow for troubleshooting if other content is suspected of issues.

2.9 Input and output ports

The Dolby IMS3000 supports several types of input and/or output ports.

- Three gigabit Ethernet ports (RJ-45)
- One eSATA 3 Gbps
- One USB 2.0 port
- Two USB 3.0 ports
- One HDMI input
- Two 3G-SDI bidirectional (input and output) ports
- Eight AES pairs (using two RJ45 connectors)

- One RJ45 port with four GPIs
- One RJ45 port with six GPOs
- One AUX AES port (RJ45) that allows for two AUX AES pairs in and two AUX AES pairs out
- Dolby Remote Fader port
- Supports console out via Mini Display Port

2.10 Environmental specifications for the Dolby IMS3000

The environmental specifications indicate required ambient temperature ranges for the Dolby IMS3000 while the server is operating or idle.

Temperature range (ambient):

- Operating: 5°C to 40°C (40°F to 104°F)
- Non-operating: -20°C to 60°C (-4°F to 140°F)
- Humidity: 20%-80% relative humidity (non-condensing)

2.11 Storage and power specifications

The Dolby IMS3000 storage options and power specifications are:

- Three 2.5-inch 1 TB hard disk drives (HDDs), providing approximately 2 TB of media storage.
- Three 2.5-inch 2 TB solid-state drives, providing approximately 3.6 TB of media storage.
- Four 3.5-inch 4 TB HDDs in an external network-attached storage (NAS) device. The NAS
 operates as the only storage for the Dolby IMS3000 and provides approximately 10.5 TB of
 media storage.
- Optional external NAS support for additional content storage (combined with internal storage).
- Software redundant array of independent disks (RAID) 5 storage.
- Battery: Panasonic vanadium rechargeable lithium battery (VL3032); not replaceable by user.
- Power <70 W (power input 12 V at 6.25 A from projector main connector).

2.12 Ethernet

The Dolby IMS3000 has three built-in gigabit connectors.

The ports are identified as ETHO, ETH1, ETH2.

2.13 eSATA

The Dolby IMS3000 supports eSATA.

The 3 Gbps eSATA port is used for ingesting content.

2.14 USB ports

The Dolby IMS3000 front panel has three USB ports that can accommodate an external USB device, such as the CaptiView Transmitter, or a USB external drive for content ingestion.

The Dolby IMS3000 supports USB 3.0 for ingesting content at much higher speeds than USB 2.0. In some situations, a USB 3.0 drive may be detected as USB 2.0. This prevents you from ingesting content at the highest speed possible. Make sure that you are using a good quality cable.

You can identify a USB 3.0 cable by looking at the connector ends. USB 3.0 cables have blue connectors.

If the cable is plugged into the Dolby IMS3000 slowly, the USB 2.0 pins are detected first and the drive is mounted using the slower 2.0 settings. If a prompt appears that says This device could perform faster, this indicates that the USB 3.0 drive was detected as USB 2.0. In such a case, try to re-seat the connection.

2.15 Dolby IMS3000 web UI

The Dolby IMS3000 includes a web UI that enables you to configure and control audio and video settings, ingest content, ingest a KDM, build a SPL, and load an SPL for playback.

3 Updating the Dolby IMS3000 software

Before you operate the Dolby IMS3000, we recommend that you update the Dolby IMS3000 with the latest software version.

- Software update overview
- Updating the Dolby IMS3000 using an external device
- Updating the Dolby IMS3000 using the Ingest Manager
- Updating the Dolby IMS3000 using FTP
- Accepting the Dolby IMS3000 license agreement

3.1 Software update overview

With previous products, several different components had to be updated separately. With the Dolby IMS3000, the firmware, software, and SM update all together in a single bundle.

The latest Dolby IMS3000 software package is available from the Dolby customer portal at www.dolbycustomer.com. If you need access, you can sign up on the site or you can contact your dealer.

3.2 Updating the Dolby IMS3000 using an external device

You can update the Dolby IMS3000 software using an external device.

Prerequisites

You have received the software package from Dolby.

Procedure

- 1. Load the software package onto an external device.
- 2. Insert the external device into a USB port on the Dolby IMS3000.
- 3. Click Ingest.
- 4. In the **Ingest Scan** window, from the **Select a Location** list, select **Local Storage**.
- 5. Select the software package.
- 6. Click Ingest.
- 7. Reboot the Dolby IMS3000 to apply the update.

Results

You are now ready to use the newly updated Dolby IMS3000 software.

3.3 Updating the Dolby IMS3000 using the Ingest Manager

You can update the Dolby IMS3000 software using the ingest manager.

Prerequisites

You have received the software package from Dolby.

Procedure

- 1. In the Dolby IMS3000 web UI **Status** window, click **Ingest**.
- 2. Click Upload.
- 3. Click Choose Files.
- 4. Click the software package.
- 5. Click Upload.
- 6. Reboot the Dolby IMS3000 to apply the update.

Results

You are now ready to use the newly updated Dolby IMS3000 software.

3.4 Updating the Dolby IMS3000 using FTP

You can update the Dolby IMS3000 software using File Transfer Protocol (FTP).

Prerequisites

You have received the software package from Dolby and have an FTP client application.

Procedure

- 1. Log in to the Dolby IMS3000 via an FTP client application using admin credentials.
- 2. Upload the software bundle to the directory /etc/rc.once/.
- 3. Reboot the Dolby IMS3000 to apply the update.

Results

You are now ready to use the newly updated Dolby IMS3000 software.

3.5 Accepting the Dolby IMS3000 license agreement

You must accept the license agreement in the Dolby IMS3000 web UI after initial setup and after a software update.

- 1. After you log in to the Dolby IMS3000 web UI, click **Setup & Maintenance**, click **System Settings**, and then click **License Agreement**.
- 2. Scroll down, read the license agreement, and then select **I have read and accept the terms of the software license agreement**.

Figure 1: License agreement

ents Configuration Networking Co

(i) * read the license and accept the terms by clicking the checkbox be

Ser License Ag End User Licens Inc., a Califor the "Software" present nes Agreement ("Agreement") is a legal agreement between you (either as an ind ornia Corporation, and Dolby International AB, a Swedish company residing in T ") embodied in the product ("Product"). BY USING THE PRODUCT AND THE SOFTWAR I D ISGALLY BIDD YOURSIII OR YOUR COMPANY, AS APPLICASE, AND (3) YOU CONSENT

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4 Setting up the Dolby IMS3000

Before you can operate the Dolby IMS3000, you need to setup and configure certain settings.

- Selecting a site language
- Logging in to the Dolby IMS3000
- Logging out of the Dolby IMS3000
- Setting the time and adding NTP
- Configuring the Cinelister playback settings
- Configuring the Live Manager feature

4.1 Selecting a site language

To localize the Dolby IMS3000 UI, you may select a language for your site.

- 1. Open your web browser and enter the IP address of the Dolby IMS3000 in the address bar.
- 2. Click Site Language.

English	
Español (Spanish)	
French (Français)	
🥌 Japanese (日本語)	
【●】 Korean (한국어)	
Portuguese (Português)	
Russian (Русский)	
Chinese (中文)	
Cancel	

Figure 2: Selecting a site language

3. From the language list, select a language.

4.2 Logging in to the Dolby IMS3000

You must log in to use the Dolby IMS3000.

Procedure

1. From the log-in window, enter your user name and password.

Figure 3: Log in window

DOLBY.
IMS3000 Username
Password
Site Language

2. Click Login.

The Dolby IMS3000 status window opens. The status window contains information about the Dolby IMS3000 and the cinema audio that is configured on the Dolby IMS3000.

- **Note:** The default usernames and passwords are:
 - Username: root, Password: veeone
 - Username: admin , Password: 1234
 - Username: manager, Password: password
 - Username: doremi, Password: doremi
 - Username: ingest, Password: ingest

The ingest user name is only used when ingesting content through FTP.

4.3 Logging out of the Dolby IMS3000

You can log out, restart, shut down, or set the Dolby IMS3000 to Standby mode.

- 1. From the menu panel, click on the power icon.
- 2. Click Logout, Reboot, Shutdown, or Standby.

Figure 4: Logging out								
IMS3000 - Power M	anagement		WebUI					
Standby	Reboot	Shutdown	Logout					
Cancel								

4.4 Setting the time and adding NTP

You can set the time and date on your Dolby IMS3000. The system real-time clock (RTC) can be adjusted up to six minutes annually to compensate for drift. If this six-minute allotment has been consumed, please contact the Dolby Cinema Solutions and Support team.

4.4.1 Setting the time

Set the date and time from the **System Settings** window.

- 1. Click Setup & Maintenance.
- 2. Click System Settings.
- 3. Click Date and Time.
- 4. In the **Date and Time** section, select a time format, and then click **Update**.
- 5. Select the hour, minute, and second intervals.
- 6. Select either **AM** or **PM**, and then click **Update**.
- 7. Select the time zone, and then click **Update**.

Figure 5: Setting the time		
Date and Time	Networking Configuration Power Management	
Date and Time		
Current Date:	Friday, 05 October 2018	
Current Time:	10:46:28 ^{am}	
Time Format:	12 Vpdate	
Secured Clock:	0s/360s	
Change time:	10 V : 45 V : 51 V AM V Upda	ate
Time Zone		
Time Zone:	America/Los_Angeles VDpdate	
UTC Offset:	-420 minutes	
Next DST change:	Sun Nov 4 01:59:59 2018 PDT	
NTP Servers		
⊕ Add		
Last Synchronization Date:	Never	
Last Synchronization Offset:	0 second	
Extra delay (seconds):		
Save		

4.4.2 Adding a Network Time Protocol server

You can add a Network Time Protocol (NTP) server.

About this task

This feature allows the Dolby IMS3000 to correct its possibly drifted time by syncing with a specified NTP server at every boot and every morning at 6:25 AM if the server is on.

- 1. Click Setup & Maintenance.
- 2. Click System Settings.
- 3. Click Date and Time.
- 4. Click Add in the NTP Servers section.
- 5. Enter the extra delay value (if needed) in Extra delay (seconds) .
- 6. Enter the IP address of the NTP server in the empty field below, and then click **Test**.
- 7. Click Save.

Figure 6: Adding an NTP server

NTP Servers	
⊕ Add	
Last Synchronization Date:	Never
Last Synchronization Offset:	0 second
Extra delay (seconds):	
Delete Test	
Save	

4.4.3 Configuring the network

You can configure the network on the Dolby IMS3000.

About this task

By default the Dolby IMS3000 comes with **ETH0** configured as 192.168.100.50.

- 1. Click Setup & Maintenance.
- 2. Click System Settings.
- 3. Click Network Configuration.
- 4. Enter the host name of the Dolby IMS3000.
- 5. Define the IP address, netmask, and gateway settings required for your installation. Dynamic Host Configuration Protocol (DHCP) is supported, but it is not recommended.
- 6. Click Save.

Figure 7: Configuring the network

Da	te and Time	Networkin	g Configuration	Power Management		Account Manager	
Networking	configuration						
Hostname:	IMS3000						
Properties of	f eth0:		Properties of eth1:		Properties of	eth2:	
🔲 Obtain an	IP address automatica	lly with DHCP.	🛃 Obtain an IP add	Iress automatically with DHCP.	🛃 Obtain an	IP address automaticall	y with DHCP.
IP address:	192.168.100.40		IP address:		IP address:		
Netmask:	255.255.255.0		Netmask:		Netmask:		
Gateway:			Gateway:		Gateway:		
Save	Revert						

4.5 Configuring the Cinelister playback settings

The Cinelister scheduler is used to schedule playback on the Dolby IMS3000. In the **Cinelister/Scheduler Config.** window, you can customize settings that could improve your specific use case.

4.5.1 Setting the seek increment values

In Cinelister, when playback is paused, you have the option to move forward or backward in the timecode of the content by clicking the forward or backward buttons. The amount of time change per click is customizable here.

- 1. Click Setup & Maintenance.
- 2. Click Playback Settings.
- 3. Enter a number of seconds to rewind or move forward per click.
- 4. Click Save.

Cinelister/Scheduler Config.	Live Manager	Streamlt Manager	l.				
Editor configuration							
Seek value (in seconds) when you cli	ick on Forward and Backward buttor	ns in Playback:	180 sec				
Seek value (in seconds) to subtract to the last timecode in case of emergency recover: 180 sec							
Scheduler configuration							
First day of the week of the schedule	er:		Monday	•			
Save Revert							

4.5.2 Setting the offset for playback resumption after abrupt shutdowns during playback

In the event of an abrupt shutdown during playback, the system notes the timecode at which the shutdown occurred. This is for the ability to reload the show from where it left off quickly once the system is back up.

Procedure

- 1. Click Setup & Maintenance.
- 2. Click Playback Settings.
- 3. Enter a number of seconds to rewind per click.
- 4. Click Save.

Figure 9: Cinelister scheduler settings

Cinelister/Scheduler Config.	Live Manager	StreamIt Manager		
Editor configuration				
Seek value (in seconds) when you clic	k on Forward and Backward butto	ons in Playback:		
Seek value (in seconds) to subtract to) the last timecode in case of emer	gency recover:	180 sec	
Scheduler configuration				
First day of the week of the scheduler			Monday	•
Save Revert				

4.5.3 Configuring the scheduler

The Cinelister Scheduler is used to schedule playback on the Dolby IMS3000. In the Scheduler Configuration you can graphically configure which will be the first day of the week.

Procedure

- 1. Click Setup & Maintenance.
- 2. Click Playback Settings.
- 3. Select the drop-down menu, and then select the day of the week for the scheduler to start from.
- 4. Click **Save**.

Figure 10: Configuring the scheduler

Scheduler configuration					
First day of the week of the scheduler:	Monday 🔻				
Save Revert					

4.6 Configuring the Live Manager feature

You can use the Live Manager to add a virtual device as a source of a live event. These virtual devices can be considered as an IP Stream, HDMI input, or SDI input. A live composition playlist (CPL) can be added to the SPL in Cinelister.

4.6.1 Configuring a new live CPL

You can create a new live CPL using Live Manager.

Procedure

- 1. Click Setup & Maintenance.
- 2. Click Playback Settings.
- 3. Click Live Manager.
- 4. Select the drop-down menu, and then select the device type.
- 5. Enter the content title.
- 6. Enter the IP of the live source device.
- 7. Enter the duration.
- 8. Click Create.

The live CPL appears in the **Live CPL** section.

Figure 11: Configuring a new live CPL

Create a new Live Composition			
Live source device type:	Dolby StreamIt 🔹		
Content title:	Dolby StreamIt		
Device IP:	Mediablock HDMI		
Duration:	Mediablock HD-SDI		
Create	,		

4.6.2 Deleting a live CPL

You can delete a live CPL from the **Content** menu.

Procedure

- 1. Click Content.
- 2. Select the CPL to delete.
- 3. Click Delete.
- 4. Click OK.

Figure 12: Deleting a live CPL

🔀 Refresh 🖌 Checks 🖆 Export 🕄 Copy	🗴 🛞 Delete 🔍 Search 🔲 Select all				
Name			Video & Audio	Duration	Size & Location
Test 3D_59.94_2048x858 9 0844128c-4ce7-454c-abd9-008f4514c42e		3D ST HIMMS	DPEG2000, 2048x858, @59.94 🕲 Unknown, ob, och	00:00:24	38.2 MB Ø Raid
Test 4k2D25_doremi_pattern_left			IPEG2000, 4096x2160, @25		433.15 MB @ Raid
Test 4k2D30_doremi_pattern_left % e8752f48-2bfd-4740-8a40-a8580c4b85b2			IPEG2000, 4096x2160, @30 🕅 Unknown, 0b, 0ch		383.57 MB ♥ Raid
Test 4k3D47_doremi_pattern 37e733e8-048c-4746-9598-5532tb1cd133		3D ST HIMMS	JPEG2000, 4096x2160, @47.95		358.83 MB Ø Ratd
Traller AntmanWasp_TLR-1-2D_F_EN- 4. c5255cc7-6792-41e5-ab6b-eb3115af1881	EN-CCAP_US-GB_51-HI-Atmos_2K_DI_20180126_DTB_SMPTE_OV		Г JPEG2000, 1998х1080, @24 Орсм, 24b, 16ch		1.98 GB © Raid

5 Dolby IMS3000 using QNAP networkattached storage as primary storage

The Dolby IMS3000 supports using a specific QNAP NAS device instead of internal hard drives. In this configuration, there will be no 2.5-inch hard drives in the Dolby IMS3000. The NAS will have four 4 TB, 3.5-inch drives, which provides approximately 10.5 TB of storage for the system.

Note: This procedure will work only with the NAS-Q1-HDD model. It does not work with other NAS devices.

The NAS-Q1-HDD must be purchased through Dolby. If purchased from another vendor, the device may not have software to support the Dolby IMS3000.

5.1 Configuring the main storage NAS on the Dolby IMS3000

The QNAP NAS comes with four 4 TB drives previously formatted to implement RAID 5. These instructions detail how to configure the Dolby IMS3000 to use the QNAP NAS as the main storage.

