



# Dolby IMB SM Release Notes

Release v5.1.115  
21 February 2019

## 1 Introduction

This documentation provides the release notes and update procedure for the Dolby IMB Security Manager (SM).

### Contacting Dolby

Contact Dolby Cinema Solutions and Support

- Send an email to [cinemasupport@dolby.com](mailto: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](http://www.dolbycustomer.com).

#### Submit feedback about this documentation

Send an email to [documentation@dolby.com](mailto:documentation@dolby.com).

## 2 Updating the Dolby IMB SM


You can update the Dolby IMB SM using the **Ingest Manager**, Dolby ShowVault web user interface (UI), or File Transfer Protocol (FTP).

- [Update overview](#)
- [Updating the Dolby IMB SM using the Ingest Manager](#)
- [Updating the Dolby IMB SM using the Dolby ShowVault web UI](#)
- [Updating the Dolby IMB SM using FTP](#)

### 2.1 Update overview

Before you can update the Dolby IMB SM, you must obtain an SM package and a Dolby License Message (DLM) from Dolby.

Each DLM package requires the serial number for the Dolby IMB. All files are available on [service@ftp.cinema.dolby.com](mailto:service@ftp.cinema.dolby.com). For FTP credentials, contact Dolby Cinema Solutions and Support.

 **Note:** If your Dolby IMB was received with Dolby IMB SM v5.1.115, we recommend that you do not downgrade to a previous SM version. Downgrading to a previous SM version may cause performance issues.

## 2.2 Updating the Dolby IMB SM using the Ingest Manager

You can update the DLM and SM packages using the Dolby ShowVault **Ingest Manager Upload** feature.

### Prerequisites

You have received the SM package and DLM from Dolby.

### Procedure

1. Download both the DLM and SM packages, and then save them onto a Universal Serial Bus (USB) flash drive.
2. Insert the USB flash drive into the Dolby ShowVault.
3. In the **Ingest Manager** window, click the DLM package first, and then click **Ingest**.
4. In the **Ingest Manager** window, click the SM package, and then click **Ingest**.
5. Reboot the Dolby ShowVault.

Both the DLM and SM packages install in the background.

### Results

You are now ready to use the Dolby IMB SM.

## 2.3 Updating the Dolby IMB SM using the Dolby ShowVault web UI

You can update the DLM and SM packages using the Dolby ShowVault web UI.

### Prerequisites

You have received the SM package and DLM from Dolby.

### Procedure

1. Download both the DLM and SM packages, and then save them onto your computer.
2. Open a web browser and enter the IP address for your Dolby ShowVault.
3. On the Dolby ShowVault web UI, click **Control**, click **Ingest Manager**, and then click **Upload**.
4. Click **Choose Files** and click the DLM package first.
5. Click **Upload**.
6. Click **Choose Files** again and click the SM package.
7. Click **Upload**.
8. Reboot the Dolby ShowVault.

Both the DLM and SM packages install in the background.

### Results

You are now ready to use the Dolby IMB SM.

## 2.4 Updating the Dolby IMB SM using FTP

You can update the DLM and SM packages using FTP.

### Prerequisites

You have received the SM package and DLM from Dolby.

### Procedure

1. After you receive the DLM and Dolby IMB SM packages, open an FTP client from your computer.
2. Enter the IP address for your Dolby ShowVault. Then log in as admin.
3. Click the DLM first and upload it to the `/incoming` directory on your Dolby ShowVault.
4. Click the SM package and upload it to the `/etc/rc.once` directory on your Dolby ShowVault.
5. Reboot the Dolby ShowVault.  
Both the DLM and SM packages install in the background.

### Results

You are now ready to use the Dolby IMB SM.

## 3 Dolby IMB SM v5.1.115 release notes

Dolby IMB SM v5.1.115 includes bug fixes. This release requires the `dcp2000_imb_sm-5.1.115.pkg` package.

### 3.1 Dolby IMB SM v5.1.115 bug fixes

Dolby IMB SM v5.1.115 includes bug fixes.

