



Release Notes

Presentation Recorder HD
Versions 6.10.0, 7.10.0 & 8.1.0
(Software Updates)
April 12th, 2017

NCast Support

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Thank you for purchasing NCast products

Introduction

This note covers the changes to software in the NCast Presentation Recorder products.

The fastest way to get support for your product is to open a support ticket on our website. Go to the Contact page on our site to get started. It is often helpful to include the downloaded logs with your ticket. Logs may be downloaded from the Status page on the recorder.

Software Updates

You may obtain the most current software by clicking the UPDATE icon in the Presentation Recorder web page.

- 8.1.x Releases – PR-HD Products (Basic, Extreme, Ultra)
- 7.10.x Releases – PR-720 Extreme Products
- 6.10.x Releases – PR-720 Basic Products

Version 8.1.0 changes

January 16th, 2017

New features

Switched to HTML5 video player.

Bug Fixes

Google Calendar fix.

Version 8.0.30 changes

November 14th, 2016

New features

This is a maintenance release only.

Bug Fixes

No bugs!

Version 8.0.29 changes

October 28th, 2016

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FAT file time stamps fix - use local time instead of UTC.

Version 8.0.28 changes

September 1st, 2016

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RTMP memory leak workaround.
Added stability fix - restart media process every 3 days.
Manual archive upload fix.
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Version 8.0.27 changes

August 10th, 2016

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Bug Fixes

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June 22nd, 2016

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Opencast connection test fix.

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March 9th, 2016

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Added upload to Google Drive.
Added upload to YouTube.
Added Media Gallery.
Added license key for Media Gallery.

Bug Fixes

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Version 8.0.24 changes

February 4th, 2016

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December 7th, 2015

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Google calendar fix - only IP address was supported in Where field.

OSD fix - update IP address.

Version 8.0.22 changes

September 25th, 2015

New features

This is a maintenance release only.

Bug Fixes

Fixed scheduler issue when using Opencast 2.0 server.

Version 8.0.21 changes

July 23rd 2015

New features

Added Kaltura Drop Folder XML file option to FTP and SSH upload.

Bug Fixes

No bugs.

Version 8.0.20 changes

July 1st, 2015

New features

This is a maintenance release only.

Bug Fixes

iCalendar scheduler fix - iCalendar checkbox couldn't be set to on.

Auto window mode fix - window size was not set correctly for 1920x1200 inputs.

Version 8.0.19 changes

June 15th, 2015

New features

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Bug Fixes

Scheduler fix - forbidden chars in UTF-8 string could crash scheduler.

Version 8.0.18 changes

June 9th, 2015

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Bug Fixes

RTMP streaming fix - reconnect to RTMP server on connection timeout.

Version 8.0.17 changes

March 16th, 2015

New features

Added PB serial command (start session).

Added UP serial command (upload progress).

Added C<num>,N serial command. This command selects channel <num> without starting session.

Added network iCalendar support - scheduler downloads iCalendar file from remote location (for example from Google Calendar).

Added Google Calendar API v3 support to scheduler.

Bug Fixes

VGA signal detection fix - fixed IFM measurements of vfreq and vtotal.

Serial interface fix - fixed streaming status for record only session type.

Upload start on slave unit fix - fixed rpc params and json encoding.

Audio capture fix - increased size of capture buffer, increased number of audio encoder buffers.

RTMP streaming channels fix - unit was using multicast addresses in RTMP streaming mode.

RTP library fix - process could crash because local source was removed (large number of RTP receivers).

VGA picture freeze fix - for some cases VGA auto positioning was setting negative hstart value.

Audio encode start fix - flush audio buffer on encode start to avoid large offset between audio and video in recordings.

Slave upload to Matterhorn fix - fixed broken id.

Disabled M0 and M1 serial commands.

HTTPS protocol fix - updated lighttpd server to fix issues with HTTPS on some browsers.

Quick Start page fix - allow coordinator to get /configuration/slave REST endpoint.

Fixed broken VGA image and resolution detection.

Slave upload fix - on RTMP channels master unit sometimes would not initiate upload on slave unit.

H.264 and MPEG-4 encoder pixel range fix - pixel range flag was incorrectly set to 16-235 instead of 0-255.

Bigger OSD window - increased OSD window width and IP address font size.

Automatic archive remove fix - archives were not moving to trash after successful upload.

H.264 decoder speed up - enabled closed loop decoder mode.

Tuned video decoding and buffering - on 1080 products receiver video was distorted.

ST8028 lockup fix - if chip is not responding for 1 min reset it.

ST8028 communication fix - send commands to ST8028 at slower rate. ST8028 can ignore commands which are sent one after another - for example setting PIP window.