Prerequisites

Ensure that the Dolby IMS3000 is updated with the latest software release (software 3.3.x or greater).

Procedure

- 1. Open the Dolby IMS3000 web UI, and then log in.
- 2. Click Setup & Maintenance, then Device / Storage Configuration, and then Main Storage Manager.
- 3. Click External Storage, and then click Start Configuration.
- 4. Select the network port on the Dolby IMS3000 that is used to connect with the NAS, and then enter the QNAP admin password.

Default password credentials are:

- User name: admin
- Password: password
- 5. Click Continue.
- 6. Click **Save**, and then click **Save** once more.
- 7. Reboot the Dolby IMS3000.

6 Configuring the device manager

Use the Device Manager to configure the connection between the Dolby IMS3000 and several different devices, such as projectors, 3D systems, a subtitle engine, closed-caption systems, and raw devices.

- Adding a projector
- Adding a Dolby DFC100
- Adding an eCNA device
- Adding a JNior device
- Adding a raw device
- Adding a subtitle engine
- Deleting a device
- Editing a device
- Enabling Dolby Deghost
- Enabling RealD 3D EQ Deghost

6.1 Adding a projector

You can use the device manager to add a connection between the Dolby IMS3000 and a projector.

About this task

You must have SuperUser privileges to add and delete devices.

Procedure

- 1. Click Setup and Maintenance.
- 2. Click Device / Storage Configuration.
- 3. Click **Device Manager**, click **New**, and then select **Projector**.
- 4. From the **Projector model** list, select the model of the projector.
- 5. Enter the head IP address.
- 6. Select **Yes** to enable projector subtitles, or select **No** to disable projector subtitles.
- 7. Select **Yes** if this projector is used as the primary projector, or select **No** if this projector is not used as the primary projector.

If **No** is selected, then the projector is set as secondary. This is mainly used during a dualprojector setup.

8. Click Save.

Device Manager	Content Feed Manager		Main	Storage Manager
⊕ New ⊖ Delete				
Projector	Device Type: Pr	ojector	🗹 Er	nabled
	Identifier:	Projector		
	Projector model:	NEC	▼ Series-2	•
	DLP Head IP: Vendor IP:	10.10.10.10		Test
	Username:	Machine Pa	ssword:	
	Enable subtities:	🔵 Yes 💿 No		
	Primary projector:	🔾 Yes 🔵 No		

Figure 13: Adding a new projector

6.2 Adding a Dolby DFC100

You can use the device manager to add a connection between the Dolby IMS3000 and a Dolby DFC100 3D filter controller.

About this task

You must have SuperUser privileges to add and delete devices.

- 1. Click Setup and Maintenance.
- 2. Click **Device / Storage Configuration**.
- 3. Click **Device Manager**, click **New**, and then select **Dolby DFC100**.
- 4. Enter the name of the Dolby DFC100.
- 5. Enter the server IP address.
- 6. Select the matrices.
- 7. Click Save.

Device Manager	Conte	nt Feed Manager	м	ain Storage Manager
⊕ New ⊖ Delete				
Dolby DFC100	Device Type:	Dolby DFC100		Enabled
	Identifier:	Dolby DFC100		
	Server IP:	10.20.10.1		
	Matrices:			
	Upload Matrix:	Choose File No file o	hosen	Upload

Figure 14: Adding a Dolby DFC100

6.3 Adding an eCNA device

You can use the device manager to add a connection between the Dolby IMS3000 and an eCNA device.

About this task

You must have SuperUser privileges to add and delete devices.

- 1. Click Setup and Maintenance.
- 2. Click Device Management.
- 3. Click **Device Manager**, click **New**, and then select **eCNA**.
- 4. Enter the server IP address.
- 5. Click Save.

Device Manager	Content Feed Manager	Main Storage Manager
⊕ New ⊖ Delete		
Dolby DFC100 eCNA	Device Type: eCNA	Enabled
	Identifier: eCNA	
	Server IP:	

Figure 15: Adding an eCNA device

6.4 Adding a JNior device

You can use the device manager to add a connection between the Dolby IMS3000 and a JNior.

About this task

You must have SuperUser privileges to add and delete devices.

- 1. Click Setup and Maintenance.
- 2. Click Device / Storage Configuration.
- 3. Click **Device Manager**, click **New**, and then select **JNior**.
- 4. Enter the name of the JNior device.
- 5. Enter the server IP address of the JNior device.
- 6. Enter the port number of the JNior device.
- 7. Click Save.

Device Manager	Content Feed Manager		Main Storage Manager
⊕ New ⊖ Delete			
Dolby DFC100			
JNior	Device Ty	pe: JNior	🗹 Enabled
	Identifier:	JNior	
	Server IP:	10.201.1.1	
	Port:	9200	
	Username:	jnior	
	Password:		

Figure 16: Adding a /Nior device

8. Reboot the Dolby IMS3000 to apply the changes.

6.5 Adding a raw device

You can use the device manager to add a raw device.

About this task

Raw devices can be set up to send messages to a generic device that does not appear in the device list. You must have SuperUser privileges to add and delete devices.

- 1. Click Setup and Maintenance.
- 2. Click Device / Storage Configuration.
- 3. Click **Device Manager**, click **New**, and then select **Raw**.
- 4. Enter the name of the raw device.
- 5. Enter the name of the vendor.
- 6. Enter the product name.
- 7. Enter the device IP address, and then select the protocol.
- 8. Enter the port number.
- 9. Click Save.

Device Manager	Content Feed Manager		Main Storage Man	ager
⊕ New ⊖ Delete				
Dolby DFC100				
Raw	Device Type:	Raw	🗹 Enabled	
JNIOr	Identifier:	Raw		
	Vendor:	Unknown		
	Product Name:	Unknown		
	Device IP:	10.201.1.1		
	Protocol:	tcp	T	
	Port:	0		

Figure 17: Adding a raw device

6.6 Adding a subtitle engine

You can use the device manager to add a subtitle engine.

About this task

You must have SuperUser privileges to add and delete devices.

- 1. Click Setup and Maintenance.
- 2. Click **Device / Storage Configuration**.
- 3. Click **Device Manager**, click **New**, and then select **Subtitle Engine**.
- 4. Enter the name of the subtitle engine device.
- If necessary, select the check box to process possible closed-caption data as open caption (on screen) if no subtitle content is found.
- 5. Click Save.

Figure	18: Adding	the	subtitle	engine
--------	------------	-----	----------	--------

Device Manager	Content Feed Manager	Main Storage Manager
⊕ New		
Dolby DFC100		
Raw	Device Type: Subtitle Engine	🗹 Enabled
JNior		_
Subtitle Engine	Identifier: Subtitle Engine	
	Process closed caption data if no sub	otitle content is detected

6.7 Deleting a device

You can use the device manager to delete a device.

About this task

You must have SuperUser privileges to add and delete devices.

- 1. Click Setup and Maintenance.
- 2. Click Device / Storage Configuration.
- 3. Click **Device Manager**, and then select the device to delete.
- 4. Click **Delete**, and then click **OK** to confirm.
| Device Manager | Content Feed Manager | Main Storage Manager |
|-------------------------|----------------------|----------------------|
| • New O Delete | | |
| Projector Delete select | ed device | |
| JNior | Device Type: JNior | 🗹 Enabled |
| Dolby Deghost | Identifier: JNior | |
| | Server IP: | |
| | Port: 9200 | |
| | Username: jnior | |
| | Password: | |
| | | |
| | | |
| | | |

Figure 19: Deleting a device

6.8 Editing a device

You can use the Device Manager to edit a device.

About this task

You must have SuperUser privileges to add and delete devices.

- 1. Click Setup and Maintenance.
- 2. Click Device / Storage Configuration.
- 3. Click **Device Manager**, and then select the device to edit.
- 4. Select the device, and then edit the details.
- 5. Click **Save**.

Device Manager	Content Feed Manager			Main Storage Manager		
⊕ New ⊖ Delete						
Projector	Device Type: Pr	rojector		🕑 Ena	abled	
	Identifier:	Projector				
	Projector model:	NEC	▼ Ser	ies-2	•	
	DLP Head IP:	10.10.10.10			Test	
	Username:	Machine	Password:	••••••		
	Enable subtitles:	🔵 Yes 💿 No				
	Primary projector:	🗿 Yes 🔘 No				

Figure 20: Editing a device

6.9 Enabling Dolby Deghost

You can enable Dolby Deghost in **Device Manager**.

About this task

The Dolby Deghost feature is an algorithm that enhances 3D video by removing artifacts commonly referred to as "ghosting". You must have SuperUser privileges to add and delete devices.

- 1. Click Setup & Maintenance.
- 2. Click Device Management, and then click Device Manager.



Figure 21: Dolby IMS3000 device manager screen

3. Click New, and then enable the Dolby Deghost option.

Figure 22: Dolby IMS3000 device manager screen with Dolby Deghost

DOLBY. IMS3000 - 199000	Screen: Tonys-INS3-Rev Monitor Output: Mix (L, C, R) User Level: root / Administra Time: 2:14 pm	1-000088 stor				Fader 7.0	Mute	
0 0 & 🏲	Device Manager	Content Feed Manager	Main Storage Manager	Additional Storage Manager				
	⊕ New							
📇 Cinelister	Dolby Deghost	Device Type: Dolby Deghost						
👀 Content		Identifier: Dolby Deghost						
🛓 Ingest								
P Macros								
Device Controller								
Diagnostics								
🗯 Setup & Maintenance								
Device / Storage Configu Maintenance								
Playback Settings								
System Events Manager System Settings								
Tools / Add-Ons								
	Save Revert							

- 4. Click Save.
- 5. Reboot the Dolby IMS3000.

The Dolby IMS3000 automatically performs a ghostbusting correction for 3D playback.

Note: By default when adding the Dolby Deghost option the Value parameter is set to -0.01. We recommend using -0.01 for Dolby 3D system and to use -0.02 for polarization systems like RealD, Masterimage, etc.

6.10 Enabling RealD 3D EQ Deghost

You can enable the RealD 3D EQ Deghost in **Device Manager**.

About this task

RealD 3D EQ is an algorithm developed by RealD Inc. which enhances 3D video by removing artifacts commonly referred to as "ghosting". You must have SuperUser privileges to add and delete devices.

Procedure

- 1. Click Setup & Maintenance.
- 2. Click **Device / Storage Configuration**, and then click **Device Manager**.

Figure 23: Dolby IMS3000 device manager screen



3. Click **New**, and then enable the RealD 3D EQ option.

Figure 24: Dolby device manager screen with RealD 3D EQ

	onitor Output: Mix (L, C, R) 🔧	-00088	Fader	Mute	
IMS3000 199000 Tim	ter Level: admin / SuperUse		7.2 🗘	۰	
				ļ	. R C LFE Las Ras Les Res Lts Res
		Content Feed Manager Main Storage Manager Additional Storage Manager			
C Status					
Rea Electronic Cinelister	ealD 3D EQ	Device Type: RealD 3D EQ 😰 Enabled			
D Content		identifier: RealD 3D ED			
±_ Ingest					
		uproad LUT: Choose File No file chosen Upload			
o Macros					
E Device Controller					
₩ Diagnostics					
😎 Setup & Maintenance					
Device / Storage Configu					
Maintenance					
Playback Settings System Events Manager					
System Settings					
Tools / Add-Ons					
	Save Revert				

- 4. Click **Save**.
- 5. Reboot the Dolby IMS3000.

7 Configuring the content feed manager

You can use the Content Feed Manager to network the Dolby IMS3000 to other servers. This is useful for ingesting content from other compatible servers.

- Scanning network for content
- Manually adding a new content feed source
- Deleting a content feed source
- Editing a content feed source

7.1 Scanning network for content

You can scan the network for supported servers and add them to Content Feed Manager network map.

Prerequisites

Scan Network allows you to scan the network for supported servers and add them to the Content Feed Manager network map. Once the server has been added and saved to the **Content Feed Manager** it will appear as an ingestable source in the **Ingest Scan** window.

Ensure that there are compatible servers (Doremi or Dolby) available on the same network as the Dolby IMS3000.

Procedure

- 1. Click Setup & Maintenance.
- 2. Click Device Management, and then click Content Feed Manager.

Figure 25: Dolby IMS3000 content feed manager screen



3. Click Auto discovery.

A pop-up list appears with supported servers available on the network.

4. From the **Auto Discovery** window, select the server.

The selected server appears in the Content Feed Manager network map list.

iyui	-igure 26: Dolby IM53000 auto discovery window								
Auto	o Discovery								
•	DCP2000								
►	IMS1000								
•	IMS2000								
•	IMS3000								
	Hostname	IP Address	Version	Serial Number					
	EShan8GBIMS3	10.209.1.43	3.1.13-0	199000					
	Kambei	10.209.1.181	3.2.21-0	199000					
	BeethovenRev4TK	10.209.1.202	3.2.21-0	360372	+				
	ChristielMS3CR1-	10 200 1 100	21120	100000					
		10.209.1.198	3.1.13-0	199000					
	IMS3-CTP2	10.209.1.46	3.1.11-0	360048					
	IMS3000	10.209.1.174	3.2.21-0	360801					
		10.209.1.85	3.1.13-0	360300					
	Zee-IMS3000	10.209.1.185	3.2.21-0	199000					
	IM53000-Rev4	10.209.1.187	3.1.13-0	199000					
•	NP-90MS02								
Þ	NP4000								
Þ	RAPID								
•	ShowVault								

11 **_;**, IMEROOO .. .

5. Click **Save**.

ь тмs

Close

DOLBY. IMS3000 - 199000	Screen: Tonys-IMS3-Rev4 Monitor Output: Mix (L, C, R) User Level: root / Administra Time: 2:18 pm	1-000088 Itor				Fader Hute 7.0 *
	Device Manager		eed Manager Main Storage Manag	er Additional Storage Mana	ger	
🖵 Status	💿 New 🚯 Auto Discover	🕞 Delete				
St. Cinalistor	BeethovenRev4TK					
			FTP	•		
± Ingest			10.209.1.202	Test		
		Username:	manager			
Cinema Audio		Remote Path:				
• Macros						
E Device Controller		Advanced option:				
Uiagnostics						
Log Viewer						
Setup & Maintenance						
Maintenance						
Playback Settings						
System Settings						
Tools / Add-Ons						
	Save Revert					

Figure 27: Dolby IMS3000 content feed manager with content feed

7.2 Manually adding a new content feed source

You can use the Content Feed Manager to add a new content feed source.

- 1. Click Setup and Maintenance.
- 2. Click Device / Storage Configuration.
- 3. Click Content Feed Manager.
- 4. Enter the name of the source.
- 5. Click on the **Ingest Protocol** drop-down menu, and then select the ingest protocol.
- 6. Enter the server IP.
- 7. Enter the user name and password associated with the feed source you are connecting to.
- 8. Enter the remote path, if you have a specific folder you want to retrieve content from.
- 9. Click **Test** to verify that the Dolby IMS3000 can communicate with the server.
- 10. Click Save.

Device Manager	Content F	eed Manager	Main Storage Manager		Additional Storage Manager
⊕ New Auto Discover (∋ Delete				
New Server 1	Identifier:	New Server 1			
	Ingest Protocol:	FTP		۲	
	Server IP:	0.0.0.0			Test
	Username:	manager			
	Password:	••••••			
	Remote Path:				
	Advanced options				

Figure 28: Adding a new content feed source

7.3 Deleting a content feed source

You can use the Content Feed Manager to delete a content feed source.

- 1. Click Setup and Maintenance.
- 2. Click Device / Storage Configuration.
- 3. Click Content Feed Manager.
- 4. Select the content feed source to delete.
- 5. Click Delete.
- 6. Click Save.

Device Manager	Content F	eed Manager	Main Storage Manager		Additional Storage Manager
⊕ New 🚯 Auto Discover 🤆) Delete				
New Server 1	ldentifier: Ingest Protocol: Server IP: Username:	New Server 1 FTP 0.0.0.0 manager		•	Test
	Password: Remote Path: Advanced option:	 \$			

Figure 29: Deleting a content feed source

7.4 Editing a content feed source

You can use the Content Feed Manager to edit a content feed source.

Procedure

- 1. Click Setup and Maintenance.
- 2. Click Device / Storage Configuration.
- 3. Click Content Feed Manager.
- 4. Select the feed to edit, and then edit the details of the source.
- 5. Click Save.

Figure 30: Editing a content feed source

Device Manager	Content Feed Manager		Main Storage Manager	Addition	al Storage Manager
⊕ New S Auto Discover ⊖	Delete				
New Server 1	Identifier:	New Server 1			
	Ingest Protocol:	FTP		•	
	Server IP:	0.0.0.0		Test	
	Username:	manager			
	Password:	••••••			
	Remote Path:				
	Advanced option:	s			

8 Configuring a secondary NAS device as additional storage for a Dolby IMS3000 with internal drives

An external NAS device can be connected to a Dolby IMS3000 that has internal hard drives. The functions of the system remain the same, but this allows you to have additional hard-disk space. The Dolby IMS3000 can also ingest and play from the NAS device.

