

ICMP Software [R3351753]

Platform/Software	Package version	Status	Release date
ICMP Software	1.2.5.8	Service Release	December 21st, 2016

1 Introduction

1.1 About this document

This document provides the release notes of the different versions of the ICMP software and it should be used by anyone wishing to install a software version of ICMP. The release note is provided in the software update package and is available on the secured Barco website (<https://www.barco.com>).

1.2 About ICMP

The Integrated Cinema Media Processor (ICMP) stores, decrypts and decodes the cinema content and delivers it to the projector in a usable format, all integrated into a single assembly placed directly in the projector.

1.3 About this release

Version 1.2.5.2 is the new ICMP firmware release bringing improvements and new features (LTC, Alternative Input Clip, Show duration incl. intermission, ...). For a complete feature overview please refer to the "Feature Improvements" chapter of this document.

Version 1.2.5.8 is a service release.

2 ICMP Software Release Notes

2.1 Version 1.2.5.8 – December 21st, 2016

In order to have access to all 1.2.5.8 features and improvements, please install:

Software	Version	Reference
Barco Communicator Software		
Barco Communicator (Windows)	5.3.1 or higher	R33002303 /24
Barco Communicator (Mac)	5.3.1 or higher	R33002302M /21
Barco Communicator (Linux)	5.3.1 or higher	R33002303L /21
Barco Commander Software		
Barco Commander (Windows)	1.5.0 or higher	R33051752 /09
Barco Commander (Mac OS X)	1.5.0 or higher	R33051754 /09
Barco Commander (Linux)	1.5.0 or higher	R33051755 /09
Clone package		
Clone package for Galaxy 4K projectors without Infitec	dpBaseCloneIcmp_Galaxy4K.2.7.8*	R33051784 /03
Clone package for Galaxy 4K projectors with Infitec	dpBaseCloneIcmp_Galaxy4K.2.7.8*	R33051769 /05
Clone packages for 2K/4K projectors	dpBaseCloneIcmp.2.7.7*	R33051762 /06
Clone packages for 4K Laser projectors	dp4K-60L_BaseCloneIcmp.2.7.7*	R33051796 /03
Cinema Controller Software		
Cinema Controller for L series	Any version	-
Cinema Controller for B and C series	1.13.192	-

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Cinema Controller CLP series	2.1	-
Cinema Controller for S and E series	1.9	-
Other files		
Configuration files (Automation for CPXXX)	._**	R33051807 /02
Hardware	Version	Reference
ICMP***	Rev 19 or higher	R98011351

* See Barco Communicator manual for more info on cloning.

** Those xml files can be merged to the existing ICMP Automation cues library. Once merged, it is advised to change the IP address of the new added device.

*** **ONLY required for LTC** ! All previous HW rev. are fully compatible with version 1.2.5, but will not output LTC.

2.1.1 Feature Improvements

1.2.5.8 (SERVICE RELEASE)

- Extension to the 1.2.5.6 fix for the communication issues causing color flashing/drop outs, covering very specific corner cases as well
- Fix a communication issue with Sony Close Caption device

1.2.5.6 (SERVICE RELEASE)

- Fix some color issues

1.2.5.4 (SERVICE RELEASE)

- Fix an issue with LTC-SCC files when performing an upgrade to 1.2.5
- Fix an issue with the size of the ICMP error messages list

1.2.5.2 (INITIAL RELEASE)

- LTC: ICMP is now generating by default a LTC sync (Linear Time Code) on "Sync - Out" port, according to SMPTE-12M-1 standard. ICMP HW rev. 19 or higher is required to output this sync signal (**R98011351**)
- Alternative Input Clip : New kind of Special Clips to switch directly to an alternative input (HDMI, Display Port)
- Improve show total duration calculation, including the intermission duration
- New emergency cue : "On Player Stopped On Error", preventing leaving rooms in the dark
- Standardize the "Pause" UI behavior between Barco WebCommander and Commander
- Grouping Cues in the Show Editor
- Added support of Interop CPLs with Close Caption
- Restrictions on the choice of ip addresses are lowered. The ip address of LAN1 or LAN2 can now be in the same range as the projector LAN.
- Fix a HDMI source behaviour. It was possible that, during an HDMI payout, the image was switching to an internal test pattern.