Overlays loading fix - unit was not loading new overlay if its mod time was the same as old overlay.

Recording auto start fix - don't auto start recording if it's already running (for example it was started manually earlier).

Faster RTSP reconnection - try to reconnect to RTSP server every 10 secs instead of every 1 min.

Slave unit configuration dialog fix - save configuration before Connection Test.

Architecture name fix - architecture name was cut on Status tab.

Minimum window size fix - don't set window size smaller than 2x2, setting width or height to 0 could result in unexpected behaviour.

Signal detection status fix - signal status could be wrong if HDMI signal is detected.

iCalendar fix - fixed recurrent event start time.

iCalendar fix - never-ending recurrent event fix. Parsing never-ending recurrent event was saturating CPU.

iCalendar fix - CPU usage was 100% when old Google Calendar state was left enabled.

VGA signal fix - reset capture chip on VGA signal misdetection.

Async RTMP connection start - RTMP start could block media process in some cases (if server was not available).

Is serial command fix - removed new line from architecture.

Session start fix - make sure recording has stopped before starting new session.

Video capture fix - capture thread could block in some configurations.

Version 8.0.16 changes

September 2nd, 2014

New features

Changed RTMP/RTSP Channel Start – The Session will always start even if there is no connection to the server (the unit tries to reconnect every 1 minute). You can check on the server connection status via the web page (in the bottom status bar) or by using a serial interface status command.

Updated NTP client version.

Factory defaults set NTP on.

Faster channel start - optimized overlays loading and reduced RTMP/RTSP connection time.

Updated factory SSL certificate and private key – the old certificate was no longer valid.

Added upload retry on failure. There will be 3 attempts of re-upload every 30 minutes.

Extended /rest/configuration/settings to import/export channels.

Master/Slave mode: recording pause button hidden at Master.

Added the possibility to load the system's configuration with a USB stick with settings.json and settings.json.password files.

Bug Fixes

Video decoder fix - reserved more memory for video decoder.

1080P signal capture fix - eliminated frame stitching.

System logs fix - with Remote Logging enabled logs are saved to the SD card too.

Fixed Kaltura API creator entry.

Kaltura authorized KMC users upload fix - removed partner ID.

Added additional Kaltura error messages in logs.

Upload progress to Matterhorn fix. It was showing constant value of 0%.

Version 8.0.15 changes

June 30th, 2014

New features

Added minimum fan speed option to the Custom tab. Automatic fan control will never go below this speed. Required to manage some fan types.

Added /configuration/settings REST endpoint. This endpoint exports & imports all configuration settings except files like overlays or SFTP keys.

Added custom SSH public keys upload from USB stick.

Bug Fixes

Software update from USB fix. Update from USB was looking for wrong release filename (for example dm368_a.b.c.bin instead of basic_a.b.c.bin).

Matterhorn scheduler fix. Scheduler was not retrieving new events after 24h.

Suppressed REST API JSON error message. POST call with empty body was printing warning message in logs.

Version 8.0.14 changes

June 5th, 2014

New features

This is a maintenance release only.

Bug Fixes

Matterhorn scheduler fixes: Fixed scheduler crash on configuration update. Fixed condition for finding an in-progress recording.

Version 8.0.13 changes

May 29th, 2014

New features

Added "Remove archives automatically" option. When this option is enabled the unit will automatically remove the oldest archives to free space for a new recording.

Presentation Server/Matterhorn dynamic scheduling. Schedule is updated every 30 seconds.

Bug Fixes

Software update notification fix.

Channel layout editor fix.

Adjusted audio & video synchronization.

Settings import fix.

Scheduler overlapped events fix.

Fixed setting main window size. In some cases main window vertical size was not set correctly.

Tuned I/O flush to minimize audio frame drops.

Version 8.0.12 changes

April 29th, 2014

New features

Added remote logging. System logs can be redirected to a PC host running a syslog service.

Increased max log file size to 10240kB.

Bug Fixes

Fixed reported input signal resolution.

Fan speed is adjusted more frequently on unit startup (every 10 secs).

Version 8.0.11 changes

April 1st, 2014

New features

This is a maintenance release only.

Bug Fixes

Changed ADC settings for VGA and Component inputs. With old settings the captured image was dark.

Changed RGB to YCbCr conversion for image and text overlays to use full 8-bit range.

Reset ST8028 chip on unit reboot.

Version 8.0.10 changes

March 14th 2014

New features

Coordinator can shutdown and reboot unit.

Added good bye message to unit shutdown page.

