doremi

Technology Leadership
for Digital Cinema

D C P - 2 0 0 0

DIGITAL CINEMA SERVER

Software Release Notes

Version 4.6

The English version of this document is the only legally binding version. Translated versions are not legally binding and are for convenience only.

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1 Introduction

1.1 Purpose

This document provides the Release Notes for the DCP-2000 software.

1.2 Presentation

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1.3 Contact Information

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2 2.6.x Release Notes

2.1 Software Version 2.6.3

This section provides the Release Notes for the DCP-2000 software version 2.6.3, generated on January 29, 2014.

2.1.1 Recommendation

This software version is necessary to support Atmos. It is for usage in DCP-2000, DCP-2K4 and ShowVault with single IMB only.

2.1.2 Change Log

Atmos
Bug Fixes
Fix possible segfault
Failure to read large Atmos AuxData
Fix potential lockup
Memory leak when changing AuxData MXF file
Failure to play 2 reels with same AuxData MXF and entrypoint
Playback failing with black pattern
Not working with 3D content
Memory corruption when loading show
Not support Edit rate higher than 30
AuxData is streamed even though Feature is not active
Failure to play Atmos clip after a none Atmos clip

System
New Features
Update timezone data
Bug Fixes
Fix system time set from the secured RTC
Fix issue with hotplug introduced in 2.5.4 (wait for the next PCI-X not called anymore)

Playback Engine
Bug Fixes
Macro attached to a Live are always executed at timecode 0
Multiple marker "EXIT_INTERMISSION" support
Fix issue with exit from intermission
Crash if a SPL reference an external SPL with empty pack

API
Bug Fixes
Crash if a SPL reference an external SPL with empty pack
ShowStatus returns an incorrect UUID for pattern

CineLister
Bug Fixes
Potential crash if there is no showplaylist on the system
Auto refresh not working for showplaylist
Fix button "Ok" in Edit Intermission window

Backup
Bug Fixes
Daily backup doesn't work

drmsignald
Bug Fixes
Potential drop of incoming message

LOG
New Feature
Move threshold.log to alarms.log

SNMP
New Feature
Export alarm when RTC sync with NTP fails

2.1.3 Known Issues

Known issue with dual projector configuration.

2.1.4 System Changes

None.

2.1.5 Compatibility Notes

This update only install on system with 2GB of boot flash.

Once this update is installed, it is not possible to downgrade to a version prior to 2.4.x (unit will not work properly if downgraded).

2.1.6 Installation Notes

None.

2.2 Software Version 2.5.4

This section provides the Release Notes for the DCP-2000 software version 2.5.4, generated on October 18, 2013.

2.2.1 Recommendation

This is a release candidate for software 2.6.x. Only install for testing and validation purposes.

2.2.2 Change Log

System
New Features
Reject unsigned update package
CPL auto removal
Bug Fixes
Fix Daylight Saving Time alarm bug in Russia

SNMP
New Features
Export Dolby Atmos feature support
Create alarm file when invalid boot sequence is detected
Bug Fixes
Does not support reading smart values higher than 32bit

Playback
New Features
Do not active macro until actual playback if a scheduler pre-roll is set
Support Atmos playback
Bug Fixes
Fix random unexpected audio delay value

Backup
Bug Fixes
Fails backup upload when URL does not start with ftp://
No log for failing daily auto backup

API
New Feature

Add API/KLV Login2 introduction

Macro
New Features
Add a playback macro "skipNext" (used to exit live event)
Add macro "lock playback"

Device Manager
New Features
Add support for Dual IMB setup

Subtitle
New Feature
New subtitle engine

Ingest
New Feature
Support Atmos packages

CineLister
New Features
Add Marker support
Add Segment (aka pack) support
Support Intermission

2.2.3 Known Issues

None.

2.2.4 System Changes

None.

2.2.5 Compatibility Notes

This update only install on systems with 2GB of memory.
Once this update is installed, it is not possible to downgrade to a version prior to 2.5.x (unit will not work properly if downgraded).

2.2.6 Installation Notes

None.

3   2.4.x Release Notes

3.1   Software Version 2.4.4

This section provides the Release Notes for the DCP-2000 software version 2.4.4, generated on July 2, 2013.

3.1.1   Recommendation

It is recommended to update all units with 2GB of memory (see Compatibility Section).

3.1.2   Change Log

SNMP
New Features
Add Chase entry in SNMP feature table
Create alarm file for security manager network availability
Create alarm file for SM marriage status
Add Sensio SNMP export
Export Dual IMB capability
Export network status
Export NTP status
Improve ECC memory information export
Raise alarms for KDM issues when loading SPL
Raise alarm when loading an SPL that has a missing CPL
Create alarm when underflow is detected in a show
Create alarm when decoder crash is detected in a show
Warn when DST changes in the next 2 days
Bug Fixes
Auro version SNMP not working
Marriage alarm should be checked every minute
Missing FEATURE_reald-sbs.

Playback Engine
New Features
Do not active macro if a scheduler pre-roll is set until play really starts
Support Dual IMB (firmware selection, HFR/4K selection)
Bug Fixes
Bad audio with JPEG2K 1080p59.94 format
Enable Dolby 3D output for 2D clip in 3D SPL
Chase unable to sync to master
Increase timeout for validate SPB to 30 seconds

Ingest
New Features
Increase max size limit for CPL, PKL and assetmap files
Bug Fixes
Encrypted H264 MXF is detected as MPEG2

Device Manager
New Features
Add support configuration for Dual IMB, for eye selection and Dolby matrix configuration from Device Manager

System
Bug Fixes
Missing log record for software update

CineLister
Bug Fixes
Remove message box on macro execution
KDM not listed in CPL configuration window
HFR check box is truncated in 640x48

Log
Bug Fixes
Incorrect encoding of UTF8 characters
Fix bootup sequence check logfile format

SPL
Bug Fixes
Use SPL title instead of annotation for SPL description

Maintenance
Bug Fixes
Alert raised after installing 2.4.x because of bad RTC

Notification
Bug Fixes
Show pop-up for BackupStatus notifications

Auro
Bug Fixes
Commands cleanup

Information
Bug Fixes
Correctly handle product name with serial number > 240000

ECC
Bug Fixes
Module not working anymore

Audio Map
Bug Fixes
Include DBOX channels in interop MXF audio mapping
Not reconfigured between CPLs

FMLX
Bug Fixes
Change generated auditoriums.xml
Remove screen number in theater property
Use AuditoriumName instead of AuditoriumNumber

Backup
Bug Fixes
Bug fixing the auto backup (the GUI doesn't close and the next backup generated is considered an auto backup.)
Exclude /doremi/etc/maintenance.default from backup
When restoring, ask confirmation before rebooting
Manual backup upload error not detected

3.1.3 Known Issues

None.

3.1.4 System Changes

None.

3.1.5 Compatibility Notes

This update only installs on systems with 2GB of memory.

Once this update is installed, it is not possible to downgrade to a version prior to 2.4.x. (Unit will not work properly if downgraded.)

3.1.6 Installation Notes

None.

3.2   Software Version 2.4.2

This section provides the Release Notes for the DCP-2000 software version 2.4.2, generated on December 4, 2012.

3.2.1   Recommendation

It is recommended to update to this version for ShowVault/IMB systems expected to play HFR (see installation section for more information).

3.2.2   Change Log

System
New Features
Generate a Doremi log record when a package is installed
Display a popup when a package has been installed
Bug Fixes
Fix database integrity check at startup
Fix NTP sync not performed if MediaBlock is not powered up at 6:25AM
Fix flmx tool and other issues when defining projector with unknown vendor

Raid Repair
New Features
None
Bug Fixes
Fix possible partition alignment issue

API
New Features
None
Bug Fixes
Fix LoadSPLProgress returning invalid information in eject state

CineLister
New Features
Remind to select HFR mode in a SPL when adding a HFR content to a SPL
Bug Fixes
Fix projector reported as not connected

Ingest
New Features

None

Bug Fixes

Fix ingesting over a PnGested CPL loses index file

Playback Engine

New Features

None

Bug Fixes

Fix random segmentation fault at hotplug event
Fix audio issue in some pull down frame rate
Fix potential audio issue after "Black 3D 48" pattern

Diagnostic Tool

New Features

Show alternate firmware related informations

Live Manager

New Features

None

Bug Fixes

Fix "HDMI" and "HD-SDI" as live source type

Content Manager

New Features

None

Bug Fixes

Plaintext timedtext MXF always fail sanity check

3.2.3 Known Issues

There are known issues with this release package. These issues will be addressed in subsequent patches and hotfixes.

- FTP transfer that are disconnected are not automatically restarted within 30s.

3.2.4 System Changes

None.

3.2.5 Compatibility Notes

The release breaks compatibility with 2.0.x and previous versions for the scripts started at boot.

It is not recommended to downgrade to 2.0.x or earlier versions.

3.2.6 Installation Notes

Once this update is installed on systems with 2GB of memory, it will not be possible to downgrade directly to a version prior to 2.4.1.

The package *dcp2000_hotfix_hfr-highmen-2.4.2-uninstall.pkg* must be installed before downgrading.

3.3 Software Version 2.4.1

This section provides the Release Notes for the DCP-2000 software version 2.4.1, generated on November 9, 2012.

3.3.1 Recommendation

It is necessary to update to this version for ShowVault/IMB systems expecting to play HFR. It is recommended to update to this version only for ShowVault/IMB systems expecting to play HFR (see compatibility section for more information).

Do not update DCP-2000 or DCP-2K4 servers to this version. There will be a later release for these servers.

3.3.2 Change Log

System
New Features
Program the FPGAs to output 2D and 3D as HFR (requires SM 5.0.27 or higher to be operational) (not working)
Change event id filter support
Resend text periodically on captiview
Add configurable preroll option
Add ShowPlaylist with alternate firmware support
Support ingesting PKG from remote machine
Monitor SM battery replacement
Add auto backup support
Add a backup GUI
Monitor AIR_FILTERS change maintenance operation
Validate newest KDMs first
Support custom CPL audio mapping
CPL deletion protection
Notification Pop-ups: display specific contact information
GUI to control time/date related information
Add a configuration file to enforce package signature
Display an extra error code with each notification
Add support for Video Input and Audio Input virtual assets
Add threshold support for Hard Disk monitoring
Bug Fixes
Unexpected security check failure for KDM with special xml entities
DCP-2000 is stuck at boot after ingesting DOS formatted dlm

False alarm traps for Temperature and voltage for Intel MB
Failed to load a scheduled Show in rare cases
Missing \n in MasterImage cues library file
Broken SNMP properties for primary projector using API/KLV commands
License manager does not support licenses expiring after 2038
Feature broken when remote ftp server denies file renaming
Fix flickering issue with some content
Update DST information for Asia/Africa

SNMP
New Features
Export projector log status in dcpProjectorAlarmTable, send trap
Export primary projector in snmp MIBv2
Generate snmp trap when RTC is lost
Send a SNMP trap when the RAID is back to healthy
NEC series2 support
Send trap for fan events
Send traps for voltage events
Send traps for temperature events
Export NEC dowser position
Export NEC lamp position
Export 4k capability in feature list
Export reald3d capability in feature list
Export dolby3d capability in feature list
Bug Fixes
DCP-2000 feature list status is not good
MIBv1 primary projector errors with IMB powered down
Broken projector lamp, dowser status with MIBv2 since 2.2.3
SNMP feature list does not work with DLM timestamp higher than 2038

API
New Features
Add API QueryLog
Add support for SM and SMS checklists
Export audio delay config file through API

Export projector certificate through API
Add Interop/Smpte type in GetCPLInfo2 API
Add commands to support CPL configuration file
Bug Fixes
GetLogLastId API crash

CineLister
New Features
Notify when a CPL has missing subtitles
Add a "Black 3D 48" pattern
Add a search bar in "Open SPL" dialog
Replace "Stop" with "Eject" in the "Playback" TAB
Multi-select to delete SPL
Automatic refresh of Editor view (up to once per hour)
WYSIWYG "Control" tab editor
Bug Fixes
Schedule view display bug
Do not delete CPL loaded into the editor

Ingest
New Features
Add a search bar in the Scan view
Add extra cpl sanity checks in regard to audio reel presence and length
Wait for SM before ingesting KDM/DLM
Ingest PKG through API
Add support for long GOP (> 48 frames) in ingest index
Bug Fixes
Fails PnGest for share device Path=/assets
Ingest reingest index file if does not match MXF

