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Lake Controller v8.1.5 Release notes

Important information about features, compatibility and known issues:

Headlines - what's new?

- Added support for *Spectrum Averages* and *Transfer Averages* in the Rational Smaart v9 EQ Analyzer.
- New *Solo Priority* mode (now default) which disregards existing input mutes when a module is soloed
- The *Input Mixer* tab in *I/O Config* now features the option to configure what action to take with the click of a button

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Lake Software Release notes

Thank you for choosing a Lake product for your sound reinforcement and processing needs. Please read these notes to become familiar with the contents and currently known issues in this release. Generally, we encourage you to update your existing software to this new release as soon as possible, in order to benefit from the many new features added as well as some known issues corrected. More details can be found in the section about 'Who should upgrade?'.

Keeping you up-to-date

For latest information and new releases please visit:
https://www.labgruppen.com/Categories/c/Labgruppen/Downloads

You can also follow us on Facebook, *@Lab.gruppen* and *@Lakeofficial* and keep updated via Twitter by following *@labgruppenpower* and *@Lake_official*

Technical support

For further details regarding operation, please refer to the appropriate manual included in this release. Online technical information, FAQs and support requests can be found at
https://www.labgruppen.com/brand/labgruppen/support

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Patch Release v8.1.5 — Installer 156 (2024-12-20)

Overall

This patch release addresses critical issues found in earlier releases and adds a few new features (see list of new features below).

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Software and firmware components in this installer

Component	Version	New	Comment
Installer	156	X	
Lake Controller	8.1.5-69	X	v8.1.5-69-g6d3ad9224
D Series Lake Firmware	Bundle 00.05.50	X	
ARM/DSP	6d3ad9224	X	
FPGA	97		
DICO	1.2.23, PSU		D80, D120, D200
DSPA	1.2.6		D10, D20, D40
Dante	1.3.42	X	
Safe Image	0.41		
PLM+ Series Firmware	Bundle 00.05.50	X	
ARM/DSP	6d3ad9224	X	
FPGA	97		
Front	4.4.8		
DICO	1.2.23, PSU		PLM8K44, PLM12K44, PLM20K44
DSPA	1.2.6		PLM5K44
Dante	1.3.42	X	
Safe Image	0.41		
PLM Series Firmware (and OEM)	Bundle 00.05.85	X	
DSP	6d3ad9224	X	
FPGA	41		
Front	1.9.2		
Amp	0.14.5, PSU		
Dante	3.0.1.48		
PLM Safe Mode Image	0.03 (label 99.03)		See separate instructions section
LMX Series Firmware	Bundle 00.05.50	X	
ARM/DSP	6d3ad9224	X	LMX 48, LMX 88
FPGA A	219		
FPGA B	1.1.5		
Front	1.1.86	X	
Dante	1.3.42	X	
Safe Image	0.41		
LM Series Firmware	Bundle 00.03.85	X	
DSP	6d3ad9224	X	LM 26, LM 44
FPGA	1058		
Front	2.2.2		
Dante	3.0.1.48		
LM Safe Mode Image	0.02 (label 99.02)		See separate instructions section
MY8-LAKE Firmware	Bundle 00.05.50	X	
ARM/DSP	6d3ad9224	X	
FPGA	R6041		
Lake Firmware Update Utilities	8.1.5-69	X	
Preset Manager Utilities			
Preset Manager	8.1.5-69	X	
LM Series	8.1.5-69	X	
Analyzer Integration			
Smaart v7 / Di	1.2 / 1.0		
Smaart v9.1	8.1.5.69	X	
Live-Capture / AudioClient	1.3		
Third Part applications			
DAPI	4.1.0.1		From Audinate (Win7 or later required, otherwise older versions are installed)
Dante Discovery	1.2.2.3		
Dante Control & Monitoring	4.0.2.1		
Lake LoadLibrary™	5.11	X	See separate release note
Documentation			
Lake Controller Operation Manual	1.7.0		Not updated with latest features
D Series Operation Manual & QSG	3.0.4		Not updated with latest features
PLM+ Series Operation Manual / QSG	3.0.4 / 2.0		Not updated with latest features
PLM Series Operation Manual & QSG	1.3.5		
LM Series Operation Manual & QSG	1.3.5		
LMX Series Operation Manual	1.0		
MY8-LAKE Owner's Manual	1.0		
Lake Network Conf. Guide	1.1.4		

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Compatibility & Support

Lake Controller firmware compatibility

The required firmware (DSP) is included in this package and can be updated with the included LakeUpdate utility:

Product	Minimum firmware version	In release
D Series Lake	5.50	Installer 156
PLM+	5.50	Installer 156
PLM Series / 20000 DP	5.85	Installer 156
LMX Series	5.50	Installer 156
LM Series	3.85	Installer 156
MY8-LAKE	5.50	Installer 156

Since LC v6.0 the Dolby Lake Processor (DLP), Lake Contour Pro 26 and MESA Quad EQ devices are no longer supported by the Lake Controller. If these devices are required, please use the latest Lake Controller from the v5.x version branch.

LC v8.0 adds support for PLM+ and D Series devices produced with the new Dante module Brooklyn 3. These devices cannot be downgraded to versions earlier than 8.0.0. The specific Dante model can be seen in the Lake Controller's Tech Data window or in the Front Panel menu (Frame Info) for PLM+ series.

Windows Compatibility

This release requires at least Windows 10 to run.

DLM – Direct Lake Messaging (3rd party protocol)
The firmware bundles of this release are compatible with the functionality of the DLM protocol v3.4.

CAFÉ and Amplify
The firmware bundles of this release are compatible with CAFÉ 1.5.8 and CAFÉ 1.3.X and earlier. The firmware in this release is also compatible with Amplify 0.1.X.

Lake Controller System and Module files backwards compatibility

Files stored in this version are backwards compatible with:

File type	Minimum LC version	In release
System files	8.1.4	Installer 155
Module files	8.1.4	Installer 155
Overlay files	8.1.4	Installer 155

Installation

This release requires that you make the installation in a new Lake Controller folder. It is recommended to install this release in parallel to any previously installed version.

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New Features

(#121157) The Rational Smaart v9 EQ analyzer plugin and Lake Controller EQ view now also support the *Spectrum Averages* and *Transfer Averages* functions.

(#7029, #121438) New *Solo Priority* mode (now also default) which, when a module is soloed, disregards any existing mutes on the module input. This mode can be disengaged to make soloing behave like in previous versions, where modules need first be unmuted to let audio through when soloed.

(#32575) *Quick Set* buttons in the *I/O Config Input Mixer* tab make it possible to select what action to perform when a button (i.e. mix point) is clicked. It now also supports toggling mutes, entering a custom gain etc with just the one click.

(#119779) On the LMX front panel, for *Mesa* modules only, input router mutes are now also indicated on the input mute buttons. This is now the same behavior as seen on the LM series where *red* means all mixed in inputs are router muted and *pink* means *some* mixed in inputs are router muted.

(#121157) The Rational Smaart EQ analyzer plugin and Lake Controller EQ view now also support the *Spectrum Averages* and *Transfer Averages* functions.

(#120023) It is now possible to toggle *Solo Safe* on modules directly from the *Solo Menu* (in addition to configuring *Solo Safe* via the *Configure Exclusions* window)

Resolved Issues

Key	Components	Description
		Critical fixes
#121040	LMX Series	The power state is now correctly stored between power-cycles. In the previous release, the most recent power state (*Standby* or *On*) was not remembered when power-cycling the device.
#121230	LMX Series	If an FPGA B update previously failed, the next device start up would fail to power up many internal functions in firmware revisions 5.48 and 5.49. This has now been fixed.
		Major fixes
#119719	LMX Series	The LMX front panel now correctly displays the current IP address.
#115034	Lake Controller LMX Series	*Mains present* is now correctly reflected in the Lake Controller for an LMX
#55254	Lake Update LMX Series PLM+/D Series	Vastly improved update sequence for daisy-chained devices when an automatic reboot is performed as the last step of a parallel update. Lake Update now waits for the last device to finish before rebooting any device, as this otherwise could break the chain.
#119832	LMX Series PLM+/D Series	The Brooklyn Telnet and FTP service ports are no longer open on the network.
		Minor fixes
#121025	LMX Series PLM+/D Series	The frame will now come online in a more stable fashion without being partially interrupted by Brooklyn Dante startup.
#121386	Lake Controller	Show Mesa module icon as input muted if no input mix
#121267 **#151568**	LMX Series	Determine internal power up failures more granularly. Show Word Clock power failure as a separate warning.
#121270	LMX Series	If in standby when there is an FPGA B Update, the device is woken up to show progress and returns to standby after completion and following automatic reboot.
#121593	LMX Series	Postpone showing Reboot Needed until FPGA B Update has finished.
#121359	LMX Series	Improved estimation of remaining time during FPGA B Update
#121266	Lake Update	An LMX with ongoing FPGA B update will indicate this in the list of frames.
#121360	LMX Series	Do not show FPGA B update simultaneously as firmware update
#118263	Lake Controller	The *Frame Replace* view no longer highlights the wrong frame when selected.
#119797	Lake Controller	Improved behavior of the program when the screen's orientation is changed
#121345 **#121134**	Lake Controller	Better handle graphics driver clearing graphics stored in the graphics card when the screen configuration changes (e.g. plugging in and out monitors).

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#119387 **#121350**	Lake Controller	For high-DPI displays the scaled minimum program resolution could make the application window appear under the Windows taskbar. By default, the program now sets itself as the topmost window in these cases. It's also possible to control this behavior through the `WINDOW_TOPMOST` setting in the INI file.
#71581	Lake Controller	The current frame is now highlighted when entering the Global IP Configuration window
#115081	Lake Controller	Correct Limiter Attack/Release button color for when TC Auto is enabled
#119543	Lake Controller	I/O Config amplifier output channel meters no longer stuck when frame goes offline
#119880 **#121447**	Lake Controller	Load Library bundled system files and frame presets are not migrated (assumed to be installed from the current Load Library)
#115084	LMX Series	The product's limit for undervoltage is now correctly stated as 90 V in all places where it is presented.
#119770 **#121157**	Lake Controller	Events and Control can now be clicked when the Global Priority window is open, and clicking in the Global Priority window does not affect underlying windows.
#121551	LMX Series	FPGA B communication stabilization.
#95241	Lake Update	Correctly match bundled Brooklyn firmware images with the product type.
#120835	LMX Series PLM+/D Series	The *No Input* fault and related functionality now respond more quickly to changes to the input mixers.
#120889	Lake Controller	The Batch Replace window is now larger.
#121269	LMX Series	When FPGA B has fallen back to its recovery image the version is indicated by * in the *Firmware Versions* view.
#119395	LMX Series PLM+/D Series	Ensure network switch is reset when Brooklyn Dante card is externally reset.
#119984	LMX Series PLM+/D Series	During Lake Update, the front panel no longer shows a rolling asterisk (*)
#121592	Lake Controller	Fixed graphical issue in Technical Data for LMX, PLM+ and D series for when Dante subnets mismatch.

Known issues

Known issues with Lake Controller and firmware

Key	Components	Description
#114709	LMX Series PLM+/D Series	Dante Inputs are sometimes 21 dB* lower than expected due to an incorrect handling of the reference levels carried over from the transmitter. *) The actual gain loss depends on what reference level (or digital sensitivity) was expected. **Workaround:** Reboot the frame to allow Dante to re-initialize. For convenience, use the *Reboot* button found in the *Technical Data* window (which can be reached from *I/O Config*).
#119779	LMX Series	The front panel meter view's module meter page does not indicate Input Router mutes.
#119719	LMX Series	The front panel shows an incorrect (old) IP address in certain situations.
#101734	LMX Series	AES50 Mirror mode does not work and is not possible to activate in the Lake Controller.
#95958	LakeUpdate	Devices briefly show up with label SAFE when update has been completed.
#12370	Lake Controller	System Files stored when some of the modules are on Scrollbar will have their configuration corrupted on a consecutive System Recall. While 7.0.3 does prevent an explicit System File store in this situation, the automatically stored system files and their backups will still exhibit this problem. **Workaround:** Make sure that for all frames in the system, all individual modules are on the Work Area. If individual modules from a frame are undesired, please use the #Unused page instead.
#6528	Synchronization	A frame in OOS may not be resolved when resolving from the EQ/Levels view
#6171	LM FW	LM Series has erroneous reporting in Dante Controller of the Dante clock if Primary clock does not use the connected AES ***Note***: No warning is presented on the module while in this state, as this is only a reporting error and does not affect audio.
#6651	Synchronization	SlowSync on large system when eq filters are removed and new filters added. ***Workaround****:* Store a System file and recall this system file and FastSync will work again.
#578	LC	A Classic 3-way module loaded to module B presents an incorrect channel name on the crossover page for the low channel (shows high instead of low).
#1492	LC	Cable data for LoadSmart functionality does not get copied during a copy / paste action.

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#1386	LC, Multiple Controllers	With multiple Controllers *2aux* module files will not sync changes to EQ AUX-tabs between primary and secondary. Workaround: Use *3aux* module files instead, or add any filters needed from primary Controller.
#1431	LC, Multiple Controllers	If connection to primary Controller is lost from secondary Controller, Events and Control popup values can still be edited from Secondary Controller – however these changes never reach the frames and when connection is established to primary Controller again all changes done on secondary will be lost
#523, #667, #668,	LC, Multiple Controllers	A system with more than one secondary Lake Controller exhibits communication problems. There are also a few minor security problems with Secondary Controllers
#830, #1665	LC, Supermodules	Super Modules do not indicate on work area if module is partly standby or offline. Workaround: Double check on All-page that all frames are online.
#1230	LC, Supermodules	There can be issues with Super Modules if 2-way from A and B modules are combined.
#7823	LC	Output routing scrambled when copying *6aux* on top of *XP4way*.
#7546	LakeUpdate	LakeUpdate does not find any devices if network failed at first
#8277	LC	Doesn't work to import FIR via worksheets anymore
#7848	LC	LevelLimits for Amplifier Outputs show the text clipped in the bottom
#7427	LC	The yellow lasso and frame around windows are not drawn when close to the edge of window
#8081	LC	Missing the small indication of the first 2 EQ overlays that they cannot be removed
#8343	LC	XOVER view is not updated with the imported FIR until the Output is changed
#8310, #8211	LC	All or parts of the UI graphics is missing after leaving the Lake Controller running for a long period or after hibernation/sleep/display settings change.
#8282	LC	Cannot load a System file due to a PLM+ need a Frame reconfiguration that failed
#8267	LC	Two error messages when a Lake XP module is recalled to an unsupported device
#8349	LC	The Levels view output slider is not updated after changes have been made in the MBL view
#8107	LC	When a Lake XP module has more overlays than fits on the screen, it is not possible to move the view to see the other overlays (works for Classic)
#7471, #7345	LC	Keyboard shortcuts do not work in the EQ view for Lake XP modules
#7608	LC	Doesn't work to double tap an EQ segment to enter fine-tune mode for XP modules
#8049	LC	The Amplifier Events & Control window can enter a state where it jumps away unintentionally

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FAQ & Technical notes

Using previous versions of the Lake Controller with PLM+/D Series

The following section is only applicable for users that would like to downgrade PLM+/D Series devices to an earlier version.

Below v8.0.0

There has been a Dante HW change (change of Brooklyn module) from the Audinate Brooklyn II (BKII) to Brooklyn 3 (BK3). A device with Brooklyn 3 cannot be downgraded below firmware bundle 5.11. Update is seamless and transparent regardless to the device being equipped with BKII or BK3.
If there is a need to downgrade a device to an earlier version, please see in the Lake Controller *I/O Config->Technical Data-> Dante Version*. Or on the PLM+ Series it's also possible to see on the front *panel Menu->Frame->Frame Info* where it is visible if it is Brooklyn II vs Brooklyn 3.
If it's a Brooklyn II it can be downgraded, if it is a Brooklyn 3 the downgrade to <v8.0 will fail and give an error message and the device will reject the firmware update.
PLM+/D Series devices with the new Brooklyn 3 module will begin shipping Q3 2022.

Below v6.7.1

v6.5.X or v6.6.X. **If you're using v6.7.1 or later, please disregard this section.**

D Series Lake Firmware (Dante compatibility update, see FAQ section)	ARM	Bundle 00.02.99	
	DSP	c5aaf10c	
	FPGA	fe61babc2	
	DICO	97	
	DSPA	1.2.12, PSU	D80, D120, D200
	Dante	1.1.6	D10, D20, D40
	Safe	1.0.188	Compatible with BII HW Rev. 4
	Image	0.27	
PLM+ Series Firmware (Dante compatibility update, see FAQ section)	ARM	Bundle 00.02.99	
	DSP	c5aaf10c	
	FPGA	fe61babc2	
	Front	97	
	DICO	4.2.11	
	DSPA	1.2.12, PSU	PLM12K44, PLM20K44
	Dante	1.1.6	PLM5K44
	Safe	1.0.188	Compatible with BII HW Rev. 4
	Image	0.27	

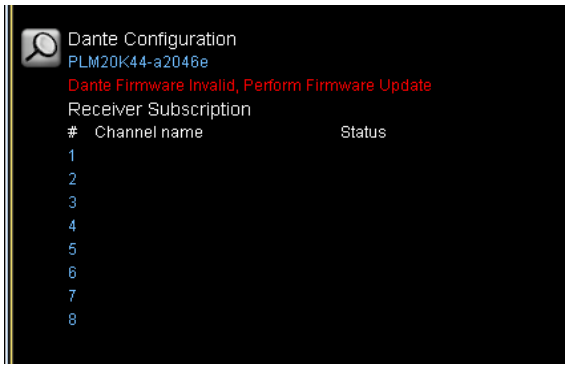
Why is this necessary?
There has been a Brooklyn HW revision change affecting Dante functionality in the PLM+/D Series devices. Products with the new HW revision will begin shipping Q1 2019.

But my system works fine, do I need to update my devices?
The procedure below is strongly recommended when using Dante on Lake Controller versions previous to v6.7.1 and performing device replacements.

I'm running PLM+/D Series with Dante in a version of the Lake Controller previous to v6.5.0, what should I do?
Please get in touch with us at www.labgruppen.com/brand/labgruppen/support for further assistance.

What happens if I try to downgrade a new PLM+/D Series device to the FW included in the installers for Lake Controller v6.5.0-v6.6.1?
This will cause a FW update failure and a mismatch between the Dante and Lake FW (see pictures below). To resolve this state, follow the procedure below for any devices added to the system.

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PLM+/D Series downgrade procedure when using previous version of the Lake Controller with Dante:

1. Install Lake Controller v6.7.1 Installer 83 or later
2. Update all your PLM+/D Series devices to FW 3.32 or the latest firmware included in the release (this step may need to be performed twice)
3. Downgrade all your PLM+/D Series devices to the **FW 2.99 included**
4. You may now update to the FW in LC v6.5.0, v6.5.1, v6.6.0 or v6.6.1 as you wish

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AES67 Quick Start Guide

1. Install Lake Controller 8.0.1 or later.
2. Install Dante Controller 3.10.0.19 or later.
3. Start the LakeUpdate and update to the included firmware.
4. Start LC and move the devices to work area
5. Go to Technical Data and disable *Follower Only* for all your PLM+/D Series frames.
6. Go to Dante Configuration under I/O Config
7. Press the *Enable Dante* button
    a. This will enable the device for networked Dante audio.
8. Press the *Enable AES67* button
    a. This will enable AES67 mode on the Dante module.
9. Start the AES67 transmitter (Q-SYS for example)
10. Start Dante Controller
11. Setup an AES67 subscription from the AES67 transmitter to the D Series / PLM+ from Dante Controller
    a. The AES67 subscriptions can be seen in Lake Controller Dante Receivers under Dante Configuration.
    b. It is not possible to set up AES67 subscriptions directly from the Lake Controller
    c. AES67 subscriptions in the Dante Receivers, will be stored in a Lake System file and FramePresets. And when recalled the AES67 subscription will be set-up just as previously has been done with Dante subscriptions.