Automatically resize or empty trash can to free disk space. If disk near-full threshold is reached unit will try to go below threshold by automatically removing oldest recordings from the trash can.

Report processes status in logs every 12h.

Bug Fixes

Fixed dc<0|1> serial command.

Changed fan speed control method. New method aims to keep board temperature in 45C-47C range.

Version 8.0.9 changes

March 7th, 2014

New features

Changed search function on web page (archives, events and logs) to use regex syntax and made it case sensitive.

Bug Fixes

Report correct recording duration in paused state.

PIP Full mode fix - sometimes main window was visible.

Fixed upload to Matterhorn in master/slave configuration. Upload recordings in sequence and report correct status if upload from slave fails.

Fixed serial interface uploader status.

Fixed fan speed control support detection.

Version 8.0.8 changes

February 25th, 2014

New features

Changed upload start time granularity to 1 hour.

Added fan speed control.

Added board temperature monitoring.

Bug Fixes

Presentation Server upload fix.

Master/Slave connection fix.

Kaltura connection test fix.

Version 8.0.7 changes

January 21st, 2014

New features

Added main and PIP window full screen modes.

Added disk configuration options.

Added support for SDI input.

Bug Fixes

No bugs in this release.

Version 8.0.6 changes

December 2nd, 2013

New features

This is a maintenance release only.

Bug Fixes

STDP8028 reset workaround.

Export settings fix.

Software update from USB fix.

Version 8.0.5 changes

November 26th, 2013

New features

Added OSD options.

Enabled STDP8028 log messages

Bug Fixes

Automatic recording start fix.

Manual recording start fix.

Updated STDP8028 firmware update script.

Fixed udev init script.

Fixed software update from USB disk.

Version 8.0.4 changes

October 30th, 2013

New features

This is a maintenance release only.

Bug Fixes

Matterhorn scheduler fix.

Version 8.0.3 changes

October 24th, 2013

New features

This is a maintenance release only.

Bug Fixes

JSON memory leak fix.

Added support for special characters in capture agent name.

Version 8.0.2 changes

September 20th, 2013

New features

This is a maintenance release only.

Bug Fixes

Serial interface upload status fix.

Fixed RL serial command.

Fixed memory leaks.

HDMI & DVI signal detection fix.

Auto adjust fix.

Scheduler event location fix.

PPS encoding fix.

Version 8.0.1 changes

September 6th, 2013

New features

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Bug Fixes

Fixed REST endpoints for getting scheduler events.

Scheduler ICalendar parser fix.

Version 7.10.0 changes

January 16th, 2017

New features

Switched to HTML5 video player.

Bug Fixes

Google Calendar fix.

Version 7.9.32 changes

November 14th, 2016

New features

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Bug Fixes

No bugs.

Version 7.9.31 changes

October 28th, 2016

New features

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Bug Fixes

FAT file time stamps fix - use local time instead of UTC.

Version 7.9.30 changes

September 1st, 2016

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RTMP memory leak workaround.

Added stability fix - restart media process every 3 days.

Manual archive upload fix.

Fill overrun audio samples with silence in MP4 files.

Version 7.9.29 changes

August 10th, 2016

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Updated Nginx server to version 1.8.1.

Bug Fixes

No bugs!

Version 7.9.28 changes

June 22nd, 2016

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Rotate the Opencast log file. The last release 8.0.25 introduced very serious issue. A new Opencast log file was added but it was not rotated so after time the filesystem was full. This release will fix it. We recommend immediate update for all Opencast users who are running 8.0.25.

Opencast connection test fix.

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March 9th, 2016

New features

Added upload to Google Drive.

Added upload to YouTube.

Added Media Gallery.

Added license key for Media Gallery.

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February 4th, 2016

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Memory leak fix - RTMP streaming leaked memory on each connection failure.

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Google calendar fix - only IP address was supported in Where field.

OSD fix - update IP address.

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Bug Fixes

Fixed scheduler issue when using Opencast 2.0 server.

Version 7.9.23 changes

July 23rd, 2015

New features

Added Kaltura Drop Folder XML file option to FTP and SSH upload.

Bug Fixes

No bugs.

Version 7.9.22 changes

July 1st, 2015

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iCalendar scheduler fix - iCalendar checkbox couldn't be set to on.

Auto window mode fix - window size was not set correctly for 1920x1200 inputs.

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June 9th, 2015

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Bug Fixes

RTMP streaming fix - reconnect to RTMP server on connection timeout.

Version 7.9.19 changes

May 29th, 2015

New features

This is a maintenance release only.

Bug Fixes

Video framerate fix - framerate was fixed to 25.

Fixed ls serial command - Genesis code version was followed by new line.