Playback Engine
New Features
Add support for CPL config file Subtitle parameters
Provide rescaled subtitle playlist to projector
Send aux.xml file to Series-2 projector and sub.xml to Series-1 (configurable in /doremi/etc/0/subtitle_fmt)

Handle 2D 48fps differently than 3D 24 (affects IMB)
Support for Chase
Support HFR (2D 96fps, 2D 100fps, 2D 120fps, 3D 48fps, 3D 50fps, 3D 60fps) (Note 2D 48fps, 2D 50fps, 2D 60fps were already support and are not considered by Doremi as High Frame Rate since there is less than 60frame per second total)
Add 4K SPL mode and HFR SPL submode
Add support of HDMI and HD-SDI live CPL
Bug Fixes
Possible crash when validate a CPL with 3D subtitles
Send same frame twice on pause for 2D HFR content
Incorrect PCI audio mapping configuration for first frames
Reports crypted CPLs as not encrypted

Subtitle
New Features
Handle font Id case insensitive
Use opposite ZOffset for SMPTE content
Bug Fixes
Interop subtitle spanning over multiple reel (MI4)
The shadow is not smooth

Diagnostic Tool
New Features
Purge projector log from 0 to 0x7fffffff to fix a TI bug
Support exporting reports on an FTP server
Display primary projector security log status in Media Block tab

Audio Mapping
New Features
Add a passthrough template
Support audio config 4 and 5
Support D-BOX motion code audio channels
SMPTE config1 and "no config" should be considered the same
Mute channels that are not mapped when routing audio channels
Add support for audio channel data bit

Bug Fixes
None

Device Manager
New Features
Hide "Reald3D" device if no license available
Bug Fixes
Revert to use of TCP port for control Dolby DFC
jnior failure to parse concatenated packets
Loaded Reald3D LUT matrix cannot be deleted

CaptiView
New Features
None
Bug Fixes
Display precedence

Macro Editor
New Features
Create a Rewind macro
Bug Fixes
Possible crash if the "setting" button is clicked

Install
New Features
Delete old database before starting a migration
Bug Fixes
None

FLMx
New Features
Add FLMx support
Add FLMx auto config file cleanup
Configuration/generation GUI
Add FLMx related API commands
Create cron job to update device informations from system state

Add GUI allowing to edit theater related information
Bug Fixes
None

3.3.3 Known Issues

There are known issues with this release package. These issues will be addressed in subsequent patches and hotfixes.

- H264 and VC1 clips do not play properly.
- MAC OS X formatted USB drives will not be mounted properly.
- FTP transfer that are disconnected are not automatically restarted within 30s.
- Potential Audio issue in a 3D 48fps content following a 3D 48 Black pattern.

3.3.4 System Changes

None.

3.3.5 Compatibility Notes

The release breaks compatibility with 2.0.x and previous versions for the scripts started at boot.

It is not recommended to downgrade to 2.0.x or earlier versions.

3.3.6 Installation Notes

None.

4 2.2.x Release Notes

4.1 Software Version 2.2.5

This section provides the Release Notes for the DCP-2000 software version 2.2.5, generated on May 31st, 2012.

4.1.1 Recommendation

Due to important bug fixes, Doremi strongly encourages all users with an older software version to upgrade. This release installs a new Linux kernel. This kernel supports PCIe hot plug event ONLY on units fitted with SuperMicro motherboard (with the latest DCP-2000 operating system - Debian 4.0).

<u>CAUTION:</u> As of version 1.0.x, a major change in the Storage of the Ingested media was implemented. Upgrading from versions prior to 1.0.x will result in a migration. Please refer to the notes for version 1.0.1 for further information.

4.1.2 Change Log

System
New Features
Add Advanced projector security log control
Send trap for voltage events

PNgest
New Features
Add constraint for proper edit rate information for 3D clip. If PNgest is attempt from a unit (source of the clip to play) that had the 3D clip ingested with an old software not containing proper edit rate information, the playback will be refused.

Caption
Bug Fixes
Fix "idle" or "no content" no showing on receiver after receiver is turned on
Fix caption might takes 60 seconds to be ready

Subtitle
Bug Fixes
Fix issue with Interop subtitle spanning over multiple reel (MI4)
Subtitle black box issue
Fix of some png rendering

System
Bug Fixes
drmmcastd can be started twice per Ethernet interface
Fixed memory leak when refreshing projector SNMP values

SNMP
Bug Fixes
Fix Incorrect SM version reported in SNMP for setup with Dolphin DCI 1.2 with firmware 21.2
MIBv2 dcpSENPowerTable does not report RTC battery

Diagnostic
Bug Fixes
Fix booting device model and description are inverted

Macro
Bug Fixes
Fix missing "\n" in MasterImage library

Device
Bug Fixes
Use UDP to control DFC100 instead of TCP

Playback Engine
Bug Fixes
LoadSPL does not stop current show
Fix audio delay between 2D and 3D
Wrong "Video input changed" message
Fix audio delay conversion from frame to milliseconds
Crash when scanning files with % character
Fix unexpected show stop when clips are less than 5s

CineLister
Bug Fixes
Fix too many opened file descriptors

Bug in GetKDMInfo API could lead to unexpected KDM warning

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4.1.3 Known Issues

CineLister freezes when the "Refresh" button is clicked while the unit is ingesting content.

4.1.4 System Changes

None.

4.1.5 Compatibility Notes

The release breaks compatibility with 2.0.x and previous versions for the scripts started at boot.

It is not recommended to downgrade to 2.0.x or earlier versions.

4.1.6 Installation Notes

It is recommended for users with a very old setup (0.4.8-x and prior) to upgrade to software 0.5.2-18 SP1 before upgrading to this release.

For a unit with Dolphin DCI v1.2 using a 21.2x firmware to connect properly to a Serie2 projector, a extra reboot is necessary after the software 1.2.1 has been installed.

CAUTION: DO NOT INTERRUPT the Installation process as it is migrating data. Interruption of installation process during migration of content might lead to a loss of data.

CAUTION: If you need to downgrade to software version older than 1.0.0, you need:

- to install the older software on the unit

- to re-init the RAID: *Type*: **sh /doremi/sbin/reinit_raid.sh**   <enter>

- to re-ingest all content on the unit

4.2 Software Version 2.2.3

This section provides the release notes for the DCP-2000 software version 2.2.3, generated on October 18th, 2011.

4.2.1 Recommendation

Due to important bug fixes, Doremi strongly encourages all users with an older software version to upgrade.

This release installs a new Linux kernel. This kernel supports PCIe hot plug event ONLY on units fitted with SuperMicro motherboard (with the latest DCP-2000 operating system - Debian 4.0).

CAUTION: As of version 1.0.x, a major change in the Storage of the Ingested media was implemented. Upgrading from versions prior to 1.0.x will result in a migration. Please refer to the notes for version 1.0.1 for further information.

4.2.2 Change Log

System
New Features
Configuration file to revert to old screen saver behavior
Configuration file to disable/enable the screensaver

Sony
New Features
Macro for Sony 2K 48fps output selection (SET_SONY_FORMATTER_2K_48FPS_VIDEO_MODE)
Prevent setting saving if pattern mode is on
Reset lamp timer enabled only when SN is changed

Log
Bug Fixes
Include the end date in the generate log report file name

Ingest
Bug Fixes
Fix memory leak for each ingest job run
Fix leak when scanning content to ingest
Fix scan remote dcp2000 playlists
Fix crash when pressing delete button several times
Fix ingest GUI scanned assets does not match filter value

4.2.3 Known Issues

CineLister freezes when the "Refresh" button is clicked while the unit is ingesting content.

4.2.4 System Changes

None.

4.2.5 Compatibility Notes

The release breaks compatibility with 2.0.x and previous versions for the scripts started at boot.

It is not recommended to downgrade to 2.0.x or earlier versions.

4.2.6 Installation Notes

It is recommended for users with a very old setup (0.4.8-x and prior) to upgrade to software 0.5.2-18 SP1 before upgrading to this release.

For a unit with Dolphin DCI v1.2 using a 21.2x firmware to connect properly to a Serie2 projector, a extra reboot is necessary after the software 1.2.1 has been installed.

CAUTION: DO NOT INTERRUPT the Installation process as it is migrating data. Interruption of installation process during migration of content might lead to a loss of data.

CAUTION: If you need to downgrade to software version older than 1.0.0, you need:

- to install the older software on the unit
- to re-init the RAID: *Type*: **sh /doremi/sbin/reinit_raid.sh**   <enter>
- to re-ingest all content on the unit

4.3   Software Version 2.2.2

This section provides the release notes for the DCP-2000 software version 2.2.1, generated on August 1st, 2011.

4.3.1   Recommendation

Due to important bug fixes, Doremi strongly encourages all users with an older software version to upgrade.

This release installs a new Linux kernel. This kernel supports PCIe hot plug event ONLY on units fitted with SuperMicro motherboard (with the latest DCP-2000 operating system - Debian 4.0).

<u>CAUTION:</u> As of version 1.0.x, a major change in the Storage of the Ingested media was implemented. Upgrading from versions prior to 1.0.x will result in a migration. Please refer to the notes for version 1.0.1 for further information.

4.3.2   Change Log

CineLister
New Features
Call a predefined macro automatically when a playback button is pressed
Bug Fixes
Playback recovery does not work with IMB 1.9.x
Crashes while scanning a USB drive

Notification Engine
New Features
Generate event notification when SM RTC is not valid
Bug Fixes
None

Ingest Manager
New Features
None
Bug Fixes
ASSETMAP with empty AnnotationText are not displayed
Freezes when resizing description column in Monitor tab

Media Block
New Features
None
Bug Fixes
Showvault freezes when IMB is powered off or disconnected.

Sony Library
New Features
None
Bug Fixes
Add support for save / erase function
Button set lamp serial enabled when lamp is off
Save settings when function is renamed/saved
4K macros not working with Sony projectors.

JNior
New Features
None.
Bug Fixes
Driver may disconnect unexpectedly

SNMP
New Features
None.
Bug Fixes
Disabling a device does not remove SNMP entries
SNMP OIP value not refreshed

4.3.3 Known Issues

CineLister freezes when the "Refresh" button is clicked while the unit is ingesting content.

4.3.4 System Changes

None.

4.3.5 Compatibility Notes

The release breaks compatibility with 2.0.x and previous versions for the scripts started at boot.

It is not recommended to downgrade to 2.0.x or earlier versions.

4.3.6 Installation Notes

It is recommended for users with a very old setup (0.4.8-x and prior) to upgrade to software 0.5.2-18 SP1 before upgrading to this release.

For a unit with Dolphin DCI v1.2 using a 21.2x firmware to connect properly to a Serie2 projector, a extra reboot is necessary after the software 1.2.1 has been installed.

CAUTION: DO NOT INTERRUPT the Installation process as it is migrating data. Interruption of installation process during migration of content might lead to a loss of data.

CAUTION: If you need to downgrade to software version older than 1.0.0, you need:

- to install the older software on the unit

- to re-init the RAID: *Type*: **sh /doremi/sbin/reinit_raid.sh**   <enter>

- to re-ingest all content on the unit

4.4   Software Version 2.2.1

This section provides the release notes for the DCP-2000 software version 2.2.1, generated on June 23rd, 2011.

4.4.1   Recommendation

Due to important bug fixes, Doremi strongly encourages all users with an older software version to upgrade.

This release installs a new Linux kernel. This kernel supports PCIe hot plug event ONLY on units fitted with SuperMicro motherboard (with the latest DCP-2000 operating system - Debian 4.0).

CAUTION: As of version 1.0.x, a major change in the Storage of the Ingested media was implemented. Upgrading from versions prior to 1.0.x will result in a migration. Please refer to the notes for version 1.0.1 for further information.

4.4.2   Change Log

CineLister
New Features
Recovers from power outage and resumes playback even if the Show Playlist was not saved.
Displays additional CPL features that include 3D, subtitle, and Closed Caption in the CPL property dialog.
Configurable start of the week in the Scheduler tab.
Displays leading and trailing characters for long CPL name.
Filter player elements in the Editor tab in Search Tool.
Displays current position, duration, and remaining time of the current CPL and of the entire Show.
Displays current timecode in "Locate Time Code" window.
Displays "Elapsed Time" if user clicks on ShowPlaylist "Remaining Time."
Adds visual indication icon for 3D clips in the CPL list.
Adds Control tab for the cues (optional with user-defined configuration).
Bug Fixes
Translated "Week" text in Scheduler tab.
Gets stuck when loading an SPL with only a trigger.
Freezes when saving an SPL while the KDM is ingesting.
KDMs not checked if matching media block electronic serial number.
Open, save, and cleanup dialogs crash if no SPL is available.
Not displaying CPL and KDM names during load show.