Lake Controller v6 crashes when started or is very sluggish in performance?

The Lake Controller v6.x is using more video memory compared to v5.x and on a low spec computer with e.g. the Intel Atom this might not work together with the built in hardware acceleration for graphics. Lake Controller has an option to turn hardware acceleration on or off. Computers with e.g. Intel GPU's, such as lower specified laptops and tablet PCs, usually run better with this option set to off. The setting is persistent between sessions and is by default set to on. It can be accessed through the Graphics menu or Lake Controllers 'iC.ini' file located in the 'Config' subfolder in your 'My Documents' or 'Documents Library' folder. Set 'EMULATION=0' to turn it on and 'EMULATION=1' to turn it off.

(May 2015) A problem with current drivers on new computers based on Intel HD Graphics GPUs has been found. Until manufacturers has updated their drivers crashes may occur if high resolution is used. If you experience random crashes occurring in full-screen or high resolution LC Window Mode, please try to set down Window's screen resolution or LC Window Mode resolution to 1680x1050 or below.

Windows 7 - Error message when trying to subscribe to a Dante channel

Please note that Windows 7 is no longer supported by the Lake Controller.
If an error message is shown on Windows 7 when trying to subscribe to a Dante channel in the Input Configuration view in Lake Controller, please confirm that the IP is static and the range used is in the *169.254.X.Y* subnet.

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Dante is not compliant with Energy Efficient Ethernet (EEE)

Please do not enable EEE* in switches when running a Dante network. It has been reported to cause audio dropouts or noise in Dante audio flows. The EEE function affects the clock synchronization mechanism used by Dante.

1. For ‘Managed’ switches, disable the EEE function. (You can enable/disable EEE function by application software etc.).
2. For ‘Unmanaged’ switches, do not use Ethernet switches that support the EEE function. (This is not a configurable option in unmanaged switches).

*EEE (Energy Efficient Ethernet) function is the technology that will allow for less power consumption during periods of low network traffic.

Dante Controller sometimes stops displaying status for Lake devices

When using a large system, sometimes the Routing, Device Status and Clock Status are blank for one or a few of the online devices in the Dante Controller and clicking the ‘Reload device information’ from the Network view doesn’t help either.
Workaround: In this case, Go to the Device View (double click on the device) and press the ‘Reload device information’ from this view.

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Do I need to update my Safe Mode Image in PLM Series or LM Series?

The Safe Mode firmware (aka Image0) is initiated the first few seconds after power have been applied to the frame and loads the operations firmware. The Safe Mode firmware is not upgraded through the normal upgrade procedure. Since there has been a few important bug fixes made to the Safe Mode firmware - please read through the release history for the Safe Image and see if you are in a position where you need to update to latest version.

Component	Version	Comment
PLM Series Safe Image	0.02	Fixed an issue where the PLM booted up with the Ethernet interface in daisy chain mode also when Dual Redundancy was activated. Dual Redundancy can't be activated with 0.01.
PLM Series Safe Image	0.03	If the PLM already is upgraded with 0.02 there is no need to upgrade to 0.03. If 0.01 is installed it is recommended to upgrade to 0.03. If the device after firmware upgrade reboots as SAFE it is solved by 0.03.
LM Safe Image	0.02	Fixed an issue where the GPO for a short period during boot up was set to Closed.

How to check which Safe Mode version that is currently used?

You can check what version of Safe Mode Image that currently is in use in your PLM or LM. This is easy to do through the front panel interface by pressing Menu > Frame > Frame info > FW Version.

PROCEDURE: WARNING! ALL PRESETS AND DATA IN THE FRAME WILL BE LOST

If desired please backup current settings and all frame presets using the PLM or LM Preset Manager, and ensure a reliable power source and network connectivity before proceeding!

1. Open the Lake Firmware Update Utility supplied in this release.
2. Select the device of interest (PLM Series or LM Series).
3. Tap SELECT.
4. Select Version, for:
    - PLM; '99.03 LAB - SAFE MODE IMAGE v0.03 - 1-Mar-10' and tap OK.
    - LM; '99.02 - SAFE MODE IMAGE v0.02 - 5-Sep-11' and tap OK.
5. Read the warning message and tap OK if you wish to proceed.
6. Select the frames you wish to update and tap UPDATE.
    - Wait for dialog with message to power cycle the frame.
7. Cycle the mains power on the frame(s).
8. Wait for the standby button to go from red to briefly turn green then back to red, indicating that the Safe Mode Image upgrade is completed. The frame is now in Safe Mode as indicated in the Firmware Update Utility.
9. Tap SELECT and select the bundle target firmware then tap OK.
10. Select the frames to update then tap UPDATE.
11. Cycle the mains power on the frames to complete the firmware upgrade.
12. Use the front panel menu on each frame to perform a FACTORY RESET.

NOTE:

- For PLM Series: The Safe Mode Image must be v0.02 or later to be able to activate Dual Redundant Dante network configuration from the Lake Controller.
- In firmware version 2.51 or later the version number of the Safe Mode Image is displayed in the front panel firmware version view.

PLM+ and D Series note

For the PLM+ and D Series models, since firmware 2.99 the Safe Image is included in the normal firmware, and the device will update automatically with it if needed.

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Release History

Patch Release v8.1.4 — Installer 155 (2024-11-18)

Component	Version	New	Comment
Installer	155	X	
Lake Controller	8.1.4-71	X	v8.1.4-71-g665ece26c
D Series Lake Firmware	Bundle 00.05.49	X	
ARM/DSP	665ece26c	X	
FPGA	97		
DICO	1.2.23, PSU		D80, D120, D200
DSPA	1.2.6		D10, D20, D40
Dante	1.3.39	X	
Safe Image	0.41	X	
PLM+ Series Firmware	Bundle 00.05.49	X	
ARM/DSP	665ece26c	X	
FPGA	97		
Front	4.4.8		
DICO	1.2.23, PSU		PLM8K44, PLM12K44, PLM20K44
DSPA	1.2.6		PLM5K44
Dante	1.3.39	X	
Safe Image	0.41	X	
PLM Series Firmware (and OEM)	Bundle 00.05.84	X	
DSP	665ece26c	X	
FPGA	41		
Front	1.9.2		
Amp	0.14.5, PSU		
Dante	3.0.1.48		
PLM Safe Mode Image	0.03 (label 99.03)		See separate instructions section
LMX Series Firmware	Bundle 00.05.49	X	
ARM/DSP	665ece26c	X	LMX 48, LMX 88
FPGA A	219		
FPGA B	1.1.5		
Front	1.1.81	X	
Dante	1.3.39	X	
Safe Image	0.41	X	
LM Series Firmware	Bundle 00.03.84	X	
DSP	665ece26c	X	LM 26, LM 44
FPGA	1058		
Front	2.2.2		
Dante	3.0.1.48		
LM Safe Mode Image	0.02 (label 99.02)		See separate instructions section
MY8-LAKE Firmware	Bundle 00.05.49	X	
ARM/DSP	665ece26c	X	
FPGA	R6041		
Lake Firmware Update Utilities	8.1.0-347		
Preset Manager Utilities			
Preset Manager	8.1.4-71	X	
LM Series	8.1.4-71	X	
Analyzer Integration			
Smaart v7 / Di	1.2 / 1.0		
Smaart v9.1	8.0.0.651		
Live-Capture / AudioClient	1.3		
Third Part applications			
DAPI	4.1.0.1		From Audinate (Win7 or later required, otherwise older versions are installed)
Dante Discovery	1.2.2.3		
Dante Control & Monitoring	4.0.2.1		
Lake LoadLibrary™	5.10	X	See separate release note
Documentation			
Lake Controller Operation Manual	1.7.0		Not updated with latest features
D Series Operation Manual & QSG	3.0.4		Not updated with latest features
PLM+ Series Operation Manual / QSG	3.0.4 / 2.0	X	Not updated with latest features
PLM Series Operation Manual & QSG	1.3.5		
LM Series Operation Manual & QSG	1.3.5		
LMX Series Operation Manual	1.0		
MY8-LAKE Owner's Manual	1.0		
Lake Network Conf. Guide	1.1.4		

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New Features

(#102454) **LMX Input Router Mutes**
When the LMX front panel is in the meter view (resting screen), it is now possible to use the rotary encoder to scroll between module meters and a new input routers page. This page shows all 16 input routers metering, priority and source. Furthermore, when on this page, the mute buttons under each physical LED meter toggle the input router mutes.

(#105291) **Solo Safe (Configure Exclusions)**
Solo Safe exclusions make it possible to exclude modules in the system from the *Solo* functionality (in the *Solo/Mute* menu). This new feature is useful for excluding modules feeding audio into other modules in the system, which would otherwise be muted by soloing others. *Solo Safe* is particularly useful for excluding modules used for driving the PA system. When a module is set as Solo Safe, it cannot be soloed. The *Solo Safe* setting is stored in System files (not in Module files) and is configured from the new *Configure Exclusions* menu in I/O Config.

(#105280) **Toggle *Latency Match* from LMX Front Panel**
Added the possibility to toggle *Latency Match* via the Frame menu on the LMX front panel.

Resolved Issues

Key	Components	Description
		Critical fixes
#114986 **#117162**	LMX Series	Fixed a problem where the front panel would occasionally get stuck with a blue power button and require service to get working again, due to internal memory corruption.
#97174 **#118016** **#117247**	LMX Series PLM+/D Series	Dante internal communication stabilizations. These efforts have mitigated scenarios where the frame would end up in a *Dante SPI Fault*.
#114368	LMX Series	When powering the LMX from an AC source of bad quality (e.g. short dropouts of mains voltage), the LMX is now more resilient. When this happened in previous releases, an FPGA_B_FAULT would occur.
#112757	LMX Series	When serious errors occur, allow audio to pass through all still working audio interfaces to the extent possible.
		Major fixes
#117213	Lake Controller	Frame Replacing an online frame to another online frame now carries over the Dante device name so that a) Dante audio receivers follow it and b) a Dante device name conflict is avoided by setting a default Dante device name on the source frame.
#111114	Lake Controller	Batch replace no longer leads to incorrect Dante subscriptions due to channel name case differences.
#103237	Lake Controller	Analyzer buttons now work when EQ Overlay is set to *content hidden*.
#114535 **#114082** **#115083** **#115021**	LMX Series PLM+/D Series	SafeMode recovery update is now inhibited from running under conditions where it might get interrupted before finished, like e.g. AC mains lost (power off).
#119008	LMX Series PLM+/D Series	New SafeMode image update to ensure the correct recovery image is installed for recently manufactured products.
#114164 **#91828**	Lake Controller	Fixed cases where frame operations could lead to program crashes inside I/O Config.
#112895 **#118019** **#117954**	Lake Controller	Fixed cases where operations could lead to the program ending up in a frozen state where it would stop syncing.
#111074 **#116861** **#117948**	Lake Controller	The temporary mutes set during file recalls and other audio disruptive changes have been improved to be more reliable and muted/unmuted under the correct conditions.
		Minor fixes
#113646	LMX Series	If network settings have changed via the front panel and the menu is exited, there will be a dialog with the option to reboot the device immediately.
#114084	Lake Controller	The *Events* list in *Events & Control* now correctly handles Dante faults and warnings independently from each other.
#91576	Lake Controller	Fixed cases where opening *Events & Control* from I/O Config sometimes would not work after having configured *Global Input Router Priority*.
#86493	Lake Controller	Dante status shown in *I/O Config* is now properly cleared when a problem goes away.

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#115164 #116865	LMX Series	Front panel software update stability improvement.
#115085	LMX Series	Changed presentation order of internal faults.
#89825	Lake Controller	No longer possible to move popout windows.
#117984	Lake Controller	Possible to close popout windows by clicking outside the window area.
#118325	Lake Controller	Scrolling the mouse wheel in message boxes no longer leads to a crash.
#4206	Lake Controller	Technical Data for 20000 DP shows the full product name.
#52580	Lake Controller	Technical Data now always shows the serial number and firmware version which were previously obstructed when using low screen resolutions.
#115079	Lake Controller	Technical Data for LMX, PLM+ and D series no longer truncates the *IP address* and *Subnet Mask* after having been edited.
#118017	Lake Controller	Added *Copy Frame ID to Clipboard* button in Tech Data for LMX, PLM+ and D series.
#114915	Lake Controller	Input Routing window shows Dante subscribers for Dante Receivers.
#106511	Lake Controller	Now possible to toggle the mutes in the *Levels* view by using its number (0 for the input and 1, 2, 3… etc. for the outputs) and simultaneously pressing M.
#114382	Lake Controller	Output Router shows an indication if AES50 is disabled
#106243	Lake Controller	Fixed graphical glitches on work area when recalling system files which have been created with a larger screen resolution.
#116047	Lake Controller	Fixed a graphical error when pressing certain I/O Config buttons.
#118323	Lake Controller	Setting AUTOSAVE to 0 in the *ic.ini* file now disables auto-save entirely.
#119132	Lake Controller	Pressing Esc when in *Solo/Mute Enabled* will now exit Solo/Mute.
#117799	Lake Controller	The Out-of-Sync summaries shown in EQ/Levels view and in I/O Config view improved.
#81611	Lake Controller	Changing the processing parameters of the Lake XP Array Optimizer causes a mute of processing during the operation, but no longer results in a visible mute indication.
#114363	LMX Series	When in the Mains settings menu, the rotary encoder is now correctly lit.

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Patch Release v8.1.3 — Installer 154 (2024-09-17)

Component	Version	New	Comment
Installer	154	X	
Lake Controller	8.1.3-63	X	v8.1.3-63-gf614a4213
D Series Lake Firmware	Bundle 00.05.48	X	
ARM/DSP	f614a4213	X	
FPGA	97		
DICO	1.2.23, PSU		D80, D120, D200
DSPA	1.2.6		D10, D20, D40
Dante	1.3.24	X	
Safe Image	0.40		
PLM+ Series Firmware	Bundle 00.05.48	X	
ARM/DSP	f614a4213	X	
FPGA	97		
Front	4.4.8	X	
DICO	1.2.23, PSU		PLM8K44, PLM12K44, PLM20K44
DSPA	1.2.6		PLM5K44
Dante	1.3.24	X	
Safe Image	0.40		
PLM Series Firmware (and OEM)	Bundle 00.05.83	X	
DSP	f614a4213	X	
FPGA	41		
Front	1.9.2		
Amp	0.14.5, PSU		
Dante	3.0.1.48		
PLM Safe Mode Image	0.03 (label 99.03)		See separate instructions section
LMX Series Firmware	Bundle 00.05.48	X	
ARM/DSP	f614a4213	X	LMX 48, LMX 88
FPGA A	219	X	
FPGA B	1.1.5		
Front	1.1.59	X	
Dante	1.3.24	X	
Safe Image	0.40		
LM Series Firmware	Bundle 00.03.83	X	
DSP	f614a4213	X	LM 26, LM 44
FPGA	1058		
Front	2.2.2		
Dante	3.0.1.48		
LM Safe Mode Image	0.02 (label 99.02)		See separate instructions section
MY8-LAKE Firmware	Bundle 00.05.48	X	
ARM/DSP	f614a4213	X	
FPGA	R6041		
Lake Firmware Update Utilities	8.1.0-347		
Preset Manager Utilities			
Preset Manager	8.1.3-63	X	
LM Series	8.1.3-63	X	
Analyzer Integration			
Smaart v7 / Di	1.2 / 1.0		
Smaart v9.1	8.0.0.651		
Live-Capture / AudioClient	1.3	X	
Third Part applications			
DAPI	4.1.0.1		From Audinate (Win7 or later required, otherwise older versions are installed)
Dante Discovery	1.2.2.3		
Dante Control & Monitoring	4.0.2.1		
Lake LoadLibrary™	5.9		See separate release note
Documentation			
Lake Controller Operation Manual	1.7.0		Not updated with latest features
D Series Operation Manual & QSG	3.0.4		Not updated with latest features
PLM+ Series Operation Manual & QSG	3.0.4		Not updated with latest features
PLM Series Operation Manual & QSG	1.3.5		
LM Series Operation Manual & QSG	1.3.5		
LMX Series Operation Manual	1.0		
MY8-LAKE Owner's Manual	1.0		
Lake Network Conf. Guide	1.1.4		

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New Features

(#105278) The LMX Series factory default is now to use the *Primary* clock domain as clock reference for Dante in follower mode. This enables zero latency Dante at 96 kHz by default. This change will not affect existing configurations, but instead takes effect once the frame configuration is reset to *Mesa*/*Contour*/*ContourMesa* or the frame is factory reset.

(#89864, #106550, #110443) For PLM+/D Series and the LMX Series, changing the IP configuration in *Technical Data* now offers to reboot the device so that a physical power-cycle is not necessary. When the IP configuration is still pending a reboot, the device clearly shows a *Reboot Needed* warning both on the front panel and in the Lake Controller. It is also possible to reboot from inside the *Technical Data* window.
For the D Series front panel, the *Reboot Needed* warning makes the *Frame* warning light blink (#113702).

(#110920, #114163) The PLM+/D Series and the LMX Series front panel *Frame* menu now includes a button to reboot the device.

(#114087) If the automatic reboot is not performed after updating the PLM+, D or LMX Series, the device will now show the *Reboot Needed* warning instead of the previous *Power-cycle Required* indication on the front panel only.

(#90725) It is now possible to change the IP configuration between *Auto IP* and *DHCP* from the LMX front panel. Such changes will require a reboot, in which case the above-mentioned *Reboot Needed* warning is displayed.

Resolved Issues

Key	Components	Description
		Critical fixes
#106624	Lake Controller	An internal log file could in some cases be created and filled up with detailed information related to the LMX which were not errors. This file would grow substantially for some systems which filled up the hard drive and led to disk space related problems. These logs are now removed.
#105924 **#110606**	PLM+/D Series	*Module Output Mixing* now correctly mixes the selected routed channels.
#105669	LMX Series	Fixed a critical issue where routing any *Input Router* to a Dante output made the LMX restart and end up in a bad configuration.
		Major fixes
#105218	LMX Series	Word Clock settings now take effect immediately
#104568	Lake Controller	Selecting certain modules on the work area would highlight the wrong neighboring modules on the menu bar. This has now been fixed.
#107956	Lake Controller	Running the Lake Controller full screen on common high DPI displays now correctly sets a working resolution to use.
#105925	Lake Controller	The Output Router meters now correctly show metering for all four XP4way outputs.
#97279	Lake Controller	Failing to create the program log file will no longer crash the application.
#101065 **#108388**	Lake Controller	The Live Capture plugin DLL could sometimes crash the Lake Controller at startup. To reduce the likelihood of this happening, the DLL will now only be loaded when required.
		Minor fixes
#98356 **#113904**	LMX Series PLM+/D Series	The manual IP settings are no longer possible to change from the Dante Controller.
#95754	LMX Series	The *External Word Clock* toggle is no longer possible to change from the Dante Controller.
#109547	Lake Controller	With *Module Output Mixing* active, an informational warning text is correctly displayed in the Output Router.
#104154	LMX Series	Changing *Dante Redundancy* from the LMX front panel now shows the *Reboot Needed* warning to inform the user that the setting will not apply until the device has been rebooted or power-cycled.
#71581	Lake Controller	When the *Global IP Configuration* window is opened from *Technical Data* the current frame is now highlighted.
#104513	Lake Controller	*Make Virtual* and *Frame Replace* are no longer available when the frame is Out of Sync.
#89753	Lake Controller	Improved the battery level indication shown when running the computer on battery to be more accurately depicting the current level.