Version 7.9.18 changes

March 16th, 2015

New features

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Added C<num>,N serial command. This command selects channel <num> without starting session.

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HTTPS protocol fix - updated lighttpd server to fix issues with HTTPS on some browsers.

Quick Start page fix - allow coordinator to get /configuration/slave REST endpoint.

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Async RTMP connection start - RTMP start could block media process in some cases (if server was not available).

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Factory defaults set NTP on.

Faster channel start - optimized overlays loading and reduced RTMP/RTSP connection time.

Updated factory SSL certificate and private key – the old certificate was no longer valid.

Added upload retry on failure. There will be 3 attempts of re-upload every 30 minutes.

Extended /rest/configuration/settings to import/export channels.

Master/Slave mode: recording pause button hidden at Master.

Added the possibility to load the system's configuration with a USB stick with settings.json and settings.json.password files.

Bug Fixes

System logs fix - with Remote Logging enabled logs are saved to the SD card too.

Fixed Kaltura API creator entry.

Kaltura authorized KMC users upload fix - removed partner ID.

Added additional Kaltura error messages in logs.

Upload progress to Matterhorn fix. It was showing constant value of 0%.

Version 6.9.16 changes**June 30th, 2014**

New features

Added /configuration/settings REST endpoint. This endpoint exports & imports all configuration settings except files like overlays or SFTP keys.

Added custom SSH public keys upload from USB stick.

Bug Fixes

Matterhorn scheduler fix. Scheduler was not retrieving new events after 24h.

Suppressed REST API JSON error message. POST call with empty body was printing warning message in logs.

Version 6.9.15 changes**June 5th, 2014**

New features

This is a maintenance release only.

Bug Fixes

Matterhorn scheduler fixes: Fixed scheduler crash on configuration update. Fixed condition for finding an in-progress recording.

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May 29th, 2014

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Added "Remove archives automatically" option. When this option is enabled the unit will automatically remove the oldest archives to free space for a new recording.

Presentation Server/Matterhorn dynamic scheduling. Schedule is updated every 30 seconds.

Bug Fixes

Software update notification fix.

Channel layout editor fix.

Settings import fix.

Scheduler overlapped events fix.

Tuned I/O flush to minimize audio frame drops.

Version 6.9.13 changes

April 29th, 2014

New features

Added remote logging. System logs can be redirected to a PC host running a syslog service.

Increased max log file size to 10240kB.

Bug Fixes

Fixed reported input signal resolution.

Version 6.9.12 changes

March 14th, 2014

New features

Coordinator can shutdown and reboot unit.

Added good bye message to unit shutdown page.

Automatically resize or empty trash can to free disk space. If disk near full threshold is reached unit will try to go below threshold by automatically removing oldest recordings from the trash can.

Report processes status in logs every 12h.

Bug Fixes

Fixed dc<0|1> serial command.

Version 6.9.11 changes

March 7th, 2014

New features

Changed search function on web page (archives, events and logs) to use regex syntax and made it case sensitive.

Bug Fixes

Report correct recording duration in paused state.

PIP Full mode fix - sometimes main window was visible.

Fixed upload to Matterhorn in master/slave configuration. Upload recordings in sequence and report correct status if upload from slave fails.

Fixed serial interface uploader status.

Version 6.9.10 changes

February 24th, 2014

New features

Changed upload start time granularity to 1 hour.

Bug Fixes

Presentation Server upload fix.

Master/Slave connection fix.

Kaltura connection test fix.

Version 6.9.9 changes

January 21st, 2014

New features

Added main and PIP window full screen modes.

Added disk configuration options.

Bug Fixes

No bugs in this release.

Version 6.9.8 changes

November 26th, 2013

New features

Added OSD options.

Bug Fixes

Automatic recording start fix.

Manual recording start fix.

Fixed udev init script.

Fixed software update from USB disk.

Version 6.9.7 changes

October 30th, 2013

New features

This is a maintenance release only.

Bug Fixes

Matterhorn scheduler fix.

Version 6.9.6 changes

October 24th, 2013

New features

This is a maintenance release only.

Bug Fixes

JSON memory leak fix.

Added support for special characters in capture agent name.

Version 6.9.5 changes

September 12th, 2013

New features

This is a maintenance release only.

Bug Fixes

Serial interface upload status fix.

Fixed RL serial command.

Version 6.9.4 changes

September 6th, 2013

New features

This is a maintenance release only.

Bug Fixes

Fixed REST endpoints for getting scheduler events.

Scheduler ICalendar parser fix.

Version 6.9.3 changes

August 16th, 2013

New features

This is a maintenance release only.