Fixed an issue where the image briefly flashed when switching between 24 fps and 25 fps content.  
[DCPLYR-4996]

## 4 Dolby IMB SM v5.1.114 release notes

Dolby IMB SM v5.1.114 includes new features. This release requires the `dcp2000_imb_sm-5.1.114.pkg` package and server software v2.8.20 or greater with `dcp2000_sw_hotfix_accumulated_updates_2.8.20-1.0.0.pkg`.

### 4.1 Dolby IMB SM v5.1.114 new features

Dolby IMB SM v5.1.114 includes new features.

Adds uboot v2.0.7 in the partial SM packages for the Dolby IMB. Previously, this binary was only installed in production. Uboot facilitates the integrated media block (IMB) boot process.  
[DCPLYR-5374]

## 5 Dolby IMB SM v5.1.112 release notes

Dolby IMB SM v5.1.112 includes bug fixes. This release requires the `dcp2000_imb_sm-5.1.112.pkg` package.

## 5.1 Dolby IMB SM v5.1.112 bug fixes

Dolby IMB SM v5.1.112 includes bug fixes.

Fixed an issue where a composition playlist (CPL) signed with an unsigned 64 bit long serial number certificate was rejected for playback. [DCPLYR-4868]

# 6 Dolby IMB SM v5.1.111 release notes

Dolby IMB SM v5.1.111 includes bug fixes and other improvements. This release requires the dcp2000\_imb\_sm-5.1.111.pkg package.

- [Dolby IMB SM v5.1.111 bug fixes](#)
- [Dolby IMB SM v5.1.111 other improvements](#)

## 6.1 Dolby IMB SM v5.1.111 bug fixes

Dolby IMB SM v5.1.111 includes bug fixes.

- Fixed an issue where the DLM that was not yet valid appeared as expired when ingested into the server. [DCPLYR-3133]
- Fixed an issue where the system could not decipher encrypted timed text without keyed-hash message authentication code (HMAC). [DCPLYR-3134]
- Fixed an issue where Dolby 3D color calibrations were not applied in the Dolby IMB firmware v30.11a and v30.11b. [DCPLYR-4110]
- Fixed the external input degamma to follow the ITU-R BT.1886 recommendation for HDMI and serial digital interface (SDI) input. [DCPLYR-4051]
- Fixed an issue where changing the HDMI/SDI degamma in device controller returned an error. [DCPLYR-4465]

## 6.2 Dolby IMB SM v5.1.111 other improvements

Dolby IMB SM v5.1.111 includes other improvements.

Updated command line **sbcsetup --get-status** to display Dolby instead of Doremi for the watermark technology. [DCPLYR-3137]

# 7 Dolby IMB SM v5.1.110 release notes

Dolby IMB SM v5.1.110 includes new features and bug fixes. This release requires the dcp2000\_imb\_sm-5.1.110.pkg package.

- [Dolby IMB SM v5.1.110 new features](#)
- [Dolby IMB SM v5.1.110 bug fixes](#)

## 7.1 Dolby IMB SM v5.1.110 new features

Dolby IMB SM v5.1.110 includes new features.

Removes the requirement for the 4K enablement. This feature requires software v2.8.16 or above. [DCPLYR-3100]

## 7.2 Dolby IMB SM v5.1.110 bug fixes

Dolby IMB SM v5.1.110 includes bug fixes.

- Fixed an issue where too many stored DLMs in the SM caused the SM to go undetected. [DCPLYR-2812]
- Fixed an issue where the real-time clock (RTC) driver returned an error when used by another application. [DCPLYR-2942]
- Fixed an issue with the RGB709 to XYZ matrix that required updating the csc.xml v1.3 to match RP177 Annex B.
- Updated the driver on the Dolby IMB to support the new hardware revision with the Spansion S29GL512T10FHI020 and Cypress Semiconductor S29GL512T10FHI02 memory module. [DCPLYR-3080]

# 8 Dolby IMB SM v5.1.108 release notes

Dolby IMB SM v5.1.108 includes bug fixes and other improvements. This release requires the dcp2000\_imb\_sm-5.1.108.pkg package.