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#103576 **#110723**	Lake Controller	Performance optimizations for work area mainly for cases where frames are offline.
#103238	Lake Controller	EQ view Analyzer buttons better indicate being clicked.
#98945	Lake Controller LMX Series	Switching between manual clock sources for the Secondary clock domain no longer briefly shows up as an internal clock fallback.
#110144 **#113251**	Lake Controller	Fixes application crashes in certain situations.
#105789	Lake Controller LMX Series	The LMX input mixers show the correct dB scale for when *+4 dBu Reference* is not activated.

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Patch Release v8.1.2 — Installer 153 (2024-07-04)

Component	Version	New	Comment
Installer	153	X	
Lake Controller	8.1.2-60	X	v8.1.2-60-gd151ce9e5
D Series Lake Firmware	Bundle 00.05.45	X	
ARM/DSP	d151ce9e5	X	
FPGA	97		
DICO	1.2.23, PSU		D80, D120, D200
DSPA	1.2.6		D10, D20, D40
Dante	1.3.22		
Safe Image	0.40		
PLM+ Series Firmware	Bundle 00.05.45	X	
ARM/DSP	d151ce9e5	X	
FPGA	97		
Front	4.4.3		
DICO	1.2.23, PSU		PLM8K44, PLM12K44, PLM20K44
DSPA	1.2.6		PLM5K44
Dante	1.3.22		
Safe Image	0.40		
PLM Series Firmware (and OEM)	Bundle 00.05.82	X	
DSP	d151ce9e5	X	
FPGA	41		
Front	1.9.2		
Amp	0.14.5, PSU		
Dante	3.0.1.48		
PLM Safe Mode Image	0.03 (label 99.03)		See separate instructions section
LMX Series Firmware	Bundle 00.05.45	X	
ARM/DSP	d151ce9e5	X	LMX 48, LMX 88
FPGA A	219	X	
FPGA B	1.1.5		
Front	1.1.51		
Dante	1.3.22		
Safe Image	0.40		
LM Series Firmware	Bundle 00.03.82	X	
DSP	d151ce9e5	X	LM 26, LM 44
FPGA	1058		
Front	2.2.2		
Dante	3.0.1.48		
LM Safe Mode Image	0.02 (label 99.02)		See separate instructions section
MY8-LAKE Firmware	Bundle 00.05.45	X	
ARM/DSP	d151ce9e5	X	
FPGA	R6041		
Lake Firmware Update Utilities	8.1.0-347		
Preset Manager Utilities			
Preset Manager	8.1.2-60	X	
LM Series	8.1.2-60	X	
Analyzer Integration			
Smaart v7 / Di	1.2 / 1.0		
Smaart v9.1	8.0.0.651		
Live-Capture / AudioClient	1.2		
Third Part applications			
DAPI	4.1.0.1		From Audinate (Win7 or later required, otherwise older versions are installed)
Dante Discovery	1.2.2.3		
Dante Control & Monitoring	4.0.2.1		
Lake LoadLibrary™	5.9		See separate release note
Documentation			
Lake Controller Operation Manual	1.7.0		Not updated with latest features
D Series Operation Manual & QSG	3.0.4		Not updated with latest features
PLM+ Series Operation Manual & QSG	3.0.4		Not updated with latest features
PLM Series Operation Manual & QSG	1.3.5		
LM Series Operation Manual & QSG	1.3.5		
LMX Series Operation Manual	1.0		
MY8-LAKE Owner's Manual	1.0		
Lake Network Conf. Guide	1.1.4		

New Features

(#101562) For the LMX series, the previous *Third* clock domain has been removed and instead the Dante clock configuration has been vastly simplified. For Dante *follower* it is now possible to either configure synchronous

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clocking with the *Primary* domain (which allows for zero latency/no sample rate conversion when Dante at 96 kHz) or fully independent asynchronous sample rate conversion like for other source types.
This also removes the need to select a specific clock domain for Dante follower override.

Please note that when upgrading an LMX series device to this release, any inputs or outputs that have been configured to use the *Third* domain will have their clock configurations disabled and the user needs to reconfigure these.

(#103047) The default clock source for the LMX Series *Secondary* clock domain is now *Internal 88.2 kHz*. This will not alter any existing configurations.

(#98412) The *System Presets* feature in the Lake Controller has been simplified, and as a result renamed to *Frame Presets*. The previous requirement that all simultaneously recalled frame presets must have been stored at the same time has been removed. The feature is still found under the *System Store/Recall* menu.

(#102507) When the application is set to run in fullscreen on high DPI displays, the Lake Controller now finds out and applies the most suitable resolution to use.

Resolved Issues

Key	Components	Description
		Critical fixes
#102574	PLM+/D Series LMX Series	Fixed an internal issue which caused performance problems. PLM+/D Series only: The above led to CAFÉ Impedance Sweep measurements becoming postponed or not working.
		Major fixes
#102956	PLM+/D Series LMX Series	*Dante Redundancy* is no longer reset when the device is Soft Reset (PLM+/D Series) or the Frame Configuration is changed (LMX Series). Instead, a *Factory Reset* will change it back to its default (product dependent).
#103195	PLM+/D Series LMX Series	Unused bands in the Lake XP multiband limiter no longer still contribute to the overall gain reduction shown on the channel output meter.
#102375	Lake Controller	With all EQ overlays hidden, the EQ view no longer shows curves not pertaining to the currently shown Module or Group.
#58416	LMX Series	Latency difference between LM series and LMX series.
#97948	Lake Controller LMX Series	Enabled Latency Match for the LMX series.
#104203	PLM+/D Series LMX Series	Fixed a problem where, after downgrade, the device would be unable to receive a LoadSmart fingerprint correctly.
#104307	LMX Series	When certain serious faults occur, all outputs are muted.
#103513 **#102075** **#62105**	LMX Series	LMX asynchronous sample rate converters (ASRCs) have been much improved in terms of THD+N and latency.
		Minor fixes
#104512	Lake Controller	*Technical Data* can now be opened also when the frame is Out of Sync.
#103480	Lake Controller	There is no longer any restriction to configure which clock domain to use for an AES50 interface configured as *Master*.
#102946	Lake Controller	Buttons to select individual asynchronous sample rate conversion (ASRC) are relabeled to highlight this property better by using the individual clock source name.
#102571 **#103371**	Lake Controller	The LMX clock configuration views for AES3, Dante, AES50 and Word Clock show the domain's actual clock within brackets and indicate an override or fallback with an asterisk.
#102993	Lake Controller	EQ view axis labels are no longer drawn with black boxes around them.
#102572	LMX Series	The two clock domains are now called *Primary* and *Secondary* domains.
#101740	LMX Series	Do not report AES3 Clock Slipping when there is no AES3 cable connected.
#44540	Lake Controller	The network selection dialog at program startup now auto-refreshes the list of active network cards and their connection status.
#101733	Lake Controller	For AES50 Receivers or Transmitters configuration, the *Clear Settings* button now works as intended.
#101996	Lake Controller	For AES50 Receivers, the channel statuses no longer incorrectly show assigned transmitters.

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#99886	Lake Controller	When the application is set to run in fullscreen on high DPI displays, the program content could sometimes extend outside the display. This has now been improved.
#102619	Lake Controller	When the application is set to run in fullscreen, the Reset Windowed Display Mode option in the network selection dialog at program startup now correctly configures the program to start in Window Mode on next start.

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Patch Release v8.1.1 — Installer 152 (2024-05-21)

Component	Version	New	Comment
Installer	152	X	
Lake Controller	8.1.1-3	X	v8.1.1-3-g714596038
D Series Lake Firmware	Bundle 00.05.44	X	
ARM/DSP	714596038	X	
FPGA	97		
DICO	1.2.23, PSU		D80, D120, D200
DSPA	1.2.6		D10, D20, D40
Dante	1.3.22		
Safe Image	0.40		
PLM+ Series Firmware	Bundle 00.05.44	X	
ARM/DSP	714596038	X	
FPGA	97		
Front	4.4.3		
DICO	1.2.23, PSU		PLM8K44, PLM12K44, PLM20K44
DSPA	1.2.6		PLM5K44
Dante	1.3.22		
Safe Image	0.40		
PLM Series Firmware (and OEM)	Bundle 00.05.81		
DSP	d51851f24		
FPGA	41		
Front	1.9.2		
Amp	0.14.5, PSU		
Dante	3.0.1.48		
PLM Safe Mode Image	0.03 (label 99.03)		See separate instructions section
LMX Series Firmware	Bundle 00.05.44	X	
ARM/DSP	714596038	X	LMX 48, LMX 88
FPGA A	212	X	
FPGA B	1.1.5	X	
Front	1.1.51	X	
Dante	1.3.22		
Safe Image	0.40		
LM Series Firmware	Bundle 00.03.81		
DSP	d51851f24		LM 26, LM 44
FPGA	1058		
Front	2.2.2		
Dante	3.0.1.48		
LM Safe Mode Image	0.02 (label 99.02)		See separate instructions section
MY8-LAKE Firmware	Bundle 00.05.44	X	
ARM/DSP	714596038	X	
FPGA	R6041		
Lake Firmware Update Utilities	8.1.0-347		
Preset Manager Utilities			
Preset Manager	8.1.0-347		
LM Series	8.1.0-347		
Analyzer Integration			
Smaart v7 / Di	1.2 / 1.0		
Smaart v9.1	8.0.0.651		
Live-Capture / AudioClient	1.2		
Third Part applications			
DAPI	4.1.0.1		From Audinate (Win7 or later required, otherwise older versions are installed)
Dante Discovery	1.2.2.3		
Dante Control & Monitoring	4.0.2.1		
Lake LoadLibrary™	5.9		See separate release note
Documentation			
Lake Controller Operation Manual	1.7.0		Not updated with latest features
D Series Operation Manual & QSG	3.0.4		Not updated with latest features
PLM+ Series Operation Manual & QSG	3.0.4		Not updated with latest features
PLM Series Operation Manual & QSG	1.3.5		
LM Series Operation Manual & QSG	1.3.5		
LMX Series Operation Manual	1.0	X	
MY8-LAKE Owner's Manual	1.0		
Lake Network Conf. Guide	1.1.4		

New Features

No new features in this patch release, but many important resolved issues.

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Resolved Issues

Key	Components	Description
		Critical fixes
#99453	PLM+/D Series LMX Series MY8-LAKE	Resolved an issue where metering could sometimes be lost or frozen for individual DSP channels.
#98648	MY8-LAKE	Possible to lock to AES3 input again.
		Major fixes
#98431 **#98419** **#96907**	LMX Series	Fixed the issue with AES50 not always working on startup.
#98901 **#101318**	Lake Controller	LMX AES50 transmitter configuration now correctly disallows multiple transmitters to select the same AES50 output channel.
#89288	LMX Series	*Protective Mute* (GPI action) acts on all outputs and not just Analog outs.
#99586 **#99583**	LMX Series	*Overtemperature Fault* could happen even though the device was not warm. This has now been fixed, including the implementation of *Temperature Warning*.
#101409	LMX Series	Word Clock is now correctly higher in priority than Dante when using automatic clock source in the Primary domain.
#101213	LMX Series	Word Clock now correctly used as clock source when selected.
#98718	LMX Series	Analog inputs >27 dBu could cause digital wraparound.
		Minor fixes
#100667	LMX Series	ASRC latency improvements.
#100126	LMX Series	Fan speed increased on the LMX 48.
#101187 **#59973**	LMX Series	Front panel LEDs no longer flash briefly during startup.
#100059	LMX Series	Front panel buttons no longer work when in standby.
#101173	Lake Controller	An XLR output on the LMX 48 that is used as AES3 digital output instead of Analog output now presents the Analog output in red on the I/O Config overview.
#99186	Lake Controller	*Clear All* input routers now also clears any forced priority.
#95185	LMX Series	Third party protocol now correctly reports `Dev.MD.NoFaults?`
#100171	Lake Controller	Hide files with filenames that start with a dot.
#98410 **#100699** **#101188**	LMX Series	Fixes to presentation of an ongoing FPGA B update, showing ETA and other improvements.
#95940	LMX Series	Properly handle a device reboot as a power state change.
#98441	LMX Series	Frame Replacing LMXs between different frame configurations is now correctly not allowed. (For instance, replacing an LMX in Mesa with one in Contour is not supported)

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Release v8.1.0 — Installer 151 (2024-04-16)

Component	Version	New	Comment
Installer	151	X	
Lake Controller	8.1.0-347	X	v8.1.0-347-g44e9f99de
D Series Lake Firmware	Bundle 00.05.43	X	
ARM/DSP	44e9f99de	X	
FPGA	97		
DICO	1.2.23, PSU		
DSPA	1.2.6		D80, D120, D200
Dante	1.3.22	X	D10, D20, D40
Safe Image	0.40	X	
PLM+ Series Firmware	Bundle 00.05.43	X	
ARM/DSP	44e9f99de	X	
FPGA	97		
Front	4.4.3		
DICO	1.2.23, PSU		
DSPA	1.2.6		PLM8K44, PLM12K44, PLM20K44
Dante	1.3.22	X	PLM5K44
Safe Image	0.40	X	
PLM Series Firmware (and OEM)	Bundle 00.05.81	X	
DSP	d51851f24	X	
FPGA	41		
Front	1.9.2		
Amp	0.14.5, PSU		
Dante	3.0.1.48		
PLM Safe Mode Image	0.03 (label 99.03)		See separate instructions section
LMX Series Firmware	Bundle 00.05.43	X	
ARM/DSP	44e9f99de	X	LMX 48, LMX 88
FPGA A	210	X	
FPGA B	1.0.11	X	
Front	1.1.45	X	
Dante	1.3.22	X	
Safe Image	0.40	X	
LM Series Firmware	Bundle 00.03.81	X	
DSP	d51851f24	X	LM 26, LM 44
FPGA	1058		
Front	2.2.2		
Dante	3.0.1.48		
LM Safe Mode Image	0.02 (label 99.02)		See separate instructions section
MY8-LAKE Firmware	Bundle 00.05.43	X	
ARM	44e9f99de	X	
DSP	44e9f99de	X	
FPGA	R6041		
Lake Firmware Update Utilities	8.1.0-347	X	
Preset Manager Utilities			
Preset Manager	8.1.0-347	X	
LM Series	8.1.0-347	X	
Analyzer Integration			
Smaart v7 / Di	1.2 / 1.0		
Smaart v9.1	8.0.0.651		
Live-Capture / AudioClient	1.2		
Third Part applications			
DAPI	4.1.0.1		From Audinate (Win7 or later required, otherwise older versions are installed)
Dante Discovery	1.2.2.3		
Dante Control & Monitoring	4.0.2.1		
Lake LoadLibrary™	5.9	X	See separate release note
Documentation			
Lake Controller Operation Manual	1.7.0		Not updated with latest features
D Series Operation Manual & QSG	3.0.4		Not updated with latest features
PLM+ Series Operation Manual & QSG	3.0.4		Not updated with latest features
PLM Series Operation Manual & QSG	1.3.5		
LM Series Operation Manual & QSG	1.3.5		
LMX Series Operation Manual & QSG	*N/A*		Not yet published
MY8-LAKE Owner's Manual	1.0		
Lake Network Conf. Guide	1.1.4		

New Features

- New firmware and support for the LMX series devices.
- In the Input Router view there is a "Clear all" selection added.

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- In the Input Mixer view there is a “Clear all” selection added.
- In the Input Matrix Mixer view when selecting a cross-point between mixer and module, this now does a toggle between OFF and 0dB. If any other value is desired use the Wide Mixer view.

Resolved Issues

Key	Components	Description
		Major fixes
#91867	Lake Controller	After exiting the Analyzer view for Lake XP modules while in *Transfer* mode, the EQ filters are now visible again instead of the Analyzer controls.
#89416	MY8-LAKE	Fixed MY8-LAKE clocking and Mixer issues.
#91747	MY8-LAKE	MY8-LAKE supported again.
#46469	Lake Controller LMX Series	When there is a clock domain with Dante manually selected, the LMX will use the Dante network clock for both Leader and Follower and effectively disables the Dante Clocking tab. In this mode, switching between Leader and Follower will not disrupt audio.
		Minor fixes
#95782	Lake Controller	Show module information and standby status in EQ view.
#89759	Lake Controller	Output Router buttons correctly shows routed but disabled buttons.
#92537	Lake Controller	Fix alignment issue in I/O Config summary view.
#90497	Lake Controller	Clicking on the already active AES50 mode no longer re-initiates the same mode.
#87615	LakeUpdate	Added *Force Dante* and *No Dante* selections in the extended selections available when the Lake logo is double-clicked.
#92258	Lake Controller	LMX Dante Clocking tab re-designed.
#93319	Lake Controller	LMX AES3 Clocking tab re-designed.
#90728	Lake Controller	LMX AES50 configuration windows re-designed.
#93513	Lake Controller	Large Group work area icons no longer cut the group label text.
#94207	Lake Controller	Clock Overview entries in the I/O Config overview pane display desired clock when Offline or Virtual.
#91890	Lake Controller	Draw selected module yellow when completing a *Frame Replace* operation

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Patch Release v8.0.2 — Installer 145 (2023-12-22)

Component	Version	New	Comment
Installer	145	X	
Lake Controller	8.0.2-145	X	v8.0.2-145-g0d185f769
D Series Lake Firmware	Bundle 00.05.17	X	
ARM	59fdc6fb8	X	
DSP	59fdc6fb8	X	
FPGA	97		
DICO	1.2.23, PSU		D80, D120, D200
DSPA	1.2.6		D10, D20, D40
Dante	1.3.17		
Safe Image	0.38		
PLM+ Series Firmware	Bundle 00.05.17	X	
ARM	59fdc6fb8	X	
DSP	59fdc6fb8	X	
FPGA	97		
Front	4.4.3		
DICO	1.2.23, PSU		PLM8K44, PLM12K44, PLM20K44
DSPA	1.2.6		PLM5K44
Dante	1.3.17		
Safe Image	0.38		
PLM Series Firmware (and OEM)	Bundle 00.05.66	X	
DSP	59fdc6fb8	X	
FPGA	41		
Front	1.9.2		
Amp	0.14.5, PSU		
Dante	3.0.1.48		
PLM Safe Mode Image	0.03 (label 99.03)		See separate instructions section
LM Series Firmware	Bundle 00.03.69	X	
DSP	0d185f769	X	LM 26, LM 44
FPGA	1058		
Front	2.2.2		
Dante	3.0.1.48		
LM Safe Mode Image	0.02 (label 99.02)		See separate instructions section
MY8-LAKE Firmware	N/A		No MY8-LAKE firmware in this release
ARM			
DSP			
FPGA			
Lake Firmware Update Utilities	8.0.2-30	X	
Preset Manager Utilities			
Preset Manager	8.0.2-140	X	
LM Series	8.0.2-145	X	
Analyzer Integration			
Smaart v7 / Di	1.2 / 1.0		
Smaart v9.1	8.0.0.651		
Live-Capture / AudioClient	1.2		
Third Part applications			
DAPI	4.1.0.1		From Audinate (Win7 or later required, otherwise older versions are installed)
Dante Discovery	1.2.2.3		
Dante Control & Monitoring	4.0.2.1		
Lake LoadLibrary™	5.8	X	See separate release note
Documentation			
Lake Controller Operation Manual	1.7.0		Not updated with latest features
D Series Operation Manual & QSG	3.0.4		Not updated with latest features
PLM+ Series Operation Manual & QSG	3.0.4		Not updated with latest features
PLM Series Operation Manual & QSG	1.3.5		
LM Series Operation Manual & QSG	1.3.5		
LMX Series Operation Manual & QSG	*N/A*		Not yet published
MY8-LAKE Owner's Manual	1.0		
Lake Network Conf. Guide	1.1.4		

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New Features

To support Intel Iris XE graphics (Intel 12th Generation GPUs and newer), all of the user interface has been optimized in performance (#64501). In the process, not exclusively for these GPUs, many screen elements have been harmonized in their appearances, including but not limited to

- Work area icons
  - Improved readability of frame status.
  - More coherent label sizes with icon size.
  - Icon meters and mute indications better aligned.
- I/O Config
  - Left side frame selection bar.
- Events & Control
  - Reduced font size to fit inside buttons.