1.2.4.5 (SERVICE RELEASE)

- Improvements for master and slaves communication in multi-projectors configurations

1.2.4.4 (SERVICE RELEASE)

- Fix an ingest issue for DCPs with PNG Subtitles (USB and FTP ingest were concerned)
- Fix an InsertShow intermission issue on DCPs with PNG Subtitles

1.2.4.3 (SERVICE RELEASE)

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- Improve SDI port B stability
- Improve HDMI behavior :
 - Several improvements when switching from one HDMI format to another
 - Improve recover from not-detected 3D format

1.2.4.2 (SERVICE RELEASE)

- Improve playback robustness of ATMOS content
- HDMI : 1024x768p at 60Hz format is now supported
- Fix a FIPS issue on ICMP startup

1.2.4.1 (INITIAL RELEASE)

- Improve system behavior when switching between two alternative inputs. An auto blanking mechanism is now used
- Improve RAID management when mixing hard drives within a RAID
- Improve system behavior when adding new drives to an existing RAID (fix an issue with the calculation of the size of all drives)
- Barco Commander : Fix an issue regarding the RAID rebuild progression status (% value)
- Improve FileSystem check behavior
- Improve Automation settings and execution (Avoid system crash when modifying settings or executing a cue due to network socket handling when Jnior device is connected)
- Add 3D full white and 3D horizontal ramp test patterns
- MTU value is now set to 1500 as a default value in the factory settings
- Fix an issue on scheduler on DST change day
- Improve ingest behavior when disconnecting an active USB source (fix an issue when disconnecting a USB with a failing and non-stopped ingest job)
- Improve USB ingest behavior on Escape setup (when master is handling ingest jobs for its slaves)
- No blanking inserted when playing 3D CPLs with different aspect ratio in a show
- Added support for 20CLP projectors

1.2.4.0 (BETA RELEASE)

- Soft Reboot: It is possible to reboot the ICMP only (without performing a full reboot of the projector) using Barco Communicator 5.2.1 or higher
- Auto 3D FPS adaptation: On MediaPlayer input, the Dolby wheel will re-sync automatically when playing 3D content with different frame rates
- Player and scheduler can be active when an alternative input is selected. New scheduler options are also available on Barco Communicator. Please refer to the ICMP User Manual for a full description of this feature
- New warning messages are displayed :
 - when mixing 1To and 2To drives in the same RAID
 - when trying to delete a scheduled show, a clip that is part of a show or a valid KDM
- Support of UDP devices for automation is now available
- Automation over IP is now supported. Please refer to the Manual to have a complete description of all commands
- On an Escape setup, the Master projector is now handling USB and FTP ingest jobs for its slaves
- On Barco WebCommander, CPL check icon is now dynamic
- A new automation cue is added: "Rewind (Seconds)"
- It is now possible to save a macro as a cue

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- IP settings for DHCP: it is now possible to configure LAN settings of the ICMP in the same range as the CinemaController
- PNG Masking: Users can now load PNG file with a size higher than 65kb for custom masking.
- In the vertical player timeline, the current playing clip will always be display on top of the list when navigating to this player view

1.2.3.4 (SERVICE RELEASE)

- Fix an issue in the synchronization between DisplayPort inputs (HSPAN formats)

1.2.3.3 (INITIAL RELEASE)

- Fix an issue for corrupted CPLs
- Fix a DCP-Publishing issue for Interop CPLs with xml subtitle
 - Published DCP for Interop CPL that are already present in previous 1.2.3.x versions are not updated with the fix and have to be re-ingested
- Fix a File System Check issue after playback
- Fix a show issue (when created with Barco Commander) for multi-projectors setups

1.2.3.2 (BETA)

- Improvements on all alternative inputs :
 - HDMI 3D: Frame packing, Top/Bottom and Side By Side 3D formats are now supported. For a complete list of supported resolutions and frame rates (including support of interlaced formats), please refer to ICMP Installation Manual.
 - 3G-SDI improvements on all SMPTE292 and SMPTE424 supported formats (including support of interlaced formats), color spaces and audio formats. For a complete list of supported resolutions and frame rates, please refer to ICMP Installation Manual.
- Improve multi-projector behavior when re-positioning in a show.