Macro/Macro Editor GUI
New Features
Adds "Skip to ShowPlaylist Pack" in "Playback Actions" cue.
Renames "Play all clips at 48fps" cue with "Match 3D output."
Adds "Match Jpeg 2D output" in VideoOutput cue.
Removes Barco hardcoded preset.
Bug Fixes
Removed "SDI-In" from "Video Output Action" (it was there for debug purposes only).
Renamed technical video output cue (for ease of understanding).
Missing entries in Media Block.
Fixed a potential crash with macro cue "RecueShow."

SNMP
New Features
Supports netmap share option.
Exports Christie projector SNMP values into dcp2000 SNMP tree.
Raises alarm if Security Manager (SM) is running in rescue mode.
Adds SM RTC related SNMP values.
Exports next DST and timezone information in SNMP.
Reverts debian sarge /etc/init.d/snmpd modifications.
Adds SNMP command to retrieve media block battery voltage.
MIB v2 stored into /doremi/etc/snmp/.
Makes the information of projectors configured in Device Manager available in SNMP.
Adds Doremi SNMP trap manager.
Deletes /usr/share/snmp/mibs/DOREMI-MIB.txt.
Copy /doremi/etc/doremi-mib.mib into /usr/share/snmp/mibs/doremi-mib.mib.
Bug Fixes
Swap SE7221 "CPU Fan" and "Serverboard Fan1" OIDs.
Export UDMA raw value instead of normalized value.
Multi-worded disk model is truncated in SNMP values.
Raw file created only for primary projector.
5 minute SNMP values refresh fails.
Generated AudioWatermark SNMP OID file misses trailing 0.
Incorrect firmware/serial SNMP values for IMB.

Content Manager
New Features
New Doremi Content Manager application to manage content (CPL/KDM/SPL/etc.) on the player.
Bug Fixes
None

Device Controller GUI
New Features
New Doremi Device Controller application for devices (e.g., Sony, IMB-SA).
Bug Fixes
None

Log / Log Manager GUI
New Features
Automatic uploads of player's logs, configurable in Doremi Log Manager in the Control Panel.
Renames "Doremi" to "System (Doremi)" and "SMPTE" to "Security (SMPTE)" in the Export window. New System logs including Performance and Maintenance.
Bug Fixes
Dumped logs during playback breaks for playback progression.
Fixed crash if the media block is powered off.
Printed hostname in DeviceName element of the log report and print DCP2000 in ModelNumber element.
Identify latest SM log folder.

Diagnostic Tool GUI
New Features
Added Media Block tab to monitor projector and SM status.
Pre-pend "e-" to serial number.
Set rights to "manager" for "disk cleanup," which was previously "admin."
Displays next DST and timezone.
Displays disk capacity in gigabyte units.
Added drive status text in Storage tab.
Displays hostname in the GUI.
Displays SM version even for DCI 1.2 lowcap.
Displays chassis S/N, if available.
Starts a RAID maintenance operation every week.
Bug Fixes
UTC offset is not correct.
Display incorrect max RTC adjustment.
Fix Storage tab with less than 3 SATA drives.
RAID analysis does not warn user if RAID is degraded.
Display storage used space in bytes.
Display invalid information if the drive is offline.
In Repair dialog, replace "data" with "data/content" in the "Reinitialize" comment area.
Change text color for missing SM version.

Device Manager
New Features
Added configurable text for caption device to display when no caption is available.
Added support for 4K projector (Christie and Barco).
Support for Sony SRX projector with IMB- Single and Dual projector configuration.
Set CaptiView auditorium ID up to 32 instead of 19.
Automatically create an "Integrated Media Block" raw device.
Bug Fixes
Didn't start when SM is detected.
Serial gateway: fix invalid data sent if binary data finish by one or more 0x0.

Content Feed Manager
New Features
Added the new Doremi Content Feed Manager application in the Control Panel to allow user to graphically edit the configuration file /doremi/etc/netmap.xml.
Added text entry to enter remote FTP directory to handle ShowVault and DC-Post products.
Bug Fixes
None

Log Operator Maintenance
New Features
Added new Doremi Log Operator Maintenance GUI in the Control Panel.
Bug Fixes
None

Ingest/Ingest Manager GUI
New Features
Supports ingesting KDM/DLM in zip files.
Added visual indication for 3D clips in list.
Rejects Standard Definition (SD) content.
Rejects MPEG MXF with odd number of pixels.
Bug Fixes
Fails to ingest JP2K MXF without DeltaEntryArray.
Aborts if indexing fails.
Ingest Manager GUI does not detect all ingestable assets.
Reschedules ingests indefinitely.
Schedules ETM ingest while file is not complete.
Fails to detect content recopied in /data/incoming.
Displays KDM AnnotationText instead of ContentTitleText.
Allows ingesting even though /opt is not writable.
Displayed trailing characters for long CPL name.
Bad scheduled start date for new ingest tasks.
Selected files not scheduled for ingest.
Does not implement netmap filters.
Prompt several times for a login.
Displays full package filename and path.
Does not filter bad serial number kdm/dlm.
Fails to ingest package.
Always prompts for a login even though user is "root."
Ingest job never ends.

System
New Features
Includes enhanced RAID kernel module.
Includes Audio Configuration GUI in Control Panel.
Stores dcp2000 targeted ingested DLMs in SM.
Added support of USB drive formatted on Mac OS X.
Disables screensaver and DPMS while playing back.
Bug Fixes
Weekly scheduled tasks were not performed if the unit was off: fixed by performing task during power-up.
Displayed Doremi visual keyboard instead of system visual keyboard.
Migrate and restore script issues (see migrate.sh script for details).
Hotplug script fails to detect SM.
SM product version warning message not showing.

Install
New Features
Does not install Doremi screen saver on Debian 3 setup (SE7221-based motherboard units).
No longer overwrites the system file /etc/sensors3.conf.
Deletes the obsolete system file /etc/sensors.conf.
Cleans up old /doremi/etc/rc.d script files.
Moves raidinfo, ntpwrap, and security-module scripts to /doremi folder.
Bug Fixes
None

Playback Engine
New Features
Supports playback recovery in case of IMB power loss.
Added configuration file to set default API privilege.
Added configuration file to enable/disable API servers.
Added new API commands.
Added FireAlarm (trigger) support even if a Show is not loaded.
Added a new macro "System Shutdown."
Added \w and \W special characters for raw device.
Added support for ExternalPack in SPL.
Added support for macro cue SkipToPack.
Show detailed error pop-up when security lock condition detected.
Added support for RealD SBS activation.
Configuration file for default output audio sampling.
Supports H264 over Doremi StreamIt for units based on SuperMicro motherboards.
Added interlaced MPEG support.
Added Audio Mapping Support.
Checked coherency of audio mapping through all reels.
Bug Fixes
"Skip" command followed by "play" can break the Show.
Allowed attempt to play with KDM generated with wrong certificate.
SPL position goes back to 0 between JPEG and MPEG.
Could not change schedule mode.
Product name and serial number not refreshed.
Playback recovery after PCI-E disconnection.
Incorrect SPL progress information.
Improved the speed of extra CTP check.
Incorrect as-run log for 3D CPL.
Incorrect KDM serial number filtering.
Minor fix in case of unexpected KLV data from StreamIt.
Minimum signing certificate chain depth must be 2.
Always output 2K if color conversion is enabled.
CPL signer roles should only be checked for SMPTE CPLs.
"libdci" fails to load KDMs with xml encoded characters in ContentTitleText.

Notification Engine
New Features
Added system event notifier (Notification Engine) on the bottom right corner of the screen (a gray or red dot with a number).
Bug Fixes
None.

Closed Caption
New Features
Displays "no caption" notification text in CaptiView device when no caption is available.
Bug Fixes
Millisecond timestamp format.
SMPTE timecodes incorrectly parsed.
Doesn't accept xml file without timed-text information (no subtitle element).
Closed caption for 3D content played at wrong speed.

License Manager GUI
Bug Fixes
Did not show Dolphin DCI 1.2 lowcap licenses.

Live Manager
Bug Fixes
Displayed a wait cursor when the CPL is being generated and ingested.

Subtitle
Bug Fixes
Miscellaneous issues in SMPTE logs.

4.4.3 Known Issues

- In the Ingest Manager GUI, if the user re-sizes the description column while an ingest is running, the list view will not be refreshed correctly.

- Playback does not restart after power loss to the IMB.

- This release does not handle receiving KDMs while the IMB is powered off.

- Null or malformed annotation text field at the beginning of the Assetmap will cause CineLister to crash.

    - Symptoms: Ingest Manager will indicate that the expected content is not on the drive. Refreshing the CineLister content window will cause all content to disappear from the window (content has not been deleted, it just doesn't appear in the list). The recovery process is to remove the drive from the system and reboot. To allow the server to ingest a dcp with null Annotationtext, the operator needs to edit the ASSETMAP file and replace the string "<AnnotationText/>" by "<AnnotationText>whatever</AnnotationText>". The system will then ingest the content correctly.

4.4.4 System Changes

None.

4.4.5 Compatibility Notes

The release breaks compatibility with 2.0.x and previous versions for the scripts started at boot.

It is not recommended to downgrade to 2.0.x or earlier versions.

4.4.6 Installation Notes

It is recommended for users with a very old setup (0.4.8-x and prior) to upgrade to software 0.5.2-18 SP1 before upgrading to this release.

For a unit with Dolphin DCI v1.2 using a 21.2x firmware to connect properly to a Series 2 projector, an extra reboot is necessary after software 1.2.1 has been installed.

CAUTION: DO NOT INTERRUPT the Installation process as it is migrating data. Interruption of installation process during migration of content might lead to a loss of data.

CAUTION: If you need to downgrade to software version older than 1.0.0, you need:

- to install the older software on the unit

- to re-init the RAID: *Type*: **sh /doremi/sbin/reinit_raid.sh**   <enter>

- to re-ingest all content on the unit

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5   2.0.x Release Notes

5.1   Software Version 2.0.10

This section provides the release notes for the DCP-2000 software version 2.0.10, generated on October 11th, 2010.

5.1.1   Recommendation

Due to important bug fixes, Doremi strongly encourages all users with an older software to upgrade.

This release installs a new Linux kernel. This kernel supports PCIe hot plug event ONLY on units fitted with SuperMicro motherboard (with the latest DCP-2000 operating system - Debian 4.0).

CAUTION: As of version 1.0.x, a major change in the Storage of the Ingested media was implemented. Upgrading from versions prior to 1.0.x will result in a migration. Please refer to the notes of version 1.0.1 for further information.

5.1.2   Change Logs

New Features	
Cinelister	Displays active progress bar and text when loading a show
Odeticsd	- Periodically resets log-sync state file for Series II projector - Adds support for new Sony SRX projectors
SM Logs	Separates SM logs in serial number subfolder
Motherboard	Adds sensor support for motherboards X7SLA and X7SPA
SNMP	Exports booting device properties
Diagnostic Tools	Displays booting device properties in Diagnostic Tools
Logs	Adds serial number in hotplug logfile
Drmwatchd	Adds support for automatic IP assignment of IMB for Sony projector
Drmmapmgr	Includes drmmapmgr in 2.0.x
Subtitle	Updated subtitle engine
Bug Fixes	
Macroeditor	Rejects macro without valid name
Drmactmrg	Does not allow to change 'root' password

Odeticsd	- Fixes unexpected show stop when small clip (less than 5 seconds) are played
	- Fixes unexpected [BUG] message
	- Fixes subtitles not displayed on Series-II projectors
Dolphin	- Encrypted audio does not work in 3D other than 24 fps
	- Refuses to update a Dolphin 1.2 with firmware 1.0 and vice-versa
SNMP	Fixes SNMP RAID status for not RAID5 setup
Sbcsetup	Error message displayed when --get-dlm is used without uuid
Ingestc	- Fixes issues related to FTP logins and share parameters
	- Splits long error logs to allow display in the GUI
	- Improves error logs when SM operation fails
Timestamps	Fixes timestamps in bootseq.log
Error codes	Error codes properly decoded to string
Ingest_mgr	Fixes for share name with space
Distrib	Includes /doremi/etc/cron.d in release.md5 file
TLS API	Fixes old TLS ingest API when no job is available
Cinelister	- Fixes wrong "Could not load Showplaylist" window
	- Disables Save button if SPL is empty
	- Fixes the random crash when loading a ShowPlaylist
Drmdevmgr	Second IP disabled for Series-II projectors
Asdcplib	Fixes asdcplib jp2k read memory corruption
System	- Adds e1000e network driver
	- Fixes unexpected allocation failure in kern.log
Drmdiag	Enables "Continue" button in step 2 of 4 of Disk Replacement Wizard
Drmingest	- Changed message when no assets have been found
	- Shows hourglass while retrieving task logs

Report.sh	Fixes connection to IMB
Mb_ctl	Updates to version 1.9
Drmplaylistd	Fixes crash when updating the LoadSPLProgress
Drmdiag / drminfo	Show "missing" when cached values are displayed
GUI	Removes translation for username/password strings
Clock	Improves and log clock synchronizations
Drmdiag	Fixes buggy drive status
Network	Fixes "none production software" error popup shown if network issue
Caption	- Sends auditorium_id message to CaptiView device - Fixes CapTX when unplugged/plugged back
Taskbar	Fixes dialog popups in taskbar when minimized
Reports	Adds nat iptable in report
Ingestd	Does not log error when stopping
SM	Adds SM version to report

5.1.3   Known Issues

None.

