



Dolby DCP-2000/DCP-2K4/ShowVault software release notes

Release v2.8.20
22 May 2018

1 Introduction

This documentation provides the installation instructions and describes new features, bug fixes, other improvements, and known issues for the Dolby DCP-2000/DCP-2K4/ShowVault software.

Contacting Dolby

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

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Access documentation

Visit www.dolbycustomer.com.

Submit feedback about this documentation

Send an email to documentation@dolby.com.

2 Installing the Dolby DCP-2000/DCP-2K4/ShowVault software

You can install the Dolby DCP-2000/DCP-2K4/ShowVault software using the **Ingest Manager** feature, web user interface (UI), or File Transfer Protocol (FTP).

2.1 Dolby DCP-2000/DCP-2K4/ShowVault software installation overview

You can download the Dolby DCP-2000/DCP-2K4/ShowVault software package from the Dolby service FTP site.

All files are available on service@ftp.cinema.dolby.com. For FTP credentials, contact Dolby Cinema Solutions and Support.

Dolby DCP-2000/DCP-2K4/ShowVault software v2.2.x or greater requires at least a 2 GB boot flash for the operating system.

2.2 Installing Dolby DCP-2000/DCP-2K4/ShowVault software package using the Ingest Manager

You can install the Dolby DCP-2000/DCP-2K4/ShowVault software package using the **Ingest Manager** feature.

Prerequisites

You have received the software package from Dolby.

Procedure

1. Insert the Universal Serial Bus (USB) flash drive that contains the software package into a USB port on the server.
2. On the server graphical user interface (GUI), click **Menu > Doremi Apps. > Ingest Manager**.
3. In the **Ingest Manager** window, find and select the software package.
4. Click **Ingest**.
The software package installs in the background.
5. Reboot the server.

Results

You are now ready to use the Dolby DCP-2000/DCP-2K4/ShowVault software.

2.3 Installing the Dolby DCP-2000/DCP-2K4/ShowVault software using the web UI

You can install the Dolby DCP-2000/DCP-2K4/ShowVault software using the web UI.

Prerequisites

You have received the software package from Dolby.

Procedure

1. Save the software package onto the computer.
2. Open a web browser and enter the IP address of the server.
3. In the web UI, click **Control > Ingest Manager > Upload**.
4. Click **Choose Files** and then click the software package.
5. Click **Upload**.
6. Reboot the server.
The software package installs in the background.

Results

You are now ready to use the Dolby DCP-2000/DCP-2K4/ShowVault software.

2.4 Installing Dolby DCP-2000/DCP-2K4/ShowVault software package using FTP

You can install the Dolby DCP-2000/DCP-2K4/ShowVault software package remotely using FTP.

Prerequisites

You have received the software package from Dolby.

Procedure

1. Open an FTP client from your computer.
2. Enter the IP address for the server, and then log in as administrator.
3. Upload the software package to the `/etc/rc.once` directory on the server.
The software package installs in the background.
4. Reboot the server.

Results

You are now ready to use the Dolby DCP-2000/DCP-2K4/ShowVault software.

3 Dolby DCP-2000/DCP-2K4/ShowVault software v2.8.20 release notes

Dolby DCP-2000/DCP-2K4/ShowVault software v2.8.20 includes new features, bug fixes, and other improvements .

Dolby DCP-2000/DCP-2K4/ShowVault software v2.8.20 requires the `dcp2000_install-2.8.20-0.pkg` package.

3.1 Dolby DCP-2000/DCP-2K4/ShowVault software software v2.8.20 new features

Dolby DCP-2000/DCP-2K4/ShowVault software software v2.8.20 includes new features.

- Integrates the StreamIT management information base (MIB) into the servers's overall MIB. [DCPLYR-30]
- Adds red and green bullets in the StreamIt GUI (GUI) and web UI to indicate the stream is properly received by the streamer services before playback. [DCPLYR-2677]
- Adds engine support for quick indexing files for improved ingesting performance. [DCPLYR-4422]

3.2 Dolby DCP-2000/DCP-2K4/ShowVault software software v2.8.20 bug fixes

Dolby DCP-2000/DCP-2K4/ShowVault software software v2.8.20 includes bug fixes.