Perhaps most notably for all users, text is now rendered with anti-aliasing which makes it appear smoother.

Minor changes to the Lake Controller:

- The Clock Configuration window now has less buttons for each clock domain to reduce screen clutter. To release a domain back to *Auto*, there is now just a *Manual* button in its place. (#88070)
- If Dante is set to Follower Only, there is now a help text next to the Leader button informing the user why it cannot be enabled. (#89820)
- For LM series, when Analog headroom is changed, there is now a warning telling the user that all inputs will be affected. (#88502)
- When another Lake Controller is already running, the already running instance is activated and now a message box is displayed to inform the user. (#91507)
- If the program window does not fit the screen with regards to DPI scaling, the scaling is set to 100%. (#59907)

Resolved Issues

Key	Components	Description
		Critical fixes
#91191	PLM+/D Series	XP1way in module A (or C) could randomly end up distorting audio via the output MaxRMS limiter if the module in B (or D) was not running Lake XP. This has now been fixed.
#88432	LM Series	Always use 26 dBu headroom as default also for Input Routers 5-8.
#85744	PLM+/D Series	Using AES3 as clock reference for the SRC clock domain would lead to Clock Slipping under certain circumstances. This has now been corrected.
#88759	PLM+/D Series	Using Fixed IP settings, configuring Dante gateway and DNS now works.
		Major fixes
#6810 **#7739** **#87352** **#91165**	Lake Controller PLM+/D Series LM Series PLM Series	Fader movement and EQ changes could sometimes fail to act on audio, this has now been fixed.
#91683	LM Series	HPF/LPF EQ tab is now available again for Mesa reset devices.
#64501 **#89154**	Lake Controller	All of the user interface has now been optimized in performance in order to also support Intel 12th Generation GPUs and newer.
#88414	Lake Controller	Enabling Dante now correctly sets the SRC clock domain to Auto 48 based.
#88296	PLM+/D Series	Properly select Dante clock when Dante is enabled and return to Auto when Dante is disabled.
#87665	PLM+/D Series	Performance during network traffic intensive operations (such as System File Recall) has now been improved to be on par with release 7.x and earlier.
#87156 **#89165**	Plugin SDK	Calling API SetXPParameters no longer leads to unnecessary network traffic on each call. Furthermore, the Module Output Mute is no longer toggled by the call unless the FIR or sample rate is changed on the particular channel.
#90465	Plugin SDK	Calling API SetXPParameters no longer recalculates the frequency curve when changes are made to parameters not affecting the frequency response.
#91665	Lake Controller	Using MY8-LAKE with YGDAI host clock is now reported correctly in I/O Config.
		Minor fixes
#46280	PLM+/D Series	Changing Module Input and Output Mutes no longer leads to a full re-sync of the frame.
#88589	PLM+/D Series	Re-syncing frames with matching configurations is now faster.

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#83738	Lake Update	The program could sometimes crash after pressing Reboot. This has now been fixed.
#88292	Lake Update	No longer possible to start an update without a bundle file selected.
#91417	Lake Controller	When the Analyzer menu is active in the EQ view, the *Analyzer* button is now in its active state.
#91321	Lake Controller	When only Transfer is active in Smaart, buttons related to Transfer are now available also in the EQ view for Lake XP modules.
#91259	Lake Controller	Band Level EQ only shows the currently selected band filters as selected.
#90998	Lake Controller	The display resolutions are not always for the current monitor.
#90769	Lake Controller	If the previous position of the program window now is outside the screen, the window is moved to within the current screen.

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Patch Release v8.0.1 — Installer 142 (2023-10-06)

Component	Version	New	Comment
Installer	142	X	
Lake Controller	8.0.1-84	X	v8.0.1-84-g0fa9f7e52
D Series Lake Firmware	Bundle 00.05.15	X	
ARM	0fa9f7e52	X	
DSP	0fa9f7e52	X	
FPGA	97		
DICO	1.2.23, PSU		D80, D120, D200
DSPA	1.2.6		D10, D20, D40
Dante	1.3.17	X	
Safe Image	0.38		
PLM+ Series Firmware	Bundle 00.05.15	X	
ARM	0fa9f7e52	X	
DSP	0fa9f7e52	X	
FPGA	97		
Front	4.4.3		
DICO	1.2.23, PSU		PLM8K44, PLM12K44, PLM20K44
DSPA	1.2.6		PLM5K44
Dante	1.3.17	X	
Safe Image	0.38		
PLM Series Firmware (and OEM)	Bundle 00.05.65	X	
DSP	d1b6106e5	X	
FPGA	41		
Front	1.9.2		
Amp	0.14.5, PSU		
Dante	3.0.1.48		
PLM Safe Mode Image	0.03 (label 99.03)		See separate instructions section
LM Series Firmware	Bundle 00.03.66	X	
DSP	d1b6106e5	X	LM 26, LM 44
FPGA	1058		
Front	2.2.2		
Dante	3.0.1.48		
LM Safe Mode Image	0.02 (label 99.02)		See separate instructions section
MY8-LAKE Firmware	Bundle 00.05.15	X	
ARM	0fa9f7e52	X	
DSP	0fa9f7e52	X	
FPGA	R6041		
Lake Firmware Update Utilities	8.0.1-84	X	
Preset Manager Utilities			
Preset Manager	8.0.1-84	X	
LM Series	8.0.1-84	X	
Analyzer Integration			
Smaart v7 / Di	1.2 / 1.0		
Smaart v9.1	8.0.0.651		
Live-Capture / AudioClient	1.2		
Third Part applications			
DAPI	4.1.0.1		From Audinate (Win7 or later required, otherwise older versions are installed)
Dante Discovery	1.2.2.3		
Dante Control & Monitoring	4.0.2.1		
Lake LoadLibrary™	5.7	X	See separate release note
Documentation			
Lake Controller Operation Manual	1.7.0		Not updated with latest features
D Series Operation Manual & QSG	3.0.4		Not updated with latest features
PLM+ Series Operation Manual & QSG	3.0.4		Not updated with latest features
PLM Series Operation Manual & QSG	1.3.5		
LM Series Operation Manual & QSG	1.3.5		
LMX Series Operation Manual & QSG	*N/A*		Not yet published
MY8-LAKE Owner's Manual	1.0		
Lake Network Conf. Guide	1.1.4		

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New Features

- (#86820) Toggling *Follower Only* no longer requires the Dante module to be rebooted.
- (#88240) Toggling *AES-67 Enabled* no longer requires the Dante module to be rebooted.

Resolved Issues

Key	Components	Description
		Critical fixes
#56510	Lake Controller	Group EQs no longer get corrupted when a device that is part of the group is reconfigured externally (i.e. not from the Lake Controller). Earlier, this could happen by just toggling the mute of one of the frames which has modules assigned to the group.
#87589	Lake Controller	XP3way modules are now handled correctly in the Lake Controller. This was broken in release 8.0.0, however the configuration in the frame was still correct and can safely be used with this release after upgrade.
#86970	PLM+/D Series	Dante Brooklyn 3 base firmware updated to 4.2.7.7
#85411 **#82009** **#88113** **#86820**	PLM+/D Series	Dante stability improvements. Notably, the following issues have been resolved for the Brooklyn 3 model: • Subscriptions no longer lost on power-cycle • Auto-selecting Dante sources in the input router based on subscriber connected now works • *Preferred Leader* would render the Dante clock invalid if used together with *Follower Only*.
#84868	PLM+/D Series	Configuring a fixed IP address for Dante now works.
#85301	LM, PLM Series	Lake Update can now update LM and PLM Series when in SafeMode.
		Major fixes
#85946	Lake Controller	Dante multicast settings are now correctly stored in system files for virtual frames and offline frames that have changed since last online.
#6863	PLM+/D Series	Frame preset recall now correctly sets AES-67 Enabled.
#61236	PLM+/D Series	If upgraded from more recent firmware released with Lake 7.x, frames could sometimes end up with *BNC Word Clock* selected as clock source. This is now correctly handled during future upgrades. A workaround for frames exhibiting this problem is to disable Dante, set the clock source to Auto and re-enabling Dante again.
#88218	LM, PLM, MY8-LAKE, PLM+/D Series	If upgraded from more recent firmware released with Lake 7.x, frames could end up with invalid Input Polarity or Product Lock settings. Upgrading to firmware in this release will correct these settings.
#83937	Lake Controller	Storing a global IP log file when storing a system file or exiting the Lake Controller, is now default turned off.
#7739	Lake Controller	Changes on the sliders on Levels are not applied until the mouse is released under some circumstances
		Minor fixes
#3527	Lake Controller	The command line argument “offline” now correctly suppresses the network selection dialog.
#55784	Lake Controller	Some buttons did not react at all to double-clicks which has now been improved.
#66117 **#86441**	Lake Controller	When analog reference is set to 21 dBu (default), this is correctly displayed for MY8-LAKE.
#84717	Lake Controller	Available EQ filter types now stay available also after adding filters via keyboard.
#87690	Lake Controller	Technical Data window IP setting “DHCP” no longer also shows the word “Auto”.
#86464	Lake Controller	A consecutive fixed IP address is now only suggested if current Lake and Dante subnets mismatch after a change.
#57812	Lake Controller	*Dante Read Only: Unknown Reason* is no longer shown in the Technical Data window.
#83908	Lake Controller	An error is now shown if attempting to enable the AFMG integration without Ease Focus installed.

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Release v8.0.0 – Installer 140 (2023-07-07)

Component	Version	New	Comment
Installer	140	X	
Lake Controller	8.0.0-685	X	v8.0.0-685-g3e62a799a
D Series Lake Firmware	Bundle 00.05.12	X	
ARM	3e62a799a	X	
DSP	3e62a799a	X	
FPGA	97		
DICO	1.2.23, PSU		D80, D120, D200
DSPA	1.2.6		D10, D20, D40
Dante	1.2.56	X	Support for Brooklyn II and Brooklyn 3
Safe Image	0.38	X	
PLM+ Series Firmware	Bundle 00.05.12	X	
ARM	3e62a799a	X	
DSP	3e62a799a	X	
FPGA	97		
Front	4.4.3	X	
DICO	1.2.23, PSU		PLM8K44, PLM12K44, PLM20K44
DSPA	1.2.6		PLM5K44
Dante	1.2.56	X	Support for Brooklyn II and Brooklyn 3
Safe Image	0.38	X	
PLM Series Firmware (and OEM)	Bundle 00.05.64	X	
DSP	c92fb4cac	X	
FPGA	41		
Front	1.9.2		
Amp	0.14.5, PSU		
Dante	3.0.1.48		
PLM Safe Mode Image	0.03 (label 99.03)		See separate instructions section
LM Series Firmware	Bundle 00.03.65	X	
DSP	3e62a799a	X	LM 26, LM 44
FPGA	1058		
Front	2.2.2		
Dante	3.0.1.48		
LM Safe Mode Image	0.02 (label 99.02)		See separate instructions section
MY8-LAKE Firmware	Bundle 00.05.12	X	
ARM	3e62a799a	X	
DSP	3e62a799a	X	
FPGA	R6041		
Lake Firmware Update Utilities	8.0.0-685	X	
Preset Manager Utilities			
Preset Manager	8.0.0-685	X	
LM Series	8.0.0-685	X	
Analyzer Integration			
Smaart v7 / Di	1.2 / 1.0		
Smaart v9.1	8.0.0.651	X	
Live-Capture / AudioClient	1.2		
Third Part applications			
DAPI	4.1.0.1		From Audinate (Win7 or later required, otherwise older versions are installed)
Dante Discovery	1.2.2.3		
Dante Control & Monitoring	4.0.2.1		
Lake LoadLibrary™	5.6	X	See separate release note
Documentation			
Lake Controller Operation Manual	1.7.0		Not updated with latest features
D Series Operation Manual & QSG	3.0.4		Not updated with latest features
PLM+ Series Operation Manual & QSG	3.0.4		Not updated with latest features
PLM Series Operation Manual & QSG	1.3.5		
LM Series Operation Manual & QSG	1.3.5		
LMX Series Operation Manual & QSG	*N/A*		Not yet published
MY8-LAKE Owner's Manual	1.0		
Lake Network Conf. Guide	1.1.4		

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New Features

- Support for PLM+/D Series produced after Q3 2023 with the new Dante module model Brooklyn 3. These products cannot be downgraded to firmware prior to this release.
    - *Note*: The specific Dante model can be seen in Tech Data or on the Front Panel menu (Frame Info).
- Support for the new LMX series product range (LMX 48 and LMX 88)
    - Virtual files for LMX 48 and LMX 88
    - *Note*: No firmware for LMX Series is included in this release
- Re-designed I/O Config user interface
    - I/O Config divided into:
        - Overview – all the modules for the frame are visible and meters displayed. Events & Control are available for each module on the magnifying glass to the right.
        - Scene – LMX Mesa only feature. A Scene preset includes Dante Receivers,
        - Input Router
        - Input Mixer, with a matrix mixer
- Lake Controller graphics appearance has been changed to a flatter look and more coherent use of colors for various UI elements. This includes (but is not limited to):
    - All buttons
    - File and folder icons
    - Level Meters
    - Work Area module icons of all supported sizes
    - Daylight mode significantly improved
- AFMG Ease Focus FIRmaker integration for Lake XP Array Optimizers
- The *Exclude LM Mesa* feature for the Global Input Router Priority selection window has now been transformed to incorporate the LMX series as well, by generalizing its function to exclude all frames that contain at least one Mesa module. (#74316)
- Analyzer Integration with Smaart v9.1 and later.
    - *Note*: Does not work with Smaart v9.0.
- Changed “Power Cycle” in LakeUpdate to “Reboot”
- Renamed “Dual Redundancy” to “Dante Redundancy”
- New improved logic for Fixed IP settings when both Lake and Dante are set to Fixed IP.
- Snapping in Input mixer to -6 dB and 0 dB if starting from -inf.
- Added virtual file for PLM 8K44
- Optional to hide the “Global Auto Power Down configuration” and Frame Auto Power Down.
    - In Lab.ini available under *Documents**Lake**LakeController_vX.X**Config* set HideAutoPowerDownWhenDisabled=1
- The Global IP log is by default not created anymore. Can be re-enabled if this row is set to 1 in the iC.ini found in \Documents\Lake\LakeController_v8.0.0\Config
    - GLOBAL_IP_CONFIG_LIST_AUTOLOG_ENABLED=0

Resolved Issues

Key	Components	Description
		Major fixes
#73603	Lake Controller	Fixed a problem with mismatching Dante Inputs during System File Recall.
#73233	Lake Controller	Frame Replace could lead to OOS scenarios.
#74186	Lake Controller	Group Input Mute now reflects mismatching mute state on its assigned module(s). Previously this only worked for Output Mute.
#74181	Lake Controller	All Page faults and warnings now classified correctly (red vs orange text color)
#6310	Lake Controller	Correct faults and warnings priorities for LMX.
		Minor fixes
#65018	Lake Controller	Fixed a problem with frame going OOS immediately after Frame Replace when Array Optimized IDs had been modified.
#73501 #73486 #73436 #72807 #72724	Lake Controller	Lake XP module synchronization optimizations (faster synchronization)

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#73301	Lake Controller	When a group contains frames with mismatching firmware, the group icon on Work Area no longer shows constant *Resyncing*.
#81940	Lake Controller	Improved Dante error reporting
#74323	Lake Controller	Low-level graphics crashfix: Detect lost surface before usage.
#73774	Lake Controller	GIRP overview popout can appear out of screen
#80904	PLM+	Remove Bypassed Array optimization icon on PLM+ front panel
#80548	Lake Controller	Dante FailSafe indicated in LC and LakeUpdate
#79774	PLM+	PLM+ front panel crash when "Unused" module button pressed
#74355	Lake Controller	Wrong Vendor Key displayed on Groups while Re-syncing
#74213	Lake Controller	Popout windows no longer move away out of screen when opened
#74317	Lake Controller	Popout closed with a mouse click on exit, next time it's opened it's not centered
#65069 **#65067** **#65062**	Lake Controller	Lots of crashes fixed
#83840	Lake Controller	Group Output mute indicated on Group with assigned Mesa modules

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Patch Release v7.1.2 — Installer 132 (2022-12-08)

Component	Version	New	Comment
Installer	132	X	
Lake Controller	7.1.2-2	X	Commit #0bb404c8e
D Series Lake Firmware	Bundle 00.04.56		
ARM	91783d396		
DSP	91783d396		
FPGA	97		
DICO	1.2.23, PSU		D80, D120, D200
DSPA	1.2.6		D10, D20, D40
Dante	1.1.15		
Safe Image	0.30		
PLM+ Series Firmware	Bundle 00.04.56		
ARM	91783d396		
DSP	91783d396		
FPGA	97		
Front	4.2.12		
DICO	1.2.23, PSU		PLM12K44, PLM20K44
DSPA	1.2.6		PLM5K44
Dante	1.1.15		
Safe Image	0.30		
PLM Series Firmware (and OEM)	Bundle 00.05.33		
DSP	f772c9c74		
FPGA	41		
Front	1.9.2		
Amp	0.14.5, PSU		
Dante	3.0.1.48		
PLM Safe Mode Image	0.03 (label 99.03)		See separate instructions section
LM Series Firmware	Bundle 00.03.35		
DSP	baded4e66		
FPGA	1058		
Front	2.2.2		
Dante	3.0.1.48		
LM Safe Mode Image	0.02 (label 99.02)		See separate instructions section
MY8-LAKE Firmware	Bundle 00.04.56		
ARM	91783d396		
DSP	91783d396		
FPGA	R6041		
Lake Firmware Update Utilities	7.0.7.114		Commit #f772c9c74
Preset Manager Utilities			
Preset Manager	7.1.2.2	X	Commit #0bb404c8e
LM Series	7.0.8.2		Commit #baded4e6
Analyzer Integration			
Smaart v7 / Di	1.2 / 1.0		
Smaart v9	7.1.2.2	X	
Live-Capture / AudioClient			
Third Part applications			
DAPI	4.1.0.1		From Audinate (Win7 or later required, otherwise older versions are installed)
Dante Discovery	1.2.2.3		
Dante Control & Monitoring	4.0.2.1		
Lake LoadLibrary™	5.5		See separate release note
Documentation			
Lake Controller Operation Manual	1.7.0		
D Series Operation Manual & QSG	3.0.4		Not updated with latest features
PLM+ Series Operation Manual & QSG	3.0.4		Not updated with latest features
PLM Series Operation Manual & QSG	1.3.5		
LM Series Operation Manual & QSG	1.3.5		
MY8-LAKE Owner's Manual	1.0		
Lake Network Conf. Guide	1.1.4		

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New features

- Added support for Rational Acoustics Smaart® v9. A new Analyzer DLL is bundled with the Lake Controller called “Smaart9Plugin.dll” which adds support in the Lake Controller EQ views. (#69886)
- Added a popout window that lists IP settings and other frame configuration information for all frames in the current system, presented in different columns. The list allows for text filtering, selection of which columns to show and sorting by column.