5.1.4   System Changes

None.

5.1.5   Compatibility Notes

The release definitively breaks compatibility with 0.4.8-x releases.

The release is upward compatible with 0.5.2-x and 0.5.4-x releases – see Installation Notes section below if you need to downgrade from this release to an older software version.

5.1.6   Installation Notes

It is recommended for users with a very old setup (0.4.8-x and prior) to upgrade to software 0.5.2-18 SP1 before upgrading to this release.

For a unit with Dolphin DCI v1.2 using a 21.2x firmware to connect properly to a Serie2 projector, a extra reboot is necessary after the software 1.2.1 has been installed.

CAUTION: DO NOT INTERRUPT the Installation process as it is migrating data. Interruption of installation process during migration of content might lead to a loss of data.

CAUTION: If you need to downgrade to software version older than 1.0.0, you need:

- to install the older software on the unit
- to re-init the RAID: Type: **sh /doremi/sbin/reinit_raid.sh**   <enter>
- to re-ingest all content on the unit

5.2 Software Version 2.0.7

This section provides the release notes for the DCP-2000 software version 2.0.7, generated on August 9th, 2010.

5.2.1 Recommendation

Due to important bug fixes, Doremi strongly encourages all users with an older software to upgrade.

This release installs a new Linux kernel. This kernel supports PCIe hot plug event ONLY on units fitted with SuperMicro motherboard (with the latest DCP-2000 operating system - Debian 4.0).

CAUTION: As of version 1.0.x, a major change in the Storage of the Ingested media was implemented. Upgrading from versions prior to 1.0.x will result in a migration. Please refer to the notes of version 1.0.1 for further information.

5.2.2 Change Logs

New Features	
Drmwatchd	On IMB setup, it sets the projector type after setting the external ip address
Cinelister	Displays a wait cursor when deleting CPL
System	Adds dcp2000_module-unload_1.0.pkg in the package blacklist
Bug Fixes	
Drmsubtitled	Fixes Taiwanese characters
Assetlib	- Fixes race condition in reference counter
	- Fixes possible memory leak when de-seriazing PKL
Drmplaylistd	Fixes drmplaylistd related to slow API call when an ingest is running
Cinelister	- Fixes refresh of Playback tab ShowPlaylist
	- Fixes loop mode is not refreshed at runtime
Dolphin	- Fixes encrypted audio does not work in 3D other than 24 fps
	- Speeds up ioctl() on unplug event
Odeticsd	- Calls GetEventList every 12 hours on Dolphin DCI 1.0 setup
	- Fixes DCASM command partially executed on the secondary projector
System	- Fixes 2 TLS connections at boot
	- Sleeps 10 seconds before loading dolphin driver
	- Replaces default font used by Subtitle Engine

Ingestc	- Fixes unwrapping of MXF Timed Text with Dolphin DCI 1.2 lowcap
SBC	Fixes sbcreport generation for Dolphin lowcap
Ingest scheduling	Fixes the schedule of ingest for asset with & in its description
Ingestd	Fixes unwrapping of MXF Timed Text without ancillary resource
Drmdevmgr	Enables subtitle for Series-II projector
Drmmblogd	Attempts to reconnect every 30 seconds
Log	Adds ingest application version in log
Report generation	Reduces report generation time
Drmbootseq.log	Drmbootseq.log in local time
Sbcsetup	Adds unit to RTC drift

5.2.3 Known Issues

- Loading of a ShowPlaylist randomly crashes.
- Sending subtitles to Series-II projectors does not work properly

5.2.4 System Changes

None.

5.2.5 Compatibility Notes

The release definitively breaks compatibility with 0.4.8-x releases.

The release is upward compatible with 0.5.2-x and 0.5.4-x releases – see Installation Notes section below if you need to downgrade from this release to an older software version.

5.2.6 Installation Notes

It is recommended for users with a very old setup (0.4.8-x and prior) to upgrade to software 0.5.2-18 SP1 before upgrading to this release.

For a unit with Dolphin DCI v1.2 using a 21.2x firmware to connect properly to a Serie2 projector, a extra reboot is necessary after the software 1.2.1 has been installed.

CAUTION: DO NOT INTERRUPT the Installation process as it is migrating data. Interruption of installation process during migration of content might lead to a loss of data.

CAUTION: If you need to downgrade to software version older than 1.0.0, you need:

- to install the older software on the unit
- to re-init the RAID: *Type*: **sh /doremi/sbin/reinit_raid.sh**   <enter>
- to re-ingest all content on the unit

5.3 Software Version 2.0.5

This section provides the release notes for the DCP-2000 software version 2.0.5, generated on June 16th, 2010.

5.3.1 Recommendation

Due to important bug fixes, Doremi strongly encourages all users with an older software to upgrade.

This release installs a new Linux kernel. This kernel supports PCIe hot plug event ONLY on units fitted with SuperMicro motherboard (with the latest DCP-2000 operating system - Debian 4.0).

CAUTION: As of version 1.0.x, a major change in the Storage of the Ingested media was implemented. Upgrading from versions prior to 1.0.x will result in a migration. Please refer to the notes of version 1.0.1 for further information.

5.3.2 Change Logs

New Features	
Macro Editor	Library for DFC100 added
Detailed Report	Information added
Bug Fixes	
DrmDevMgr	Fixes "Test" button for Series-2 projectors
DrmDiag	Fixes check of the Network Configuration
Ingestc	Fixes ingest SMPTE subtitle file in Dolphin RevB and Dolphin DCI v1.0 configuration

5.3.3 Known Issues

None.

5.3.4 System Changes

None.

5.3.5 Compatibility Notes

The release definitively breaks compatibility with 0.4.8-x releases.

The release is upward compatible with 0.5.2-x and 0.5.4-x releases – see Installation Notes section below if you need to downgrade from this release to an older software version.

5.3.6 Installation Notes

It is recommended for users with a very old setup (0.4.8-x and prior) to upgrade to software 0.5.2-18 SP1 before upgrading to this release.

For a unit with Dolphin DCI v1.2 using a 21.2x firmware to connect properly to a Serie2 projector, a extra reboot is necessary after the software 1.2.1 has been installed.

CAUTION: DO NOT INTERRUPT the Installation process as it is migrating data. Interruption of installation process during migration of content might lead to a loss of data.

CAUTION: If you need to downgrade to software version older than 1.0.0, you need:

- • to install the older software on the unit
- • to re-init the RAID: Type: **sh /doremi/sbin/reinit_raid.sh**   <enter>
- • to re-ingest all content on the unit

5.4   Software Version 2.0.4

This section provides the release notes for the DCP-2000 software version 2.0.4, generated on May 26th, 2010.

5.4.1   Recommendation

Due to important bug fixes, Doremi strongly encourages all users with an older software to upgrade.

This release installs a new Linux kernel. This kernel supports PCIe hot plug event ONLY on units fitted with SuperMicro motherboard (with the latest DCP-2000 operating system - Debian 4.0).

<u>CAUTION</u>: As of version 1.0.x, a major change in the Storage of the Ingested media was implemented. Upgrading from versions prior to 1.0.x will result in a migration. Please refer to the notes of version 1.0.1 for further information.

5.4.2   Change Logs

New Features	
Kernel	Configurable I/O memory resource for IMB
Drmlivemgr	• CPL duration set to LONG_MAX • "Doremi Live Streamer" reference renamed
Macro editor	"Ok" button disabled if macro name is empty
Drminfo	SM version displayed when available
Log	Creates a TLS log polling daemon
Ingestc	Add support for TimedText decryption on Dolphin RevB
Ingestd	Warns if repository needs migration/cleanup
Bug Fixes	
CineLister	Memory leak fixed in API SnmpGet
Odeticsd	• Fixes incorrect odetics status bit between two clips • Fixes incorrect timecode between two clips • Fixes an important memory leak that can stop the show at any time
Drmplaylistd	Fixes empty macro name that crashes the player
Drmsubtitled	• Fixes time in/out format • Fixes invalid (negative) time In/Out bug
Dolphin	• Fixes incorrect reset of MCore done bit • Uses MCore pending bit when available

Drmgpiod	Does not raise GPI on PCI-E disconnection

5.4.3 Known Issues

None.

5.4.4 System Changes

None.

5.4.5 Compatibility Notes

The release definitively breaks compatibility with 0.4.8-x releases.

The release is upward compatible with 0.5.2-x and 0.5.4-x releases – see Installation Notes section below if you need to downgrade from this release to an older software version.

5.4.6 Installation Notes

It is recommended for users with a very old setup (0.4.8-x and prior) to upgrade to software 0.5.2-18 SP1 before upgrading to this release.

For a unit with Dolphin DCI v1.2 using a 21.2x firmware to connect properly to a Serie2 projector, a extra reboot is necessary after the software 1.2.1 has been installed.

CAUTION: DO NOT INTERRUPT the Installation process as it is migrating data. Interruption of installation process during migration of content might lead to a loss of data.

CAUTION: If you need to downgrade to software version older than 1.0.0, you need:

- to install the older software on the unit
- to re-init the RAID: Type: **sh /doremi/sbin/reinit_raid.sh**   <enter>
- to re-ingest all content on the unit

5.5 Software Version 2.0.0

This section provides the release notes for the DCP-2000 software version 2.0.0, generated on March 31th, 2010.

5.5.1 Recommendation

Due to important bug fixes, Doremi strongly encourages all users with an older software to upgrade.

This release installs a new Linux kernel. This kernel supports PCIe hot plug event ONLY on units fitted with SuperMicro motherboard (with the latest DCP-2000 operating system - Debian 4.0).

__CAUTION__: As of version 1.0.x, a major change in the Storage of the Ingested media was implemented. Upgrading from versions prior to 1.0.x will result in a migration. Please refer to the notes of version 1.0.1 for further information.