- Fixed an issue where canceling a scheduled ingest task was not functioning. [DCPLYR-3238]
- Fixed an issue where the system incorrectly monitored SMART data on Samsung HDDs. [DCPLYR-3899]
- Fixed an issue where green flashes appeared with 3D content on the Dolby IMB with firmware v30.11a and v30.11b. [DCPLYR-4113]
- Fixed an issue where a response from the JNior automation device sent to the cinema server caused the server's driver to crash and resulted in the communication stopping between the cinema server and JNior. [DCPLYR-4178]
- Fixed an issue where the subtitles were sent incorrectly to a series 3 projector. [DCPLYR-4378]
- Fixed an issue where the Interop Digital Cinema Package (DCP) with PNG subtitles was increased in size by a multiple of two, requiring you to ingest 4K PNG
`interopdcp2000_ims_ims3_sw_hotfix_enable_4k_png_interop-1.0.0.pkg`. [DCPLYR-4387]

- Improved the swappiness performance by decreasing the threshold and preventing the system from swapping during normal conditions. [DCPLYR-4452]
- Fixed an issue where the Pngest ingest failed when the DCP had a TimedText Material Exchange Format (MXF). [DCPLYR-4463]

3.3 Dolby DCP-2000/DCP-2K4/ShowVault software v2.8.20 other improvements

Dolby DCP-2000/DCP-2K4/ShowVault software v2.8.20 includes other improvements.

- Updated the timezone data to 2018c. [DCPLYR-3641]
- Added a new option to add a Christie Series-3 projector in the Device Manager. [DCPLYR-3865]
- Included a check if Self-Monitoring, Analysis, and Reporting Technology (SMART) is disabled on a redundant array of independent disks (RAID) disk. If SMART is disabled, then the server re-enables it. [DCPLYR-4272]
- Added a new option to add a Christie Series-3 and 4K projector in the Device Manager. [DCPLYR-4281]
- Increased the maximum number of supported composition playlist (CPL)s from 2048 to 4096. [DCPLYR-4477]

4 Dolby DCP-2000/DCP-2K4/ShowVault software v2.8.19 release notes

Dolby DCP-2000/DCP-2K4/ShowVault software v2.8.19 includes bug fixes.

Dolby DCP-2000/DCP-2K4/ShowVault software v2.8.19 requires the dcp2000_install-2.8.19-0.pkg package.

4.1 Dolby DCP-2000/DCP-2K4/ShowVault software software v2.8.19 bug fixes

Dolby DCP-2000/DCP-2K4/ShowVault software software v2.8.19 includes bug fixes.

Fixed an issue with the solid state drive (SSD) health monitoring tool that crashed the cinema server, requiring a reboot to recover. With software v2.8.19, the SSD health monitoring tool is removed. [DCPLYR-4348]

5 Dolby DCP-2000/DCP-2K4/ShowVault software v2.8.18 release notes

Dolby DCP-2000/DCP-2K4/ShowVault software v2.8.18 includes new features, bug fixes, other improvements, and known issues.

Dolby DCP-2000/DCP-2K4/ShowVault software v2.8.18 requires the dcp2000_install-2.8.18-0.pkg package.

5.1 Dolby DCP-2000/DCP-2K4/ShowVault software software v2.8.18 new features

Dolby DCP-2000/DCP-2K4/ShowVault software software v2.8.18 includes new features.

- Adds the ability to create a macro that enables and/or disables the CineLister schedule function. [DCPLYR-669 and DCPLYR-2710]
- Adds hard disk drive (HDD) latency information for logging in the **sensors.log**. [DCPLYR-3391]
- Adds support for 4 TB HDDs.
- Adds the ability to detect and notify if an SSD is about to fail. [DCPLYR-3691]
- Implements the web UI to notify if an SSD is failing. [DCPLYR-3560]
- Implements a RAID recovery/check pausing framework. [DCPLYR-3545]
- Improves the performance of the RAID health checks and robustness. [DCPLYR-3517]

5.2 Dolby DCP-2000/DCP-2K4/ShowVault software software v2.8.18 bug fixes

Dolby DCP-2000/DCP-2K4/ShowVault software software v2.8.18 includes bug fixes.