- Adding an NAS device
- Deleting a NAS device
- Editing a NAS device

8.1 Adding an NAS device

You can use the NAS manager to add additional NAS devices.

- 1. Click Setup and Maintenance.
- 2. Click **Device / Storage Configuration**.
- 3. Click Additional Storage Manager.
- 4. Click **New**, and then verify that the **Enabled** check box is marked.
- 5. Enter the annotation text.
- 6. Enter the vendor of the NAS device, and then enter the model of the NAS device.
- 7. Enter the directory, and then select the file system type.
- 8. Select the permissions, and then enter the mount options.
- 9. Enter the Simple Network Management Protocol (SNMP).
- 10. Click Save.

Device Manager	Content Feed Mar	nager	Main Storage Manager	Additional Storage Manager
⊕ New ⊖ Delete				
nas1	nas1			
nas2	Annotation Text:		💽 Enabled	
	Vendor: Model:	NetGear ReadyNas 2120	*	
	IP Address: Directory:			
	File System Type: Permission:	NFS Read only	Read/Write	
	SNMP Community:	public		

Figure 31: Adding an additional NAS device

8.2 Deleting a NAS device

You can use the NAS Manager to delete an NAS device.

- 1. Click Setup and Maintenance.
- 2. Click **Device / Storage Configuration**.
- 3. Click Additional Storage Manager.
- 4. Select the NAS device to edit, and then edit the information.
- 5. Click Save.

Device Manager	Content Feed Mar	nager	Main Storage Manager	Additional Storage Manager
① New ② Delete				
nas1 Delete select	ed device			
nas2				
			🗹 Enabled	
	Annotation Text:			
		_		
	vendor:	NetGear	*	
	Model:	ReadyNas 2120	•	
	IP Address:			
	Directory:			
	File System Type:	NFS	•	
	Permission:	Read only	Read/Write	
	Mount Options:			
	SNMP Community:	public		

8.3 Editing a NAS device

You can use the NAS Manager to edit the properties of a NAS device.

- 1. Click Setup and Maintenance.
- 2. Click Device / Storage Configuration.
- 3. Click Additional Storage Manager.
- 4. Select the NAS device to edit, and then edit the information.
- 5. Click **Save**.

Figure 3	3: Editing	a NAS	device
----------	------------	-------	--------

Device Manager	Content Feed Mar	nager	Main Storage Manager	Additional Storage Manager
⊕ New				
nas1	nas1			
nas2	Annotation Text:		Enabled	
	Vendor:	NetGear	•	
	Model:	ReadyNas 2120	*	
	IP Address:			
	Directory:			
	File System Type:	NFS	•	
	Permission:	Read only	Read/Write	
	Mount Options:			
	SNMP Community:	public		

9 Working with macros on the Dolby IMS3000

The macros feature allows you to create automation cues and trigger cues. The macros feature also includes the Execute Now function, which allows you to execute a saved automation cue with a single click.

- Using the execute now function
- Using the automation cue
- Using the trigger cue tab
- Using the quick controls tab

9.1 Using the execute now function

You can use the Execute Now function to execute saved automation cues.

About this task

You need SuperUser privileges to complete the operations described in this chapter.

Procedure

- 1. Click Macros.
- 2. Click Execute Now.
- 3. Select a macro to execute from the list.

Figure 34: Execute now function

Execute Now	Automation Cue	Trigger Cue	Quick Controls
C Refresh			
Execute a saved automation	cue macro in one single click.		
Macro List			
Fade in			
Fade out			
Lamp off			
Lamp on			
Open dowser			

9.2 Using the automation cue

You can create a new automation cue, which allows you to send a command from your Dolby IMS3000 to any external device connected to the Dolby IMS3000. An automation cue can also be used manually with the Execute now function or be used within an SPL.

9.2.1 Creating a new automation cue

You can use the Automation Cue tab to create a new automation cue.

About this task

You need SuperUser privileges to complete the operations described in this chapter.

Procedure

- 1. Click Macros.
- 2. Click Automation Cue.

Figure 35: Automation cue window

Execute Now	Automation Cue	Trigger Cue	Quick Controls
⊕ New ⊖ Delete ☐ Settings			
Macro	Macro Config	uration	
Fade in Fade out	Select an actio		▼ Insert
Lamp off	Actions		
Lamp on Open dowser			

- 3. Click New.
- Enter the name of the macro, and then enter any necessary comments.
 You can select a macro to copy from the **Copy from** menu.

Figure 36: New automation cue

Macro Settings		
Name of the Macro:	New Macro	
Comments:		
Copy from:	T	
Ok	Cancel	

- 5. Click **Ok**.
- 6. Click on the **Action to insert** drop-down menu, and then select the action to insert.
- 7. Click **Insert**, and then select the function of the macro.
- 8. Click Save.

Execute Now	Automation Cue	Trigger Cue
⊕ New ⊖ Delete Settings		
Macro	Macro Configu	uration
Fade in	Select an actio	on to insert 🔹
Lamp off	Actions	
Lamp on Open dowser		
Savo Povort		
Save Revert		

Figure 37: Automation cues added

9.2.2 Deleting an automation cue

You can use the **Automation Cue** tab to delete an automation cue.

- 1. Click Macros.
- 2. Click Automation Cue.
- 3. Select the macro to delete.
- 4. Click Delete.

Execute Now Autom	nation Cue	Trigger Cue
⊕ New ⊖ Delete Settings		
Macro	Macro Configu	ration
Fade in	Select an action	n to insert
Fade out		
Lamp off	Actions	
Open dowser		
Save Revert		

Figure 38: Deleting an automation cue

9.2.3 Editing an automation cue

You can use the **Automation Cue** tab to edit available automation cues.

Procedure

- 1. Click Macros.
- 2. Click Automation Cue.
- 3. Double-click on the macro to edit the action.
- 4. Click **Settings**, and then edit the information.
- 5. Click **Save**.

9.3 Using the trigger cue tab

You can create new and delete existing trigger cues in the **Trigger Cue** tab. Trigger cues allow you to link incoming signals or commands with desired actions to be executed by the Dolby IMS3000.

9.3.1 Creating a new trigger cue

You can use the **Trigger Cue** tab to create new trigger cues on the Dolby IMS3000.

About this task

You need SuperUser privileges to complete the operations described in this chapter.

Procedure

- 1. Click Macros.
- 2. Click Trigger Cue.

Figure 39: Trigger cue window

Execute Now	Automation Cue	Trigger Cue	Quick Controls	
🕒 New 🕞 Delete 📄 Settings				
Trigger	Trigg e r Configu	uration		
	Connect to an e	event	▼ Add	
	Actions			

3. Click New.

Figure 40: Naming a new trigger

Trigger Settings		
Name of the Trigger:	New Trigger	
Comments:		
Copy from:	•	
Ok	Cancel	

- Enter the name of the trigger, and then enter any necessary comments.
 You can select a macro to copy from the **Copy from** menu.
- 5. Click **Ok**.

Figure 41: Selecting a trigger configuration

Execute Now	Automation Cue	Trigger Cue	Quick Controls
⊕ New ⊖ Delete Settings			
Trigger	Trigg e r Config	uration	
New Trigger	Connect to an	event	▼ Add
	A Connect to an	event	
	General Purpo	se Input	
	Signal		

6. Select from **General Purpose Input** or **Signal**, and then click **Add**.

Adding a general purpose input trigger

You can use the Trigger Cue tab to add a general-purpose input (GPI) trigger.

- 1. Select the general purpose input.
- 2. Click Add.
- 3. Click Line number, and then select the line number.
- 4. Click **Value**, and then select the value.
- 5. Click Ok.

Figure	42: Addina	a general	' purpose	input
			<i>p</i> = <i>p</i> = = = =	

General Purpose Input			
Line Number:	0	T	
Value:	OFF	•	
Ok	Cancel		

6. Click **Save**.

Adding a signal trigger

You can use the **Trigger Cue** tab to add a signal trigger.

Procedure

- 1. Click Signal.
- 2. Click Add.
- 3. Enter the name for the trigger.
- 4. Enable the **Select from list** option if you have a signal setup, and then select the driver and signal.
- 5. Click Ok.

Figure 43: Adding a signal trigger

Signal Setup							
Source de	vice name:						
Any		•					
Signal nan							
	lie.						
Select	from list.						
Driver:	Certainty						
Signal:							
Ok	Cancel						

6. Click Save.

9.3.2 Deleting a trigger cue

You can use the **Trigger Cue** tab to delete a trigger cue.

Procedure

- 1. Click Macros.
- 2. Click Trigger Cue.
- 3. Select the trigger cue to delete.
- 4. Click Delete.

Figure 44: Deleting a trigger

Execute Now	Automation Cue	Trigger Cue	Quick Controls
⊕ New ⊖ Delete Settings			
Trigg e r	Trigg e r Config	uration	
GPI New Trigger	Connect to an	event	▼ Add
Signal	Actions		

5. Click Save.

9.3.3 Editing a trigger cue

You can use the **Trigger Cue** tab to edit a trigger cue.

Procedure

- 1. Click Macros.
- 2. Click Trigger Cue.
- 3. Select the trigger cue to edit.
- 4. Click **Settings**, and then edit the information.
- 5. Click **Save**.

9.4 Using the quick controls tab

The **Quick Controls** tab allows for quick access to most commonly used macros.

9.4.1 Creating quick controls

You can organize quick controls by grouping similar actions in designated sections.

About this task

You need SuperUser privileges to complete the operations described in this chapter.

Procedure

- 1. Click Macros.
- 2. Click Quick Controls.
- 3. Click New Section.
- 4. Drag and drop the automation cues to the new section.
- 5. Click Save.

Figure 45: Creating quick controls

Execute Now	Automation Cue	Trigger Cue	Quick Controls			
⊕ New Section						
Drag the Macro from the list on the left and drop it to the section of your choice.						
<u>Q</u>	Dowser funtions					
Fade in	Open dowser	Close dowser				
Lamp off	Fading					
Lamp on	Fade in	Fade out				
open dowser	Lights					
	Lamp on	Lamp off				
Save Revert						

9.4.2 Deleting quick controls

You can use the **Quick Controls** tab to edit the available quick controls.

- 1. Click Macros.
- 2. Click Quick Controls.
- 3. Hover over the section, and then click ${\bf X}$ to delete the section.

Figure 46: Deleting quick controls

Dowser funtions		+ 🖷 🗙
Open dowser	Close dowser	
Fading		
Fade in	Fade out	
Lights		
Lamp on	Lamp off	

4. Click Save.

9.4.3 Editing quick controls

You can use the **Quick Controls** tab to edit the available quick controls.

- 1. Click Macros.
- 2. Click Quick Controls.
- 3. Click New Section.
- 4. Click on the **X** to delete the quick controls, or click **Rename this section** or **Reorder this section** to rename or reorder the sections.

10 Ingesting content into the Dolby IMS3000

The ingest feature enables you to ingest, monitor the ingest progress, and upload system files to the Dolby IMS3000. You also have the ability to play content while using the ingest function.

- Ingesting content onto the Dolby IMS3000
- Using the ingest monitor feature
- Uploading content to the Dolby IMS3000
- Using quick ingest
- Ingesting content to the Dolby IMS3000 while offline

10.1 Ingesting content onto the Dolby IMS3000

You can ingest content on the Dolby IMS3000 using the Ingest function.

About this task

You need SuperUser privileges to complete the operations described in this chapter. The ingest scan function allows you to scan local and external devices for content, KDMs, and licenses for ingesting into the Dolby IMS3000.

Procedure

- 1. Click Ingest.
- 2. Click on the **Select a Location** drop-down menu to search for specific content.
- 3. Click on the item to ingest, or click the **Select all** check box to select all content available on the ingest source.

You can hide content that has been ingested by clicking Hide ingested content.

4. Click Ingest.

Figure 47: Scanning content



10.2 Using the ingest monitor feature

You can monitor the ingest progress using the Ingest Monitor feature.

About this task

You need SuperUser privileges to complete the operations described in this chapter. The ingest monitor feature allows you to view the ingest progress for past and current ingest jobs. You can also pause, cancel, delete, and resume the ingest process from the **Ingest Monitor** window.

Procedure

- 1. Click Ingest.
- 2. Click Ingest Monitor.

The status of ingest jobs are displayed.

- 3. Select an operation to control the ingest process.
 - a) Click **Refresh** to refresh the list of ingesting content.
 - b) Click **Delete** to delete the selected content.
 - c) Click **Pause** to pause the ingest process on the selected content.
 - d) Click **Resume** to resume the ingest process on the selected content.
 - e) Click Cancel to cancel the ingest process on the selected content.
 - f) Click the **Select all** check box to select all. This will include past and in-progress ingest jobs, along with those waiting in the queue to begin.

Figure 48: Ingest monitor window



10.3 Uploading content to the Dolby IMS3000

You can upload content to the Dolby IMS3000 using the upload function.

About this task

You need SuperUser privileges to complete the operations described in this chapter. The upload feature allows you to ingest KDMs and licenses, and update bundle files to the Dolby IMS3000.

Procedure

- 1. Click Ingest.
- 2. Click Upload.
- 3. Click Choose Files.
- 4. Select the file you want to upload.
- 5. Click Upload.

Figure 49: Uploading content

Ingest	Scan	Ingest Monitor		Export Monitor	Upload
You can u Use the C A system	pload packages to upgr hoose Files button to se reboot might be necess	ade the product or to instal lect a file to upload to your ary to complete packages i	l additional fi Dolby IMS30 Istallation.	eatures. DO.	
Upload packages:	Choose Files No file	chosen	Uploa	d	

If the file was uploaded successfully, this message appears: Files uploaded successfully.

6. Click Ingest Monitor to view the progress of the ingest.

10.4 Using quick ingest

You can use the **Quick Ingest** feature to play directly from the content source drive.

Prerequisites

- The content drive must be USB 3 or eSATA compatible.
- The cable used to connect the content drive and the Dolby IMS3000 must be eSATA or USB 3 compatible.

Procedure

- 1. Connect the source drive via eSATA or USB 3 into the Dolby IMS3000.
- 2. Open the Web UI, click **Ingest**, and then click **Ingest Scan**.
- 3. Click on the feature to play from the external drive, and then check the box labeled **Quick Ingest**.

Figure 50: Dolby IMS3000 ingest scan screen

	Screen: Tonys-INSS-Rev4-000088 Monitor Output: Mix (L, C, R) 🔧	Fader Mute
IMS3000 - 199000	User Level: root / Administrator Time: 2:11 P ^m	7.0 🗘 📣
O 🛈 🛓 🏲		L R C UT Lus Rus Los Ros
	Ingest Scan Ingest Monitor Export Monitor Upload	
🖵 Status	🔀 Refresh 🛓 Ingest 🔲 Select all 🚿 Hide ingested content	
B. Cipolistor	Local Storage	
ER Content	localhost, scanned about 0 minutes ago	
1 Ingest	GROWN-UPS_TLR-1_F_EN-XX_US-GB_S1_2X_SPE_20091102_DLA_0V	
- ingest	GROWN-UPS_TLR-1_F_EN-XX_US-GB_s1_2K_SPE_20091102_DLA_OV	
🎜 Cinema Audio	Green-Lantern_TLR-1_S_EN-XX_US-68_51_2K_WR_20101109_TDC	
P Macros	Sreen-Lantern_TLR-1_S_EN-XX_US-GB_51_2X_WR_20101109_TDC	
🚍 Device Controller	StEM_DCI Chinese subtitles_24bit_Audio	
W Diagnostics	StEM_DCI Chinese subtriles_24bit_Audio	
Log Viewer	😁 Black_Hawk_Down_BR	
🕸 Setup & Maintenance	🚸 Black_Hawk_Down_BR	
	😁 Doremi Mastering - Madagascar Movie	
	🚸 Madagascar	
	Unencrypted_30_HBR_60/ps_Inteorp	
	Unencrypted_3D_HBR_60fps_Inteorp	
	Haggje_Trailer1_F	
	Maggie_TLR-1_F_EN-XX_US-GB_s1_2K_ST_201s0320_SPP_IOP_OV	
	Serenity DCP with Sp. Subtitle by Doremi/Fotokem	
	Serenity Full Movie with Sp. Subtitles	
O Quick Controls	CPL(s): 9 SPL(s): 0 PKG(s): 0 KOM(s): 169	DLM(s): 0 PKL(s): 9 Other(s): 0

4. Click **Ingest** to ingest the selected feature.

The **Ingest Monitor** window appears, and the feature is available in CineLister when it is ready to play. You may need a KDM to play encrypted content.