This popout can be opened from the Control tab’s Global IP configuration or via I/O Config Technical Data for an individual frame.
The entire list can also be exported as an xml file (no text filter applied, all columns included).
(#68878)

- Actual fault or warning is now shown on the work area icon. (#5034, #68706)

Resolved issues

Key	Components	Description
		Critical fixes
#64501 #68467 #68052 #68422	Lake Controller	The program now falls back to internal system RAM for certain drawing operations when the graphics driver reports no hardware (video memory) support for these operations. This particularly pertains to Intel Iris 12th generation drivers. Using internal system RAM may lead to poor performance.
#66687	Lake Controller	Recalling system files containing Lake XP modules now sets TC Auto on/off correctly.
		Major fixes
#47436	Preset Manager	Fixed a situation related to Dante services where the program could crash
#61065	Lake Controller	As a workaround, if the product lock has been set to deny the current product there is now the ability to set it back to allow from the Product Lock configuration popout.
#58439	Lake Controller	Levels view can now be shown when navigating to it from within the Overlay Store/Recall menu.
#59553	Lake Controller	No longer crashes when editing a corrupt BLEQ EQ curve
#59691	Lake Controller	No longer crashes when entering Designer Worksheets for 6aux and LP4way in combination
#64166	Lake Controller	Control tab Global IP configuration now reports correct IP settings count.
#64488	Lake Controller	Stability fix for synchronization of Lake XP parameters.
#68633 #68635	Lake Controller	“Wrong Vendor Key” fault no longer displayed when in fact the frame has incompatible firmware.
#65212	Lake Controller	Batch Replace now correctly blocks frames with incompatible firmware
#68634	Lake Controller	Batch Replace no longer blocks due to “Wrong Vendor Key” when in fact the frame has incompatible firmware.
#70146 #70879	Lake Controller	Frames that are unreachable no longer report “Wrong Vendor Key” due to repeating communication errors.
		Minor fixes
#69992	Lake Controller	Crash fix in Clock configuration popout when invalid clock settings.
#68498	Lake Controller	Levels view sliders improved responsiveness with first mouse click when low performance
#67507 #67861	Lake Controller	For PLM+ and D series, the I/O Config Tech Data popout assists the user during fixed IP setup by auto incrementing the addresses. There is now a user dialog to make this assignment optional.
#66014	Preset Manager	Now possible to use scroll wheel to scroll the left file pane

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Patch Release v7.0.8 — Installer 125 (2022-06-29)

Component	Version	New	Comment
Installer	125	X	
Lake Controller	7.0.8-29	X	Commit #de19a819f
D Series Lake Firmware	Bundle 00.04.56	X	
ARM	91783d396	X	
DSP	91783d396	X	
FPGA	97		
DICO	1.2.23, PSU		D80, D120, D200
DSPA	1.2.6		D10, D20, D40
Dante	1.1.15		
Safe Image	0.30		
PLM+ Series Firmware	Bundle 00.04.56	X	
ARM	91783d396	X	
DSP	91783d396	X	
FPGA	97		
Front	4.2.12		
DICO	1.2.23, PSU		PLM12K44, PLM20K44
DSPA	1.2.6		PLM5K44
Dante	1.1.15		
Safe Image	0.30		
PLM Series Firmware (and OEM)	Bundle 00.05.33		
DSP	f772c9c74		
FPGA	41		
Front	1.9.2		
Amp	0.14.5, PSU		
Dante	3.0.1.48		
PLM Safe Mode Image	0.03 (label 99.03)		See separate instructions section
LM Series Firmware	Bundle 00.03.35	X	
DSP	baded4e66	X	
FPGA	1058		
Front	2.2.2		
Dante	3.0.1.48		
LM Safe Mode Image	0.02 (label 99.02)		See separate instructions section
MY8-LAKE Firmware	Bundle 00.04.56	X	
ARM	91783d396	X	
DSP	91783d396	X	
FPGA	R6041		
Lake Firmware Update Utilities	7.0.7.114		Commit #f772c9c74
Preset Manager Utilities			
Preset Manager	7.0.7.114		Commit #f772c9c74
LM Series	7.0.8.2	X	Commit #baded4e6
Analyzer Integration			
Smaart v7 / Di	1.2 / 1.0		
Live-Capture / AudioClient	1.2		
Third Part applications			
DAPI	4.1.0.1		From Audinate (Win7 or later required, otherwise older versions are installed)
Dante Discovery	1.2.2.3		
Dante Control & Monitoring	4.0.2.1		
Lake LoadLibrary™	5.5		See separate release note
Documentation			
Lake Controller Operation Manual	1.7.0		
D Series Operation Manual & QSG	3.0.4		Not updated with latest features
PLM+ Series Operation Manual & QSG	3.0.4		Not updated with latest features
PLM Series Operation Manual & QSG	1.3.5		
LM Series Operation Manual & QSG	1.3.5		
MY8-LAKE Owner's Manual	1.0		
Lake Network Conf. Guide	1.1.4		

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New features

- New Control Plugin interface version 7 (see Appendix **Error! Reference source not found.**)
- (#58604) Possible to unload any loaded Analyzer Plugin DLL from the Network menu in the Lake Controller. This is a workaround to restart the Analyzer integration without having to restart the Lake Controller itself.



Resolved Issues

Key	Components	Description
		Critical fixes
#8024	LM	LM has 22 samples longer latency through Modules B-D compared to Module A when Latency Match is enabled.
		Major fixes
#54053	Lake Controller	Flickering white popup displayed when changing Frame configuration between Contour and Mesa
		Minor fixes
#58139	Lake Controller	Error message when the Lake Controller starts up if there is only one network card enabled.
#58580	Lake Controller	Not possible to press the edit box in the Levels/LimiterMax view when Designer Mode is disabled.
#48894	LM	Network performance improvement for broadcast data.

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Patch Release v7.0.7 — Installer 122 (2022-02-07)

Component	Version	New	Comment
Installer	122	X	
Lake Controller	7.0.7-117	X	Commit #0e64c7416
D Series Lake Firmware	Bundle 00.04.55	X	
ARM	966081559	X	
DSP	966081559	X	
FPGA	97		
DICO	1.2.23, PSU		D80, D120, D200
DSPA	1.2.6		D10, D20, D40
Dante	1.1.15	X	
Safe Image	0.30	X	
PLM+ Series Firmware	Bundle 00.04.55	X	
ARM	966081559	X	
DSP	966081559	X	
FPGA	97		
Front	4.2.12		
DICO	1.2.23, PSU		PLM12K44, PLM20K44
DSPA	1.2.6		PLM5K44
Dante	1.1.15	X	
Safe Image	0.30	X	
PLM Series Firmware (and OEM)	Bundle 00.05.33	X	
DSP	f772c9c74	X	
FPGA	41		
Front	1.9.2		
Amp	0.14.5, PSU		
Dante	3.0.1.48		
PLM Safe Mode Image	0.03 (label 99.03)		See separate instructions section
LM Series Firmware	Bundle 00.03.34	X	
DSP	ae4722136	X	
FPGA	1058		
Front	2.2.2		
Dante	3.0.1.48		
LM Safe Mode Image	0.02 (label 99.02)		See separate instructions section
MY8-LAKE Firmware	Bundle 00.04.55	X	
ARM	966081559	X	
DSP	966081559	X	
FPGA	R6041		
Lake Firmware Update Utilities	7.0.7.114	X	Commit #f772c9c74
Preset Manager Utilities			
Preset Manager	7.0.7.114	X	Commit #f772c9c74
LM Series	7.0.7.3	X	Commit #ae4722136
Analyzer Integration			
Smaart v7 / Di	1.2 / 1.0		
Live-Capture / AudioClient	1.2		
Third Part applications			
DAPI	4.1.0.1		From Audinate (Win7 or later required, otherwise older versions are installed)
Dante Discovery	1.2.2.3		
Dante Control & Monitoring	4.0.2.1		
Lake LoadLibrary™	5.5	X	See separate release note
Documentation			
Lake Controller Operation Manual	1.7.0		
D Series Operation Manual & QSG	3.0.4		Not updated with latest features
PLM+ Series Operation Manual & QSG	3.0.4		Not updated with latest features
PLM Series Operation Manual & QSG	1.3.5		
LM Series Operation Manual & QSG	1.3.5		
MY8-LAKE Owner's Manual	1.0		
Lake Network Conf. Guide	1.1.4		

New features

Lake Controller

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- Manually set Dante DNS and Gateway IP address for PLM+ and D Series product range
    - In the *Technical Data* window (available from *I/O Config -> Technical Data*), when the *IP Address Config* is set to *Fixed* for Dante Primary or Dante Secondary, the DNS Server and Gateway IP addresses can now be manually set.

      ⚠ **NOTE:**

      New IP settings do not take effect until the product has been power-cycled.

- Possible to reset the Lake Controller window to primary screen and 1024×768 in size, for those rare situations where multiple screens have been used before or the window size needs a reset. (#45300)
- For PLM+ and D Series products, it is now possible to route DSP channels to Dante transmit outputs. (#42813)
- Support for Plugin API v6 introduced (see Appendix D: Plugin API version 6)

Resolved issues

Key	Components	Description
		Critical fixes
#8335	PLM+ / D Series Dante	"Dante Need Service" fault message displayed if Dante Device Lock is enabled in the Dante Controller for a device and the IP Configuration or Slave only setting is changed in the Lake Controller.
#8345	PLM+ / D Series Dante	Cannot load System files when the Dante Device lock is enabled or enrolled in DDM.
#45834	PLM+ / D Series	On rare occasions, the device loses persistence settings if left unpowered for a while. This could lead to lost presets, device seeming to have been factory reset or even refuse to boot (stuck in Safe Mode).
#48352	PLM+ / D Series	On rare occasions, the device is unable to boot its main application but instead gets stuck in Safe Mode due to internal data communication errors.
		Major fixes
#6957	DDM, System Recall	Lake Controller System file recall can fail if one or more devices are enrolled in a Dante Domain
#6956	DDM, Dante	The PLM+/D Series can deactivate the Dante functionality with a warning displayed.
#6955	DDM, Firmware Update	Only DDM unmanaged devices can be firmware updated in the LakeUpdate utility.
#49251	Lake Controller	Performing *EQ Overlay Flat* on a Group EQ where the Group contains Lake XP modules sometimes leads to a non-flattened overlay or error message.
#39804	Lake Controller	BW filter box missing for All-pass filter for Lake XP module XOVER.
#8363, #11525	Lake Controller	Frame Replace virtual PLM20000Q to a PLM20k44 with XP4way configured results in missing C & D modules
#42782	Lake Controller	CL4way with changed AmpClip levels goes OOS on recall
#31649	Lake Controller	Cannot resolve OOS for a FIR3way module from the EQ view
#33733	Lake Controller	Cannot change Module label from Levels Designer Worksheets
#39048	Lake Controller	Unused channels not muted
#40737	Lake Controller	Output 2 not shown correctly in Designer Worksheets for a FIR3way Module, if Output 1 is set to Unused
#45954	PLM+ / D Series	After `Dev.MD.NoFaults` has been read once it no longer indicates an active fault
#41034	Lake Controller	BLEQ of a Module not working after viewing a Group with EQ
#47129	Lake Controller	Log files do not produce valid data in some columns for entries
#39054	Lake Controller	OOS on CL3way Module file recall due to DSP Configuration mismatch
#36633	Lake Controller	Module B goes OOS for any changes on Output 4 on a CL4way
#42672	Lake Controller	The path to where an EQ Overlay is recalled is not working with Lake XP modules
#38728	Lake Controller	FIR3way slow synchronization
#47021	PLM+ / D Series	No indication on front panel when SafeMode image is automatically updated
#45711	Lake Controller	Wrong Vendor Key showing on modules on Work Area briefly during synchronization or going online
#15502	Lake Controller	Navigation to *Home* after Soft Reset instead of staying in *Modules* menu
#37461	Lake Controller	EQ Overlay A/B Mode is not displayed correctly for PEQ1 in Lake XP modules (looks as if the tab is gone)

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#51117	Lake Controller	First Time Setup fails to copy the Lake LoadLibrary™ and/or migrate existing files from a previous version due to long paths
		Minor fixes
#39058	Lake Controller	LP4way Icon Meters and Levels view now show PostEQ channel with a gap to the four crossover outputs.
#39055, #15846	Lake Controller	LP4way Icon Meters still showing unused channels
#37429	Lake Controller	Input EQ changes in a Lake XP Module are not sent to device until the mouse is released
#43275, #49434	Lake Controller	MaxRMS Attack incorrectly still available for LevelLimits locked Lake XP module
#42822	Lake Controller	Incorrectly going to Levels from EQ view when pressing lower left corner
#3925, #7249	Lake Controller	Solo is not presented correctly for Virtual Modules
#11026, #7825	Lake Controller	Clicking on an input mixer in I/O Config and then closing the dialog leaves the button rendered in its depressed state
#14061	PLM+/ D Series DLM (3PP)	Sending invalid third-party messages (DLM) can lead to a device reset.

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Patch Release v7.0.6 — Installer 117 (2021-07-02)

Component	Version	New	Comment
Installer	117	X	
Lake Controller	7.0.6-3	X	Commit #cb7a2526a
D Series Lake Firmware	Bundle 00.04.22		
ARM	c11208d5c		
DSP	c11208d5c		
FPGA	97		
DICO	1.2.23, PSU		D80, D120, D200
DSPA	1.2.6		D10, D20, D40
Dante	1.1.7		
Safe Image	0.28		
PLM+ Series Firmware	Bundle 00.04.22		
ARM	c11208d5c		
DSP	c11208d5c		
FPGA	97		
Front	4.2.12		
DICO	1.2.23, PSU		PLM12K44, PLM20K44
DSPA	1.2.6		PLM5K44
Dante	1.1.7		
Safe Image	0.28		
PLM Series Firmware (and OEM)	Bundle 00.05.30		
ARM	c11208d5c		
FPGA	41		
Front	1.9.2		
Amp	0.14.5, PSU		
Dante	3.0.1.48		
PLM Safe Mode Image	0.03 (label 99.03)		See separate instructions section
LM Series Firmware	Bundle 00.03.30		
ARM	f037c73a9		
FPGA	1058		
Front	2.2.2		
Dante	3.0.1.48		
LM Safe Mode Image	0.02 (label 99.02)		See separate instructions section
MY8-LAKE Firmware	Bundle 00.04.22		
ARM	c11208d5c		
DSP	c11208d5c		
FPGA	R6041		
Lake Firmware Update Utilities	7.0.0.501		Commit #32034cb75
Preset Manager Utilities			
Preset Manager	7.0.4.12		Commit #d2dbc44f0
LM Series	7.0.4.1		Commit #5924c25ed
Analyzer Integration			
Smaart v7 / Di	1.2 / 1.0		
Live-Capture / AudioClient	1.2		
Third Part applications			
DAPI	4.1.0.1		From Audinate (Win7 or later required, otherwise older versions are installed)
Dante Discovery	1.2.2.3		
Dante Control & Monitoring	4.0.2.1		
Lake LoadLibrary™	5.4		See separate release note
Documentation			
Lake Controller Operation Manual	1.7.0		
D Series Operation Manual & QSG	3.0.4		Not updated with latest features
PLM+ Series Operation Manual & QSG	3.0.4		Not updated with latest features
PLM Series Operation Manual & QSG	1.3.5		
LM Series Operation Manual & QSG	1.3.5		
MY8-LAKE Owner's Manual	1.0		
Lake Network Conf. Guide	1.1.4		

New features

No new features in this patch release.

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Resolved issues

Key	Components	Description
		Critical fixes
#38483	Lake Controller	Fixed crash for Group EQ
#38482	Lake Controller	Fixed Lake XP module BaseEQ sychronization

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Patch Release v7.0.5 — Installer 115 (2021-06-08)

Component	Version	New	Comment
Installer	115	X	
Lake Controller	7.0.5-35	X	Commit #484d2f8d8
D Series Lake Firmware	Bundle 00.04.22		
ARM	c11208d5c		
DSP	c11208d5c		
FPGA	97		
DICO	1.2.23, PSU		D80, D120, D200
DSPA	1.2.6		D10, D20, D40
Dante	1.1.7		
Safe Image	0.28		
PLM+ Series Firmware	Bundle 00.04.22		
ARM	c11208d5c		
DSP	c11208d5c		
FPGA	97		
Front	4.2.12		
DICO	1.2.23, PSU		PLM12K44, PLM20K44
DSPA	1.2.6		PLM5K44
Dante	1.1.7		
Safe Image	0.28		
PLM Series Firmware (and OEM)	Bundle 00.05.30		
ARM	c11208d5c		
FPGA	41		
Front	1.9.2		
Amp	0.14.5, PSU		
Dante	3.0.1.48		
PLM Safe Mode Image	0.03 (label 99.03)		See separate instructions section
LM Series Firmware	Bundle 00.03.30		
ARM	f037c73a9		
FPGA	1058		
Front	2.2.2		
Dante	3.0.1.48		
LM Safe Mode Image	0.02 (label 99.02)		See separate instructions section
MY8-LAKE Firmware	Bundle 00.04.22		
ARM	c11208d5c		
DSP	c11208d5c		
FPGA	R6041		
Lake Firmware Update Utilities	7.0.0.501		Commit #32034cb75
Preset Manager Utilities			
Preset Manager	7.0.4.12		Commit #d2dbc44f0
LM Series	7.0.4.1		Commit #5924c25ed
Analyzer Integration			
Smaart v7 / Di	1.2 / 1.0		
Live-Capture / AudioClient	1.2		
Third Part applications			
DAPI	4.1.0.1		From Audinate (Win7 or later required, otherwise older versions are installed)
Dante Discovery	1.2.2.3		
Dante Control & Monitoring	4.0.2.1		
Lake LoadLibrary™	5.4	X	See separate release note
Documentation			
Lake Controller Operation Manual	1.7.0		
D Series Operation Manual & QSG	3.0.4		Not updated with latest features
PLM+ Series Operation Manual & QSG	3.0.4		Not updated with latest features
PLM Series Operation Manual & QSG	1.3.5		
LM Series Operation Manual & QSG	1.3.5		
MY8-LAKE Owner's Manual	1.0		
Lake Network Conf. Guide	1.1.4		

New features

No new features in this patch release, but many important resolved issues.

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Resolved issues

Key	Components	Description
		Critical fixes
#32501 **#35705** **#35706** **#35901** **#36613** **#36636**	Lake Controller	Stability issues related to various Out of Sync scenarios have been addressed
#33922	Lake Controller	Recalling System Files with Mesa EQ modules could end up in Out of Sync that would not resolve with Use Data in Computer.
#36725	Lake Controller	Files stored after resolving the Out of Sync in #33922 above in previous 7.0.x versions by using Use Date on Processor were corrupted with invalid EQ data and are corrected in 7.0.5 upon System File recall
#35840 **#36215**	Lake Controller	Mesa EQ modules always slow-synced due to internal checksum failures
#36637	Lake Controller	Mesa EQ modules C and D HPF/LPF overlays no longer interfere with those of module A and B
		Major fixes
#32248	Lake Controller	Fixed a crash when LimiterMax button is pressed within Levels view
#34603	Lake Controller	Fixed a crash when recalling certain FIRnway module files
#36090	Lake Controller	Non-XP module files that occupy A/B or C/D were not always possible to recall due to file corruption when stored with 7.0.0-7.0.4
#36741	Lake Controller	The CL3way+1aux module did not always show its Aux EQ overlay tab
#33134	Lake Controller	Analyzer Zoom and Move settings no longer go back to defaults when exiting the EQ view
#32252	Lake Controller	Reverting the change from CL3way to CL2way by setting the third channel unused is now possible by renaming it back again
#35888	Lake Controller	Correction to set MaxRMS Attack and Release times in Levels view when using the slider
#34691	Lake Controller	Fixed a problem with adding a frame to Work Area after first having changed pages
		Minor fixes
#11504	Lake Controller	When pasting into the Pre-Output EQ for XP modules, the view no longer changes to the first Input Overlay tab
#35713	Lake Controller	When toggling Hidden or View Only on Pre-Output EQ for XP modules, the view no longer changes to the first Input Overlay tab
#36278	Lake Controller	Changing the label of a channel no longer mutes it
#30950	Lake Controller	The Lab.ini file is now migrated with previous settings during first time setup of user files
#28190	Lake Controller	If first time setup fails to copy files, an error message is shown
#31890	Lake Controller	Added back the LM Series 4x8 Input Swapping system files to the default System Files folder

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Release v7.0.4 — Installer 113 (2021-01-22)

Component	Version	New	Comment
Installer	113	X	
Lake Controller	7.0.4-12	X	Commit #d2dbc44f0
D Series Lake Firmware	Bundle 00.04.22		
ARM	c11208d5c		
DSP	c11208d5c		
FPGA	97		
DICO	1.2.23, PSU		D80, D120, D200
DSPA	1.2.6		D10, D20, D40
Dante	1.1.7		
Safe Image	0.28		
PLM+ Series Firmware	Bundle 00.04.22		
ARM	c11208d5c		
DSP	c11208d5c		
FPGA	97		
Front	4.2.12		
DICO	1.2.23, PSU		PLM12K44, PLM20K44
DSPA	1.2.6		PLM5K44
Dante	1.1.7		
Safe Image	0.28		
PLM Series Firmware (and OEM)	Bundle 00.05.30		
ARM	c11208d5c		
FPGA	41		
Front	1.9.2		
Amp	0.14.5, PSU		
Dante	3.0.1.48		
PLM Safe Mode Image	0.03 (label 99.03)		See separate instructions section
LM Series Firmware	Bundle 00.03.30		
ARM	f037c73a9		
FPGA	1058		
Front	2.2.2		
Dante	3.0.1.48		
LM Safe Mode Image	0.02 (label 99.02)		See separate instructions section
MY8-LAKE Firmware	Bundle 00.04.22		
ARM	c11208d5c		
DSP	c11208d5c		
FPGA	R6041		
Lake Firmware Update Utilities	7.0.0.501		Commit #32034cb75
Preset Manager Utilities			
Preset Manager	7.0.4.12	X	Commit #d2dbc44f0
LM Series	7.0.4.1	X	Commit #5924c25ed
Analyzer Integration			
Smaart v7 / Di	1.2 / 1.0		
Live-Capture / AudioClient	1.2		
Third Part applications			
DAPI	4.1.0.1		From Audinate (Win7 or later required, otherwise older versions are installed)
Dante Discovery	1.2.2.3		
Dante Control & Monitoring	4.0.2.1		
Lake LoadLibrary™	5.3		See separate release note
Documentation			
Lake Controller Operation Manual	1.7.0		
D Series Operation Manual & QSG	3.0.4		Not updated with latest features
PLM+ Series Operation Manual & QSG	3.0.4		Not updated with latest features
PLM Series Operation Manual & QSG	1.3.5		
LM Series Operation Manual & QSG	1.3.5		
MY8-LAKE Owner's Manual	1.0		
Lake Network Conf. Guide	1.1.4		

New features

No new features in this patch release, but many important resolved issues.