- Fixed an issue when creating a macro for a Dolby CP650, Dolby CP750, and Dolby CP850 using the embedded macro library located in the Macro Editor. The default type of the message was set to **Binary** whereas it should have been **Text**. [DCPLYR-816]
- Fixed an issue where a potential timeout occurred at the ejection of an show playlist. [DCPLYR-2705]
- Fixed a bug when converting the Supermicro X10 motherboard configuration from Video Electronics Standards Association (VESA) standard to ATI driver. [DCPLYR-2850]
- Fixed an issue where the subtitle engine was rendering two frames earlier. [DCPLYR-2958]
- Fixed an issue where the CaptiView Transmitter USB dongle was not reconfigured when plugged into the digital cinema server. [DCPLYR-3184]
- Fixed an issue where the RAID hotplug tool was incorrectly overwriting the **raid.log** file. [DCPLYR-3204]
- Fixed an error where the server did not extract SMPTE timedtext (as in subtitles/captions) from the MXF file that was incorrectly created using the same universally unique identifier (UUID) for the MXF file and the main XML inside the MXF files. [DCPLYR-3418]
- Fixed an issue where the default subtitle fade-in and fade-out were not implemented in a SMPTE CPL. [DCPLYR-3472]
- Fixed a rare issue where the subtitle engine crashed and failed to output subtitles. [DCPLYR-3476]
- Fixed an issue where the auditorium number for the CaptiView Transmitter was not set on first configuration using the Device Manager. [DCPLYR-3638]
- Fixed an issue where the auditorium number for the CaptiView Transmitter was not set on configuration changes performed in the Device Manager. [DCPLYR-3639]
- Removed spam messages in **update.log** that were created by RAID pausing. [DCPLYR-3654]
- Fixed an issue where the ownership group change was incorrect when performing a system restore operation. [DCPLYR-3676]

- Fixed an issue where a memory leak was present each time a caption was sent. [DCPLYR-3695]
- Fixed an issue where the RAID incorrectly displayed as rebuilding after the installation of the software package. [DCPLYR-3866]

5.3 Dolby DCP-2000/DCP-2K4/ShowVault software v2.8.18 other improvements

Dolby DCP-2000/DCP-2K4/ShowVault software v2.8.18 includes other improvements.

- Improved the **odeticsd: fix** auto restart code. [DCPLYR-84]
- Reduced the verbosity of application programming interface (API) **ValidateCPL** and **ValidateSPL** logging to improve the readability of the **drmplylistd.log**. [DCPLYR-3079]
- Improved the bitrate of an ingest so that it is throttled down from 20 MB/s to 1 MB/s when playing High Bitrate (HBR) content. [DCPLYR-3233]
- Improved the detailed report generation so that it now retrieves the XServer logs for troubleshooting purposes. [DCPLYR-3417]
- Improved the closed caption engine so that it now processes iso8859-2 characters for closed caption displays. [DCPLYR-3518]
- Added Eastern European charset mode for closed caption devices. [DCPLYR-3521]

5.4 Dolby DCP-2000/DCP-2K4/ShowVault software v2.8.18 known issues

Dolby DCP-2000/DCP-2K4/ShowVault software v2.8.18 has issues that are known to cause problems. Where applicable, suggested workarounds are provided.

Issue 1

If an show playlist (SPL) contains an intermission playlist with a determined rewind time set at the end of intermission (for example, two minutes), and then paused to re-locate to any timecode within the SPL, then the new locate timecode is offset by the preset rewind time (two minutes in the example above). [DCPLYR-382]

Issue 2

The web UI is not supported on Dolby DCP-2000 units with an Intel SE7221 motherboard.

6 Dolby DCP-2000/DCP-2K4/ShowVault software v2.8.16 release notes

Dolby DCP-2000/DCP-2K4/ShowVault software v2.8.16 includes new features, bug fixes, other improvements, and known issues.

Dolby DCP-2000/DCP-2K4/ShowVault software v2.8.16 requires the `dcp2000_install-2.8.16-0.pkg` package.

6.1 Dolby DCP-2000/DCP-2K4/ShowVault software software v2.8.16 new features

Dolby DCP-2000/DCP-2K4/ShowVault software software v2.8.16 includes new features.