- [Dolby IMB SM v5.1.108 bug fixes](#)
- [Dolby IMB SM v5.1.108 other improvements](#)

## 8.1 Dolby IMB SM v5.1.108 bug fixes

Dolby IMB SM v5.1.108 includes bug fixes.

- Fixed an issue with the link decryptor displaying snow after several hours of playback.
- Fixed an issue that caused loss of Dolby Atmos audio when a connection to a Dolby Atmos Cinema Processor CP850 was lost during playback.
- Fixed an issue that resulted in incorrect Dolby 3D color calibration with the Dolby IMB.

## 8.2 Dolby IMB SM v5.1.108 other improvements

Dolby IMB SM v5.1.108 includes other improvements.

Updated the HDMI Extended Display Identification Data (EDID).

# 9 Documentation revision history

The documentation revision history lists the date, issue number, and description of all publications of the Dolby IMB SM Release Notes.

Date	Issue	Description
29 April 2016	1	Release notes added for Dolby IMB SM v5.1.108.
7 July 2016	2	More release notes added for Dolby IMB SM v5.1.108.

Date	Issue	Description
12 July 2016	3	Modification made to the release notes for Dolby IMB SM v5.1.108.
13 September 2017	4	Release notes added for Dolby IMB SM v5.1.110.
26 September 2017	5	Modification made for Dolby IMB SM v5.1.110 installation process.
15 May 2018	6	Release notes added for Dolby IMB SM v5.1.111.
17 July 2018	7	Release notes added for Dolby IMB SM v5.1.112.
07 January 2019	8	Release notes added for Dolby IMB SM v5.1.114.
21 February 2019	9	Release notes added for Dolby IMB SM v5.1.115.

## Glossary

### CPL

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

### DLM

Dolby License Message.

### EDID

Extended Display Identification Data. A data structure, standardized by the Video Electronics Standards Association, which enables a sink device to inform the host device about its identity and capabilities.

### FTP

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

### fps

Frames per second. The number of unique consecutive images (frames) an imaging device produces in one second.

### HDMI

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

### HMAC

Keyed-hash message authentication code. An algorithm for message authentication using cryptographic hash functions that is specified by the National Institute of Standards and Technology (NIST) (FIPS PUB 198-1).

### IMB

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

### 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.

**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.

**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.

**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.

**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.

**XYZ**

XYZ color space.

## Copyright

© 2019 Dolby Laboratories. All rights reserved.

**Dolby Laboratories, Inc.**

1275 Market Street

San Francisco, CA 94103-1410 USA

Telephone 415-558-0200

Fax 415-645-4000

<http://www.dolby.com>

## Trademarks

Dolby and the double-D symbol are registered trademarks of Dolby Laboratories.

The following are trademarks of Dolby Laboratories:

Dialogue Intelligence™

Dolby®

Dolby Advanced Audio™

Dolby Atmos®

Dolby Audio™

Dolby Cinema™

Dolby Digital Plus™

Dolby Digital Plus Advanced Audio™

Dolby Digital Plus Home Theater™

Dolby Theatre®

Dolby Vision™

Dolby Voice®

Feel Every Dimension™

Feel Every Dimension in Dolby™

Feel Every Dimension in Dolby Atmos™

MLP Lossless™

Pro Logic®

Surround EX™

Dolby Home Theater®

All other trademarks remain the property of their respective owners.

## **Patents**

THIS PRODUCT MAY BE PROTECTED BY PATENTS AND PENDING PATENT APPLICATIONS IN THE UNITED STATES AND ELSEWHERE. FOR MORE INFORMATION, INCLUDING A SPECIFIC LIST OF PATENTS PROTECTING THIS PRODUCT, PLEASE VISIT <http://www.dolby.com/patents>.