Figure 51: Dolby IMS3000 ingest monitor screen

DOLBY. IMS3000 - 199000	Soreet: Tonys HMS. Favev acoust Monto Outputs: Max, (c, s), N Usar Lovet: reot / Administrator Time: 2127 ^m	Fader Mute 7.0 *
	Ingest Scan Ingest Monitor Export Monitor Upload	
	🙄 Refresh 🛞 Delete 🔘 Pause 💿 Resume 🚫 Cancel 🔲 Select all 👁 View Current Ingest	
	Status Description	Scheduled Started Finished
📇 Cinelister		
E Content		
	✓ GROWN-UPS_TLR-1_F_EN-XX_US-GB_s1_2X_SPE_20091102_DLA_OV	
📥 ingest	V Maggie_Trailer1_F	
Ja Cinema Audio		
P Macros		
Device Controller Ly Diagnostics Dag Userer Setup & Maintenance		
	WXF ingested [c300d13-405-485-410-d1509c77bcc3] Indextifue [c5c4084_604_c208_b106_c7]	
	MXT integrated laced284 code 42-38 coll code 27 above 73	
	PKL asset executed [125cbc43-61a2-4350-8eb9-d0cbb828a172]	Total Progress 100%
	V PKL asset imported [12scbc43-61a2-4350-8eb9-00cbb828a172]	
O Quick Controls	 Assetmap ingested [85436c42-bd84-4242-b8f9-4565173a206b] 	

Note: At the end of the playback the content will disappear from Cinelister because it was not ingested into the server. To ingest the content utilize a normal ingest outlined in Section 10.1: *Ingesting content onto the Dolby IMS3000*.

10.5 Ingesting content to the Dolby IMS3000 while offline

You can ingest content to the Dolby IMS3000 while it is offline.

About this task

The Dolby IMS3000 with the main storage NAS adds the ability to ingest content while the Dolby IMS3000 is powered off. The main storage NAS must remain powered on and must be accessible via the media network. This feature does not work with a Dolby IMS3000 that has internal storage and an additional storage NAS.

You need **SuperUser** privileges to perform this operation.

Procedure

- 1. Set up an FTP connection between the source (such as an ingest server or Dolby TMS, etc.) and the **ETH2** port of the NAS.
- 2. Enter the appropriate credentials.
 - Username: admin
 - Password: password
 - /partition_data/data/offline_incoming

After you connect to the main storage NAS, you will be able to upload content into the directory. There is no need to change to a different directory. After the content is fully uploaded to the NAS, the system ingests the content, moving it from your current directory to its final destination in the file system.

Figure 52: Content management network diagram



11 Managing Content on the Dolby IMS3000

The Dolby IMS3000 provides the capability of managing content, including CPLs, KDMs, SPLs, and Dolby License Message (DLM)s.

- Deleting content
- Deleting decryption keys
- Deleting an SPL
- Deleting a license
- Copying content to and from the additional storage NAS

11.1 Deleting content

You can delete content from the Dolby IMS3000.

About this task

You need manager privileges to complete the operations performed in this chapter.

Procedure

- 1. Click Content.
- 2. Select the CPL you want to delete.

You can also click the **Select all** check box to select all the content available on the Dolby IMS3000.

- 3. Click Delete, and then click Delete again.
- 4. Select Delete all selected CPL. Except CPL with "Delete Protection" active or CPL currently used in Playback.
- 5. Click **OK**.

Figure 53: Deleting content

Overview Composition Playlist Decryption Keys Show Playlist Licenses				
C Refresh ✔ Checks [C Export [2] Copy 3 Delete Q Search Select all				
Name		Video & Audio	Duration	Size & Location
Test 30_59.94_204828538 ●, 0x4412302-45021-3502-35034453144232 IB 30, HFR	3D SS HIMAS	🖬 JPEG2000, 2048x858, @59.94 🖏 Unknown, 0b, 0ch		38.2 MB ♥ Raid
Test 4k2D25_doremi_pattern_left ⁴ k_e456adds-d397-464b_a44=456a002223d76		JPEG2000, 4096x2160, @25		433.15 MB ♥ Raid
Test 4k2D30_doremi_pattern_left %_e375248-2846-4740-840-assoce58582		JPEG2000, 4096x2160, @30 🖏 Unknown, 0b, 0ch		383.57 MB Ø raid
Test 4k3D47_doremi_pattern • srezsake okec.erve.ossa:bizelizis 🗐 30, HR	3D ST ATMOS	📓 JPEG2000, 4096x2160, @47.95 🖄 Unknown, 0b, 0ch		358.83 MB
Trainer AntmanWasp. TLR-1-20_F_EN-EN-CCAP_US-GB_51-HI-Atmos_2X_DL_20180126_DTB_SMPTE_OV %_c525ccc7-ars2-41es-abde-etsx11saf1dat Image: Comparison of the association of		DPEG2000, 1998x1080, @24	00:01:49	1.98 GB ♥ Raid
Traiter AntmanWasp_TLR-1-20_S_EN-EN-CCAP_US-GB_S1-HI-Atmos_2X_D1_20180126_DTB_SMPTE_OV %_600b2156-0ad1-4561-a168-476baddeetoos1 @ Captron, Atmos, vn, Hi, Dilox		B JPEG2000, 2048x858, @24		2.2 GB ♥ Raid

11.2 Deleting decryption keys

You can delete decryption keys from the Dolby IMS3000.

About this task

You need manager privileges to complete the operations performed in this chapter.

Procedure

- 1. Click Content.
- 2. Click Decryption Keys.
- 3. Select the decryption key you want to delete, and then click Delete.

You can also click the **Select all** check box to select all the decryption keys available on the Dolby IMS3000.

Fierrae	F (. D -	1-+1			1
FINITE	54.110	ierinn	nerrv	ntinn	KAVS
Inguic	J_{τ} , D_{c}	1001119		puon	<i>NC 75</i>

C R	Refresh 土 Upload 🛞 Delete 🖆 Export 🔍 Search 🔲 Select all			
~	urn.uuid.3bb38ccb-c61a-43fb-9920-8c0749ab3375 Selective Audio FM - No FM (Encrypted) 2.2.2 (§¶ø)			Valid for 8 months 8 days 12 hours 50 minutes
~	urn:uuid:e6777ca7-sce0-4363-bs67-b763ce4s684c Selective Audio FM - All FM (Encrypted) 2.2.2 (\$\$@)			Valid for 1 years 5 months 16 days 13 hours 50 minutes
~	um.uuid.?bf44257-b91e-42bf-a024-63df430b36d1 💷 uugi da rakotti katya kata olija katikringikolasi			Valid for 8 years 10 days 15 hours 50 minutes
~	urn:uuid:e6777ca7-sce0-4363-bs67-b763ce4s684c Selective Audio FM - All FM (Encrypted) 2.2.2 (\$ 1 0)			Valid for 1 years 5 months 16 days 13 hours 50 minutes
	urn:นนเสี:e30c15d4-b791-4c9e-87d5-3fd81029611c แต่กานแส่และโลกิเฟ แลมีป สไปป สได้ สได้ สได้ เป็นกระเสียไหล่			Valid for 8 years 10 days 15 hours 50 minutes
	urn:tuuid:438d0fc3-5758-421f-910a-6ba2fa63a92e wrn:tuud:13x5w174 -4963 -4761 01575 5x5005ac -4010			Valid for 8 years 10 days 15 hours 50 minutes
~ 8	urn:uuid:5972a2e1-da9f-4940-aaa1-b199d947ec20 Madagascar			Valid for 10 months 26 days 12 hours 50 minutes
	urn.uuid.e6777ca7-Sce0-4363-b567-b763ce45684c Selective Audio FM - All FM (Encrypted) 2.2.2 (§¶ø)			Valid for 1 years 5 months 16 days 13 hours 50 minutes
	urn.uuid.6ef6d739-Scfd-4bc6-8809-23c4952f5s63 Selective Audio FM - All FM (Encrypted) 2.2.2 (§¶ø)			Valid for 11 months 22 days 12 hours 50 minutes
	urn.uuid:3bb38ccb-c61a-43fb-9920-8c0749ab3375 Selective Audio FM - No FM (Encrypted) 2.2.2 (§¶ø)			Valid for 8 months 8 days 12 hours 50 minutes
	urn:uuid:e1745b48-scs1-4898-b66d-sda7f0a16a2f Selective Audio FM - Not Above Channel 10 (Encrypted) 2.2.2 (📢 o)			Valid for 1 years 8 months 22 days 12 hours 50 minutes
2	uro-uuid-10f0a711-480a-4f1c-5558-6eae1511e659 Selective Audio FM - Not Above Channel 10 (Encrypted) 7.2.2 (\$¶0)	2017-01-06 12:00-00 am	2022-12-31 11:59-00 Pm	Valid for 4 years 2 months 25 days 13 hours 49 minutes

4. Click **OK**.

11.3 Deleting an SPL

You can delete an SPL from the Dolby IMS3000.

About this task

You need manager privileges to complete the operations performed in this chapter.

Procedure

- 1. Click Content.
- 2. Click SPL.
- 3. Select the SPL you want to delete, and then click **Delete**.

You can also click the **Select all** check box to select all the SPLs available on the Dolby IMS3000.

Figure 55: Deleting an SPL

Overview Composition Playlist Decryption Keys	Show Playlist	Licenses		
C Refresh 😮 Delete 🗠 Export Q Search 🗌 Select all				
Name			Duration	UUID
jira2318				
Serenity_WMAES67automation			01:58:55	66827f4a-e522-4f1e-b22e-53849ae9a1bc
Show Playlist				

4. Click OK.

11.4 Deleting a license

You can delete a license from the Dolby IMS3000.

About this task

You need manager privileges to complete the operations performed in this chapter.

Procedure

- 1. Click **Content**.
- 2. Click Licenses.
- 3. Select the license you want to delete, and then click **Delete**.

You can also click the **Select all** check box to select all the licenses available on the Dolby IMS3000.

Figure 56: Deleting a license

Overview Composition Playlist Decryption Keys Show Playlist	Licenses
C Refresh S Delete L Export Q Search Q Search □ Select all	
Description	Product Not valid before Not valid after Validity
🔀 License to support Chase Mode	
Dolby Atmos License	IMS3SM 2007-12-31 04:00:00 pm 2021-11-30 04:00:00 pm Valid for 3 years 1 months 22 days 5 hours 40 minutes
License to support Closed Caption	
License to support Closed Caption	
PartialBlackout (IMS3SM)	

4. Click **OK**.

11.5 Copying content to and from the additional storage NAS

You can copy content from the Dolby IMS3000 to an additional NAS device, as well as copy content from your NAS device to the Dolby IMS3000.

About this task

You need manager privileges to complete the operations performed in this chapter. This feature works only in Storage view. This feature is not possible with the Main Storage NAS since that configuration doesn't allow for an additional storage NAS.

Procedure

- 1. Click **Content**.
- 2. Click Views, and then click Copy.
- 3. Select the CPL you want to copy, and then click Copy.
- 4. Select the destination to copy the selected CPL.
- 5. Click **Copy**, and then click **OK**.

The **Assets Management Logs** window is prompted, confirming the copy process is complete.

6. Click Close.

12 Managing theatre properties

You can manage theatre properties on the Dolby IMS3000 by entering auditorium settings, entering the facility address, and entering new contacts.

- Applying auditorium settings
- Entering the facility and address
- Entering new contacts

12.1 Applying auditorium settings

You can apply auditorium settings from the Theatre Properties tab.

Procedure

- 1. Click Setup & Maintenance.
- 2. Click System Settings.
- 3. Click Theatre Properties.
- 4. Enter a name for the screen.
- 5. Select the screen aspect ratio.
- 6. Select the screen mask.
- 7. Select the screen color.
- 8. Click Save.

Figure 57: Applying auditorium settings

Auditorium		
Screen Name:	IMS3000	
Screen Aspect Ratio:	None	T
Screen Mask:	None	*
Screen Color:	None	T
Audio Format:		
Save	Revert	

12.2 Entering the facility and address

You can enter the name and address of the facility where the Dolby IMS3000 is located.

Procedure

- 1. Click Setup & Maintenance.
- 2. Click System Settings.
- 3. Enter the facility name and address information.
- 4. Click Save.

Figure 58: Entering facility address

Facility & Address		
Finance Entity Name:		
Name:		
Circuit:		
Street Address:		
City:		
Province:		
Postal code:		
Country:		
Save Re	vert	

12.3 Entering new contacts

You can enter and save new contacts on the Dolby IMS3000.

- 1. Click Setup & Maintenance.
- 2. Click System Settings.
- 3. Click Theatre Properties.
- 4. Click **New**, and then enter the contact information.
- 5. Click Save.

Figure 59: Entering new contacts

Add Con	tact	
Name:		
Phone1:		
Phone2:		
Emall:		
Country:	AFGHANISTAN (AF)	
Sa	ave Cancel	

13 Checking content for validity

The IMS3000 enables you to perform content integrity and sanity checks.

- Performing the integrity check
- Performing the sanity check

13.1 Performing the integrity check

You can perform an integrity check for the content on the .

About this task

The Integrity check verifies the size of the different components of CPL are what is expected with hash checks.

Procedure

- 1. Click Content.
- 2. Select the CPL to check.
- 3. Click **Checks**, and then click **Integrity**.

Figure 60: Performing the integrity check

Overview	Comp	osition Playlist		Decryption Keys	Show Playlist					
💭 Refresh 🖌 Che	cks 🛃 Export 🖓 Co	py 🛞 Delete 🖸	C Search	Select all						
Name	IT CHECK							Video & Audio	Duration	Size & Location
Tes	CHECK X858 54c-abd9-66af4514o42e						3D 51 5555	🖬 JPEG2000, 2048x858, @59.94 🕅 Unknown, 0b, 0ch		38.2 MB ♥ Raid
Test 4	2D25_doremi_pattern_left 664b-af44-f6a808222d76							Unknown, 0b, 0ch	00:00:15	433.15 MB ♥ Ratd
Test 4	2D30_doremi_pattern_left							JPEG2000, 4096x2160, @30		383.57 MB

The Integrity Check window opens with the results.

4. Click Close.

13.2 Performing the sanity check

You can perform a sanity check for the content on the .

About this task

The sanity check verifies that all the required components of the CPL are available.

Procedure

- 1. Click Content.
- 2. Select the CPL to be checked.
- 3. Click **Checks**, and then select **Sanity**.

Figure 61: Performing the sanity check

	Overview	Composition Playlist	Decryption Keys	Show Playlist					
C Refresh	✔ Checks 🛃 Export 🖞	🗄 Copy 🛞 Delete 🔍 Search	Select all						
Name	INTEGRITYCHECK						Video & Audio	Duration	Size & Location
Q, 084	SAN I Y CHECK 1286-4ce7-454c-abd9-66af4514c42e					3D 😭 🚟	🖬 JPEG2000, 2048x858, @59.94 🕲 Unknown, ob, och		38.2 MB ♥ Raid
4 , e45	fest 4k2D25_doremi_patter sadd3-d397-464b-af44-f6a608222d76	n_left					🖾 JPEG2000, 4096x2160, @25 🖄 Unknown, 0b, 0ch	00:00:15	433.15 MB
Q. 0577	rest 4k2D30_doremi_patter 52f48-2bfd-4740-8a40-a8580c4b85b2	n_left					🖾 JPEG2000, 4096x2160, @30 🖏 Unknown, 0b, 0ch		383.57 MB © Raid

The **Sanity Check** window is prompted.

4. Click Close.
14 Managing SPLs

You can create, delete, schedule, and perform playback of SPLs on the Dolby IMS3000.

- Cinelister overview
- Creating a new SPL
- Deleting a SPL
- Using the drag-and-drop scheduler
- Creating a new schedule
- Deleting a schedule
- Playing an SPL

14.1 Cinelister overview

You can use the features available on the Dolby IMS3000 to manage SPLs.

The **Cinelister Editor** allows you to create a new SPL. You can name the new SPL, which will help identify it while performing playback. You can also edit and delete the SPL. The SPL selected in the Cinelister Editor is the same SPL played.

The **Cinelister Scheduler** allows you to create a schedule and delete existing schedules. You can select the day and time, and repeat the schedule if necessary.

The **Cinelister Playback** tab allows you start, monitor and control playback of SPLs. The Playback Mode pull-down menu allows for different options once the SPL is finished playing. You can choose Play, Loop, Play then Rewind, Play then Eject.

- **Play**: The system will play to the end of the show and then pause on the last frame.
- Loop: The SPL is continuously repeated.
- **Play then rewind**: After completing playback, the SPL is reloaded and paused on the first frame, ready to replay the same SPL.
- **Play then eject**: The SPL is ejected at the end of playback.

You also have the option of setting the playback mode to Manual or Schedule mode.

- Manual mode: You can manually start and control the SPL.
- Schedule mode: The SPL is selected and started according to the schedule set in **Cinelister Scheduler**.

14.1.1 Intermission playlist

An intermission playlist enables you to insert a pause at a cut position into an SPL and then resume playback at an earlier time interval. An intermission playlist may contain items such as advertisements and clip trailers.

An intermission playlist must not contain another playlist pack.

When setting the time interval to pause and play the intermission playlist, you can set the cut position from the beginning or end of a clip, from a clip reel, or from a clip marker if the clip has markers in it.

14.2 Creating a new SPL

You can create a new SPL on the Dolby IMS3000.

Procedure

- 1. Click **Cinelister**, and then click **New**.
- 2. Click on the elements available in the **All available elements** section.
- 3. Drag and drop the elements into the **Show Playlist** pane.
- 4. Click Save.
- 5. Name the new SPL, and then click **Save**.