- Adds duration to a live event. [DCPLYR-2844]
- Adds an automatic update for Supermicro X10 hardware display configurations. [DCPLYR-2850]

6.2 Dolby DCP-2000/DCP-2K4/ShowVault software software v2.8.16 bug fixes

Dolby DCP-2000/DCP-2K4/ShowVault software software v2.8.16 includes bug fixes.

- Fixed an issue with the web UI that caused a missing image when a license was invalid.
- Fixed an issue where subtitle rendering was up to 0.5 seconds early. [DCPLYR-1288]
- Fixed an issue preventing USB flash drive from mounting correctly on Intel SE7221 motherboards. [DCPLYR-1935]
- Fixed an issue with compatibility mode when downgrading to software v2.6 from v2.8. [DCPLYR-1939]
- Fixed an issue that caused a deadlock if a special SPL marker was used. [DCPLYR-1940]
- Fixed an issue with **MB_CTL** that caused the SDUAL Mode Option to change when loading an SPL. [DCPLYR-1995]
- Fixed an issue that prevented chasing of a pattern element. [DCPLYR-1996]
- Fixed an issue that prevented the mounting of the USB flash drive if it was plugged into the server before powering on. [DCPLYR-2152]
- Fixed an issue with duration for a live event. [DCPLYR-2542]
- Fixed an issue with the Scheduler end date that caused an error with non-English translations. [DCPLYR-2629]
- Fixed an issue with the subtitle engine where italic font had spacing inconsistencies. [DCPLYR-2846]
- Fixed an issue with the automatic update for Supermicro X10 hardware display configurations. [DCPLYR-2850]
- Fixed an issue where the closed captioning failed to output on servers with Supermicro SE7221 motherboards. [DCPLYR-2941]
- Fixed multiple issues that prevented upgrading from software v2.6.4 to v2.8 on Supermicro X10 motherboard systems. [DCPLYR-2952]
- Fixed an issue with zic errors when processing a backward file. [DCPLYR-2963]
- Fixed an issue that prevented the unwrapping of SMPTE subtitles when the unwrap process is postponed if the media block was not present. [DCPLYR-3023]
- Fixed an issue with Encrypted timed text .mxf files that were not unwrapped when ingested on network-attached storage (NAS) devices after the Key Delivery Message (KDM) was present. [DCPLYR-3075]
- Fixed an issue with the RAID repair failure if partitions were out of cylinder boundary. [DCPLYR-3139]
- Fixed an issue with the USB rescue mode feature on Dolby DCP-2000/Dolby DCP-2K4/Dolby ShowVault servers. [DCPLYR-3140]
- Fixed an issue that prevented the correct detection of the SSD USB from **SDH** instead of **SDG** on Supermicro X10SLH motherboards. [DCPLYR-3146]
- Fixed an issue with an invalid command when logging RAID status.
- Fixed an issue with the RAID partition table type.

6.3 Dolby DCP-2000/DCP-2K4/ShowVault software v2.8.16 other improvements

Dolby DCP-2000/DCP-2K4/ShowVault software v2.8.16 includes other improvements.

- Disabled license protection for closed captioning. [DCPLYR-2164]
- Changed the default IO band value to 20 MB/s, to make the content ingest speed faster during playback. [DCPLYR-2490]
- Updated the time zone data to 2017b. [DCPLYR-2830]
- Implemented the Dolby web theme for servers. [DCPLYR-2964]

6.4 Dolby DCP-2000/DCP-2K4/ShowVault software v2.8.16 known issues

Dolby DCP-2000/DCP-2K4/ShowVault software v2.8.16 has issues that are known to cause problems. Where applicable, suggested workarounds are provided.

Issue 1

The CaptiView Transmitter USB dongle is not reconfigured automatically when plugged into the server. You must reconfigure it in the **Device Manager**.

Issue 2

Dolby ShowVault servers that use Chase mode need to configure the image/eye output from the **Device Manager**. [DCPLYR-3184]

7 Dolby DCP-2000/DCP-2K4/ShowVault software v2.8.11 release notes

Dolby DCP-2000/DCP-2K4/ShowVault software v2.8.11 includes new features, bug fixes, and known issues.

Dolby DCP-2000/DCP-2K4/ShowVault software v2.8.11 requires the dcp2000_install-2.8.11-0.pkg package.