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Resolved issues

Key	Components	Description
		Critical fixes
#17357	Preset Manager, LM Preset Manager	Retrieving frame presets from a PLM series or LM series product which was upgraded from 6.8.5 or earlier resulted in unusable preset banks on the computer side, which gave an error when trying to transfer the same presets into a device. With patch release 7.0.4, this no longer happens. However, all frame presets need to be re-downloaded from the device since bank files stored with Preset Manager 7.0.0 and LM Preset Manager 7.0.0 (included in both release 7.0.0 and release 7.0.3) are corrupt.
#17809	Lake Controller	Group muting Mesa modules does not work.
#17895, #27342	Lake Controller	Group muting and unmuting with overlapping groups does not work.
#27288	Lake Controller	System Files stored with a combination of Lake XP*n*way and FIR*n*way modules in 7.0.0 and 7.0.3 cannot be recalled. These files may however be recalled with 7.0.4.
		Major fixes
#17967	Lake Controller	Unable to change polarity for Mesa modules from Designer Worksheets.
		Minor fixes
#17968	Lake Controller	Levels view polarity buttons visible for group input under certain circumstances and always for the Mesa module input channel.
#27308	Lake Controller	Module File Recall sometimes undesirably re-positions the module on Work Area.
#27413	Lake Controller	Make Virtual to be disabled in Multiple Controllers
#27313	Lake Controller	Wrong Vendor Key indications is shown on the Secondary Lake Controller even if the frame has the correct Vendor Key

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Release v7.0.3 — Installer 111 (2020-12-18)

Component	Version	New	Comment
Installer	111	X	
Lake Controller	7.0.3-14	X	Commit #edc373b6c
D Series Lake Firmware	Bundle 00.04.22		
ARM	c11208d5c		
DSP	c11208d5c		
FPGA	97		
DICO	1.2.23, PSU		D80, D120, D200
DSPA	1.2.6		D10, D20, D40
Dante	1.1.7		
Safe Image	0.28		
PLM+ Series Firmware	Bundle 00.04.22		
ARM	c11208d5c		
DSP	c11208d5c		
FPGA	97		
Front	4.2.12		
DICO	1.2.23, PSU		PLM12K44, PLM20K44
DSPA	1.2.6		PLM5K44
Dante	1.1.7		
Safe Image	0.28		
PLM Series Firmware (and OEM)	Bundle 00.05.30		
ARM	c11208d5c		
FPGA	41		
Front	1.9.2		
Amp	0.14.5, PSU		
Dante	3.0.1.48		
PLM Safe Mode Image	0.03 (label 99.03)		See separate instructions section
LM Series Firmware	Bundle 00.03.30		
ARM	f037c73a9		
FPGA	1058		
Front	2.2.2		
Dante	3.0.1.48		
LM Safe Mode Image	0.02 (label 99.02)		See separate instructions section
MY8-LAKE Firmware	Bundle 00.04.22		
ARM	c11208d5c		
DSP	c11208d5c		
FPGA	R6041		
Lake Firmware Update Utilities	7.0.0.501		Commit #32034cb75
Preset Manager Utilities			
Preset Manager	7.0.0.501		Commit #32034cb75
LM Series	7.0.0.7		Commit #f037c73a9
Analyzer Integration			
Smaart v7 / Di	1.2 / 1.0		
Live-Capture / AudioClient	1.2		
Third Part applications			
DAPI	4.1.0.1		From Audinate (Win7 or later required, otherwise older versions are installed)
Dante Discovery	1.2.2.3		
Dante Control & Monitoring	4.0.2.1		
Lake LoadLibrary™	5.3	X	See separate release note
Documentation			
Lake Controller Operation Manual	1.7.0		
D Series Operation Manual & QSG	3.0.4		Not updated with latest features
PLM+ Series Operation Manual & QSG	3.0.4		Not updated with latest features
PLM Series Operation Manual & QSG	1.3.5		
LM Series Operation Manual & QSG	1.3.5		
MY8-LAKE Owner's Manual	1.0		
Lake Network Conf. Guide	1.1.4		

New features

No new features in this patch release, but many important resolved issues.

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Resolved issues

Key	Components	Description
		Critical fixes
#13356	Lake Controller	Module Store incorrectly include EQ Overlays from other modules in the frame at store, which corrupted the resulting stored module file.
#12371	Lake Controller	LoadSmart verification does not work for modules with the first DSP channel hidden (set to unused)
#13257	Lake Controller	Lake XP modules in 96kHz can go OOS due to Downsample/Upsample on Ch4.
#16310 #16040	Lake Controller	Some “Use Data in Computer” or “Use Data in Processor” are still Out of Sync after the operation.
#16176	Lake Controller	When one module is Out of Sync, all modules for the frame goes Out of Sync.
#15473 #15453	Lake Controller	Fixed Hide and Read only for Pre-Output EQ and Crossover for XP modules.
#14011	Lake Controller	Module Stored from B or D will can have incorrect AmpGain/ISPVL settings.
#14830 #14831	Lake Controller	If LoadLast file is corrupt, it doesn’t automatically change to the LoadLast backup or AutoSave files.
		Major fixes
#17072	Lake Controller	Base Configuration files are now properly recalled as base configurations.
#16693	Lake Controller	When recalling System Presets from the Lake Controller itself, and the recalled frame changed configuration in terms of number of modules in it, the resulting frame could end up in a state where some modules were neither on the Work Area nor on the scrollbar.
#15492	Lake Controller	Incorrect Faults and Warnings displayed on Groups during Synchronization.
#10383	Lake Controller	LevelLimits sometimes broken (nothing displayed).
#11286	Lake Controller	When an XP Module have more overlays than can fit on the screen it is not possible to scroll through the tabs.
#14012	Lake Controller	LimiterMax cannot be configured for LP4way from Worksheets
#11442	Lake Controller	Doesn’t work to import FIR coefficients for XP module via Designer Worksheets.
#13068	Lake Controller	The Classic 3way +1aux modules does not work
#13347	Lake Controller	Workarea Icon Meters doesn’t always show correct number of meters for modules or Groups.
#13524	Lake Controller	Group Level meters are not correct
#16332	Lake Controller	The Biquads are not re-calculated when the Sample Rate is changed for a XP module
#16003	Lake Controller	Levels view not always correct
#16003	Lake Controller	Cannot always recall CL4way, CL5way and CL6way module .
		Minor fixes
#16537	Lake Controller	With this release, it is no longer possible to explicitly store a system file where some of the frames do not have all its individual modules in the Work Area. An exception to this rule is virtual frames, which are still allowed to be stored. This relates to issue #12370.
#13347	Lake Controller	Work Area icon meters for FIR3Way with first channel unused shows only one output meter
#13067 #14261	Lake Controller	Module H incorrectly displayed in I/O Config
#13068	Lake Controller	Manipulating the Aux selector in CL3way+1aux modules corrupts the module configuration
#14976	Lake Controller	Re-sync appearance when a Frame with LP4way is brought to Workarea

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Release v7.0.0 — Installer 108 (2020-07-07)

Component	Version	New	Comment
Installer	108	X	
Lake Controller	7.0.0.501	X	Commit #32034cb75
D Series Lake Firmware	Bundle 00.04.22	X	
ARM	c11208d5c	X	
DSP	c11208d5c	X	
FPGA	97		
DICO	1.2.23, PSU	X	D80, D120, D200
DSPA	1.2.6		D10, D20, D40
Dante	1.1.7		
Safe Image	0.28	X	
PLM+ Series Firmware	Bundle 00.04.22	X	
ARM	c11208d5c	X	
DSP	c11208d5c	X	
FPGA	97		
Front	4.2.12	X	
DICO	1.2.23, PSU	X	PLM12K44, PLM20K44
DSPA	1.2.6		PLM5K44
Dante	1.1.7		
Safe Image	0.28	X	
PLM Series Firmware (and OEM)	Bundle 00.05.30	X	
ARM	c11208d5c	X	
FPGA	41		
Front	1.9.2		
Amp	0.14.5, PSU		
Dante	3.0.1.48		
PLM Safe Mode Image	0.03 (label 99.03)		See separate instructions section
LM Series Firmware	Bundle 00.03.30	X	
ARM	f037c73a9	X	
FPGA	1058		
Front	2.2.2		
Dante	3.0.1.48		
LM Safe Mode Image	0.02 (label 99.02)		See separate instructions section
MY8-LAKE Firmware	Bundle 00.04.22	X	
ARM	c11208d5c	X	
DSP	c11208d5c	X	
FPGA	R6041		
Lake Firmware Update Utilities	7.0.0.501	X	Commit #32034cb75
Preset Manager Utilities			
Preset Manager	7.0.0.501	X	Commit #32034cb75
LM Series	7.0.0.7	X	Commit #f037c73a9
Analyzer Integration			
Smaart v7 / Di	1.2 / 1.0		
Live-Capture / AudioClient	1.2		
Third Part applications			
DAPI	4.1.0.1		From Audinate (Win7 or later required, otherwise older versions are installed)
Dante Discovery	1.2.2.3		
Dante Control & Monitoring	4.0.2.1		
Lake LoadLibrary™	5.2	X	See separate release note
Documentation			
Lake Controller Operation Manual	1.7.0	X	
D Series Operation Manual & QSG	3.0.4		Not updated with latest features
PLM+ Series Operation Manual & QSG	3.0.4		Not updated with latest features
PLM Series Operation Manual & QSG	1.3.5		
LM Series Operation Manual & QSG	1.3.5		
MY8-LAKE Owner's Manual	1.0		
Lake Network Conf. Guide	1.1.4		

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New features

Lake XP Contour Module
Lake XP (Extended Processing) Contour Modules are now available for the PLM+ and D Series Lake product series. This new module type offers several advantages over previous module types in Lake Controller 6.8.x and earlier:

- Independent Array Optimization filters supporting FIR, dedicated to array optimization applications which are available even though the module is locked.
- Each output has a configurable crossover supporting FIR.
- Multiband Limiters, one for each output, supporting up to three independent frequency bands.
- Independent filters common to all outputs, called “Pre-Output EQ” which can be hidden/locked separately from the crossover EQ.

The XP module is available in XP1way, XP2way, XP3way and XP4way variants.

Please refer to the *Lake Controller Operation Manual* for more details.

Dynamic Module Label
Module Labels can now be broken up into static and dynamic parts, where only the dynamic part of the label is replaced during Module Recall. This feature makes it possible to give a module a label where one part (the static) represents its function in the system, and one part (the dynamic) corresponds to the preset running. During recall (and when *storing* a module file as well) only the dynamic part is changed.

Please refer to the *Lake Controller Operation Manual* for more details.

Make Virtual Frame
Added the possible to instantly transform any online or offline frame into a Virtual Frame. This function is available under the Copy/Paste/Replace menu. When a frame is made virtual, the Dante Device Name is not retained from the original device in order to avoid duplicate Dante Device Names. A new unique name is created just as for any new virtual frame taken to Workarea from the Virtual Frames menu.

Application Window Size and Position Improvements
If set to full screen mode at startup, Lake controller offers to switch to Window Mode automatically.
The Lake Controller window position is now also remembered between sessions.

> **Note:** If the Lake Controller was run on a Secondary Display that is no longer available, the program will still start on that position (and be outside the screen). This is rectified by removing the `WINDOW_LEFT` and `WINDOW_TOP` entries in iC.ini file

Custom Virtual Frames
Added possibility to customize the included Virtual Frames. These are now standard system files and can be replaced with a system file containing one single frame with any desired default configuration – a white paper with further instructions can be requested separately.

AES Termination and Iso-float Configuration
It is now possible to configure AES Termination and Iso-float grounding also for offline and virtual devices.

Network Selection Dialog changes
The Network Selection Dialog displayed when the Lake Controller starts up with two or more enabled network interfaces has been updated to list active network cards first. We also made it possible to select to start offline by pressing Esc and select which network card to use via arrow keys and then Enter. The dialog now also supports double-clicking the desired interface.

Modules Menu Module Size
For modules listed in the Scrollbar/Modules menu, all modules now consume the same space as when on the Workarea.

More Simultaneous Dante Voltage/Current Probes
Possible to use up to eight voltage/current output probes via Dante for PLM12K44, PLM20K44, D80L, D120L and D200L. See the DLM (third party) Protocol documentation for more details.

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Resolved issues

Key	Components	Description
		Critical fixes
#8048	Lake Controller	When starting LC first time on a Win10 (Surface Pro 4) LC freeze with black screen
#7890	Lake Controller	Global Output Mute doesn't mute all channels if one channel is unused
#7829	PLM+ / D Series	Device not selecting Analog Input correctly when an empty input is forced
#8160	PLM+ / D Series	Updated flash driver - reason for randomly losing persistence or presets

Non-implemented features

- *[Documentation]* PLM+ Operation Manual & QSG not updated with added features.
- *[Documentation]* D Series Operation Manual & QSG not updated with added features.

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Patch Release v6.8.5 — Installer 97 (2019-12-18)

Component	Version	New	Comment
Installer	97	X	
Lake Controller	6.8.5.16	X	Commit #5329efb5a
D Series Lake Firmware	Bundle 00.03.38	X	
ARM	5329efb5a	X	
DSP	5329efb5a	X	
FPGA	97		
DICO	1.2.20, PSU		D80, D120, D200
DSPA	1.2.6		D10, D20, D40
Dante	1.1.7		
Safe Image	0.27		
PLM+ Series Firmware	Bundle 00.03.38	X	
ARM	5329efb5a	X	
DSP	5329efb5a	X	
FPGA	97		
Front	4.2.11		
DICO	1.2.20, PSU		PLM12K44, PLM20K44
DSPA	1.2.6		PLM5K44
Dante	1.1.7		
Safe Image	0.27		
PLM Series Firmware (and OEM)	Bundle 00.05.04	X	
ARM	5.04 (0759b068c)	X	
FPGA	41		
Front	1.9.2		
Amp	0.14.5, PSU		
Dante	3.0.1.48		
PLM Safe Mode Image	0.03 (label 99.03)		See separate instructions section
LM Series Firmware	Bundle 00.03.06	X	
ARM	3.06 (d46187531)	X	
FPGA	1058		
Front	2.2.2	X	
Dante	3.0.1.48		
LM Safe Mode Image	0.02 (label 99.02)		See separate instructions section
MY8-LAKE Firmware	Bundle 00.03.38	X	
ARM	5329efb5a	X	
DSP	5329efb5a	X	
FPGA	R6041		
Lake Firmware Update Utilities	6.8.5.16	X	Commit #5329efb5a
Preset Manager Utilities			
Preset Manager	6.8.5.16	X	Commit #5329efb5a
LM Series	6.8.5.0	X	Commit #d46187531
Analyzer Integration			
Smaart v7 / Di	1.2 / 1.0		
Live-Capture / AudioClient	1.2		
Third Part applications			
DAPI	4.1.0.1		From Audinate (Win7 or later required, otherwise older versions are installed)
Dante Discovery	1.2.2.3		
Dante Control & Monitoring	4.0.2.1		
Lake Controller API	4b		
Lake LoadLibrary™	4.00	X	See separate release note
Documentation			
Lake Controller Operation Manual	1.6.1		Not updated with latest features
D Series Operation Manual & QSG	3.0.4		Not updated with latest features
PLM+ Series Operation Manual & QSG	3.0.4		Not updated with latest features
PLM Series Operation Manual & QSG	1.3.5		
LM Series Operation Manual & QSG	1.3.5		
MY8-LAKE Owner's Manual	1.0		
Lake Network Configuration Guide	1.1.4		

Lake Controller

- Global Mute Control

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  - In the Global Control tab (available under the All page -> Global Events & Control -> Control) the Global Power Channel Mute Control has been expanded to also include global controls of:
    - Module Input Mute
    - Module Output Mute.
  - The Global Mute Control affect all Modules on Workarea (does not affect Groups).
  - The Global Power Channel Mute Control will now also affect Offline and Virtual modules (previously it was only affecting Online devices)
  - The Offline counter for the Global Power Channel Mute Control has been removed as it is redundant (Offline counter is available at the Global Power Control.
- Product Lock Configuration
  - For an unlocked module, it is possible to configure a Product Lock from the Product Lock Configuration available under the Labels & Lock menu.
  - For a locked module, the Product Lock Configuration cannot be changed.

Lake LoadLibrary 4.00

- Added new speaker presets for Adamson and Turbosound, and some more.
  - See Lake LoadLibrary Release note for further information.

Resolved issues

Key	Components	Description
		Major fixes
#7654	PLM+, D Series, MY8-LAKE	Stability improvements in DSP buffer handling.