The SPL appears in the SPL column.

Figure 62: Creating a new SPL

Cinelister Editor	Cinelister Playback	Cinelister Scheduler			
📿 Refresh 🗈 New 🗁 Open	💾 Save 📄 Properties	E Delete			
All available elements					
All Elements	• 🔍			SPL: jira2318, 2D, HFR	
Automation Cues				00:00:00 HFR_48_4860_v4_7min_500mbps	\uparrow
Fade in				00:06:57 4k3D47_doremi_pattern	· ·
Fade out				00:07:12 Doremi 30s v5 jpc 2K hd 8ch 50	
Lamp off			ľ	00.07:31 Doremi 30s v5 jpc 2K full 8ch 29	Ð
Lamp on				00:07:47 Doremi-V7_TST_4K_S_24_81-EN_EN_EN_DRM_OV	•
Open dowser				00:08:07 LITTLERIVERS-3D-48FPS-450Mbps_20120207	벁
Feature				00:10:41 Doremi 30s v5 jpc 2K full 8ch 60	
HFR_48fps_3D_Unencrypted O 00:09:15			3D ST HILLS	00:10:57 Doremi-V7_TST_4K_S_24_81-EN_EN_EN_DRM_OV	
Madagascar © 01:25:59 E VI, HI, DBox				00:11:17 Doremi 30s v5 mpg 1080 lonly 8ch 23	
Serenity Full Movie with Sp. Subtitle	s		3D ST ATMOS	00:11:47 Doremi 30s v5 mpg 720p Ionly 8ch 60	
Stealth 4K, 5.1 EN				00:12:17 Doremi 30s v5 mpg 1080 lonly 8ch 29	
Stem Reel3				00:12:47 MPG1080i2D24_SBS_lonly_doremi_pattern	
Live				00:13:02 Doremi 30s v5 mpg 1080 loniy 8ch 25	
Local Live				00:13:32 Doremi 30s Clip v5 4K Flat 6ch Sub	
Pattern				00:13:52 4k2D25_doremi_pattern_left	
Black					
Black 3D			3D EF HICKIN		
1			U		

14.3 Deleting a SPL

You can delete an SPL on the Dolby IMS3000.

- 1. Click **CineLister**, and then click **Delete**.
- 2. Select the SPL to delete.
- 3. Click Delete.

Figure 63: Deleting an SPL

Show Playlist available on the server:
jira2318
Serenity_WMAES67automation
Show Playlist
Name:
Delete

14.4 Using the drag-and-drop scheduler

You can use the drag-and-drop scheduler feature on the Dolby IMS3000 to schedule an SPL to play.

About this task

The drag and drop scheduler feature is available to use in the **Cinelister Scheduler** window.

Procedure

1. Click Cinelister.

DOLBY. IMS3000 - 199000	Screen: Tonys-INS3-Rev4-000088 Monitor Output: Mix (L, C, R) X User Level: root / Administrator Time: 2:24 ^{pm}													Fader 7.0 🛓	Mute			
0 0 🤽 🏲	Cinelister Editor Cinelister Pla	wback																
C Statur					_													
- Status	Show Playlist																	
📇 Cinelister	Test SPL (Zee)	Previous																ext 🕅
E Content			05:00 am	06:00 em	07:00 ^{am}	08:00 am	09:00 am	10:00 am	11:00 am	12:00 pm	01:00 pm	02:00 pm	03:00 pm	04:00 pm	05:00 pm	06:00 pm	07:00 pm	08:0
🛓 ingest		No. 33 Ares																
🎜 Cinema Audio		Mon 23 Apr																
P Macros																		
E Device Controller																		
Diagnostics																		
Log Viewer		Wed 25 Apr																
🗱 Setup & Maintenance																		
		Thu 26 Apr																
		Fri 27 Apr																
		Sat 28 Apr																
		Sun 29 Apr																
O Quick Controls																-		

Figure 64: Dolby IMS3000 cinelister scheduler screen

2. Click on **Cinelister Scheduler**.

The saved SPL is displayed on the left-hand side.

Drag the SPL onto the desired time and date in the Calendar section.
 To delete an entry, drag the schedule show back into the SPL pane.

14.5 Creating a new schedule

You have the capability of scheduling an SPL to play at a specified time, as well as deleting a schedule.

Procedure

- 1. Click **Cinelister**, and then click **CineLister Scheduler**.
- 2. Click New.

Figure 65: Creating a new schedule



- 3. Select the drop-down menu in the **Show Playlist** section, and then select the SPL to schedule.
- 4. Select when to schedule the SPL in the **Schedule Show On** section.
- 5. Select the time and days for the SPL to repeat.
- 6. Click Create Schedule.

The schedule appears in the calendar. You can change the view of the calendar by clicking **View** and selecting **Calendar View** or **List View**.

Figure 66: Creating a new schedule

New Schedule		
Show Playlist:	Show Playlist	7
Schedule Show On:	11-14-2018 at 12 am T : 00 T	7
Expected End Time:	12:02 ^{am}	
Repeat:	Mon Tue Wed Thu Fri Sat Su During the next 1 week(s) Every 14 th of the next 1 month(s)	n
Create Schedule	Cancel	

14.6 Deleting a schedule

You can delete a schedule on the Dolby IMS3000.

Procedure

- 1. Click Cinelister.
- 2. Click Cinelister Scheduler.
- 3. Hover over the schedule to delete, and then click **Delete**.
- 4. Click Delete.

Figure 67: Deleting a schedule

Calendar	Calendar									
Previous	Previous Mon 08 October - Sun 14 October 2018									
	08:00 ^{am}	09:00 ^{am}	10:00 ^{am}	11:00 ^{am}	12:00 ^{pm}	01:00 ^{pm}	02:00 ^{pm}	03:00 ^{pm}	04:00 ^{pm}	05:00 ^{pm}
Mon 08 Oct							2:09 ^{pm}			
Tue 09 Oct		jir from 09:11	Q 💼 a2318 ^{am} to 09:25 ^{am}							
Wed 10 Oct										
Thu 11 Oct										

14.7 Playing an SPL

You can play an SPL from the Dolby IMS3000.

Procedure

- 1. Click **Cinelister**, and then click **Cinelister Playback**.
- 2. Select Manual or Schedule mode.

Playback is set to **Manual** mode by default. In **Schedule** mode, you cannot use the playback transport controls.

3. Click Play.

Figure 68: Cinelister Playback



15 Dolby IMS3000 audio overview

The Dolby IMS3000 contains a cinema audio processor. This processor has basic 5.1 and Dolby Surround 7.1 functionality. With a license, you can unlock and configure the Dolby IMS3000 for Dolby Atmos audio. The Dolby DAC3201 uses a different protocol and is not supported for use with the Dolby IMS3000.

- AES inputs and AES outputs
- Speakers and array feeds
- Bypass equalizer
- All output levels
- Copy speaker equalizer
- Graphic equalizer
- Bass and treble
- Output level
- Grossman equalizer
- Auditorium audio configuration summary
- Routing configuration summary
- Array delays configuration summary

15.1 AES inputs and AES outputs

The Dolby IMS3000 contains AES input and output ports.

The Dolby IMS3000 AUX AES connector supports AES digital audio input and output. The AUX AES input supports AES3-EBU (balanced), or Sony/Philips Digital Interconnect Format (S/PDIF) (unbalanced). There are no analog inputs or outputs on the Dolby IMS3000.

If the input source is analog, use an analog-to-digital converter (ADC). If analog output is required, use a digital-to-analog converter (DAC).

Refer to the Dolby IMS3000 Installation Manual for instructions.

15.2 Speakers and array feeds

Under the **Equalization** tab, you can select a speaker or array and edit the equalization (EQ) parameters of that output.



Figure 69: Speaker and array feeds

15.3 Bypass equalizer

This parameter specifies that the system bypasses the automatic EQ parameters and uses the default preset. You can select **on/off** to enable or disable this parameter.

Note: When you turn this option on, the system bypasses automatic EQ only for the speaker or array you are currently using (as specified in the speaker/array feeds drop-down menus.)

Figure 70: Bypass equalizer



15.4 All output levels

In the **All output levels** screen, you can adjust the output levels for each speaker or array in your preset EQ.

You can select an individual speaker or array by clicking on it. You can move the slider with the mouse or use the up and down arrow keys to specify output levels. In addition, you can generate signals in this screen.

Figure 71: All output levels

Outpu	t levels for EQ F	Preset					
	0.0	0.0	0.0 0.0	0.0	0.0		Speaker output levels locked
	ι1	Le 1	C1 LFE1	Re 1	R1		Prosot poods to be in "edit" mode
	0.0 Lw 1	0.0 Lts 1		0.0 Rts 1	Rw 1 0.0		Fleset needs to be in east mode
	0.0 Lw 2	0.0 Lts 2		0.0 Rts 2	Rw 2 0.0		
	0.0 Lw 3	0.0 Lts 3		0.0 Rts 3	Rw 3 0.0		
	0.0 Lw 4	0.0 Lts 4		0.0 Rts 4	Rw 4 0.0		
•	0.0 Lw 5	0.0 Lts 5		0.0 Rts 5	Rw 5 0.0 0.	•	
SUDI	0.0 Lss 1	0.0 Lts 6		0.0 Rts 6	Rss 1 0.0	52	
	0.0 Lss 2	0.0 Lts 7		0.0 Rts 7	R55 2 0.0		
	0.0 Lss 3	0.0 Lts 8		0.0 Rts 8	Rss 3 0.0		
	0.0 Lss 4	0.0 Lts 9		0.0 Rts 9	Rss 4 0.0		
	0.0 Lss 5	0.0 Lts 10		0.0 Rts 10	Rss 5 0.0		
	0.0 LSS 6	0.0 Lts 11		0.0 Rts 11	Rss 6 0.0		
	0.0 Lss 7 Lrs 1 Lrs 2 Lrs 3	0.0 Lts 12		0.0 Rts 12 Rrs 4 Rrs 3	Rss 7 0.0 Rrs 2 Rrs 1		
	0.0 0.0 0.0	0.0		0.0 0.0	0.0 0.0		
	Close						

15.5 Copy speaker equalizer

In the **Copy speaker EQ** screen, you can copy manual speaker EQ settings from one source to one or more destinations.

Figure 72: Copy speaker equalizer

Copy speaker E	9										
Copy manual ec	q settings from one s	ource to one or m	ore destinat	ions(s):							
		Source						C	estination(s)		
5	Le 1	3 4 ci LFE1	2 Re 1	6 R1			5 L1	1 Le 1	3 4 c1 LFE1	2 Re 1	6 R 1
9 Lw 1	41 Lts 1		53 Rts 1	Rw 1 21			9 Lw 1	41 Lts 1		53 Rts 1	Rw 1 21
10 Lw 2	42 Lts 2		54 Rts 2	Rw 2 22			10 Lw 2	42 Lts 2		54 Rts 2	Rw 2 22
11 Lw 3	43 Lts 3		55 Rts 3	Rw 3 23			11 Lw 3	43 Lts 3		55 Rts 3	Rw 3 23
12 Lw 4	44 Lts 4		56 Rts 4	Rw 4 24			12 Lw 4	44 Lts 4		56 Rts 4	Rw 4 24
13 Lw 5	45 Lts 5		57 Rts 5	Rw 5 25 📀		•	13 Lw 5	45 Lts 5		57 Rts 5	Rw 5 25 8
SUD 1 14 LSS 1	46 Lts 6		58 Rts 6	Rss 1 26		SUD 1	14 Lss 1	46 Lts 6		58 Rts 6	Rss 1 26
15 LSS 2	47 Lts 7		59 Rts 7	Rss 2 27	>		15 LSS 2	47 Lts 7		59 Rts 7	Rss 2 27
16 LSS 3	48 Lts 8		60 Rts 8	Rss 3 28			16 Lss 3	48 Lts 8		60 Rts 8	R55 3 28
17 LSS 4	49 Lts 9		61 Rts 9	Rss 4 29			17 LSS 4	49 Lts 9		61 Rts 9	R55 4 29
18 LSS 5	50 Lts 10		62 Rts 10	Rss 5 30			18 Lss 5	50 Lts 10		62 Rts 10	Rss 5 30
19 Lss 6	51 Lts 11		63 Rts 11	Rss 6 31			19 LSS 6	51 Lts 11		63 Rts 11	Rss 6 31
20 Lss 7 Lrs 1 Lrs 2	52 Lts 12 2 Lrs 3 Lrs 4		64 Rts 12 Rrs 4 Rrs 3	Rss 7 32 Rrs 2 Rrs 1			20 Lss 7 Lrs 1 Lrs 2 Lrs 3	52 Lts 12		64 Rts 12 Rrs 4 Rrs 3	Rss 7 32 Rrs 2 Rrs 1
33 34	35 36		37 38	39 40			33 34 35	36		37 38	39 40
Сору	Close										

15.6 Graphic equalizer

The graphic equalizer is a standard 1/3 octave control.

Use each slider in the graphic equalizer screen to adjust the gain throughout the range of frequencies, as shown on the real-time analyzer EQ display. Select **Flatten** to flatten the curve.

Figure 73: Graphic equalizer



15.7 Bass and treble

Use the **Bass** and **Treble** sliders to adjust the settings. Click **Flatten** to flatten the selected curve.

Figure 74: Bass and treble

c	Brossman Eq	Graphic Eq	Bass & Treble	Output Level
Flatten	0.0 0.0 1 1 HHz 2 kHz 3 kHz Bass Treble			
Save	Cancel			

15.8 Output level

Use the output-level slider to adjust the output level. Select **Flatten** to flatten the output level. *Figure 75: Output level*

Grossman Eq	Graphic Eq	Bass & Treble	Output Level
0.0 Flatten			
Save Cancel			

15.9 Grossman equalizer

The Grossman equalizer is a new function available in the Dolby IMS3000 that allows more accurate control of frequencies.

At the top of the box is a slider that can be used to zoom in and out as needed to configure down to a 1/12 octave level. Use each slider in the Grossman equalizer screen to adjust the gain throughout the range of frequencies, as shown on the real-time analyzer EQ display. Select **Flatten** to flatten the curve.

Figure 76: Grossman equalizer



15.10 Auditorium audio configuration summary

In the **Auditorium** tab of the **Cinema Audio** window, you can view the summary of the audio configuration in the auditorium.

This information is entered via Dolby Atmos Designer software (3.1 or later). Speakers are displayed according to their x and y coordinates.

When you hover your mouse on any of the solid-colored icons, the following information appears: channel name, position, array (if assigned to an array), routing, speaker data (if populated), and bass management assignment (indicating the speaker that is carrying the low frequency information) if bass management is applied.

If you have multiple speaker feeds with the same positional data, an icon with four small squares appears. When you click on this icon, it indicates the speakers that share this positional data.



Figure 77: Auditorium audio configuration summary

15.11 Routing configuration summary

In the **Routing** tab of the **Cinema Audio** window, you can view the summary of the routing configuration.

In the routing screen, the output routing channel is identified within each speaker icon. Only digital outputs are supported on the Dolby IMS3000. AES67 outputs or AES3 outputs can be used.

When you hover your mouse on any of the icons, the following information appears: channel name, position, array (if assigned to an array), routing, speaker data (if populated), and bass management assignment (indicating the speaker that is carrying the low frequency information) if bass management is applied.



Figure 78: Routing configuration summary

15.12 Array delays configuration summary

In the **Array Delays** tab of the **Cinema Audio** window, you can view the summary of the array delays configuration.

The **Surround speaker array delays** screen appears. When used, the Dolby Atmos Designer software automatically creates the surround delay values. If you are manually configuring the EQ without the use of Dolby Atmos Designer, you need to put in surround-array delays manually.

If you place a check mark in the **Use configuration file values** box, the system uses the automatic EQ values. When this box is not checked, you can enter the desired delay values and then click **Apply**.

					Surround speaker array del	ays
					🛃 Use configuration file val	ues
					Lss Rss 0	ms
					Lrs Rrs 0	ms
					Lts Rts 0	ms
Grid view (speakers o	displayed as row	s and columns, with sub	woofers place	d on outer edges of grid)	l.	

Figure 79: Array delays configuration summary

16 Configuring cinema audio on the Dolby IMS3000

The Dolby IMS3000 can be configured using Dolby Atmos Designer v3.1 for auto EQ and AES67 output to Dolby DAC3202, Dolby Multichannel Amplifier, or other compliant devices. The Dolby DAC3201 uses a different protocol and is not supported for use with the Dolby IMS3000.

- Configuring the default audio configuration
- Configuring the HDMI default audio
- Configuring the SDI default audio configuration
- Configuring the non-sync default audio
- Configuring the Streamlt default audio
- Configuring the AES Inputs
- Configuring the AES outputs
- Configuring the microphone
- Configuring EQ settings
- EQ parameters

16.1 Configuring the default audio configuration

You can configure the internal default audio configuration on the Dolby IMS3000. The Dolby IMS3000 contains a cinema audio processor. This processor has basic 5.1 and Dolby Surround 7.1 functionality. With a license, you can unlock and configure the Dolby IMS3000 for Dolby Atmos audio.