7.1 Dolby DCP-2000/DCP-2K4/ShowVault software v2.8.11 new features

Dolby DCP-2000/DCP-2K4/ShowVault software v2.8.11 includes new features.

Adds Cyrillic font support for the Dolby CaptiView.

7.2 Dolby DCP-2000/DCP-2K4/ShowVault software v2.8.11 bug fixes

Dolby DCP-2000/DCP-2K4/ShowVault software v2.8.11 includes bug fixes.

- Fixed an issue that caused a three frame delay in dual server Chase mode.
- Fixed an issue that caused incorrect audio mapping for an Interop DCP.
- Fixed an issue that prevented subtitles from appearing occasionally after a boot.
- Fixed an issue with memory leaks in S430-10 protocol support.
- Fixed an issue that prevented Auro from working properly.

7.3 Dolby DCP-2000/DCP-2K4/ShowVault software v2.8.11 known issues

Dolby DCP-2000/DCP-2K4/ShowVault software v2.8.11 has issues that are known to cause problems. Where applicable, suggested workarounds are provided.

Issue 1

Some macros set at the end of a clip fire at the incorrect time for an intermission playlist.

Issue 2

In certain cases, playback does not work properly when attaching a marker after the intermission playlist.

Issue 3

The NAS feature is not supported in this software version. An icon is present in the **Control Panel** for NAS management, but it should not be used.

8 Dolby DCP-2000/DCP-2K4/ShowVault software v2.8.9 release notes

Dolby DCP-2000/DCP-2K4/ShowVault software v2.8.9 includes bug fixes, other improvements, and known issues.

Dolby DCP-2000/DCP-2K4/ShowVault software v2.8.9 requires the dcp2000_install-2.8.9-0.pkg package.

8.1 Dolby DCP-2000/DCP-2K4/ShowVault software v2.8.9 bug fixes

Dolby DCP-2000/DCP-2K4/ShowVault software v2.8.9 includes bug fixes.

- Fixed multiple issues with subtitles.
- Fixed an issue that made an intermission playlist unintentionally available for live content.
- Fixed an issue when two intermission playlists were attached to two of the same composition playlists (CPLs).
- Fixed an issue that prevented a Dolby Atmos CPL from loading properly.
- Fixed an issue with playback when skipping a CPL.
- Fixed an issue that prevented playback of encrypted content if the video and audio files were plain text.
- Fixed an issue with a CPL that contained one underscore in the title.
- Fixed an issue with virtual clips in the **Content Manager** window.
- Fixed an issue that crashed the **Content Manager** window.
- Fixed an issue with the initialization scripts system by moving the scripts out of the rcS directory.
- Fixed an issue with missing Dolby Atmos CPL memory leaks.
- Fixed an issue with the general purpose output (GPO) watchdog and alternative content.
- Fixed an issue that crashed the subtitles when two consecutive empty reels were present in a CPL.
- Fixed an issue when switching from H.264 StreamIt 1080p stream to 720p (which was part of accumulated updated v2.6.4).
- Fixed an issue with log polling for the Security Manager (SM).

- Fixed an issue with the invalid certificate type check for an MPEG KDM.
- Fixed an issue with the `harddiskstatus` value for several occurrences of the same smart name.
- Fixed an issue with pull-down frame rate clips.
- Fixed an issue that crashed the system kernel when the SM rebooted several times.
- Fixed an issue with the sanity check warning for Dolby Atmos aux data tracks.
- Fixed an issue with the `theodeticsd` system recovery.
- Fixed an issue that prevented the ingest of content with American Standard Code for Information Interchange (ASCII) file names.
- Fixed an issue with CPL deletion and related aux data track `.mxf` and index files.
- Fixed an issue with the DCP scan for long file names.
- Fixed an issue with the `GetCPLPlayStats` command that returned results with null universally unique identifier.
- Fixed an issue with the `GetCPLPlayStat` command and null UUID or unknown UUID.
- Fixed an issue that occasionally interrupted the automation loop for playback.
- Fixed an issue with `<PackingList>false</PackingList>` in an asset map for a DCP.
- Fixed an issue with occasional mute audio in certain cases.
- Fixed an issue with the reinitialization of a locked database at startup.