5.5.2 Change Logs

New Features	
System	• Puts screensaver to provide protection against unintentional touching of the screen
	• Includes QA script drm-errorsummary.sh in release and call it from script report.sh
	• Support for IMB (Internal Media Block) added
	• SNMP OID for audio watermarking in MIB added
	• Displays dolphin information from cache if board is missing
	• Updates /doremi/etc/blacklist.conf to black list dcp2000_ntpdate-1.* packages
	• German translation file included
	• "TouchScreen Calibration" menu entry updated
	• Script to allow important system setting backup/restore
	• libdrmapi.so updated to version 1.0.6
	• "ShowVault" product identified
	• "DC-Post" product identified
	• /doremi/sbin/pkg_install file rights changed from 0755 to 0700
	• Displays warning message if SM is not running production firmware
Raid re-init	• Support for variable number of drive [1-6] added
	• RAID reinitialization troubleshooting improved
	• Command line tool to reinitialize /opt partition added

Drmplaylistd	• DeleteCPL code moved from odeticsd to drmplaylistd • API StorCfgFile and RetrCfgFile updtaed to support caption file • GetSubtitleOffset and SetSubtitleOffset updated to support Z, V and H offset • Support for audiomap config file in API RetrCfgFile and StorCfgFile added • API commands "GenerateReport" and "SetClientName" added
Drmccsrvd	• Use device configuration file to control RWD/CaptiView serial device • Automatically detects the valid serial device filename if port ends with a 'x'. • Support for multi language tracks (closed caption) added • Support for EntryPoint and Duration added
Caption	• Support for SMPTE 430-10 protocol added • Support for closed subtitle data added
CineLister	Play / Pause buttons behavior in "Play then Eject" mode
Smddump	Always check if public key matches with certificate
Ingest GUI	DLMs with wrong product name should not appear
Ingestc	• Generates OpenCaption and ClosedSubtitle mapfiles • Checks KDM serial number • Checks disk space before copying asset on disk
Ingest	Jobs made manageable
Sbcsetup	Support for two chipset temperature added
Drmdevmgr	Closed caption checkbox in Subtitle view added
Drmsnmp	Handle new OID in drmsnmp for proper snmp walking
Cleanmgr	Deletion reasons deleted in logfile
Drmsergtwd	Daemon to support generic RAW serial device
Drmdiag	New Storage view
WdmLogin	Ok button's behavior changed in the Login window
Ncq.sh	RAID with more than 3 drives handled
Drmingest	Ingest UI revamped
Drminfo	MCore API used to get watermark version

Odeticsd	• Currently playing Show ejected if user switches the video input of the Certainty • /dev/ttyS0 not used if defined in devices.xml
Snmp	• Script updated to add chipset temp and SM product name • Doremi MIB updated; added SNMP OID for fpga1, fpga2 and smIdentProductName • OID added for RAID size
Report	• Script updated to add media block infos • Command "cat /proc/partitions" added • RAID with more than 3 drives handled • SBC405/IMB device information available via PCI in report • SM DLMs included in report
Bug Fixes	
XML	Fixes crash when parsing certain XML file
Drmsubtitled	• Fixes SMPTE image rendering • Fixes ruby with rotated main character • Fixes ruby spacing bug • Fixes engine crash for some attributes values • Auto-restart in case of crash • Subtitle engine is always enabled • Fixes 3D subtitles with 2D picture • Fixes vertical rendering bug • Fixes the long fadeUp and fadeDown time (now we can read "hh:mm:ss:TTT" "hh.mm.ss.sss" "TTT") • Outer black outline for Chinese character • Fixes wrong italic direction for Japanese • Fixes incorrect dot centering for Japanese • Ignores the case of XML tag / attribute
System	• Reinit popup dialog corrected • /doremi/tmp is now deleted at boot
Smddump	• Timezone corrected if player is up while DST • Fixes invalid characters in XML text • Fixes SMPTE 430-4 and 430-5 log support

Drmplaylistd	• Deleted KDM are kept in memory • Fixes bad log in API DeleteKDM • Generates RSA and certificate for TLS API
Drmccsrvd	• Content displayed at correct speed with 3D clips • Caption SMPTE files supported
Ingestc	• Xfs preallocation failure aborts ingest • Support for main stereoscopic subtitle/caption added • FrameSequenceError checked at ingest time
Drmingest	Warning message "Remote mapfile information does not match ..."
Reinit_raid	Shutdown ingest_mgr
Reboot/shutdown	Warn if an ingest is running
Macroeditor	• GPIO/Message actions renamed • Fixes text in Signal Library window • Provides better indication text for library files
Cinelister	• Fixes typo in warning message box • Changes buttons and hints (playback tab) • Behavior of restart after power failure
GUI	• Doremi Labs menu entry renamed • Consistent naming for legacy keyboard • "Doremi Labs" removed in caption title text
Drmdiag	• Fixes minor typo ("[...]to low" -> '[...]too low") • Fixes missing sensors
Odeticsd	• Fixes false "TrackFileId check failed" message for picture MXF track with Plaintext Offset value not equal to 0 (cf. CTP 5.4.1.4) • Workaround added for hw bug in AES engine in case the plain text offset if not equal to 0 • Fixes wrong frame size sent to the MPEG software decoder in case the plain text offset is not equal to 0 • Fixes incorrect detection of DSV-J2 product; it would break encrypted playback with DC-Post product • Fixes AV caching in case of multiple preview of short clip • Fixes HMAC code

Driver	• Supports audio 16ch 96khz (was only supporting 8ch at 96Khz) • Fixes a crash if /proc is read while hot plugging
Drmdevmgr	• Fixes Serial device view if disabled • RealD device LUT message changed
Report	• Includes missing snmp files in report.sh • Fixes tar command failed if too many file in /data/maps directory
Drmsu	Fixes broken spanish translation
SM TLS	GetDlms to GetDlmIds renamed
Libdci	• Schema check added in etm_check() • OBSOLETE_SIGNATURE error usage modified • Supports certificate with validity time exceeding 2036

5.5.3 Known Issues

None.

5.5.4 System Changes

None.

5.5.5 Compatibility Notes

The release definitively breaks compatibility with 0.4.8-x releases.

The release is upward compatible with 0.5.2-x and 0.5.4-x releases – see Installation Notes section below if you need to downgrade from this release to an older software version.

5.5.6 Installation Notes

It is recommended for users with a very old setup (0.4.8-x and prior) to upgrade to software 0.5.2-18 SP1 before upgrading to this release.

For a unit with Dolphin DCI v1.2 using a 21.2x firmware to connect properly to a Serie2 projector, a extra reboot is necessary after the software 1.2.1 has been installed.

CAUTION: DO NOT INTERRUPT the Installation process as it is migrating data. Interruption of installation process during migration of content might lead to a loss of data.

CAUTION: If you need to downgrade to software version older than 1.0.0, you need:

- to install the older software on the unit
- to re-init the RAID: Type: **sh /doremi/sbin/reinit_raid.sh** <enter>
- to re-ingest all content on the unit

6 1.2.x Release Notes

6.1 Software Version 1.2.1

This section provides the release notes for the DCP-2000 software version 1.2.1, generated on March 12th, 2010.

6.1.1 Recommendation

Due to important bug fixes, Doremi strongly encourages all users with an older software to upgrade.

__CAUTION__: As of version 1.0.x, a major change in the Storage of the Ingested media was implemented. Upgrading from versions prior to 1.0.x will result in a migration. Please refer to the notes of version 1.0.1 for further information.

6.1.2 Change Logs

New Features	
None.	
Bug Fixes	
Series-2 Projector	Fixes connection to Series2 projector with Dolphin DCI v1.2 using 21.2x firmwares
drmdiag	• Only allows to start one cleanmgr at a time • Displays correct watermark version with fw 21.01Z
drmplaylistd	Fixes potential segfault in API GetAssetList and GetCPLList
libdevmgr	Fixes incorrect parsing of Barco Series-1 projector declared in a devices.xml created with a software older than 1.2.0
ingestc	• Fixes issue in ingest of 3D video files from /data/incoming leading to the files never deleted from /data/incoming • Explains what user has to do to be able to ingest again
cleanmgr	Locks repository while cleaning
touchscreen	Unexpected behavior with touchscreen and visual keyboard

6.1.3 Known Issues

Backward compatibility issue with projector configured as Barco in Device Manager – see Installation Notes below.

6.1.4 System Changes

None.

6.1.5 Compatibility Notes

The release definitively breaks compatibility with 0.4.8-x releases.

The release is upward compatible with 0.5.2-x and 0.5.4-x releases – see Installation Notes section below if you need to downgrade from this release to an older software version.

6.1.6 Installation Notes

It is recommended for users with a very old setup (0.4.8-x and prior) to upgrade to software 0.5.2-18 SP1 before upgrading to this release.

For a unit with Dolphin DCI v1.2 using a 21.2x firmware to connect properly to a Serie2 projector, a extra reboot is necessary after the software 1.2.1 has been installed.

CAUTION: DO NOT INTERRUPT the Installation process as it is migrating data. Interruption of installation process during migration of content might lead to a loss of data.

CAUTION: If you need to downgrade to software version older than 1.0.0, you need:

- •   to install the older software on the unit
- •   to re-init the RAID: *Type*:   **sh /doremi/sbin/reinit_raid.sh**   <enter>
- •   to re-ingest all content on the unit

6.2   Software Version 1.2.0

This section provides the release notes for the DCP-2000 software version 1.2.0, generated on February 3rd, 2010.

6.2.1   Recommendation

Due to important bug fixes, Doremi strongly encourages all users with an older software to upgrade.

<u>CAUTION</u>: As of version 1.0.x, a major change in the Storage of the Ingested media was implemented. Upgrading from versions prior to 1.0.x will result in a migration. Please refer to the notes of version 1.0.1 for further information.

<u>CAUTION</u>: When updating a unit with Barco projector configured in Device Manager, it is necessary to reconfigure the Barco projector to have the Macros work properly. See procedure in Installation note section below.

6.2.2   Change Logs

New Features	
General	Support for Series-2 projectors added
Ingest GUI	- Selection of PKL/CPL modified - Supports encrypted password in Netmap file
Diagnostic Tool	- Button to initiate migration of content to new CPL based architecture added - Warns about failure to copy a report on a USB key
Ingest	- Warns when ingesting a file of unknown type - Doesn't ingest MXF with invalid frame rate of 0 - Checks available space before ingesting
Device Manager	- Support for Kinoton projector added - Support for Series-2 projectors added
Subtitle	Licensing of subtitle engine removed
Bug Fixes	
FTP	FTP time-out increased to 15s
Odetics	- Fixes crash in some 3D clips - Fixes playback crash during change of clip when ingesting KDMs
System	Fixes bug in network configuration wizard that was not making change effective right away
Log	- Fixes hash in secure log - Improved reporting of Series 1 projector communication error

CineLister	- Fixes incorrect parsing of SPL with pack
	- Fixes unreliable playback of Show with missing CPL
	- Fixes list of content disappearing
	- Fixes scheduler display bug
Ingest	- Fixes failure to ingest asset that was already partially copied
	- Logs PKL information
TLS	Fixes potential crash in API "GetAsset" command
Scheduler	Fixes failure to start scheduled show when unit under heavy processing

6.2.3 Known Issues

Backward compatibility issue with projector configured as Barco in Device Manager – see Installation Notes below.

6.2.4 System Changes

None.

6.2.5 Compatibility Notes

The release definitively breaks compatibility with 0.4.8-x releases.

The release is upward compatible with 0.5.2-x and 0.5.4-x releases – see Installation Notes section below if you need to downgrade from this release to an older software version.

6.2.6 Installation Notes

It is recommended for users with a very old setup (0.4.8-x and prior) to upgrade to software 0.5.2-18 SP1 before upgrading to this release.

CAUTION: DO NOT INTERRUPT the Installation process as it is migrating data. Interruption of installation process during migration of content might lead to a loss of data.

CAUTION: If you need to downgrade to software version older than 1.0.0, you need:

- to install the older software on the unit
- to re-init the RAID: *Type*: **sh /doremi/sbin/reinit_raid.sh**   <enter>
- to re-ingest all content on the unit

Instructions on reconfiguring the Barco projector settings for a Series-1 are provided below:
1. Open Device Manager
2. Choose the projector
3. Confirm that the dropdowns are Barco & Series-1, if not click on the dropdown to choose these settings.
3. Click on the Enable button to disable
4. Click on the Enable button to re-enable
5. This will make the Save button active.
6. Click on the Save button to re-save the Projector settings.

7 1.0.x Release Notes

7.1 *Software Version 1.0.4*

This section provides the release notes for the DCP-2000 software version 1.0.4, generated on October 26th 2009.

7.1.1 Recommendation

Due to important bug fixes, Doremi strongly encourages all users with an older software to upgrade.

CAUTION: As of version 1.0.x, a major change in the Storage of the Ingested media was implemented. Upgrading from versions prior to 1.0.x will result in a migration. Please refer to the notes of version 1.0.1 for further information.

7.1.2 Change Logs

New Features	
drmingest	Show PKLs in main tree and CPLs in PKL sub tree
Bug Fixes	
PNgest	PNgest fixed
Ingest	• Scanning remote PKL without OriginalFilename tag is fixed • Memory issue with ingest of some CPL is fixed • Ingests failures during FTP copy are fixed
Cleanup Manager	Invalid assets are now properly deleted
Apache server	Playback failure to display subtitles is fixed
Migration	Migration backup folders are now properly deleted

7.1.3 Known Issues

None.

7.1.4 System Changes

None.

7.1.5 Compatibility Notes

The release definitively breaks compatibility with 0.4.8-x releases.

The release is upward compatible with 0.5.2-x and 0.5.4-x releases – see Installation Notes section below if you need to downgrade from this release to an older software version.