About this task

You need SuperUser privileges to complete the operations described in this section. You need administrator or installer privileges to configure the equalizer (EQ) settings.

- 1. Click Cinema Audio.
- 2. Click Default Audio Configuration.
- 3. Use the up and down arrows to adjust delay value.
- 4. Click the **EQ Preset** drop-down menu, and then select an available preset. This selection is set to **AutoEQ** by default.
- 5. Click Save All.

Internal (DCP) Default Audio Configuration								
Audio Delay (ms):	80 🗘 Allowed range: -500 to 500							
EQ Preset:	1 *							
Bitstreams supported in this input:	V Dolby Atmos							
	- Dolby Digital							
	- Dolby Digital Plus							
	- Dolby E							
	- True HD							
	V PCM							

Figure 80: Internal default audio configuration

16.2 Configuring the HDMI default audio

You can configure the HDMI default audio configuration on the Dolby IMS3000.

About this task

You need SuperUser privileges to complete the operations described in this section. You need administrator or installer privileges to configure the equalizer (EQ) settings.

- 1. Click Cinema Audio.
- 2. Click Default Audio Configuration.
- 3. Use the up and down arrows to adjust the audio delay value.
- 4. Click the **EQ Preset** drop-down menu, and then select an available preset.
- 5. Use the bar to adjust the surround processing between discrete and one of the available upmix levels.
- 6. Click on the **Derive LFE** drop-down menu, and select **On** or **Off**. **On** indicates that the system uses logic to create an LFE (Low Frequency Effects) channel from a two-channel input.
- 7. Click Save All.

HDMI Default Audio Configur	ation		
Audio Delay (ms): EQ Preset: Surround Processing:	80 Allowed range: 0 to 1000	▼ Bitstreams supported in this input: ✓ Dolby Atmos ✓ Dolby Digital ✓ Dolby Digital Plus - Dolby E ✓ True HD ✓ PCM	
	4x 2 ch discrete upmix Derive LFE: Off	✓ True HD ✓ PCM	

Figure 81: HDMI default audio configuration

16.3 Configuring the SDI default audio configuration

You can configure the SDI default audio on the Dolby IMS3000.

About this task

You need SuperUser privileges to complete the operations described in this section. You need administrator or installer privileges to configure the equalizer (EQ) settings.

Procedure

- 1. Click Cinema Audio.
- 2. Click Default Audio Configuration.
- 3. Use the up and down arrows to adjust the audio delay value.
- 4. Click the **EQ Preset** drop-down menu, and then select an available preset.
- 5. Use the bar to adjust the surround processing between discrete and one of the available upmix levels.
- 6. Click on the **Derive LFE** drop-down menu, and select **On** or **Off**. **On** indicates that the system uses logic to create an LFE (Low Frequency Effects) channel from a two-channel input.
- 7. Click Save All.

Figure 82: SDI default audio configuration

SDI Default Audio Configuration			
Audio Delay (ms): EQ Preset: Surround Processing:	80 Allowed range: 0 to 1000 1 7.1 7x 5.1 5x 4.x 2 ch 2 ch discrete upmix Derive LFE: Off	Bitstreams supported in this input:	 ✓ Dolby Atmos ✓ Dolby Digital ✓ Dolby Digital Plus - Dolby E - True HD ✓ PCM

16.4 Configuring the non-sync default audio

You can configure the nonsync default audio configuration on the Dolby IMS3000.

About this task

You need SuperUser privileges to complete the operations described in this section. You need administrator or installer privileges to configure the equalizer (EQ) settings.

Procedure

- 1. Click Cinema Audio.
- 2. Click Default Audio Configuration.
- 3. Use the up and down arrows to adjust the audio delay value.
- 4. Click the **EQ Preset** drop-down menu, and then select an available preset.
- 5. Use the bar to adjust the surround processing between discrete and one of the available upmix levels.
- 6. Click on the **Derive LFE** drop-down menu, and select **On** or **Off**. **On** indicates that the system uses logic to create an LFE (Low Frequency Effects) channel from a two-channel input.

7. Click Save All.

Figure 83: Nonsync default audio configuration

Non-Sync Default Audio Con	figuration	
Audio Delay (ms): EQ Preset:	80 2 Allowed range: 0 to 1000	*
Surround Processing:	9.x 7.1 5.1 5.x 2.ch discrete upmix Derive LFE: Off	Bitstreams supported in this input: ✓ Dolby Digital ✓ Dolby Digital Plus ✓ Dolby E - True HD ✓ PCM

16.5 Configuring the StreamIt default audio

You can configure the Streamlt default audio configuration on the Dolby IMS3000.

About this task

You need SuperUser privileges to complete the operations described in this section. You need administrator or installer privileges to configure the equalizer (EQ) settings.

- 1. Click Cinema Audio.
- 2. Click Default Audio Configuration.
- 3. Use the up and down arrows to adjust the audio delay value.
- 4. Click the **EQ Preset** drop-down menu, and then select an available preset.
- Use the bar to adjust the surround processing between discrete and one of the available upmix levels.
- 6. Select the **Derive LFE** drop-down menu, and select **On** or **Off**. **On** indicates that the system uses logic to create an **LFE (Low Frequency Effects)** channel from a two-channel input.
- 7. Click Save All.

Streamlt Default Audio Configurati	ion		
Audio Delay (ms): EQ Preset: Surround Processing:	Allowed range: 0 to 1000	Bitstreams supported in this input:	 Dolby Atmos Dolby Digital Dolby Digital Plus Dolby E True HD PCM

Figure 84: Streamlt default audio configuration

16.6 Configuring the AES Inputs

You can configure the inputs on the Dolby IMS3000. The AUX input supports AES3-EBU (balanced), or (unbalanced). There are no analog inputs on the Dolby IMS3000.

About this task

You need SuperUser privileges to complete the operations described in this section. You need administrator or installer privileges to configure the equalizer (EQ) settings.

Procedure

- 1. Click Cinema Audio.
- 2. Click AES Inputs/Outputs.
- Select the device in the AES Input 1 drop-down menu.
 If necessary, select the Balanced check box.
- 4. Select the device in the **AES Input 2** drop-down menu. If necessary, select the **Balanced** check box.
- 5. Click Save.

Figure 85: Configuring the AES input

AES Inputs			
AES Input 1	Non Sync (1)	T	Balanced
AES Input 2	Non Sync (2)	•	Balanced
Save			

16.7 Configuring the AES outputs

You can configure the AES outputs on the Dolby IMS3000.

About this task

You need SuperUser privileges to complete the operations described in this section. You need administrator or installer privileges to configure the equalizer (EQ) settings.

The Dolby IMS3000 AUX connector supports digital audio input and output. There are no analog outputs on the Dolby IMS3000.

Procedure

- 1. Click Cinema Audio.
- 2. Click AES Inputs/Outputs.
- 3. From the **AES Output 1 Ch1** drop-down menu, select the device.
- 4. From the AES Output 1 Ch2 drop-down menu, select the device.
- 5. From the AES Output 2 Ch1 drop-down menu, select the device in the.
- 6. From the AES Output 2 Ch2 drop-down menu, select the device.
- 7. Click Save.

Figure 86: Configuring AES Outputs

AES Outputs		
AES Output 1 Ch 1	н	•
AES Output 1 Ch 2	VI	•
AES Output 2 Ch 1	Booth Monitor	v
AES Output 2 Ch 2	Unassigned	v
Save		

16.8 Configuring the microphone

You can configure the microphone on the Dolby IMS3000.

About this task

You need SuperUser privileges to complete the operations described in this section. You need administrator or installer privileges to configure the equalizer (EQ) settings.

- 1. Click Cinema Audio.
- 2. Click Microphone.
- 3. Adjust the gain value using the up and down arrows.
- 4. Adjust the audio delay value using the up and down arrows.
- 5. Select an available preset in **EQ Preset** drop-down menu.
- 6. Select the output location from the **Output Channels** drop-down menu.
- 7. Click Save.

Figure 87: Configuring	the microphone
------------------------	----------------

Microphone			
• There is no Microphone co	onfigured. Go to AUX AES Inputs and s	select Microphone to enable it.	
Audio Delay (ms):	0 🛟		
EQ Preset:	1	•	
Output channels:	Center (Format 64)	•	
Save			

16.9 Configuring EQ settings

You can configure the EQ settings on the Dolby IMS3000. The installer can adjust the EQ settings for each speaker and array.

You need administrator or installer privileges to access the **Equalization** tab of the **Cinema Audio** section.

Note: You cannot edit the AutoEQ preset parameters. However, you can save a copy of these parameters under a different name, and make changes to the copy.

16.9.1 Adding an EQ preset

You can add a new EQ preset on the Dolby IMS3000.

Procedure

- 1. Select the automatic EQ (AutoEq) preset or a copy of a previously created customized preset from the EQ Preset List drop-down menu.
- 2. Enter a name for the new preset, and then click **Ok** to save your new preset.
- 3. Click **Edit** to edit the EQ parameters.
- 4. Configure the parameters as needed, and then click **Save** to save the new preset.

You can click **Delete** to delete a customized preset.

Figure 88: Adding an EQ preset list



16.9.2 Loading or editing an EQ preset

You can load or edit an EQ preset on the Dolby IMS3000.

Procedure

1. Select the desired preset in the **EQ presets** menu.

You can edit a customer preset, or you can make a copy of the default preset and save it under a different name.

Figure 89: EQ preset list



- 2. Click Edit, and then click Proceed after reading the warning message.
- 3. Configure the desired parameters in the EQ screen.

Figure 90: Editing EQ parameters



4. Click **Save** to finalize the changes to the preset.

You can delete a customized preset by clicking delete. You cannot delete the AutoEQ preset.

16.10 EQ parameters

You can see a detailed description of all the parameters that appear in the EQ screen in this section. You can configure these parameters for customized presets when you click edit.

16.10.1 Generating a test signal

You can generate a test signal to test the system.

Procedure

- 1. Select the test signal.
- 2. Choose the **Speaker** or **Array** that you want to use for the signal output.

You can select from the drop-down menu or use the arrow buttons to scroll through the list.



Figure 91: Speaker and array feeds list

3. Toggle the on/off button to enable playback of the test signal.

Figure 92: Test signal generator



When you enable the signal generator and select **Pink Noise**, you can configure the system to automatically pan pink noise through each channel sequentially using the **Rotate** and **Snap** options:

- **Rotate**: Pans the signal through each channel sequentially, maintaining a continuous panning volume. As the signal in one channel starts to fade, the signal in the next channel begins, so the signals overlap in a smooth fashion.
- **Snap**: Pans the signal through each channel sequentially, one channel at a time, with only one signal present at any time. After one signal ends, the next signal begins.

The default output level for pink noise, as well as for the thump and sine signal tones, is -30 . The default output level for the sweep signal tone is -40 .

17 Performing diagnostics on the Dolby IMS3000

The **Diagnostics** page enables you to view information about the hardware versions, networking, software versions, and repair the RAID on the Dolby IMS3000. You can also generate a detailed report that can be used for deeper investigation.

- Viewing the Dolby IMS3000 diagnostics
- Generating a detailed report
- Status overview window
- Storage window
- MediaBlock window
- Replacing a defective HDD from the Main Storage NAS
- Reinitializing the RAID on the Main Storage NAS

17.1 Viewing the Dolby IMS3000 diagnostics

You can view the Dolby IMS3000 diagnostics using the **Diagnostics** page.

- 1. Click Diagnostics.
- 2. Click Hardware Versions to view information about the hardware.
- 3. Click Networking to view the IP addresses of ETH0, ETH1, and ETH2.
- 4. Click **Product Information** to view this product information:
 - Product name
 - Serial number
 - Main software version
 - Main firmware version
 - Web UI version
 - Bundle version
- 5. Click Software Versions to view the current Dolby IMS3000 software version.



Figure 93: Viewing diagnostics

17.2 Generating a detailed report

You can generate a detailed report from the Dolby IMS3000.

About this task

A detailed report contains information about the Dolby IMS3000 and any errors that may have occurred. The detailed report can be reviewed by the user, or provided to Dolby Cinema Technical Support, which uses this information to analyze and provide solutions to problems.

Procedure

- 1. Click Diagnostics.
- 2. Click Detailed Report.
- 3. Click Ok.

The report is saved to a location on your computer.



Figure 94: Generating a detailed report

17.3 Status overview window

The status overview window displays the status of the Dolby IMS3000 components like temperature readings, network status, and memory health.

Figure 95: Status overview window

System	Status Overview Storage	MediaBlock		
Fans				
Temperatures		No relevant information		
Voltages				
Memory	Temperatures		Click here for CPU tempera	tures history >
Network				
Projector		MediaBlock		
Storage	Motherboard: 34 °C	MD FPGA #1: 49 °C MD PTC- 40 °C	O DATA: 30 °C	
Security Manager		● MD CPU: 48 °C	DATA: 27 °C	
Time				
Administration				
Installation	Voltages			
Playback		No relevant information		
Audio				
🤒 Audio & Video I/O	Memory			
Security				
🥥 Live Status				
🥚 Input Feeds				
Features				
	Projector			

17.4 Storage window

The storage window displays information about storage devices associated with the Dolby IMS3000. You can also reset all drives, perform a RAID cleanup, and view the RAID diagnostics, these functions are not available when using the Dolby IMS3000 with the main storage NAS.

You can also reset all drives, perform a RAID cleanup, and view the RAID diagnostics. Some of these options are not available on the Dolby IMS3000 with the Main Storage NAS.

Figure 96: Storage window

System	Sta	itus Overview	Storage	MediaBlock				
				/data	€	SSD /doremi		
Storage Details								
• md0							Healthy	
	Unit Information							
	Mount:	md0						
	Status:	Normal 🔵						
	Capacity:							
	Version:	mdadm						
	Туре:	Raid5						
	Size:							

17.4.1 Resetting all drives

You can reset all drives on the Dolby IMS3000.

About this task

In the event of RAID failure, you may need to reinitialize the Dolby IMS3000 internal RAID storage.

Procedure

- 1. Click **Diagnostics**, and then click **Storage**.
- 2. Select the RAID Management tab.
- 3. Click Reset all drives.

Figure 97: Reset all drives

System	Status Overview	Storage	MediaBlock			
			/data	∫ ¢pt	SSD /doremi	
Storage Details						
md0						Healthy
sda						
sdb						
sdc						
Ur		R/	AID Management			
		RA	ID Management			
	- The "Reset all drives	RA will reinitialize all the drive to the fa	ID Management	does result in los	s of all your data/content.	
	- The "Reset all drive - You can remove inco	RA " will reinitialize all the drive to the fa mplete or unplaybale CPLs and unref	ID Management actory setting. This operation erenced assets (orphans) by c	loes result in los licking on the "R	s of all your data/content. AID Cleanup" button.	
	- The "Reset all driver - You can remove inco	RA " will reinitialize all the drive to the fa implete or unplaybale CPLs and unref	ID Management actory setting. This operation (erenced assets (orphans) by c	does result in los licking on the "R	s of all your data/content. AID Cleanup" button.	
	- The "Reset all drive - You can remove inco	RA " will reinitialize all the drive to the fa mplete or unplaybale CPLs and unref	ID Management http://setting. This operation (erenced assets (orphans) by c Irives RAID Cleanup	loes result in los licking on the "R	s of all your data/content. AID Cleanup" button.	
	- The "Reset all drive - You can remove inco	RA " will reinitialize all the drive to the fa mplete or unplaybale CPLs and unref C Reset all d	ID Management http://setting.This operation erenced assets (orphans) by c http://setting.com/settin	does result in los licking on the "R	s of all your data/content. AID Cleanup* button.	
	- The "Reset all drive - You can remove inco	RA " will reinitialize all the drive to the fa mplete or unplaybale CPLs and unref C Reset all d	ID Management Ictory setting, This operation erenced assets (orphans) by c Irives 👕 RAID Cleanup	loes result in los licking on the "R	s of all your data/content. AID Cleanup" button.	
	- The "Reset all drive - You can remove inco	RA " will reinitialize all the drive to the fa mplete or unplaybale CPLs and unref C Reset all d	ID Management Actory setting. This operation erenced assets (orphans) by c Irives 音 RAID Cleanup	does result in los licking on the "R	s of all your data/content. AID Cleanup* button.	
	- The "Reset all drive - You can remove inco	RA " will reinitialize all the drive to the fa mplete or unplaybale CPLs and unref C Reset all d	ID Management Interry setting, This operation erenced assets (orphans) by c Irives 📋 RAID Cleanup	loes result in los licking on the "R	s of all your data/content. ND Cleanup [®] button.	

4. Click **Continue** in the **Reinitialize** window.

Figure 98: Reinitialize window

Reinitialize
🔘 Reinitialize
This operation does result in loss of all your data/content.
Continue Cancel

5. Click **Continue** to complete step 1 of the resetting process. Note that this operation will result in the loss of all your content.