8.2 Dolby DCP-2000/DCP-2K4/ShowVault software v2.8.9 other improvements

Dolby DCP-2000/DCP-2K4/ShowVault software v2.8.9 includes other improvements.

- Added a Dolby Atmos property bit in the `GetCPL2` command response.
- Added a **Jump to this CPL** button for playback in CineLister.
- Added a **Skip to ShowPlaylist Marker** macro feature in the **Macro Editor** window.
- Added an **Audio Mute** macro feature in the **Macro Editor** window.
- Added a projector device to the **Signal Source** list in the **Macro Editor** window.
- Improved support for duplicating macros and triggers in the **Macro Editor** window.
- Added Dolby CP650, Dolby CP750, and Dolby CP850 cues in the `/doremi/etc/cueslib` directory.
- Added support for the Supermicro X10SLH motherboard.
- Added a web UI.
- Added support for progressive segmented frame (PsF) mode in the **Device Controller**.
- Added a warning message about playing a CPL that references a missing auxiliary data track.
- Added a `GetCPL2` command, which returns the number of assets per CPL.
- Added support for pull-down frame rates.
- Added a `ShowElementsUpdate` command to dynamically enable or disable the playback element.
- Added support for sending SMPTE standard subtitles to a Series-1 projector with Arm Main application version 15.01 or later.
- Removed the need for a Dolby License Message (DLM) to support Dolby Atmos.
- Improved support for the Portuguese language.

- Improved support for independent audio channel labeling for ingest operations.
- Improved support for independent audio channel labeling for playback.
- Improved support for a Chase mode SPL.

8.3 Dolby DCP-2000/DCP-2K4/ShowVault software v2.8.9 known issues

Dolby DCP-2000/DCP-2K4/ShowVault software v2.8.9 has issues that are known to cause problems. Where applicable, suggested workarounds are provided.

Issue 1

Some macros set at the end of a clip fire at the incorrect time for an intermission playlist.

Issue 2

In certain cases, playback does not work properly when attaching a marker after the intermission playlist.

Issue 3

An Interop DCP is recognized as having only eight channels. As a result, only the first eight channels are outputted by the media block (MB) when any audio mapping is enabled on the server side. Disabling the audio mapping on the server makes all channels available.

Issue 4

An issue occurs with three-frame delay on the secondary server while in dual server Chase mode. Dolby DCP-2000/DCP-2K4/ShowVault software v2.8.9 is not recommended for dual server installations using Chase mode.

Issue 5

An issue may occur on boot-up where a process does not start. In this state, the subtitle engine does not function. The workaround is to reboot the server.

9 Documentation revision history

The documentation revision history lists the date, issue number, and description of all publications of the Dolby DCP-2000/DCP-2K4/ShowVault software release notes.

Date	Issue	Description
12 December 2016	1	Release notes added for software v2.8.11
16 December 2016	2	Added known issue for software v2.8.11
21 July 2017	3	Release notes added for software v2.8.16
04 January 2018	4	Release notes added for software v2.8.18
27 March 2018	5	Release notes added for software v2.8.19
22 May 2018	6	Release notes added for software v2.8.20

Glossary

1080p

See [full high definition](#).

API

Application programming interface. A set of functions that can be used to access the functions of an operating system or other type of software.

ASCII

American Standard Code for Information Interchange.

CPL

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

DCP

Digital Cinema Package. A packing list (PKL) file and all of the files that it references.

DLM

Dolby License Message.

FTP

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

GUI

Graphical user interface.

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.

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.

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.

intermission playlist

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

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.

PsF

Progressive segmented frame. A method for acquiring, storing, modifying, and distributing progressive scan images through the same equipment and media that are used for interlaced video.

MB

Media block. A hardware device that converts packaged feature film content into streaming data and then delivers the data to the projector.

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.

MIB

Management information base. A type of communications network management database.

NAS

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

RAID

Redundant array of independent disks.

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.

SMART

Self-Monitoring, Analysis, and Reporting Technology. A system that monitors disk drive status, with the goal of anticipating and reporting drive failures.

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.

VESA

Video Electronics Standards Association.

UI

User interface.

UUID

Universally unique identifier. A 128-bit string used to identify a software component.

USB

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

XML

EXtensible Markup Language.

UUID

Universally unique identifier. A 128-bit string used to identify a software component.

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