7.1.6 Installation Notes

It is recommended for users with a very old setup (0.4.8-x and prior) to upgrade to software 0.5.2-18 SP1 before upgrading to this release.

CAUTION: DO NOT INTERRUPT the Installation process as it is migrating data. Interruption of installation process during migration of content might lead to a loss of data.

CAUTION: If you need to downgrade to software version older than 1.0.0, you need:

- to install the older software on the unit

- to re-init the RAID: *Type*: **sh /doremi/sbin/reinit_raid.sh**   <enter>

- to re-ingest all content on the unit

7.2 Software Version 1.0.1

This section provides the release notes for the DCP-2000 software version 1.0.1, generated on September 2nd 2009.

CAUTION: This software version changes the structure of the assets on drive. Thus, you can not go back to an older software version without re-initializing the RAID and lose all existing content.

7.2.1 Recommendation

Due to important bug fixes, Doremi strongly encourages all users with an older software to upgrade.

7.2.2 Change Logs

New Features	
Content Migration	Migrates the /data/assets directory to the new CPL based architecture. The migration is performed one time at installation. **CAUTION**: DO NOT INTERRUPT THE PROCESS or you might lose data.
Control Panel	"Time Property" (settings) application added in the "Control Panel"
Ingest	• Support for Live event package added • Implements CPL based architecture of content • Displays list of CPL instead of list of PKL in Ingest GUI • Adds KDM validity date check • Checksum checked while retrieving the file
Cleanup Manager	Modified to support CPL based architecture of content
Log	• SM log management improved for Dolphin DCI v1.2 • Adds option to extract AsRunLog only - "AsRunLog" is a playback confirmation log • Logs API command "SetSchedulerEnable" in file /doremi/logs/drmplaylistd.log • Adds an event when scheduler is either enabled or disabled in file /doremi/logs/schedulerd.log
TLS	• API "SetClientName" command added • API "GetCplPackageURI" command added
SNMP	SNMP exports enhanced Media Block version and watermarking information (dump in OID: ## Oid: 1.3.6.1.4.1.24391.1.6.10.1.1.0)
Information	Enhanced display of watermarking information in Diagnostic Tool and About Info window.

Subtitles / Captions	• Multi-language Closed Captions support
	• Support for ClosedCaption, ClosedSubtitle and MainCaption CPL elements
	• Adds SMPTE 428-7 Subtitle format support in subtitle engine
KDM	• Certificate presence check: checks that one of the certificates in the certificate chain supplied with the CPL has a certificate thumbprint that matches the value of the <ContentAuthenticator> KDM element.
	• Adds KDM validity date check
Netmap File	Accepts base64 encoded form of password in netmap.xml file
Installation	Provides support for HighPoint and LSI RAID module
Bug Fixes	
Ingest	Changes ports number of ingest lock
Player	• Corrects status information provided at the change of clip
	• Plays silence if audio is shorter than video
	• Uses ingest lock to protect log signing when a playback is either loading or starting
Logs	Reduces redundant OpenSSL error messages
Subtitles Engine	• Japanese characters : this corrects wrong italic orientation on Japanese vertical font
	• Chinese characters: this corrects outline on some Chinese font put far from the character itself.
	• Fixes a memory paging bug in On-Screen Display
RAID	Fixes reinit_raid to stop services properly
Macro Editor	Fixes cues added from the Cues Library
System	Sets proper permissions to /doremi/etc/language file at boot

7.2.3 Known Issues

- Can not PNgest CPL

- Ingest UI has issue scanning remote PKL without OriginalFilename tag.

7.2.4 System Changes

Ingestd was split in two: ingestd (daemon only) and ingestc (actual executable).

7.2.5 Compatibility Notes

The release definitively breaks compatibility with 0.4.8-x releases.

The release is upward compatible with 0.5.2-x and 0.5.4-x releases – see Installation Notes section below if you need to downgrade from this release to an older software version.

7.2.6 Installation Notes

It is recommended for users with a very old setup (0.4.8-x and prior) to upgrade to software 0.5.2-18 SP1 before upgrading to this release.

CAUTION: DO NOT INTERRUPT the Installation process as it is migrating data. Interruption of installation process during migration of content might lead to a loss of data.

CAUTION: If you need to downgrade to an older software version, you need:

- to install the older software on the unit

- to re-init the RAID: *Type*: **sh /doremi/sbin/reinit_raid.sh**   <enter>

- to re-ingest all content on the unit

8   0.5.4-xx Release Notes

8.1   Software Version 0.5.4-2

This section provides the release notes for the DCP-2000 software version 0.5.4-2, generated on April 2nd, 2009.

8.1.1   Recommendation

Due to important bug fixes, Doremi strongly encourages all users with an older software to upgrade.

8.1.2   Change Logs

New Features	
Live Manager	- New graphical interface to manage Live Composition Playlist
Visual Keyboard	- New easy to use visual keyboard
Diagnostic Tool	- Displays "Security Manager" software version
	- Displays "Security Manager" board temperature
Ingest UI	- Key Delivery Message (KDM), Doremi License (DLM) and Show Playlist (SPL) can now be ingested remotely
	- Display an information window when user press "Pngest" instead of "Ingest" to avoid mistake
	- Adds a "Cancel" button in "Scan" window
	- Sorts display content by name
	- Checks index duration coherency
TLS	- Adds API "Authenticate" command
	- Adds API "GetPlaybackLock2" command
	- Support for credential with API "Login" command
	- Updates API "GetCfgFile", "SetCfgFile" and "StorCfgFile" commands to support NTP configuration file
	- Updates API "SetTimeUTC" and "SetDateTime" commands to support clock hardware Id
	- New API "HeartBeat" command to check if the TLS server is still alive
	- New API "GetTimeZone" command to retrieve server current time zone
	- New API "ShowStatus2" command that super class API "ShowStatus" command with more information (accurate time code value, current KDM in use, etc.)
	- Updates API "GetProductCertificate" command to retrieve server certificate chains

CineLister	- In case of emergency recovery, the playback is restored 3 minutes before the last recorded point
	- KDM associated with a CPL can now be automatically deleted at the same time as the CPL
	- Remembers expanded/collapsed tree properties when view is refreshed
	- New type of CPL called "Live" was added for Live Event clips
Control Panel	- New graphical interface to manage the DCP-2000; the Control Panel is available from the main "Menu" entry
License Manager	- New graphical interface to manage licenses available on the server; the License Manager is available in the Control Panel
Account Manager	- New graphical interface to manage user account on the server; the Account Manager is available in the Control Panel
Device Manager	- Adds new device "Subtitle Engine" to let the server rendering the subtitle on the screen instead of the projector; the "Subtitle Engine" is an optional component and it is only available if a license is available
	- Adds new device "Dolby DFC100" to output 3D movie using the Dolby 3D technology; the "Dolby DFC100" is an optional component and it is only available if a license is available
	- Adds new device "RealD 3D EQ" to output 3D movie using the Real 3D technology; the "RealD 3D EQ" is an optional component and it is only available if a license is available
	- Adds projector device NEC NC1600
Closed Caption	- The new closed caption engine allows compatible devices to connect to the server to fetch closed caption information of the movie; the Closed Caption is an optional component and it is only available if a license is available
Macro Editor	- New "Playback Actions" cue type "Recue Show", to recue the currently loaded show to the beginning
	- New "Sensio3D" cue to enable / disable Sensio MPEG 3D technology; the "Sensio3D" is an optional component and it is only available if a license is available
System	- Detects, logs and notifies unexpected power-off sequence
	- Rejects blacklisted firmware upgrade
	- New command line tool to adjust hardware time
	- New DLM trusted
Dolphin DCI v1.2	- Support for Dolphin DCI v1.2 added (including Log and IP address retrieval)
MPEG Streamer	- Dynamically handles MPEG streamer format

RAID	- Historic data for RAID and disk status
Startup scripts	- New directory with startup scripts (/doremi/etc/rc.d/)
Serial to USB	- Addition of a new serial to USB adapter support
RTC	- New RTC control
Multiple Languages	- Addition of multiple languages support
Bug Fixes	
Device Manager	- Properly parses IP address with leading 0 such as: 192.168.0.042 - Fixes projector UI bug when Save button is pressed
Account Manager	- Displays an error message if the user tries to delete a logged user
Closed Caption	- Fixes broken closed caption server
System	- Fixes automount of USB device plugged at boot with some setup
SMPTE Log	- Fixes generation of SMPTE log NoxxxFM in case of playback of non encrypted clip
SM Log Viewer	- No longer limits the size of the export log to 16MB
Player	- Does not do several retries if the projector does not want to display subtitle (because of an XML format error for example) - Fixes a bug that could lead in some very rare cases to reject all "Play" command - Better handling of MPEG2 MXF with a "Plaintext Offset" value not equal to 0 - Fixes video output of Show with 3D setting set
CineLister	- Show Playlist can now be exported to a USB device without manually remount it to read write - Fixes minor UI bug
Ingest	- Fixes wrong XML auto detection in case of XML starting with comment
Ingest UI	- Fixes CD-ROM auto detection with some setup - List items alphabetically sorted
Playback	- Fixes cue at time code 00:00:00.00 not always executed
Macro Editor	- List macro alphabetically sorted
Cleanup Manager	- Improved deletion of orphan assets

8.1.3 Known Issues

Macro generation for JNior device generates an empty invalid macro.

8.1.4 System Changes

- <u>System</u>:

  • Protect the installation of old and obsolete package

  • New /doremi/etc/rc.d/ directory with startup scripts

  • Add serial-USB adapter support

  • File /doremi/etc/rs232 does no longer accept the value "hearimp"

- <u>Device Manager</u>:

  • Accept only one ISE1 device

8.1.5 Compatibility Notes

The release definitively breaks compatibility with 0.4.8-x releases.

The release is fully compatible with 0.5.2-x releases.

8.1.6 Installation Notes

It is recommended for users with a very old setup (0.4.8-x and prior) to upgrade to software 0.5.2-18 SP1 before upgrading to this release.

9   0.5.2-xx Release Notes

9.1   *Software Version 0.5.2-26*

This section provides the release notes for the DCP-2000 software version 0.5.2-26, generated on October 3rd, 2008.

9.1.1   Recommendation

This software is used only for unit with the new SuperMicro X7SBE motherboard. Customer with previous unit should not update.

9.1.2   Change Logs

New Features	
System	- Upgrades memory tester (memtest86+) to version 2.01.

CineLister	- Support added for optional configuration file '/doremi/etc/default/cinelister.config'
	
	   NOTE: the file is not part of the installation package; it can be created by installer to tweak default application setting
	
	- The "rewind" and "forward" default value (3 minutes) can be changed from "cinelister.config" file – see example below:
	
	   `<!-- Example of "cinelister.config" configuration file -->`
	   `<AppConfig>`
	     `<ParameterList>`
	      `<Parameter>`
	       `<Name>playback.controls.seekValue</Name>`
	        `<!-- Unit: Seconds -->`
	       `<Value>10</Value>`
	      `</Parameter>`
	     `</ParameterList>`
	   `</AppConfig>`

Bug Fixes	
Device Manager	- The projector test dialog now displays a better message if another server is connected to the projector. Instead of always displays "A device is already connected...", it now displays "This unit is already connected to the projector" or "Another device is already connected to the projector". - Fixes typo in the projector connection test window - Fixes '&' character in device identifier - Fixes not working "Test" button in "Projector" configuration window

CineLister	- If a KDM expires in less than 48 hours, a warning message is displayed in the carousel zone of the "Playback" tab
	- Fixes incorrect grayed out "Save" button in some cases
	- Fixes application memory usage
JNior automation	- Fixes "not working JNior input" related to more than one JNior device is configured
	- Increases pulse duration for JNior cues
Macro Editor	- Fixes application crash related to a projector that has never been defined on the server
	- Fixes incorrect signal selection in the "Signal Library" dialog
Ingest	- Fixes ingest hangs related to the Ethernet cable unplugged during an FTP ingest
	- Fixes KDM wrongly scanned and ingested when a DCP/PKL/CPL is explicitly indicated
	- Fixes ingest daemon that takes a long time to shutdown
Secure Log	- Secure log are now SMPTE 2008 compliant
Player	- Watermarking is only enabled for encrypted Composition Playlist
	- The MPEG2 decoder now ignores the value of the flag "low delay" from the stream
SMPTE Log	- Fixes "ContendID" for SMPTE log "CPLStart" and "CPLEnd"
ISE1 Driver	- Various security bug fixes
DFC100 Driver	- Increases connection timeout value between the driver and the player
User Interface (CineLister, DeviceManager, ...)	- Support added for accentuated character in all application

9.1.3 Known Issues

The SPL 3D property and the Macro to force 48 fps playback are not working.