Reinitialize
Step 1 of 2
You are going to perform an operation that changes the configuration of the disks (RAID)
Press Continue button to go to next step of the process.
If you are unsure, press Cancel button.
WARNING: This operation does result in loss of all your data/content.
Continue Cancel

Figure 99: Reinitializing: Step 1

6. Wait for the reinitialization process to finish.

Figure 100: Reinitializing: Step 2

Reinitialize
Step 2 of 2
V Success
Configuring /data [OK] Restarting services[OK]
RAID re-initialized
Close

The RAID will take several hours to rebuild. You can monitor its progress in **Diagnostics**, under the **Storage** tab.





17.4.2 Replacing a defective internal HDD on the Dolby IMS3000

You can replace a defective internal hard disk drive (HDD) on the Dolby IMS3000.

Procedure

1. Click **Diagnostics**, and then hover over the RAID to reveal the **Repair**, and then click **Repair**. *Figure 102: Repairing a defective drive*

System	Status Overview	Storage	Storage /opt needs a	assistance.		
			/data	T Book	SSD /doremi	
Storage Details						
● md0						🔧 Repair Degraded
sdb						
						Unknown online

2. Click **Continue** in the **Repair** window.

Figure 103: Repair window

Repair
Repair
Repair the RAID and activate all the drives. This process does not change the data on the disk.
Continue Cancel

- 3. Click **Continue** in the **Repair** window. This process will destroy the content of the new drive.
- 4. Follow the instructions in the **Disk Replacement Wizard**.

Figure 104: Disk replacement wizard step 1

Disk Replacement Wizard					
Step 1 of 4					
You are going to replace the SATA drive Sda					
Press Continue button to go to next step of the process.					
If you are unsure, press Cancel button.					
WARNING: This process will destroy the content of the new drive.					
Continue Cancel					

Figure 105: Disk replacement wizard step 2

Disk Replacement Wizard
Step 2 of 4
Vinregister the drive from the RAID.
Remove the old drive from the position bay top or left, or press Continue to skip this step.
Continue Cancel

Figure 106: Disk replacement wizard step 3

Disk Replacement Wizard
Step 3 of 4
Insert a new drive in the position bay top or left.
O Register the drive in the RAID.
Cancel

5. Wait for the process to complete, and then click **Close**.

Figure 107: Disk replacement complete

Disk	Disk Replacement Wizard						
Step 4 of 4							
	The disk replacement has successfully been completed.						
\checkmark	The RAID is rebuilding, it might take several hours to complete.						
	This process does not interfere with playback.						
	Close						

6. Click Close.

17.4.3 Cleaning the RAID

You can clean the RAID on the Dolby IMS3000.

About this task

To ensure efficient use of your RAID storage space, using the RAID cleanup utility allows you to purge unnecessary data, such as incomplete assets. Using RAID cleanup during the ingest process may result in failed ingests.

Procedure

- 1. Click **Diagnostics**, and then click **Storage**.
- 2. Select the RAID Management tab.
- 3. Click RAID Cleanup.

Figure 108: RAID Cleanup

	System	Status Overview	Storage	MediaBlock	I.		
				/data)opt	SSD /doremi	
Storage D	etails						
• mc	10						Healthy
•							
9							
9							
				RAID Management			
				RAID Management			
		- The "Reset all drives	will reinitialize all the drive to the	e factory setting. This operatior			
		- You can remove inco	mplete or unplaybale CPLs and un	referenced assets (orphans) by	clicking on the "RA	ID Cleanup" button.	
			C Reset a	II drives 🛗 RAID Cleanup	1		
					,		

Figure 109: Disk cleanup window

Disk Cleanup
Files to delete:
Orphan assets
Incoming assets
Incomplete CompositionPlaylist
Simulate Cleanup Close

4. Select the files to delete, and then click **Cleanup**.

Figure 110: Disk cleanup

Disk Cleanup
Files to delete:
C Orphan assets
☑ Incoming assets
Incomplete CompositionPlaylist
(Simulation) Freed Space: 0 KB
Simulate Cleanup Close

You can click **Simulate** to display the possible space that will be freed.

17.4.4 Diagnosing the RAID

You can run RAID diagnostics on the Dolby IMS3000.

About this task

The RAID diagnostics function allows you to diagnose the RAID on the Dolby IMS3000.

- 1. Click **Diagnostics**, and then click **Storage**.
- 2. Click RAID Diagnostics.

Figure 111: RAID diagnostics

System	Status Overview	Storage	MediaBlock				
			/data	() jot	SSD /doremi		
Storage Details							
md0							Healthy
						RAID Diagnostics	
	Unit Information			Previous RAID diag	mostics results	RAID Diagnostics	_

3. Click Launch RAID diagnostics, and then wait for the diagnosis to finish.

Figure 112: RAID diagnostic window

RAID diagnostics								
Launch / Cancel a RAID diagnostics								
	🚫 Cance	el RAID diagnosti	cs					
RAID dlagno	stics progress							
SM	ART Diagnostics	Perfor	mance Benchmarks					
sda :	running (10%)	sda :	running (1%)					
sdb :	running (10%)	sdb :	running (1%)					
sdc :	running (10%)	sdc :	running (1%)					
Close								

RAID diagnostics						
Launch / Ca	Launch / Cancel a RAID diagnostics					
	S Cancel RAID diagnostics					
RAID diagno	RAID diagnostics progress					
SM	SMART Diagnostics Performance Benchmarks					
sda :	completed	sda :	completed			
sdb :	completed	sdb :	completed			
sdc :	completed	sdc :	completed			
Close						

The results of the diagnosis are available in the **Previous RAID diagnostics results** section.

17.5 MediaBlock window

The **MediaBlock** tab enables you to check on the health status of the SM, and the projector connectivity and status, and it reveals any errors defined as decoder crashes or underflows.

Figure 114: MediaBlock window

VICTOR VICTOR VICTOR
ajsteni alatai oreinen aloisge Mediablock
Security Manager
Status
Service Door Status: Closed Physical Marriage:
Service Door Armed: Engaged Logical Marriage:
Partial Blackout: Active Marriage:
Projector Media Decoder
Status: video Watermark: Dolby 0.3
Model: Audio Watermark: Dolby 1.3.11
Dowser:
Lamp:

17.6 Replacing a defective HDD from the Main Storage NAS

You can replace a defective HDD from the Main Storage NAS device.

- 1. Open the lever of the HDD on the Main Storage NAS device.
- 2. Slide out the HDD, and then replace it with a new HDD.

The system will automatically integrate the new HDD into the existing RAID.

17.7 Reinitializing the RAID on the Main Storage NAS

You can reinitialize the RAID on the internal and Main Storage NAS devices in the case of multiple HDD failures.

About this task

The RAID rebuilding process can be monitored from the **Storage** window.

Procedure

1. Click Setup & Maintenance, and then click Main Storage Manager.

Figure 115: Main storage configuration window

Main Storage Configuration							
Select the Main Storage type							
In	ternal Storage			External	NAS NAS Storage		
Currently connected Ex	Currently connected External Storage						
Maintenance & Confi	guration						
Configuration		Maintenance					
Interface:	eth2	lf you experience The "Reset all dr	e issues, you ives" will re	u can try to repair einitialize the drive	the configuration es and repair the	n by clicking configuratio	g on the "repair issues" button. on of the external storage.
Username:	43.0.0.1 admin						
Reconfigure	2			Repair issues	R	leset all dri	ves

2. In the **Main Storage Configuration** window, click the **Reconfigure**, and then click **Reboot in Storage Configuration Mode**.

Figure 116: Edit external storage

Edit the external storage configuration					
The external storage is currently working. To edit the configuration, you need to reboot your IMS in Storage Configuration Mode. In Storage Configuration Mode, the storage will not be available and you won't be able to perform playback.					
Rebo	ot in Storage Configuration Mode Close				

3. Wait for the Dolby IMS3000 to reboot. When the reboot is finished click **Go to Storage Manager** in the **Storage Configuration Mode** window.

Figure	117: System	reboot window
--------	-------------	---------------

IMS3000 - Power Management							
		Logout					
System will reboot	System will reboot after 2 seconds. Cancel						
More options							
Cancel							

Figure 118: Storage Configuration Mode window

▲ Storage Configuration Mode				
You are in Storage Configuration mode				
No playback can be performed in this mode.				
Go to Storage Manager Close				

4. At the bottom left of the Main Storage Manager, click Reconfigure, and then click Restart Configuration.

Figure 119: Reconfiguring drives

	You are in Storage Configuration Mode. Playback cannot be performed.					
Device Manager	Content Feed Manager	Main Storage Manager	Additional Storage Manager			
Main Storage Configuration						
		🛆 The exte	rnal storage is in Configuration Mode. I	lo playback can be performed.		
Select the Main Storage type						
Internal Sto		External Storage				
Storage Configuration Mode						
You are currently in "Storage Configuration Mode". No playback can be performed in this mode. In this mode, you can reconfigure or reinitialize the external storage. You can exit from the "Storage Configuration Mode" by clicking the button below.						
Currently connected External Storage						
Maintenance & Configuration						
Configuration	Maintenance					
Interface: IP Address: Username:	If you experience issues, y The "Reset all drives" will	ou can try to repair the configuratior reinitialize the drives and repair the	by Clicking on the "repair issues" button. configuration of the external storage.			
Reconfigure		Repair issues F	teset all drives			


5. Select the **Unit Interface** port from the pop-up list, and then enter the password for the external storage device.



Figure 121: External storage access settings

- 6. Click **Continue**, and then wait for the external storage initialization to begin.
- 7. In the External storage management window, click Reset all drives.

External storage management								
External stora								
Externational								
Processes	Shared_folders: Idle							
	Hardware: Idle							
	Snmp: Idle							
	Model: Idle							
	Offline_ingest: Idle							
Details	 24:5e:be:2b:37:41 NAS is already initialized (10_interface_link] Found IMS ethernet interface eth2 for 43.0.0.1 (20_ping] Main storage NAS 43.0.0.1 is pingable (30_interface_speed] Interface speed eth2 is 1000Mb/s (40_dedicated_interface] eth2 is a dedicated network interface (only IMS3 & NAS on the dedicated network link) (60_login] Login credentials are good NAS ethernet1 IP: 43.0.0.1 NAS ethernet2 IP: 192.168.100.100 (70_network] Correct nas network interface used (20_raid] Storage pool is ok (30_partition] Failed to retrieve volume 1 information 							
The external storage is not properly initialized. Click on the "Reset all drives" button to setup your storage. Please note this action will result in data lost on the external storage and can take up to 1 hour.								
Reset all driv	es Save Close							

Figure 122: External storage management window

The RAID will take several hours to rebuild. You can monitor its progress in **Diagnostics**, under the **Storage** tab.

18 Managing logs

The log viewer enables you to view various notifications and records about the system, such as package installations, playback, maintenance, errors, and more.

- Viewing the last packages logs
- Viewing log records
- Downloading logs
- Viewing notifications

18.1 Viewing the last packages logs

You can view the last packages logs on the Dolby IMS3000.

About this task

The **Last Packages Logs** tab allows you to view each step in the installation process of the most recent package. In case of a failure, the **Last Packages Logs** tab indicates where a failure occurred.

Procedure

- 1. Click Log Viewer.
- 2. Click Last Packages Logs.

The most recent installation date and the name of the package installed are displayed, along with the steps performed to install the package.

Figure 123: Last packages logs



18.2 Viewing log records

You can view and filter the search by class or date, or use the advanced filtering option.

About this task

The **Log Records** tab allows you to search through past events on the system.

Procedure

- 1. Click Log Viewer.
- 2. Click Log Records.

The log records are displayed, starting with the most recently created log.

Figure 124: Log records

L	ast Packa	ges Logs	Lo	g Records		Log Download		Notifications	
Class Date Advanced Filtering 👕 Clear Filters									
Severity	ID	Date		Class	Туре	Subtype		UUID	
í	36068	2018-10-09 11:16	5:02 ^{am}	Performance	Playout	SPLStart		urn:uuid:c7105009-920a-4	670-99a9-559d1709f681
í	36067	2018-10-09 11:14	4:50 ^{am}	Performance	Playout	SPLEnd		urn:uuid:c7105009-920a-4	670-99a9-559d1709f681
i	36066	2018-10-08 02:26	5:38 ^{pm}	Performance	Playout	SPLEnd		urn:uuid:ad117c1b-2188-4	lee1-aeff-8b66aa453063
í	36065	2018-10-08 02:26	5:38 ^{pm}	Performance	Playout	CPLEnd		urn:uuid:e456add3-d597-4	464b-af44-f6a808222d76
i	36064	2018-10-08 02:26	5:38 ^{pm}	Performance	Playout	CPLSequencePlayed		urn:uuid:e456add3-d597-4	464b-af44-f6a808222d76

18.2.1 Filtering logs by date

You can filter the logs by date in **Log Records**.

Procedure

- 1. Click Log Viewer.
- 2. Click Log Records.
- 3. Click Date.
- 4. Select the date range from the **Date Range** menu.
- 5. Click Ok.

Figure 125: Filtering logs by date

Date Filtering						
Date Range:	Custom range 🔻					
Starting date:	10/02/2018					
Ending date:	10/09/2018					
Ok	Cancel					

18.2.2 Filtering logs by class

You can filter the logs by class in **Log Records**.

Procedure

- 1. Click Log Viewer.
- 2. Click Log Records.
- 3. Click Class.
- 4. From the, **Class** drop-down menu list, select the class.
- 5. From the **Type** drop-down menu list, select the type.
- 6. From the **Subtype** drop-down menu list, select the subtype.
- 7. Click **Ok**.

Figure 126: Filtering logs by class

Class and Type Filtering							
Class:	All						
туре:							
Subtype:							
C	Ok Cancel						

18.2.3 Using advanced filtering

You can use the advanced filtering option in **Log Records**.

- 1. Click Log Viewer.
- 2. Click Log Records.
- 3. Click Advanced Filtering.
- 4. Select the database from the **Database** drop-down menu list.
- 5. Select the severity from the **Severity** drop-down menu list.
- 6. Enter the low record Id.
- 7. Enter the high record Id.
- 8. Enter the creator.
- 9. Enter a keyword.
- 10. Enter the device ID.
- 11. Click **Ok**.

Figure 127: Logs advanced filtering

Advanced Filtering								
Database:	System	T						
Severity:	All	T						
Id Range:	Low record Id - High record Id							
Creator:								
UUID:								
Device Id:								
0	k Cancel							

18.3 Downloading logs

You can use the log download option to download logs from the Dolby IMS3000.

Procedure

- 1. Click Log Viewer.
- 2. Click Log Download.
- 3. Click New.

If necessary, enter a title for the log.

- 4. Select the database from which to download the log.
- 5. Select the starting date and ending date.

If necessary, select the CPL or KDM Id from the **CPL Id or KDM Id** drop-down menu list.

Figure 128: Creating a new log

Create New Log						
Log Title:	log_10-09-2018_01-16-31					
Database:	Security Manager	T				
Starting date:	10/02/2018					
Ending date:	10/09/2018					
CPL Id:	All	Y				
KDM Id:	All	T				
Create	Cancel					

- 6. Click Create.
- 7. Hover over the log file, and then click **Download** to download the file, or click **Delete** to delete the file.

Figure 129: Log downloaded

	Last Packages Logs	Log Records	Log Download	Notifications						
•										
Statu	Title				Data	base Cre	ation Date	File Size		
۲	log_10-09-2018_01-16-31					rityMana 0 n	ninute ago		B	۲

18.4 Viewing notifications

You can view notification from the Dolby IMS3000.

About this task

The Notifications engine will alert the operator of critical issues with the system as well as provide precautionary messages to avoid failure.

Procedure

- 1. Click Log Viewer.
- 2. Select the **Notifications** tab.

If necessary, select the notification, and then click **Mark as Read**. You can also select the entire list of notifications by marking the **Select All** check box.

Figure 130: Notifications

Last Packages Log	s Log Reco			Notifications							
A Mark as Read 🔲 Select all											
Date	Title					Level	Class	Туре	Subtype	Error Code	Read
2018-10-09 09:59:48 am	Status of the RAID has change	ed.				😒 Error					
2018-10-09 09:59:48 am	Status of the RAID has change	id.				😒 Error					
2018-10-09 09:30:46 am	Status of the RAID has change	۶d				😒 Error					
2018-10-09 09:30:46 am	Status of the RAID has change	:d				😒 Error					
2018-10-08 05:53:05 pm	Status of the RAID has change	ed.				😒 Error					
2018-10-08 05:53:05 pm	Status of the RAID has change	ed.				😒 Error					

19 Maintaining the Dolby IMS3000

The Dolby IMS3000 has several tools that help you maintain the system and recover from failures by backing up and restoring settings.

- Configuring the automatic log upload manager
- Configuring the Backup Manager
- Cinema Processor Backup Manager
- Recording a maintenance log
- Configuring the Threshold Manager

19.1 Configuring the automatic log upload manager

You can configure the automatic log upload manager from the Dolby IMS3000.

About this task

The automatic **Log Upload Manager** allows you to set a time for the Dolby IMS3000 to upload system logs to a remote location over the network. You need SuperUser privileges to complete the operations performed in this chapter.