1.2.3.1 (BETA)

- Immersive Sound Integration – Dolby ATMOS®: it is now possible to configure a Dolby CP850 immersive sound renderer (using Barco Communicator) and send the ATMOS immersive sound track to the renderer while playing such CPL. Two KDMs are needed for ATMOS encrypted playback (one for the ICMP, one for the CP850). Please refer to the ICMP user manual for a complete overview of this feature. No license required.
- Dual Active 3D. In a “dual projector” setup, both projectors can be configure to play both frames leading to active 3D playback
- DCP-Publishing: connect, using FTP, to an ICMP in order to download CPLs stored on local storage. It is also possible to transfer content from an ICMP to other devices using FXP protocol
- PNG Masking : using Barco Communicator, it is now possible to load a PNG file to create a custom mask
- Delete multiple clips at the same time in Show Editor
- A new player timeline is available
- Enabling Audio on DisplayPorts
- “playoutComplete” event is also written in the SecureLogs for non-encrypted content

2.1.2 Limitations

Features not yet activated:

- LTC : SMPTE12M-1 does not support HFR or interlaced field
- 3G-SDI: color space setting via PCF file only when not available in stream payload.

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- HDMI :
 - Some image artefacts might appear when switching from one HDMI 4K format to another or rebooting/reconnecting the HDMI device
 - WORKAROUND: reapply the correct HDMI macro
 - Select a TestPattern when HDMI source is selected is not working if no HDMI device connected
 - Side-by-side full sources are not supported
 - 480i sources are currently not supported
- Display Port : 3D formats on single display port are not supported (2048x1080 and 1920x1080)
- Alternative content decoder (MPEG-2 DCPs are readily supported)
- It is not possible to resize 4K content/sources with a frame rate more than 48fps.
- Cannot parse drives with more than 100.000 files.
- No content must be selected in the player in order to change the ICMP player settings or in order to reset the ICMP factory settings.
 - Audio-channel settings can be changed while playing.
- When using the USB Tethering from your tablet to connect to the ICMP, your tablet will not charge when in use (or charge very slowly).
- Post Production Communicator: CLUT is not supported and no color adjustment on some internal test patterns
- The IP address range 192.168.254.xxx is also not allowed for ICMP Lans or Projector IP address. Please refer to the Barco Communicator Manual for more details
- DCP-Publishing:
 - The FTP client has to be configured in "Binary mode" in order to be able to retrieve files from the ICMP.
 - When using the FXP protocol (between an ICMP and a TMS for example), it is recommended to transfer one file at a time in order to avoid any file corruption.
 - FTP username and password are not editable by users.

2.1.3 Software defects

Barco puts utmost efforts in testing software, however the errors listed below or other issues may occur. Please contact your Barco support in case of any trouble.

- Some USB keys and USB3.0 drives may sometimes fail to be recognized by the ICMP.
 - WORKAROUND: for USB3.0 drives try high-quality cables (gold plated connectors).
- There is no warning when a show with invalid content or invalid/missing KDM is scheduled.
- In some cases an intermission cue that includes a Stop action (e.g. to switch to an alternative content input), may result in this intermission being played in a loop continuously, instead of only once.
 - WORKAROUND: make sure to delay the first stop by one second. E.g. this cue configuration will properly execute an intermission of 15 seconds (delays in msec):

PLAYER	Stop	1000
PROJECTOR	Macro->DP	5000
PROJECTOR	Macro->MediaPlayer	18000
PLAYER	Play	20000
- Dual Projection setup have some limitations :
 - While doing the setup, please only use numerical IP addresses to define the Slave setup (hostname is not working).
 - Text error messages for the same error are different on Master and Slave interfaces.

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- It is possible to configure both Master and Slave to display the same eye. With such a configuration the stereoscopic effect is lost, but no specific warning is displayed.
- If the Master ICMP is going offline (hard shutdown, power failure, ...), playback will continue on the slave projector.
 - WORKAROUND: please connect with Commander/Web Commander on the slave projector to stop the playback manually.
- Escape Projection setup have some limitations :
 - If the Master ICMP is going offline (hard shutdown, power failure, ...), playback will continue on slave projectors.
 - WORKAROUND: please connect with Commander/Web Commander on slave projectors to stop the playback manually.
 - If one of the two slave projector is going offline (hard shutdown, power failure, ...), playback will continue on the other slave projector until the next transition. Then the playback will be stop on both slaves.
 - WORKAROUND: please connect with Commander/Web Commander on the running slave projector to stop the playback manually.
 - As an Escape DCP is always SMPTE compliant, Interop content (including subtitles) are not supported.
 - When the master ICMP is in a "Paused" state, Slaves projectors are still displaying "Playing" as a status (but they are paused, waiting for the Master ICMP to restart the playback).

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