9.1.4   System Changes

- SSH server does no longer listen on IPv6 address
- Update the sample file /doremi/etc/netmap.xml.sample
- Includes a new sample file /doremi/etc/default/cinelister.xml.sample
- Upgrades operating system and drivers
- NTP client is now part of the release. The installation of optional package 'dcp2000_ntpdate-1.1.pkg' is no longer necessary
- Adds support for USB CD/DVD readers
- New units with SuperMicro X7SBE motherboard now use command "tzconfig" to change the time zone instead of "tzsetup" as before.

9.1.5 Compatibility Notes

The release is not compatible with 0.4.8-x releases. The release is fully compatible with other 0.5.2-x releases.

9.1.6   Installation Notes

This software should only be installed on unit with the SuperMicro X7SBE motherboard.

9.2 *Software Version 0.5.2-22SP1*

This section provides the release notes for the DCP-2000 software version 0.5.2-22SP1, generated on September 19th, 2008.

9.2.1 Recommendation

Due to important new features and bug fixes, Doremi strongly encourages all users with an older 0.5.2-x software to upgrade.

<u>CAUTION</u>: Do NOT use software version 0.5.2-22.

9.2.2 Change Logs

New Features	
Player	- Support for Sensio 3D technology added – can be enabled through licencing
SNMP	- The following new SNMP OID are now available: 1.3.6.1.4.1.24391.1.6.1.3.1 : Primary Projector configured (0:= Unknown, 1:= Configured, 2:= Not Configured) 1.3.6.1.4.1.24391.1.6.1.3.2 : Primary Projector subtitle configuration enabled (0:= Unknown, 1:= Enabled, 2:= Disabled) 1.3.6.1.4.1.24391.1.6.1.1.1 : Primary Projector certificate thumbprint 1.3.6.1.4.1.24391.1.6.1.3.3 : Primary Projector IP address 1.3.6.1.4.1.24391.1.6.1.3.4 : Primary Projector vendor 1.3.6.1.4.1.24391.1.6.1.3.5 : Primary Projector model
System	Every 15 minutes, the server dumps temperature values (CPU and motherboard) into the file /doremi/log/sensors.log
Subtitle - Close Caption	- A new "Close Caption" service is available for external devices. - More information is available in the document "DCP2000_CC_Protocol_000xxx_vdraft5.pdf"
Device Manager	- Support for device Dolby DFC100 added - Support for Doremi MB-4K and MB-4K-LVDS-S products added - Supports the new external device: IMAX Security Entity (ISE1) - Supports the new external device: JNIOR3 - Adds native support of BARCO projector - A secondary IP address is required to add native support of BARCO projector
Macro Execute	- Application to quickly execute a macro created with the "Macro Editor"

Macro Editor	- Projector macro can now be executed on a single projector instead of all projector - Macro "Send Message" displays the device name in the cue text - Supports up to 64 projector channel
TLS	- Adds API "ExecuteMacroCue" to remotely execute a macro - Adds API "AddSchedule2" with "LoopMode" as additional parameter - Adds API "GetScheduleInfo2" with "LoopMode" as additional parameter - Adds API "GetCPLMarker" to list the "Marker" defined in the CPL - Adds API "GetSizeOfCPL" to get the size in bytes of a CPL (including assets) - Adds API "SnmpGet" to retrieve Doremi SNMP sensors
Playback	- Adds support for CPL Marker. An automation cue can now be attached to a CPL marker instead of an offset in the CPL. - If the Ethernet connection is lost during the playback, the DCP-2000 doesn't stop playing. It still checks that the Ethernet and TLS is present when starting the playback.
CineLister	- In "Playback" tab, add a scrolling notification to display projector and storage errors - Adds SPL properties button to configure show name and default video output (2D or 3D) - Displays a warning when a scheduled show is not playing - Multi-language support (French and German so far) added - New pattern "BLACK 3D" added
Ingest UI	- Multi-language support (French) added
Cleanup Manager	- Searches and deletes empty folder in /data/assets/ - Deletes orphan index, subtitle and metadata files
Show Scheduler	- New behavior: a scheduled show is started only if the server is not already playing another show
SM Log Viewer	- Adds "Export" button to export SM Log to an USB drive or to the server local storage - Adds support for SMPTE 430-4 log format
Ingest	- Out-dated KDM are rejected at ingest time
Bug Fixes	
TLS	- API "GetSPLList" no longer returns SPL uuid that were not properly named on the server - API "DeleteCPL" now fails if the CPL is used by the loaded SPL - Fixes file permission issue with API "StorConfigFile"
Content	- Cleanly deletes CPL that references the same asset a multiple time

Management	- Deletes VOLINDEX.xml file when a CPL is deleted
SM Log	- Adds <reportDate> tag for SMPTE-430 log output
Player	- Better decoder crash detection code for 3D playback - Fixes potential audio bug if the user plays with CineLister 'JumpForward' and 'JumpBackward' buttons - Fixes potential decoder crash if user plays with CineLister 'JumpForward' and 'JumpBackward' buttons - Increases reliability of connection with the projector DCASM port - Fixes a potential picture freeze with very high bitrate (4:2:2) MPEG2 material - Fixes feature "Play while ingest" - Outputs 2K instead of 1080p for JPEG2000 contents at 23.98, 25, 29.97 and 30 FPS - Fixes subtitle issue if two CPLs with subtitle are played consequently - Fixes metadata issue if two CPLs with metadata are played consequently - Fixes show start issue if a bunch of KDM is being ingested at the same time - Does not reset CineLink2 in case of subtitle error - Fixes minor incompatibility with some remote controller - Does not switch the playback to "PAUSE" in case of projector failure - Fixes multiple projector support
System	- Fixes potential system freeze with IPMI sensors
Playback	- Displays a warning if the cue "Send Message" failed - Fixes the playback of MPEG content with Low delay
CineLister	- Displays Show name instead of UUID in the "Delete Schedules" window - Displays additional information to the error "Could not load Show Playlist" - Removes useless "Annotation Text" column in the "Schedule" TAB - Fixes unresponsiveness "Play" and "Pause" buttons in some very rare circumstances - Fixes unexpected multiple schedule warning popup - Fixes load of SPL generated by third-party software - More helpful text for marker acronym - Warns user if a CPL cannot be deleted
Device Manager	- Subtitle is enable by default for new "Projector" device

Ingest	- Corrects scanning of SMPTE MXF file
	- Fixes disk space check when "Play while ingest" option is set
	- Uses file system hardlink instead of copying asset multiple time
	- Supports new "LOCAL" protocol in /doremi/etc/netmap.xml file
Ingest UI	- Does not scan $RECYCLE.BIN folder (hidden recycle bin folder on NTFS formatted disk)
	- Fixes UTF-8 server name in /doremi/etc/netmap.xml file
	- Better accuracy for ingest progression
Closed Caption server	- The close caption network server is expected to stream only SMPTE caption data and NOT subtitle data
KDM Ingest	- Performs proper KDMs ingest during a show.
	- Fixes the "abort" issue related to KDM ingestion

9.2.3 Known Issues

- If the character & (ampersand) is used in the identifier field when registering a new projector in the device manager, it will corrupt the file and the next time the device manager opens, all devices vanish.

- If the network cable is disconnected when a FTP ingest occurs and is plugged back, the ingest is stuck and the reports indicate that it even doesn't timeout.

- Temperatures in sensors.log are unexpectingly null. This is not critical, because of very few null data occurrences (only a couple of null values appear during a day).

9.2.4 System Changes

- System:

  • Linux kernel is downgraded to version 2.6.18-2

  • Regulates IDE bus speed to increase the life expectancy of the Compact Flash

  • Adds configuration file /doremi/etc/language to select Doremi app language

  • RAID scripts now allow to set up the RAID with different drive size

  • Removes "USB Drives" menu entry when an USB device is plugged

  • Secure clock is synchronized at the server idle time

  • SNMP MIB updated

  • Adds "/bin/false" in "/etc/shells"

  • UDF DVD automount

- Ingest UI

  • Removes the button "Sync."; this feature is obsolete and it is scheduled for removal soon.

9.2.5 Compatibility Notes

The release definitively breaks compatibility with 0.4.8-x releases. The release is fully compatible with other 0.5.2-x releases.

9.2.6 Installation Notes

None.

9.3   Service Pack 1 for Software Version 0.5.2-18

This section provides the release notes for the DCP-2000 Service Pack 1 (SP1), generated on March 28th, 2008.

9.3.1   Recommendation

Doremi encourages all users with software 0.5.2-18 to install SP1.

9.3.2   Change Logs

Bug Fixes
- Creates missing /var/log/apache directory if it does not exist
- Disables sensors (IPMI) on motherboard SE7221-BKE to prevent a system freeze
- Partially fixes KDM ingest issue that delay/prevent playback start (Dolphin DCI only)
- Fixes playback of stereoscopic (3D) encrypted feature on dual projector set up
- Fixes connection with multiple projectors at playback idle time (eject)
- Upgrades "About" window and "Diagnostic Tool" to display "0.5.2-18 SP1" as software version instead of "0.5.2-18"
- Fixes the firmware version format in the SNMP browser
- Installs the "dcp2000_hotfix_module-unload_nodma_drmwatchd_1.1.pkg" package
- Fixes playback of two consecutives CPL with subtitle content

9.3.3   Known Issues

If KDMs are ingested during a show, it can pause the playback when playback engine switch clips with different format (for example switching from MPEG2 to JPEG2000).

9.3.4   System Changes

None.

9.3.5   Compatibility Notes

SP1 only applies to software version 0.5.2-18 and MUST NOT be installed on any other software version.

9.3.6   Installation Notes

None.

9.4 Software Version 0.5.2-18

This section provides the release notes for the DCP-2000 software version 0.5.2-18, generated on November 9th, 2007.

9.4.1 Recommendation

Users that are not concerned with one of the bug fixes below are not required to upgrade.

9.4.2 Change Logs

New Features	
Content Manager	- Prevent deletion of KDM in use
Bug Fixes	
Content Manager	- Properly deletes CPL with subtitles
Ingest	- Re-enables full speed ingest when the playback is in PAUSE state
Ingest UI	- To avoid a confusing frozen UI, it displays a progress dialog if it is longer than usual to scan local asset

9.4.3 Known Issues

There is no known issue referenced at this time.

9.4.4 System Changes

None.

9.4.5 Compatibility Notes

The release is fully compatible with other 0.5.2-x releases.

9.4.6 Installation Notes

None.

9.5 Software Version 0.5.2-17

This section provides the release notes for the DCP-2000 software version 0.5.2-17, generated on October 29th, 2007.

9.5.1 Recommendation

Due to important new features and bug fixes, Doremi strongly encourages all users with an older 0.5.2-x software to upgrade.

9.5.2 Change Logs

New Features	
Player	- Adds 96KHz audio support
CineLister	- Jump buttons new behavior: seek in the video while the button is kept pushed
Automation	- Adds new protocol to communicate with various external devices. The protocol is described in the document 'DCP2000_Protocol_000247_v1_0.pdf'
Ingest	- Adds support for ClosedCaption draft
TLS	- Adds TLS command "IngestGetCurrentPath" to know the current ingest Path.
Bug Fixes	
Player	- Revokes secure realtime clock (RTC) compromising check at runtime.
	- Fixes audio sample check for 29.97 and 59.94 frame rate
	- Rejects encrypted CPL with video at 29.97 and 59.94
	- Limits the number of connected projector when playback of protected content
	- Fixes broken RAID I/O priority
CineLister	- Fixes refresh of schedule status
Playback	- Increases timeout for SPL load
Ingest UI	- Fixes "Cancel" button behavior of the "Authentication" UI in case of multiple assets ingest
Ingest	- VOLINDEX with .xml extension (VOLINDEX.xml) file was not copied for SMPTE standard
Secure Log Dump	- Limits the size of the ouput xml to 16MB max; to disable the limitation, use the command line option "—full"

9.5.3 Known Issues

There is no known issue referenced at this time.

9.5.4 System Changes

Network Configuration

The configuration UI does no longer ask to enter network broadcast address (it is now automatically computed).