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Patch Release v6.8.4 – Installer 92 (2019-10-22)

Component	Version	New	Comment
Installer	92	X	
Lake Controller	6.8.4.8	X	Commit #d5493ebe2
D Series Lake Firmware	Bundle 00.03.36		
ARM	dfedb1c05		
DSP	dfedb1c05		
FPGA	97		
DICO	1.2.20, PSU		D80, D120, D200
DSPA	1.2.6		D10, D20, D40
Dante	1.1.7		
Safe Image	0.27		
PLM+ Series Firmware	Bundle 00.03.36		
ARM	dfedb1c05		
DSP	dfedb1c05		
FPGA	97		
Front	4.2.11		
DICO	1.2.20, PSU		PLM12K44, PLM20K44
DSPA	1.2.6		PLM5K44
Dante	1.1.7		
Safe Image	0.27		
PLM Series Firmware (and OEM)	Bundle 00.05.03		
ARM	5.03 (dfedb1c05)		
FPGA	41		
Front	1.9.2		
Amp	0.14.5, PSU		
Dante	3.0.1.48		
PLM Safe Mode Image	0.03 (label 99.03)		See separate instructions section
LM Series Firmware	Bundle 00.03.05	X	
ARM	3.05 (d02ab1013)	X	
FPGA	1058		
Front	2.2.2	X	
Dante	3.0.1.48		
LM Safe Mode Image	0.02 (label 99.02)		See separate instructions section
MY8-LAKE Firmware	Bundle 00.03.36		
ARM	dfedb1c05		
DSP	dfedb1c05		
FPGA	R6041		
Lake Firmware Update Utilities	6.8.3.1		Commit #1b746378e
Preset Manager Utilities			
Preset Manager	6.8.3.1		Commit #1b746378e
LM Series	6.8.4.5	X	Commit #d02ab1013
Analyzer Integration			
Smaart v7 / Di	1.2 / 1.0		
Live-Capture / AudioClient	1.2		
Third Part applications			
DAPI	4.1.0.1		From Audinate (Win7 or later required, otherwise older versions are installed)
Dante Discovery	1.2.2.3		
Dante Control & Monitoring	4.0.2.1		
Lake Controller API	4b	X	
Lake LoadLibrary™	3.20	X	See separate release note
Documentation			
Lake Controller Operation Manual	1.6.1		Not updated with latest features
D Series Operation Manual & QSG	3.0.4		Not updated with latest features
PLM+ Series Operation Manual & QSG	3.0.4		Not updated with latest features
PLM Series Operation Manual & QSG	1.3.5		
LM Series Operation Manual & QSG	1.3.5		
MY8-LAKE Owner's Manual	1.0		
Lake Network Configuration Guide	1.1.4		

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LM Series

- The LM Series (in Contour mode) now support the FIR Module, which many of the SpeakerPresets are built upon. The FIR module consumes both of the LM Series modules.

Lake Controller

- Extended control API, IControl4b.
    - See Appendix B for further information.

Lake LoadLibrary 3.20

- Added new speaker presets for HK Audio and Dynaudio.
    - See Lake LoadLibrary Release note for further information.

Resolved issues

Key	Components	Description
		Major fixes
#7371	Lake Controller	When going to EQ view for a module while in the Group menu, you get to the last selected group.
#7577	LM	Input Router Mute fault is shown even though no router is muted for combined A/B modules.

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Patch Release v6.8.3 – Installer 91 (2019-08-01)

Component	Version	New	Comment
Installer	91	X	
Lake Controller	6.8.3.1	X	Commit #1b746378e
D Series Lake Firmware	Bundle 00.03.36		
ARM	dfedb1c05		
DSP	dfedb1c05		
FPGA	97		
DICO	1.2.20, PSU		D80, D120, D200
DSPA	1.2.6		D10, D20, D40
Dante	1.1.7		
Safe Image	0.27		
PLM+ Series Firmware	Bundle 00.03.36		
ARM	dfedb1c05		
DSP	dfedb1c05		
FPGA	97		
Front	4.2.11		
DICO	1.2.20, PSU		PLM12K44, PLM20K44
DSPA	1.2.6		PLM5K44
Dante	1.1.7		
Safe Image	0.27		
PLM Series Firmware (and OEM)	Bundle 00.05.03		
ARM	5.03 (dfedb1c05)		
FPGA	41		
Front	1.9.2		
Amp	0.14.5, PSU		
Dante	3.0.1.48		
PLM Safe Mode Image	0.03 (label 99.03)		See separate instructions section
LM Series Firmware	Bundle 00.03.04		
ARM	3.04 (6ace8b1d9)		
FPGA	1058		
Front	2.2.1		
Dante	3.0.1.48		
LM Safe Mode Image	0.02 (label 99.02)		See separate instructions section
MY8-LAKE Firmware	Bundle 00.03.36		
ARM	dfedb1c05		
DSP	dfedb1c05		
FPGA	R6041		
Lake Firmware Update Utilities	6.8.3.1	X	Commit #1b746378e
Preset Manager Utilities			
Preset Manager	6.8.3.1	X	Commit #1b746378e
LM Series	6.8.2.3		Commit #6ace8b1d9
Analyzer Integration			
Smaart v7 / Di	1.2 / 1.0		
Live-Capture / AudioClient	1.2		
Third Part applications			
DAPI	4.1.0.1		From Audinate (Win7 or later required, otherwise older versions are installed)
Dante Discovery	1.2.2.3		
Dante Control & Monitoring	4.0.2.1		
Lake Controller API	4		
Lake LoadLibrary™	3.19		See separate release note
Documentation			
Lake Controller Operation Manual	1.6.1		Not updated with latest features
D Series Operation Manual & QSG	3.0.4		Not updated with latest features
PLM+ Series Operation Manual & QSG	3.0.4		Not updated with latest features
PLM Series Operation Manual & QSG	1.3.5		
LM Series Operation Manual & QSG	1.3.5		
MY8-LAKE Owner's Manual	1.0		
Lake Network Conf. Guide	1.1.4		

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Resolved issues

Key	Components	Description
		Major fixes
#7308	Lake Controller	Fixed a problem with setting level limits for Amp Gain and ISVPL in Amplifier Events & Control
#7309	Lake Controller	EQ View is no longer unresponsive after navigating out of sub menus in the Menu Bar.
#7310	Lake Controller	Fixed a problem with editing Load Smart settings in Amplifier Events & Control

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Patch Release v6.8.2 – Installer 90 (2019-07-08)

Component	Version	New	Comment
Installer	90	X	
Lake Controller	6.8.2.52		Commit #dfedb1c05
D Series Lake Firmware	Bundle 00.03.36		
ARM	dfedb1c05		
DSP	dfedb1c05		
FPGA	97		
DICO	1.2.20, PSU		D80, D120, D200
DSPA	1.2.6		D10, D20, D40
Dante	1.1.7		
Safe Image	0.27		
PLM+ Series Firmware	Bundle 00.03.36		
ARM	dfedb1c05		
DSP	dfedb1c05		
FPGA	97		
Front	4.2.11		
DICO	1.2.20, PSU		PLM12K44, PLM20K44
DSPA	1.2.6		PLM5K44
Dante	1.1.7		
Safe Image	0.27		
PLM Series Firmware (and OEM)	Bundle 00.05.03		
ARM	5.03 (dfedb1c05)		
FPGA	41		
Front	1.9.2		
Amp	0.14.5, PSU		
Dante	3.0.1.48		
PLM Safe Mode Image	0.03 (label 99.03)		See separate instructions section
LM Series Firmware	Bundle 00.03.04	X	
ARM	3.04 (6ace8b1d9)		
FPGA	1058		
Front	2.2.1		
Dante	3.0.1.48		
LM Safe Mode Image	0.02 (label 99.02)		See separate instructions section
MY8-LAKE Firmware	Bundle 00.03.36		
ARM	dfedb1c05		
DSP	dfedb1c05		
FPGA	R6041		
Lake Firmware Update Utilities	6.8.2.52		Commit #dfedb1c05
Preset Manager Utilities			
Preset Manager	6.8.2.52		Commit #dfedb1c05
LM Series	6.8.2.3	X	Commit #6ace8b1d9
Analyzer Integration			
Smaart v7 / Di	1.2 / 1.0		
Live-Capture / AudioClient	1.2		
Third Part applications			
DAPI	4.1.0.1		From Audinate (Win7 or later required, otherwise older versions are installed)
Dante Discovery	1.2.2.3		
Dante Control & Monitoring	4.0.2.1		
Lake LoadLibrary™	3.19		See separate release note
Documentation			
Lake Controller Operation Manual	1.6.1		Not updated with latest features
D Series Operation Manual & QSG	3.0.4		Not updated with latest features
PLM+ Series Operation Manual & QSG	3.0.4		Not updated with latest features
PLM Series Operation Manual & QSG	1.3.5		
LM Series Operation Manual & QSG	1.3.5		
MY8-LAKE Owner's Manual	1.0		
Lake Network Conf. Guide	1.1.4		

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Resolved issues

Key	Components	Description
		Major fixes
#7304	LM	LM devices no longer report Old Firmware in Lake Controller 6.8.2.

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Patch Release v6.8.2 – Installer 88 (2019-06-28)

Component	Version	New	Comment
Installer	88	X	
Lake Controller	6.8.2.52	X	Commit #dfedb1c05
D Series Lake Firmware	Bundle 00.03.36	X	
ARM	dfedb1c05	X	
DSP	dfedb1c05		
FPGA	97		
DICO	1.2.20, PSU		D80, D120, D200
DSPA	1.2.6		D10, D20, D40
Dante	1.1.7		
Safe Image	0.27		
PLM+ Series Firmware	Bundle 00.03.36	X	
ARM	dfedb1c05	X	
DSP	dfedb1c05		
FPGA	97		
Front	4.2.11		
DICO	1.2.20, PSU		PLM12K44, PLM20K44
DSPA	1.2.6		PLM5K44
Dante	1.1.7		
Safe Image	0.27		
PLM Series Firmware (and OEM)	Bundle 00.05.03	X	
ARM	5.03 (dfedb1c05)		
FPGA	41		
Front	1.9.2		
Amp	0.14.5, PSU		
Dante	3.0.1.48		
PLM Safe Mode Image	0.03 (label 99.03)		See separate instructions section
LM Series Firmware	Bundle 00.03.03	X	
ARM	3.03 (d6c3a4eeb)		
FPGA	1058		
Front	2.2.1		
Dante	3.0.1.48		
LM Safe Mode Image	0.02 (label 99.02)		See separate instructions section
MY8-LAKE Firmware	Bundle 00.03.36	X	
ARM	dfedb1c05	X	
DSP	dfedb1c05		
FPGA	R6041		
Lake Firmware Update Utilities	6.8.2.52	X	Commit #dfedb1c05
Preset Manager Utilities			
Preset Manager	6.8.2.52	X	Commit #dfedb1c05
LM Series	6.8.2.0	X	Commit #d6c3a4eeb
Analyzer Integration			
Smaart v7 / Di	1.2 / 1.0		
Live-Capture / AudioClient	1.2		
Third Part applications			
DAPI	4.1.0.1		From Audinate (Win7 or later required, otherwise older versions are installed)
Dante Discovery	1.2.2.3		
Dante Control & Monitoring	4.0.2.1		
Lake LoadLibrary™	3.19	X	See separate release note
Documentation			
Lake Controller Operation Manual	1.6.1		Not updated with latest features
D Series Operation Manual & QSG	3.0.4		Not updated with latest features
PLM+ Series Operation Manual & QSG	3.0.4		Not updated with latest features
PLM Series Operation Manual & QSG	1.3.5		
LM Series Operation Manual & QSG	1.3.5		
MY8-LAKE Owner's Manual	1.0		
Lake Network Conf. Guide	1.1.4		

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PLM+ and D Series

- Separate IP configuration for Dante on PLM+ and D Series.
  - From inside Lake Controller it is now possible to manually configure the Dante IP Configuration separately from the Lake IP Configuration.
  - If the device has Dual Redundancy enabled, it is possible to configure the Dante Primary and Secondary interface individually.
  - Lake Primary can be in Auto, DHCP or Fixed (Lake Secondary is always in Auto).
  - Dante Primary and Secondary can individually be configured to Auto, DHCP or Fixed
  - *Firmware update:* After a firmware update to the included firmware, the settings in the device are converted so the device will still run the exact same settings as before the update, but the new GUI in Lake Controller will display it in the new way.
  - ***Firmware downgrade:*** Before a firmware downgrade to a release prior to this functionality, the IP Settings for the Secondary interface MUST be set to Auto.
  - *Note:* IP Configuration changes for Dante from Dante Controller are still restricted.
- Connection status for Primary and Secondary Dante subscriptions is visible in Lake Controller.
  - From inside Lake Controller, when a device is in Dual Redundancy, it is now possible to see the Connection status of Receive subscriptions for both the Primary and Secondary connections from the Dante Configuration on I/O Config view.
  - *Note*: There is no warning or fault presented in case Primary or Secondary is dis-connected.

Lake Controller

- Technical Data menu under I/O Config has been updated to facilitate the new configuration options for PLM+ and D Series where Lake, Dante Primary and Secondary (when Dual Redundancy enabled) support independent IP Configuration settings.
  - Technical Data for PLM, LM and MY8-LAKE has also been slightly updated.
- The process of assigning Modules to Groups has been vastly improved.
  - Copy/Paste: It is now possible to copy all the Group assignments from one Module to another Module. From inside the Group menu, select a Module and press the *Copy/Paste* button and then press *Copy Assignment*. Select the other module and press *Paste Assignment*. The second module will now be assigned to the same Groups as the first module.
  - Multi-select: It is now possible to assign modules to a Group with multi-select (the yellow rectangle). Select a Group and then create a yellow rectangle around the modules you want to assign. Press the *Assign* button. It will then assign all selected modules to the Group. Pressing *Deassign* (same button) will de-assign the modules.
- Visibility of Group assignment is vastly improved.
  - Selecting a Module on Workarea while in Group menu will highlight all Groups that the selected module is assigned to – both on Workarea as well as down on Scrollbar.
  - Selecting a Group on Workarea will highlight all modules that are assigned to that Group.
  - Clicking on a used Group down on the Group scrollbar will highlight all Modules that are assigned to that Group on Workarea.
- The Icon Control features supports multi-select
  - Via multi-select it is possible to enable or disable the **Icon Meters**. The *Meter On/Off* button will toggle either all On or all Off for Icon meters on the selected modules.
  - Via multi select it is possible to change the module **Size**. The selection will set that size for all selected modules.
- Selecting a Module that is part of the system (i.e. already on Workarea) down on the Module scrollbar will highlight that module on Workarea.
  - Note: For LM Mesa the selection works in pair of A/B and C/D.
- From the Network menu it is now possible to load all Control plugins via the “Load Ctrl Plugins” button. This will load any Control plugins to the Plugins folder.
  - Note: The was previously available by pressing “Ctrl + L”, which still work when Keyboard shortcuts are enabled.
- The Network selection dialog displayed when Lake Controller started on a computer with multiple NIC’s now support double click.

Lake LoadLibrary 3.19

- Added new speaker presets for Tannoy and L’Acoustics.

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- See Lake LoadLibrary Release note for further information.

Resolved issues

Key	Components	Description
		Major fixes
#7090	Lake Controller	On PLM+ and D Series in Dual Redundancy, there is a "No Input" fault displayed when Dante Primary is lost.
#7089	Lake Controller	LimiterMax EXIT button not orange while inside LimiterMax menu.
#7124	PresetManager	PresetManager freeze when copying preset over already used positions.
		Minor fixes
#7175	LakeUpdate	Improved NIC selection for Dante services from within LakeUpdate utility.
#7214	DLM (3PP)	Added “Dev.Fuse.TypeDesired”.

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Patch Release v6.8.1 – Installer 87 (2019-04-18)

Component	Version	New	Comment
Installer	87	X	
Lake Controller	6.8.1.22	X	Commit #1fc13907e
D Series Lake Firmware	Bundle 00.03.35		
ARM	00bfa69e		
DSP	00bfa69e		
FPGA	97		
DICO	1.2.20, PSU		D80, D120, D200
DSPA	1.2.6		D10, D20, D40
Dante	1.1.7		
Safe Image	0.27		
PLM+ Series Firmware	Bundle 00.03.35		
ARM	00bfa69e 00bfa69e		
DSP	97		
FPGA	4.2.11		
Front	1.2.20, PSU		
DICO	1.2.6		PLM12K44, PLM20K44
DSPA	1.1.7		PLM5K44
Dante	0.27		
Safe Image			
PLM Series Firmware (and OEM)	Bundle 00.05.02		
ARM	5.02 (00bfa69e)		
FPGA	41		
Front	1.9.2		
Amp	0.14.5, PSU		
Dante	3.0.1.48		
PLM Safe Mode Image	0.03 (label 99.03)		See separate instructions section
LM Series Firmware	Bundle 00.03.02		
ARM	3.02 (4508617b)		
FPGA	1058		
Front	2.2.1		
Dante	3.0.1.48		
LM Safe Mode Image	0.02 (label 99.02)		See separate instructions section
MY8-LAKE Firmware	Bundle 00.03.35		
ARM	00bfa69e 00bfa69e		
DSP	R6041		
FPGA			
Lake Firmware Update Utilities	6.8.0.57		Commit #00bfa69
Preset Manager Utilities			
Preset Manager	6.8.0.57		Commit #00bfa69
LM Series	6.8.0.5		Commit #4508617
Analyzer Integration			
Smaart v7 / Di	1.2 / 1.0		
Live-Capture / AudioClient	1.2		
Third Part applications			
DAPI	4.1.0.1		From Audinate (Win7 or later required, otherwise older versions are installed)
Dante Discovery	1.2.2.3		
Dante Control & Monitoring	4.0.2.1		
Lake LoadLibrary™	3.17		See separate release note
Documentation			
Lake Controller Operation Manual	1.6.1		
D Series Operation Manual & QSG	3.0.4		
PLM+ Series Operation Manual & QSG	3.0.4		
PLM Series Operation Manual & QSG	1.3.5		
LM Series Operation Manual & QSG	1.3.5		
MY8-LAKE Owner's Manual	1.0		
Lake Network Conf. Guide	1.1.4		

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Lake Controller

- New API, IControl4 for read access of system information from outside Lake Controller.
  - See Appendix A for further information.

Resolved issues

Key	Components	Description
		Minor fixes
#1505	Lake Controller	“Amplifier Events & Control" text is displayed on Level Limits screens
#7089	Lake Controller	LimiterMax EXIT button not orange when inside LimiterMax config

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Release v6.8.0 – Installer 86 (2019-02-12)

Component	Version	New	Comment
Installer	86	X	
Lake Controller	6.8.0.57	X	Commit #00bfa69
D Series Lake Firmware	Bundle 00.03.35	X	
ARM	00bfa69e	X	
DSP	00bfa69e	X	
FPGA	97		
DICO	1.2.20, PSU		D80, D120, D200
DSPA	1.2.6		D10, D20, D40
Dante	1.1.7	X	
Safe Image	0.27		
PLM+ Series Firmware	Bundle 00.03.35	X	
ARM	00bfa69e 00bfa69e	X	
DSP	97	X	
FPGA	4.2.11		
Front	1.2.20, PSU		
DICO	1.2.6		PLM12K44, PLM20K44
DSPA	1.1.7		PLM5K44
Dante	0.27	X	
Safe Image			
PLM Series Firmware (and OEM)	Bundle 00.05.02	X	
ARM	5.02 (00bfa69e)	X	
FPGA	41		
Front	1.9.2		
Amp	0.14.5, PSU		
Dante	3.0.1.48		
PLM Safe Mode Image	0.03 (label 99.03)		See separate instructions section
LM Series Firmware	Bundle 00.03.02	X	
ARM	3.02 (4508617b)	X	
FPGA	1058		
Front	2.2.1		
Dante	3.0.1.48		
LM Safe Mode Image	0.02 (label 99.02)		See separate instructions section
MY8-LAKE Firmware	Bundle 00.03.35	X	
ARM	00bfa69e 00bfa69e	X	
DSP	R6041	X	
FPGA			
Lake Firmware Update Utilities	6.8.0.57	X	Commit #00bfa69
Preset Manager Utilities			
Preset Manager	6.8.0.57	X	Commit #00bfa69
LM Series	6.8.0.5	X	Commit #4508617
Analyzer Integration			
Smaart v7 / Di	1.2 / 1.0		
Live-Capture / AudioClient	1.2		
Third Part applications			
DAPI	4.1.0.1		From Audinate (Win7 or later required, otherwise older versions are installed)
Dante Discovery	1.2.2.3		
Dante Control & Monitoring	4.0.2.1		
Lake LoadLibrary™	3.17	X	See separate release note
Documentation			
Lake Controller Operation Manual	1.6.1	X	
D Series Operation Manual & QSG	3.0.4		
PLM+ Series Operation Manual & QSG	3.0.4		
PLM Series Operation Manual & QSG	1.3.5		
LM Series Operation Manual & QSG	1.3.5		
MY8-LAKE Owner's Manual	1.0		
Lake Network Conf. Guide	1.1.4		

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Lake Controller

- Input Configuration Summary, improves the visibility on how the input routers are programmed.
  - It is possible to toggle the Input Configuration view in I/O Config to instead show all Input routers and how all four priorities are set. This summary will also display the currently selected input as highlighted in yellow.
  - The Summary view enabled is stored between frames making it easy to go through a system and confirming the configuration. This option is also remembered between LC sessions.
- Global Input Router Priority Control has been added.
  - This can be enabled/disabled from the Global Events & Control, Control tab. When enabled a new menu appears in the top right corner called Prio. From this menu it is possible to simultaneously control the priority of all input routers in the system.
    - This will update all routers on Workarea to what is selected. But it is after this possible to go into a single device and change that's device Input router config. In other words, the GIRP dropdown will not continue to empower that state after any selection.
  - There is also an option to Exclude all routers for LM in Mesa mode devices from the Control tab or Details view.
  - The Details (magnifying glass) in the Prio menu will show a complete overview of all Input Routers in the system and the currently selected priority (also with option to exclude/include LM). This is updated in real time.
    - If there are routers currently not using the expected input priority it is possible to click on that cell and get further information about the affected Frame Label and Input Router number to assist in rectifying the problem.
  - There is also an Alert feature, this is only active in conjunction with Auto(Select). When Alert is enabled, all input routers are expected to use Prio1. Any input router in Auto not using Prio1 will generate a Warning and will enabled the Global Status Indicator to show a Warning. The changed Input Priority will also be highlighted as ACTIVE in the Event logs and there are a Warning "Input Prio Dropped" displayed on the affected Module(s).
  - Note: Some of this functionality have been available in the past under "Digswitch".
- "Copy Frame Label" to "Dante Device Name" is now made available as a Global feature under Global Events & Control, this will set all unique Frame Labels as the Dante Device Name.
- Set "DHCP/Auto" or "Auto (Zero Conf)" IP Configuration can now be done globally in the system from the Global Events & Control. Note: Power cycle needed afterwards.
- When a Control Plugin is loaded, the name and number of the currently loaded plugin are shown in the About screen.
- The button to enable/disable the Global Status Indicator (GSI) has been moved from the Icon Control menu to the Global Events & Control, Control tab.