Bug Fixes

Serial interface fix.

Version 6.9.2 changes

August 7th, 2013

New features

This is a maintenance release only.

Bug Fixes

Status tab refresh fix. Time listed on the Status tab now updated.
Web page reload fix. Updated when javascript changes.
Serial interface overrun condition fixed.

Version 6.9.1 changes

August 2nd, 2013

New features

Added archive playback to web page. Use the "Play" button to view archives.

Bug Fixes

Matterhorn SSL protocol fix.

Version 6.9.0 changes

July 15th, 2013

New features

Added slave unit feature. Allows Master/Slave pairing for dual hi-def recording.
Kaltura connection test now checks credentials.

Bug Fixes

OSD window position.
Display mode change.
HDMI PAL signal position.
HTTP resume header.

Version 6.8.4 changes

June 15th, 2013

New features

This is a maintenance release only.

Bug Fixes

Gm1601 auto adjust fix. Caused VGA component input to fail.

Version 6.8.3 changes

June 12th, 2013

New features

Archive processing & uploading can start when session is active.
Added "Upload XML file" option.
Added Presentation Server events & notifications.

Bug Fixes

Auto stop session after recording auto stop on recording only channel.
Web page hiding on load fix (for Google Chrome on Windows 7).
REST API etag and modtime fix.
Matterhorn scheduler fix.

Matterhorn upload when Series not specified fix.
Kaltura password fix.

Version 6.8.2 changes

May 31st, 2013

New features

Added audio input delay option. Allows fine tuning of audio-video synchronization.

Bug Fixes

Fixed rest process configuration update.
Added channel preview refresh on web page.
Import settings fix.

Version 6.8.1 changes

May 9th, 2013

New features

Added software update notes. Provides information on new features and fixes.
Added RE serial command (empty archive trash).
Added audio only mode.

Bug Fixes

New software update check fix.
Fixed progress indicator on Uploads tab.
Web page audio level fix.
Fixed Matterhorn events buffer overflow.
Fixed Matterhorn start session sleep.
Fixed upload to Matterhorn (files with non-existent ID).
Recording's Title and Presenter set according to Matterhorn XML.
Matterhorn XMLs stored in archive's info file.

Version 6.8.0 changes

April 18th, 2013

New features

Added secondary archive upload option, e.g., upload to USB and a server.
Changed third and fourth text overlays to time-of-day counters (time-stamps).

Bug Fixes

None.

Version 6.7.3 changes

April 16th, 2013

New features

Dynamic text overlays added to text windows. Allows time-stamp burn-in.
Presentation Server/Matterhorn upload without using a zip file.
Added RTMP server reconnect.

Bug Fixes

SFTP upload fix.
Archives download fix.
Safari capture preview fix.

Version 6.7.2 changes**March 6th, 2013**

New features

Added SSL support to Presentation Server.
Presentation Server scheduler improvements.

Bug Fixes

Kaltura authentication fix.

Version 6.7.1 changes**February 20th, 2013**

New features

This is a maintenance release only.

Bug fixes

Disabled "Verify user password" option.
Removed web page logout function.

Version 6.7.0 changes**February 15th, 2013**

New features

Added Main & PIP window mode option.
Added support for RTMP authentication.
Added SNMP support.
Implemented "Verify user password" option.
Added web page logout function.

Bug Fixes

RTMP performance fix (set out chunk size to 4096).
Changed "Archive ready" event to "Archive create" event.
Presentation Server events update fix.
Validated HTML files.

Version 6.6.0 changes**January 24th, 2013**

New features

Added RTMP streaming protocol support. Connects with Adobe FMS, CDNs.

Set DHCP hostname to a user friendly value.

Added UPS support. Allows programmed power shutdown.

Disabled limited auto adjust.

Enabled auto adjust for video modes and on video channel.

Bug Fixes

Web page audio meter fix.

Firmware factory reset fix.

Fixed recovery access.

Version 6.5.1 changes

December 7th, 2012

New features

Support for automatic upload to Kaltura servers.

Added RTSP support for Evostream Media Server.

Added PIP enable/disable and text overlays edit in Quick Start.

No network functionality added (i.e. network connection not required).

New default settings (Auto) for video and graphics inputs.

Added SDP session name.

Updated info screens.

Network packet sending optimization.

Reimplemented image overlays.

Bug Fixes

Recording auto-start fix.

Subtitle uploads to Presentation Server.

Video decoder status fix.

REST API archive description encoding fix.

Logs sorting fix.

Version 6.5.0 changes

October 1st, 2012

New features

Initial release.

Bug Fixes

N/A.