9.5.5 Compatibility Notes

The release is fully compatible with other 0.5.2-x releases.

9.5.6 Installation Notes

None.

9.6 Software Version 0.5.2-16

This section provides the release notes for the DCP-2000 software version 0.5.2-16, generated on October 4th, 2007.

9.6.1 Recommendation

This release is not suitable for production environment. Users that are not concerned with one of the new features below are not required to upgrade.

9.6.2 Change Logs

New Features	
Playback	Adds new feature "Play while Ingest" that allows to play remotely a DCP and ingest it at the same time
Bug Fixes	
Playback	Fixes subtitles display even if they were disabled from the "Device Manager"
Ingest UI	Fixes detection of some SMPTE ASSETMAP file

9.6.3 Known Issues

There is no known issue referenced at this time.

9.6.4 System Changes

User Interface
- The confusing Login window is now simplified
- New Shutdown window instead of the "hard to access" menu entry
- Bigger menu entries to ease manipulation of the touch screen
- New application graphic theme
FTP server
Accepts FTP passive connection from port 20020 to 65535 instead of 20020 to 20029 only

9.6.5 Compatibility Notes

The release is fully compatible with other 0.5.2-x releases.

9.6.6 Installation Notes

None.

9.7 *Software Version 0.5.2-15*

This section provides the release notes for the DCP-2000 software version 0.5.2-15, generated on September 26th, 2007.

9.7.1 Recommendation

This release is not suitable for production environment. Users that are not concerned with one of the new features below are not required to upgrade.

9.7.2 Change Logs

New Features	
Playback	The playback has now the biggest priority on the RAID; an ingest process can no longer interfere with the playback.
Bug Fixes	
Ingest	- Missing PKL in AssetMap prevent CPL only ingestion
	- Detects if no PKL has been ingested in an ASSETMAP to prevent only ASSETMAP to be copied
	- Does not import empty PKL

9.7.3 Known Issues

There is no known issue referenced at this time.

9.7.4 System Changes

Upgrade to Linux kernel 2.6.22.6.

9.7.5 Compatibility Notes

The release is fully compatible with other 0.5.2-x releases.

9.7.6 Installation Notes

None.

9.8 Software Version 0.5.2-14

This section provides the release notes for the DCP-2000 software version 0.5.2-14, generated on September 7th, 2007.

9.8.1 Recommendation

All users equipped with a DCI decoding board shall install this release.

9.8.2 Change Logs

New Features	
There is no new feature in this release.	

Bug Fixes	
Ingest	- Makes sure to ingest only one KDM at a time
	- Rejects MPEG2 KDM if the server is not properly set up for MPEG2 playback
	- Fixes remote ingest if the ASSETMAP is missing in the remote folder

9.8.3 Known Issues

There is no known issue referenced at this time.

9.8.4 System Changes

None.

9.8.5 Compatibility Notes

The release is fully compatible with other 0.5.2-x releases.

9.8.6 Installation Notes

None.

9.9 Software Version 0.5.2-13

This section provides the release notes for the DCP-2000 software version 0.5.2-13, generated on August 27th, 2007.

9.9.1 Recommendation

Due to important new features and bug fixes, Doremi strongly encourages all users with an older 0.5.2-x software to upgrade.

9.9.2 Change Logs

New Features	
Playback	- Adds support for new SMPTE stereoscopic CPL format - Disables the playback of secure content if the secure real-time clock (RTC) is compromised (out-of-battery or battery removed)
Device eCNA	- Automatically connects/disconnects when eCNA goes up/down. - Adds generic report event support
Automation	- Adds macro "PurgePendingMacro" to cancel all pending macros at runtime
TLS	- Adds commands "Shutdown" and "ShutdownCancel" to remotely shutdown the server - Adds command "IngestPackageURI" to ingest a local PKL, CPL or KDM. - The command "ValidateCPL" now checks if the RTC is not compromised - The command "ValidateCPL" now checks if the SecureLockUnit bit is set
Security Log	- Records a secure log if the RTC is compromised (out-of-battery or battery removed)
MacroEditor	- Adds eCNA signals in drop down list
System Monitor	- Does not delete KDMs when RTC battery is dead or removed
Bug Fixes	
Automation	- Automation cues raised from Trigger now run immediately - Fixes "SendMessage" cue with eCNA device - Fixes a potential multiple execution of a single macro if it was the last macro of the SPL at the last timecode - Fixes a bug with trigger "TimeCode" which can be associated with the wrong clip (in some very rare cases)
Security Log	- Fixes a potential payload database corruption if /88oremi becomes full - Fixes access to the RTC and use it to timestamp logs
CineLister	- Fixes time code window pops up when double-click on CPL remaining

	time if the show isn't in pause state
Ingest UI	- Fixes minor graphical KDM issue
	- Fixes button hidden/shown issues
Scheduler	- Under heavy load, the scheduler can take time to start a Show; the previous time out was 10s and it is now increased to 30s.

9.9.3 Known Issues

There is no known issue referenced at this time.

9.9.4 System Changes

- Adds new Linux kernel modules to support PPP, QOS (Quality Of Services) and Advanced Firewalling.

- Device Manager:

  The device "CNA" is renamed to "eCNA".

- Player:

  If the audio delay isn't configured, the default value is –4 instead of –2.

- FTP Server:

  The server now uses the ports 20020 to 20029 for passive mode file transfer.

9.9.5 Compatibility Notes

The release is fully compatible with other 0.5.2-x releases.

9.9.6 Installation Notes

None.

9.10 Software Version 0.5.2-12

This section provides the release notes for the DCP-2000 software version 0.5.2-12, generated on August 3rd, 2007.

9.10.1   Recommendation

The release includes an important fix in XML validation processing, Doremi strongly encourages all users with an older 0.5.2-x software to upgrade.

9.10.2   Change Logs

New Features	
TLS	- Adds command "GetShowElementsStatus" - Adds command "RetrCfgFile" and "StorCfgFile" to retrieve and stop server configuration files.
CineLister	- In "Playback" tab, displays a red circle in the show listview if the clip didn't play. - In "Playback" tab, you can now enter a time code to locate to if you click on the label "Remaining Time" while the machine is in "Pause" state.
Player	Supports up to 2 security sensors trigger.
Automation	Supports the new GPI event "Signal".
Device Manager	Supports the new device "eCNA".
System Monitor	Automatically removes out-dated KDMs.
Bug Fixes	
Player	- Fixes audio for 59.94Hz content. - Fixes as run log event.
TLS	- If the asset does not longer exist, it is removed from the result of the command "GetAssetList". - If the asset does not longer exist, it is removed from the result of the command "GetAsset".
Device CSS	- Better compatibility between the Player and the CSS device.
XML validation	- Fixes a bug in XML validation processing: the result was invalid when a single quote (') was part of the XML data text. This is important fix as a previous invalid KDM recognized as valid will now fail if single quote is part of data (ContentTitleText, AnnotationText…).

9.10.3 Known Issues

There are known issues with the support of the device eCNA.

9.10.4 System Changes

The system now let users to change system clock time in a range of +/- 30 minutes instead of +/- 15 minutes.

The format of the file /doremi/etc/0/security_sensors has changed and now refers to a trigger defined in /doremi/etc/macros.xml file:

#> echo SecuritySensorsTrigger > /doremi/etc/0/security_sensors

The Player will look to the trigger with name "SecuritySensorsTrigger" in the macro database and use the defined GPI as security sensors.

9.10.5 Compatibility Notes

The release is fully compatible with other 0.5.2-x releases.

9.10.6 Installation Notes

None.

9.11   Software Version 0.5.2-11

This section provides the release notes for the DCP-2000 software version 0.5.2-11, generated on July 10th, 2007.

9.11.1   Recommendation

This release is a minor update. Users that are not concerned with one of the new features below are not required to upgrade.

9.11.2   Change Logs

New Features	
CineLister	Adds "Play then Eject" loop mode.
Macro Editor	Adds "Library" support.
Bug Fixes	
There is no bug fix in this release.	

9.11.3   Known Issues

There is no known issue referenced at this time.

9.11.4   System Changes

Add the new directory "/doremi/etc/cueslib" to store a list of pre-created macro definition file.

9.11.5   Compatibility Notes

The release is fully compatible with other 0.5.2-x releases.

9.11.6   Installation Notes

None.

9.12 Software Version 0.5.2-10

This section provides the release notes for the DCP-2000 software version 0.5.2-10, generated on July 06th, 2007.

9.12.1 Recommendation

Due to important new features and bug fixes, Doremi strongly encourages all users with an older 0.5.2-x software to upgrade.

To properly support all new video formats, we encourages users to also upgrade the server firmware to 2.88a or 21.01c.

9.12.2 Change Logs

New Features	
Device Manager	- Adds "DLP UserName" and "DLP Password" in device Projector configuration view. - In "DLP Head Connection Test" window, querys the list of MACRO name instead of projector version.
System Monitor	- Adds few more S.M.A.R.T. SNMP sensors.
Automation	- Handles macro "SendMessage" with text with escape sequence (such as \n, \r, …)
Playback	- Beta support for JP2K 1080p @ 23.98/24/25/29.97/30 - Beta support for 3D JP2K 1080p @ 23.98/25/29.97/30
Bug Fixes	
Player	- Fixes HD-SDI timecode with MPEG2 material. - Fixes projector code if the configuration file is changed at runtime. - Better handling of projector with big subtitles to load. - Fixes audio for 29.97Hz content.
Automation	- Fixes a crash if user create a macro without a name
TLS	- Fixes TLS refresh issue when we add/delete a CPL which appears in multiple ASSETMAP.
Device CSS	- Fixes a crash if the CSS power off while the server is running.
System Monitor	- ECC and KDM sensors are now included in SNMP monitoring.
Ingest UI	- Fixes bug for DCP with subfolders scanning. - By default, ingests in read-only mode all DCP that does not come from /data directory.

9.12.3 Known Issues

There is no known issue referenced at this time.

9.12.4 System Changes

- Automount support for eSata drive.
- Detects cold-plugged USB and eSata drives.
- The SNMP MIB has been updated.

9.12.5 Compatibility Notes

The release is fully compatible with other 0.5.2-x releases.

9.12.6 Installation Notes

None.

10 Document Revision History

Date	Version	Description
10/30/2007	1.0	First version.
11/12/2007	1.1	Addition of Software 0.5.2-18 release notes.
05/09/2008	1.2	Addition of Service Pack 1 for Software 0.5.2-18 release notes.
09/29/2008	1.5	Addition of software version 0.5.2-22SP1 (Release Candidate) release notes.
10/03/2008	1.6	Addition of software release version 0.5.2-26.
11/17/2008	1.7	0.5.2-22SP1 and KDMs.
01/30/2009	2.0	Addition of software version 0.5.2-26 notes.
05/14/2009	2.2	Addition of software version 0.5.4-2 notes.
07/27/2009	2.4	Addition of a known issue to version 0.5.2-22SP1 notes, and of a known issue to version 0.5.4-2 notes.
11/12/2009	2.6	Addition of software versions 1.0.1 and 1.0.4 notes.
02/10/2010	2.7	Addition of software version 1.2.0 notes.
03/02/2010	2.8	Section 2.1.6 modified.
03/16/2010	2.9	Addition of software version 1.2.1 notes.
04/19/2010	3.0	Addition of software version 2.0.0 notes.
06/09/2010	3.1	Addition of software version 2.0.4 notes.
06/16/2010	3.2	Addition of software version 2.0.5 notes.
09/11/2010	3.3	Addition of software version 2.0.7 notes.
10/21/2010	3.4	Addition of software version 2.0.10 notes.
04/15/2011	3.5	Addition of software version 2.2.x notes.
07/22/2011	3.6	Addition of software version 2.2.1 notes.
08/08/2011	3.7	Addition of software version 2.2.2 notes.
10/24/2011	3.8	New notes added for software version 2.2.3.
06/08/2012	3.9	New notes added for software version 2.2.5.
11/11/2012	4.0	New notes added for software version 2.4.1.
12/12/2012	4.1	Software version 2.4.2 notes added and software version 2.4.1 known issues completed.
01/04/2013	4.2	All Compatibility sections updated.
09/16/2013	4.3	Release Notes added for software version 2.4.4.
11/19/2013	4.4	Release Notes added for software version 2.5.4.
02/18/2014	4.5	Release Notes added for software 2.6.3.
03/14/2014	4.6	Software version 2.6.3 recommendation and known issues updated.