- 1. Click Setup and Maintenance.
- 2. Click Maintenance.

Figure 131: Configuring automatic log upload

Automatic	Log Upload Manager	Backup Manager	CP Backup Manager	Log Operator Maintenance	Threshold Manager					
⊕ Add	⊖ Delete									
Active lo	Active log uploading									
Frequency:	Daily Time:	04 T : 00 T AM T								
File name:	Custom TIMS3	000_2017-02-12_2017-02-13 //	MS3000_199000_2017-02-12_2017-02-	13						
Enabled	Manager Name	URL								
Save	Revert									

- 3. Under the Automatic Log Upload Manager tab, click Add.
- 4. Enter the name of the destination server for the logs to upload.
- 5. Enter the of the destination server.
- 6. Enter the user name and password associated with the server.
- 7. Select the types of logs to upload to the server.
- 8. Select the frequency and time to automatically upload logs.
- 9. Select the file name.

The default naming convention is set. You can change the file name by selecting **Custom** from the drop-down menu and entering the name you prefer.

Figure 132:	Manager	configuration	window
J · · ·			

Manager Configuration						
🗹 Enable						
Name:						
URL:						
Username:						
Password:						
Security (SMPTE) logs						
Ok Cancel						

10. Click Save.

19.2 Configuring the Backup Manager

The **Backup Manager** allows you to generate a new backup file to a specified location on the local storage of the Dolby IMS3000 or external device (USB or eSATA).

You need SuperUser privileges to complete the operations performed in this chapter.

Note: The Backup Manager only generates a backup file for the SMS functions of the Dolby IMS3000.

19.2.1 Generating a backup file

You can use the backup manager to generate a backup file.

About this task

You need SuperUser privileges to complete the operations performed in this chapter.

- 1. Click Setup and Maintenance.
- 2. Click Maintenance.
- 3. Select the **Backup Manager** tab.
- 4. Click **Generate**, and then select the location to upload the file.
- 5. Click **Ok**.
- 6. Click Close.

Figure 133: Backup manager

Automatic Log	Upload Manager	Backup Manager		CP Backup Manager		Log Operator Maintenance		Threshold Manager			
(i) · Lege · Click · Click	Legends: O Automatic Backup C Local Backup FTP Backup External Media Click "Generate" button to generate a new backup then select a location. Click "Restore" button to restore the selected backup then select categories.										
Generate Back	Generate Backup										
Last Auto Backup	Date: 2018-10-09 06:	:25:02 GMT -07:00									
ims3 199000_20	18-09-09T14:02:58			Generate							
Restore Backuj											
Location:	All locations		Ŧ								
 Тикзоос) 199000 2018-10-09T(06:25:02									
j IMS3000) 199000 2018-10-08T(06:25:03									
j IMS3000	199000 2018-10-07T	06:25:02									
<u>о</u> імsзоос	199000 2018-10-06T	06:25:03									
💿 імsзоос) 199000 2018-10-05T(06:25:03									
ТМХЗ000) 199000 2018-10-04T(06:25:02									

19.2.2 Restoring a backup file

You can use the **Backup Manager** to restore a backup file.

Procedure

- 1. Click Setup and Maintenance.
- 2. Click Maintenance.
- 3. Click Backup Manager.

If necessary, select the location where the backup file is stored.

- 4. Hover over the backup file, and then click **Restore** this backup file to restore.
- 5. Select the categories from the backup file to restore to the system.
- 6. Click Restore.
- 7. Click Close.
- 8. Reboot the Dolby IMS3000 for the changes to take effect.

Figure 134: Restoring a backup file

Restore Backup)	
Location:	All locations	
💿 імsзооо	199000 2018-10-09T06:25:02	
ІМS3000	Rest	ore this backup
💿 імsзооо	199000 2018-10-07T06:25:02	
💿 імѕзооо	199000 2018-10-06T06:25:03	
💿 імѕзооо	199000 2018-10-05T06:25:03	
🧿 ІМЅЗООО	199000 2018-10-04T06:25:02	

19.2.3 Deleting a backup file

You can use the **Backup Manager** to delete backup files.

Procedure

- 1. Click Setup and Maintenance.
- 2. Click Maintenance.
- 3. Click Backup Manager.

If necessary, select the location where the backup file is stored.

- 4. Hover over the backup file you want to delete, and then click **Delete this backup**.
- 5. Click **Ok**.

Figure 135: Deleting a backup file



19.3 Cinema Processor Backup Manager

The Cinema Processor backup manager allows you to back up, restore, and reset the audio processor settings of your Dolby IMS3000.

You need administrator or installer privileges to access the **CP Backup Manager** tab of the **Maintenance** section.

Note: The **CP Backup Manager** generates a backup file for the cinema audio processor only.

19.3.1 Generating a CP backup file

You can generate a cinema processor backup file using the CP backup manager.

About this task

You need SuperUser privileges to complete the operations performed in this chapter.

Procedure

- 1. Click Setup and Maintenance.
- 2. Click Maintenance.
- 3. Click CP Backup Manager.

If necessary, add additional text to the name of the file.

4. Click **Create Backup** to generate the file.

Automatic Log Upload Ma	inager	Backup Manager	CP Backup Manager	
Audio Processor Settings	Management			
Backup Restore				
Back up audio processor se	ettings to a file or	n a local drive:		
Filename: IMS3000_untitle	dTheatre_199000	D_DDMMMYY_HHMM	dac	
Create Backup				

Figure 136: Generating a CP backup file

19.3.2 Restoring a Cinema Processor backup file

You can restore a Cinema Processor backup file using the Backup Manager.

- 1. Click Setup and Maintenance.
- 2. Click Maintenance.
- 3. Select the CP Backup Manager tab.
- 4. Click Restore.
- Click Choose File to select the restoration file from your computer.
 Once a valid file is uploaded to the system, you can select the settings you with to restore.
- 6. Click **Restore**, after the selections have been made.

Automatic Log Upload Manager Backup Manager	CP Backup Manager
Audio Processor Settings Management	
Backup Restore Reset	
Settings reset cannot be undone. Consider running "backup" first.	
Factory reset all audio processor settings	
Or only restore settings selected below:	
 Auditorium configuration (Room, Speaker routing, Speakers and Art Digital AES67 Digital AES3 	rays, AutoEQ, Theater description)
 EQ and level presets Arrays delays 	
 Preferences Operational state snapshot User access 	
Reset	

Figure 137: Restoring a cinema processor backup file

19.3.3 Restoring settings on the Cinema Processor

You can restore settings of the Cinema Processor using the Backup Manager.

- 1. Click Setup and Maintenance.
- 2. Click CP Backup Manager.
- 3. Click Reset.
- 4. Select the settings that you want to reset.
- 5. Click **Reset** to restore the settings back to factory default.

Automatic Log Upload Manager Backup Manager	CP Backup Manager
Audio Processor Settings Management	
Backup Restore Reset	
Settings reset cannot be undone. Consider running "backup" first.	
Factory reset all audio processor settings	
Or only restore settings selected below:	
 Auditorium configuration (Room, Speaker routing, Speakers and Au Digital AES67 Digital AES3 	rays, AutoEQ, Theater description)
 EQ and level presets Arrays delays 	
 Preferences Operational state snapshot User access 	
Reset	

Figure 138: Restoring settings on the Cinema Processor

19.4 Recording a maintenance log

You can record a maintenance log on the Dolby IMS3000.

About this task

The Dolby IMS3000 can create an event log when maintenance is performed and track annual maintenance operations to help you maintain your system. You need SuperUser privileges to complete the operations performed in this chapter.

- 1. Click Setup and Maintenance.
- 2. Click Maintenance.
- 3. Click Log Operator Maintenance.

Figure 139: Log operator window

Automatic Log Upload Manager	Backup Manager	CP Backup Manager	Log Operator Maintenance	Threshold Manager		
Subject					Author	Execution Date
Comment						
Scheduled Tasks						
Statur Subject					Last Execution Date	Querdue Date
Annual maintenance activities					d month(s) 1 wook/s) ago	7 month(s) 2 wook(c) loft
					4 month(s), 1 week(s) ago	/ month(s), 5 week(s) tere

- 4. Click New.
- 5. Select the subject and add comments concerning the maintenance in the **Comment** section.
- 6. Click Record.

Figure 140: Recording a maintenance event

Record Maintenance Event				
(i) s	elect the subject that best describes the operation maintenance you one and press Record to permanently store the event.	have		
Author:	admin			
Subject:	Annual maintenance activities	•		
	Visual board Inspection, dust removal,			
Comment:				
Rec	ord Cancel			

19.5 Configuring the Threshold Manager

The Threshold Manager allows you to configure thresholds for temperatures, voltages, and counters.

19.5.1 Configuring temperatures

You can use the Threshold Manager to configure the temperature thresholds on the Dolby IMS3000.

Procedure

- 1. Click Setup and Maintenance.
- 2. Click Maintenance.
- 3. Click Threshold Manager.
- 4. Click Temperatures.
- 5. Adjust the values as desired for each listed component.
- 6. Click **Save**.

Figure 141: Threshold manager - Temperature

A	xtomatic Log Upload Manager Backup Manager CP Backup Manager Log Operator Maintenance Threshold Manager			
	Help Temperatures Voltages Fans Counters Reset to Default			
	Components	Threshold high (*C)	Hysteresis (*C)	Threshold low (°C)
	MOTHERBOARD	60		
		66		
	CHIPSET	66		
	DISK1	50		
		50		
	DISK3	50		
	DISK4			
	DISKS			
	DISKG			
	MD_FPGA1			
	MD_FPGA2			
	MD_RTC	60		
	MD_CPU			
	Save Revet			

19.5.2 Configuring voltages

You can use the Threshold Manager to configure the voltage threshold levels on the Dolby IMS3000.

- 1. Click Setup and Maintenance.
- 2. Click Maintenance.
- 3. Select the Threshold Manager tab.
- 4. Click Voltages.
- 5. Adjust the values as desired.
- 6. Click **Save**.



Help	Temperatures Voltages Fans Counters Reset to Default			
Cor	ponents	Threshold high (mV)	Hysteresis (mV)	Threshold low (m)
2 1		1300	100	900
2		1500	100	1000
2 3		3600	100	3100
🧭 4		5200	100	4800
5		12500	100	11500
2 6		-4800	100	-5200
7				
🔲 MD				2700
Sav	Revert			

19.5.3 Configuring counters

You can use the Threshold Manager to configure the counters on the Dolby IMS3000.

Procedure

- 1. Click Setup and Maintenance.
- 2. Click Maintenance.
- 3. Click Threshold Manager.
- 4. Click Counters.
- 5. Adjust the values as desired.
- 6. Click Save.

Figure 143: Threshold Manager - Counters

AutomaticLog Upload Manager Backup Manager CP Backup Manager Log Operator Maintenance Threshold Manager			
Help Temperatures Voltages Fans Counters Reset to Default			
Components	Threshold high	Hysteresis	Threshold low
C DECODER_CRASH			
S UNDERFLOWS			
S CLP_ER_DECODER			
S CLIP_ER_UNDERFLOW			
S RTC_YTD_ADJSEC	300		-300
Save Revert			

19.5.4 Restoring the Threshold Manager to default

You can use the Threshold Manager to restore the thresholds back to the default settings.

Procedure

- 1. Click Setup and Maintenance.
- 2. Click Maintenance.
- 3. Click Threshold Manager.
- 4. Click **Reset to Default**.
- 5. Click Reset all values to default.
- 6. Click **Ok**.
- 7. Click **Save**.

Figure 144: Threshold Manager - Restoring to default

Automatic Log Upload Manager	Backup Manager	CP Backup Manager	Log Operator Maintenance	Threshold Manager
Help Temperatures	Voltages Fans Counters	Reset to Default	Reset all valu	es to default
Save Revert				

20 Documentation revision history

The documentation revision history lists the date, issue number, and description of all publications of the Dolby IMS3000 User's Manual.

Date	Issue 1	Description
16 March 2017	1	Initial Release
04 April 2017	2	Minor editorial changes
30 November 2018	3	Limited availability release for software v 3.3.22
10 December 2018	4	Updated software reference to v3.3.x

Glossary

1080p

See full high definition.

2160p

See ultra-high definition.

3G-SDI

3 Gbps high-definition serial digital interface.

AC

Alternating current.

ADC

Analog-to-digital converter.

AES

Advanced Encryption Standard. A standard established by the National Institute of Standards and Technology (NIST) that specifies the AES algorithm (NIST FIPS 197).

CPL

Composition playlist. A composition playlist represents a complete digital cinema work, which may include features, trailers, teasers, and advertisements.

DAC

Digital-to-analog converter.

DCI

Digital Cinema Initiatives, LLC. A joint venture of several motion picture studios that defines an open architecture based on voluntary standards for digital cinema systems.

DHCP

Dynamic Host Configuration Protocol.

DLM

Dolby License Message.

EBU

European Broadcasting Union. An alliance of public service media entities, based mainly in Europe.

EQ

Equalization. The adjustment of audio frequency responses for practical or aesthetic reasons.

FTP

File Transfer Protocol. A network-based protocol designed for transferring data using a client-server architecture.

GPI

For digital cinema servers, an interface that is used to trigger an internal input (or pulse) to a digital cinema server.

GPIO

General purpose input/output. Generic, user-configurable pins that are used to control automation devices.

GPO

For digital cinema servers, an interface that is used for macro automation output and is controlled from the user interface on a digital cinema server.

H.264

Also known as Advanced Video Coding (AVC), ISO/IEC MPEG-4 AVC, and ISO/IEC 14496– 10:2012. An MPEG standard for video compression most commonly used for high-definition video, such as Blu-ray Disc. The standard was developed jointly by the International Telecommunication Union (ITU) and ISO/IEC MPEG.

HDCP

High-bandwidth Digital Content Protection. A method of digital encryption developed by Intel that is designed to prevent copying of audio and video data traveling across HDMI, DisplayPort, Digital Visual Interface (DVI), and other types of digital connections.

HDD

Hard disk drive.

HDMI

High-Definition Multimedia Interface. A high-speed, high-capacity format for transferring digital information and the specific hardware interface for the format.

IMB

Integrated media block. A media block that is installed in a digital cinema projector.

intermission playlist

A playlist contained within a show playlist (SPL) that pauses playback during an intermission between parts of a feature film.

IP

Internet Protocol.

IP address

Internet Protocol address. A numerical identifier assigned to a device that is a member of a network that uses the IP for communication.

JPEG

Joint Photographic Experts Group. An International Organization for Standardization (ISO)/ International Electrotechnical Commission (IEC) working group that develops still image coding standards. May also refer to a digital image format for lossy compression.

KDM

Key Delivery Message. An XML file that is used to provide decryption keys for a specific composition playlist (CPL) containing encrypted content. A KDM also specifies the time window during which the keys remain valid, as well as trusted equipment information to ensure that the CPL playback is possible only on authorized equipment and for an approved period of time.

LFE

Low-Frequency Effects. A band-limited channel specifically intended for deep, low-pitched sounds.

LTC

Linear timecode. A timecode developed by the Society of Motion Picture and Television Engineers (SMPTE) that provides a time reference for editing, synchronization, and identification.

MPEG

Moving Picture Experts Group. An ISO/IEC working group that develops video and audio encoding standards. Also the name of a family of digital video and audio coding standards.

MPEG-2

An MPEG standard (ISO/IEC 13818-2) for a group of audio and video coding formats and related technologies.

MXF

Material Exchange Format. A file format used to transfer and store different types of content (for example, audio, video, data, or metadata). MXF currently supports various compression and encoding formats, and its specification can be extended to new essence formats, if needed.

NAS

Network-attached storage. Data storage that is accessed by means of a local network connection for fast data sharing and file access.

NTP

Network Time Protocol. A network protocol for clock synchronization on computers.

RAID

Redundant array of independent disks.

RTC

Real-time clock. A specialized battery-powered microchip on a computer motherboard that keeps track of the current time, even when the computer is turned off.

S/PDIF

Sony/Philips Digital Interconnect Format. A digital interface protocol and specification for a physical connector for carrying digital audio signals, defined in IEC 60958.

SDI

Serial digital interface.

SM

Security Manager. Embedded software that controls security data and content access from unwarranted intrusion. SM is required by Digital Cinema Initiatives, LLC (DCI) and is controlled according to defined policy.

SMPTE

Society of Motion Picture and Television Engineers.

SMS

Screen management system. A device connected to a digital cinema projector that plays packaged audio and video content and issues automation commands to control an auditorium environment.

SNMP

Simple Network Management Protocol. A protocol for managing IP network devices

SNMP

Simple Network Management Protocol. A protocol for managing IP network devices

SPL

Show playlist. A playlist that defines one digital cinema show and is made up of a sequence of composition playlists (CPLs) that are associated with automation events, inserts (black pattern and others), or both.

TMS

Theatre management system. A device application that provides centralized management of theatre operations, including schedule management, content data management, and status monitoring.

UI

User interface.

USB

Universal Serial Bus. A standard that defines the cables, connectors, and communications protocols used in connections between computers and electronic devices.