Dante Domain Manager

- The PLM+ and D Series amplifiers are Audinate DDM Ready.
  - For further information, please see Audinate Dante Domain Manager User Guide.
  - Note: FW update and system file recall are not available when enrolled in a Dante Domain. To enable this, have the devices unenrolled and enroll again afterwards.

LakeUpdate

- User triggered Power Cycle is now available in LakeUpdate for PLM+ and D Series. Helpful to remotely perform the needed power cycle after IP Configuration changes.

Lake LoadLibrary 3.18

- Added new speaker presets for L-Acoustics
- For a list of added speaker presets, see separate LoadLibrary release notes.

Lake LoadLibrary 3.17 (previously released stand-alone)

- Added new speaker presets for Tannoy, HK Audio, Adamson and JBL speakers

Lake LoadLibrary 3.16 (previously released stand-alone)

- Added new speaker presets for TW Audio speakers

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Documentation

- Updated Lake Controller Operation Manual.

Resolved issues

Key	Components	Description
		Critical fixes
#6946	PLM+, D Series, MY8-LAKE	Sporadic DSP channel shift issue with the Classic 4way/4aux module (CC7)
#7038	PLM+, D Series	FramePreset recall does not recall the power channel data correct for the 4th DSP channel
		Major fixes
#6951	Control Plugin	First load always creates two instances
#6982, #6952	Control Plugin	If a Plugin dll contains both v2 and v3 interface, in v6.7.2 Alpha 1 it will only load the v2 interface (and not v3 as expected). Reverse the order of load.
#6998	LoadSmart	LoadSmart follow-up verifications after the Global Verification failures are not recorded in the log file
#6987	PresetManager	PresetManager in v6.7.1 cannot send preset bank files to multiple frames at the same time
#6999	EventLog	Write the Event log at intervals instead of only when LC exits gracefully **Note**: It is possible to configure the store interval from the iC.ini file in seconds (0 will disable the background save and only store on program exit as before).
#7004	RPM	When all ISVPL values are locked, the RPM mode display “-“
#6950	RPM	Custom RPM erroneously set by default two times
#7010	LakeUpdate	Empty message box (with only OK) after upgrading firmware if Dante update fails
#6965	LoadLibrary	Tannoy Subwoofers are now set up with appropriate crossover frequencies
#7016	LakeUpdate	Lake Update displays a green check mark although Dante version has not updated correctly
#6758	EventLog, GSI	GSI fault report when there is no Active fault in the system
#6744	EventLog, GSI	Forcing a AES input via the Digswitch option does not give the "No Input" fault, that is visible if triggered from the Input Config menu
		Minor fixes
#7012	RPM	Setting ISVPL while the device is in Standby will not get the correct [actual] ISPVL value in LC when device is turned on, however the correctly value is present in the actual device.
#7073	EventLog, GSI	Clicking the GSI selects the object behind on the scroll bar
#7052	EventLog, GSI	LC not dimming the background when the Global Events and Control is enabled via the GSI

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Patch Release v6.7.1 – Installer 83 (2018-08-24)

Component	Version	New	Comment
Installer	83	X	
Lake Controller	6.7.1.3		Commit #9e49a62
D Series Lake Firmware	Bundle 00.03.32	X	
ARM	679c4996	X	
DSP	fe61babc2		
FPGA	80		
DICO	1.2.20, PSU	X	D80, D120, D200
DSPA	1.2.6		D10, D20, D40
Dante	1.1.4	X	
Safe Image	0.27		
PLM+ Series Firmware	Bundle 00.03.32	X	
ARM	679c4996	X	
DSP	fe61babc2		
FPGA	80		
Front	4.2.11		
DICO	1.2.20, PSU	X	PLM12K44, PLM20K44
DSPA	1.2.6		PLM5K44
Dante	1.1.4	X	
Safe Image	0.27		
D Series Lake Firmware	Bundle 00.02.99	X	
(Dante update) ARM	c5aaf10c		
DSP	fe61babc2		
FPGA	80		
DICO	1.2.12, PSU		D80, D120, D200
DSPA	1.1.6		D10, D20, D40
Dante	1.0.188	X	Compatible with BII Rev. 4
Safe Image	0.27		
PLM+ Series Firmware	Bundle 00.02.99	X	
(Dante update) ARM	c5aaf10c		
DSP	fe61babc2		
FPGA	80		
Front	4.2.11		
DICO	1.2.12, PSU		PLM12K44, PLM20K44
DSPA	1.1.6		PLM5K44
Dante	1.0.188	X	Compatible with BII Rev. 4
Safe Image	0.27		
PLM Series Firmware (and OEM)	Bundle 00.05.01		
ARM	5.01 (7009581d)		
FPGA	41		
Front	1.9.2		
Amp	0.14.5, PSU		
Dante	3.0.1.48		
PLM Safe Mode Image	0.03 (label 99.03)		See separate instructions section
LM Series Firmware	Bundle 00.03.01		Commit #f741996a
ARM	3.01 (f741996a)		
FPGA	1058		
Front	2.2.1		
Dante	3.0.1.48		
LM Safe Mode Image	0.02 (label 99.02)		See separate instructions section
MY8-LAKE Firmware	Bundle 00.03.30		
ARM	7009581d		
DSP	b0d585e		
FPGA	R6041		
Lake Firmware Update Utilities	6.7.1.3		Commit #9e49a62
Preset Manager Utilities			
Preset Manager	6.7.1.3		Commit #9e49a62
LM Series	6.7.1.0		Commit #310fc9ae
Analyzer Integration			
Smaart v7 / Di	1.2 / 1.0		
Live-Capture / AudioClient	1.2		
Third Part applications			

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DAPI Dante Discovery Dante Control & Monitoring	4.1.0.1 1.2.2.3 4.0.2.1		From Audinate (Win7 or later required, otherwise older versions are installed)
Lake LoadLibrary™	3.15	X	See separate release note
Documentation			
Lake Controller Operation Manual	1.6.0		
D Series Operation Manual & QSG	3.0.4		
PLM+ Series Operation Manual & QSG	3.0.4		
PLM Series Operation Manual & QSG	1.3.5		
LM Series Operation Manual & QSG	1.3.5		
MY8-LAKE Owner's Manual	1.0		
Lake Network Conf. Guide	1.1.4		

New features

- Updated PLM+ and D Series FW to ensure Dante compatibility with previous versions of the Lake Controller – see this section for more details

Lake LoadLibrary 3.15

- Added new TW Audio speaker presets
- For a list of added speaker presets, see separate LoadLibrary release notes.

Resolved issues

Key	Components	Description
		Critical fixes
#6860	PLM+ Operations	Unintentional NEEDS SERVICE:4 errors appearing intermittently

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Patch Release v6.7.1 – Installer 82 (2018-05-25)

Component	Version	New	Comment
Installer	82	X	
Lake Controller	6.7.1.3	X	Commit #9e49a62
D Series Lake Firmware	Bundle 00.03.30		
ARM	7009581d		
DSP	fe61babc2		
FPGA	80		
DICO	1.2.18, PSU		D80, D120, D200
DSPA	1.2.6		D10, D20, D40
Dante	1.1.2		
Safe Image	0.27		
PLM+ Series Firmware	Bundle 00.03.30		
ARM	7009581d		
DSP	fe61babc2		
FPGA	80		
Front	4.2.11		
DICO	1.2.18, PSU		PLM12K44, PLM20K44
DSPA	1.2.6		PLM5K44
Dante	1.1.2		
Safe Image	0.27		
PLM Series Firmware (and OEM)	Bundle 00.05.01		
ARM	5.01 (7009581d)		
FPGA	41		
Front	1.9.2		
Amp	0.14.5, PSU		
Dante	3.0.1.48		
PLM Safe Mode Image	0.03 (label 99.03)		See separate instructions section
LM Series Firmware	Bundle 00.03.01		Commit #f741996a
ARM	3.01 (f741996a)		
FPGA	1058		
Front	2.2.1		
Dante	3.0.1.48		
LM Safe Mode Image	0.02 (label 99.02)		See separate instructions section
MY8-LAKE Firmware	Bundle 00.03.30		
ARM	7009581d		
DSP	b0d585e		
FPGA	R6041		
Lake Firmware Update Utilities	6.7.1.3	X	Commit #9e49a62
Preset Manager Utilities			
Preset Manager	6.7.1.3	X	Commit #9e49a62
LM Series	6.7.1.0		Commit #310fc9ae
Analyzer Integration			
Smaart v7 / Di	1.2 / 1.0		
Live-Capture / AudioClient	1.2		
Third Part applications			
DAPI	4.1.0.1		From Audinate (Win7 or later required, otherwise older versions are installed)
Dante Discovery	1.2.2.3		
Dante Control & Monitoring	4.0.2.1		
Lake LoadLibrary™	3.14	X	See separate release note
Documentation			
Lake Controller Operation Manual	1.6.0	X	
D Series Operation Manual & QSG	3.0.4		
PLM+ Series Operation Manual & QSG	3.0.4		
PLM Series Operation Manual & QSG	1.3.5		
LM Series Operation Manual & QSG	1.3.5		
MY8-LAKE Owner's Manual	1.0		
Lake Network Conf. Guide	1.1.4		

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Lake LoadLibrary 3.14

- Added Turbosound NuQ speaker presets
- For a list of added speaker presets, see separate LoadLibrary release notes.

Resolved issues

Key	Components	Description
		Critical fixes
#6926, #6927	Analyzer Integration	SMAART measurement (and FIR) plugin connection issues
		Major fixes
#6930	Documentation	TOC links broken in Lake Controller Operation Manual
#6929	System Store/Recall	LastConfig file name visible after Load Last Config

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Release v6.7.0 – Installer 81 (2018-05-15)

Component	Version	New	Comment
Installer	81	X	
Lake Controller	6.7.0.58	X	Commit #6d11560a
D Series Lake Firmware	Bundle 00.03.30	X	
ARM	7009581d	X	
DSP	fe61babc2		
FPGA	80		
DICO	1.2.18, PSU	X	D80, D120, D200
DSPA	1.2.6	X	D10, D20, D40
Dante	1.1.2	X	
Safe Image	0.27		
PLM+ Series Firmware	Bundle 00.03.30	X	
ARM	7009581d	X	
DSP	fe61babc2		
FPGA	80		
Front	4.2.11		
DICO	1.2.18, PSU	X	PLM12K44, PLM20K44
DSPA	1.2.6	X	PLM5K44
Dante	1.1.2	X	
Safe Image	0.27		
PLM Series Firmware (and OEM)	Bundle 00.05.01	X	
ARM	5.01 (7009581d)	X	
FPGA	41		
Front	1.9.2		
Amp	0.14.5, PSU		
Dante	3.0.1.48		
PLM Safe Mode Image	0.03 (label 99.03)		See separate instructions section
LM Series Firmware	Bundle 00.03.01	X	Commit #f741996a
ARM	3.01 (f741996a)	X	
FPGA	1058		
Front	2.2.1		
Dante	3.0.1.48		
LM Safe Mode Image	0.02 (label 99.02)		See separate instructions section
MY8-LAKE Firmware	Bundle 00.03.30	X	
ARM	7009581d	X	
DSP	b0d585e		
FPGA	R6041		
Lake Firmware Update Utilities	6.7.0.58	X	Commit #6d11560a
Preset Manager Utilities			
Preset Manager	6.7.0.58	X	Commit #6d11560a
LM Series	6.7.0.19	X	Commit #f741996a
Analyzer Integration			
Smaart v7 / Di	1.2 / 1.0		
Live-Capture / AudioClient	1.2		
Third Part applications			
DAPI	4.1.0.1	X	From Audinate (Win7 or later required, otherwise older versions are installed)
Dante Discovery	1.2.2.3	X	
Dante Control & Monitoring	4.0.2.1	X	
Lake LoadLibrary™	3.13	X	See separate release note
Documentation			
Lake Controller Operation Manual	1.6.0	X	
D Series Operation Manual & QSG	3.0.4	X	
PLM+ Series Operation Manual & QSG	3.0.4	X	
PLM Series Operation Manual & QSG	1.3.5		
LM Series Operation Manual & QSG	1.3.5		
MY8-LAKE Owner's Manual	1.0		
Lake Network Conf. Guide	1.1.4		

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New features

Lake Controller

- AES67 support (also see the AES67 Quick Start Guide in the FAQ and Technical notes section)
    - The PLM+ and D Series amplifiers now support AES67 audio flows. AES67 mode can be enabled from within Lake Controller “Dante and AES67 Configuration” view (formally known as Dante Configuration) device tab, Global Control or Dante Controller.
        - When the AES67 mode (enable / disabled) is toggled in LC, the device will go Offline for a few seconds as the Dante module (Audinate BII) is automatically power cycled. The device will automatically come back online again.
        - When changed in Dante Controller the device needs to be manually Power cycled.
    - Global AES67 mode control is available from the Global Control menu (All tab -> Global Events & Control -> Control)
        - Here it is possible to Enable or Disable AES67 mode for all supported devices on Work area
        - Will also display the current AES67 mode for all devices on Work area
    - When AES67 mode is enabled, there is a general limitation:
        - 48 kHz only (for both Dante and AES67)
        - The AES67 audio flow also have the following restrictions:
            - Multicast only
            - 2 ms receive latency
            - Up to 8 channels per transmission flow
            - If Dual Redundancy is enabled, AES67 audio must be on the Primary network
    - When AES67 is enabled, it is possible to route AES67 flows to the Dante Receivers of the PLM+ and D Series amplifiers from the Dante Controller.
        - For AES67 compatibility, please use Dante Controller 3.10.0.19 or later.
        - The routing done in Dante Controller is directly available to see in Lake Controller
        - AES67 subscriptions can be removed from the Dante Receivers in Lake Controller (but new subscriptions must be configured in Dante Controller)
    - AES67 enabled/disabled, AES67 Subscriptions and Transmit flows are all handled as Frame Data, just as the other Input and Output routing data parameters (see Figure 20-1 in Lake Controller Operation Manual for further details about this). This makes the AES67 mode and Subscriptions/Transmits follow with System file Recall, Frame Replace and Frame Preset.
        - *Example*: If a device is included in a System file have AES67 mode enabled and two AES67 subscriptions in the Dante Receivers, and the device is online on the network with AES67 disabled, recalling that System file will change the AES67 mode to enable in the online device and setup the two subscriptions.
        - AES67 enabled will be disabled by both Soft and Factory reset.
        - Default state is AES67 disabled
    - It is possible for a PLM+ and D Series amplifier to act as a bridge between AES67 and Dante (or vice versa). With Dante Enabled, AES67 Enabled and Transmit Outputs enabled - the Dante Receivers are possible to transmit out on Dante again.
        - From the Dante Controller it is possible to create a AES67 transmit flow
        - Any AES67 transmit flow setup in Dante will be displayed in the Transmit tab of Dante and AES67 Configuration view. The AES67 transmit flows are identified with the Multicast flow number, also seen in Dante Controller.
- A detailed LoadSmart result is shown in the Event Log to simplify evaluation of a large system.
- LoadSmart is now disabled if all of the modules for a frame are in the #Unused or #Spares pages
- A New keyboard shortcut to the Global Control tab, CTRL+F9.
- Clicking the Global Status Indicator now opens the Global Event Log.
- The About screen now lists all currently active plugins

Lake LoadLibrary 3.13

- Improved Adamson SPB speaker presets
- For a list of added speaker presets, see separate LoadLibrary release notes.

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Documentation

- Added new manuals for D Series, PLM+ and Lake Controller
- Added Architects' and Engineers' Specifications for D Series and PLM+
- New Quick Start Guide and Field Reference documents for D Series and PLM+
- New Technical Data Sheets for D Series and PLM+

Resolved issues

Key	Components	Description
		Major fixes
#6906, #6908, #6916, #6745	Firmware Update	Improved stability in LakeUpdate when updating large systems
#6907	BLEQ	Better BLEQ integrity check
#6887	LoadSmart	Global LoadSmart verification times out if one of the devices is in standby
#6821	Event Log, LoadSmart	A LoadSmart verification goes into the Event log as a "Warning" and not a "User Action"
#6822	Event Log, LoadSmart	The "Load Not Verified" Warning that was removed in v6.3 is still present in the Event log
#6794	PLM+ and D Series	Reduced risk of the persistence loss for D Series and PLM+ reported in a few cases

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Patch Release v6.6.1 – Installer 78 (2017-12-04)

Component	Version	New	Comment
Installer	78	X	
Lake Controller	v6.6.1.4	X	Commit #a12ae1e
D Series Lake Firmware	Bundle 00.03.16	X	
ARM	a12ae1e fe61babc2	X	
DSP	80		
FPGA	1.2.16, PSU		
DICO	1.2.4		D80, D120, D200
DSPA	1.0.188		D10, D20, D40
Dante	0.27		
Safe Image			
PLM+ Series Firmware	Bundle 00.03.16	X	
ARM	a12ae1e fe61babc2	X	
DSP	80		
FPGA	4.2.11		
Front	1.2.16, PSU		
DICO	1.2.4		PLM12K44, PLM20K44
DSPA	1.0.188		PLM5K44
Dante	0.27		
Safe Image			
PLM Series Firmware (and OEM)	Bundle 00.04.93	X	
ARM	4.93 (a12ae1e)	X	
FPGA	41		
Front	1.9.2		
Amp	0.14.5, PSU		
Dante	3.0.1.48		
PLM Safe Mode Image	0.03 (label 99.03)		See separate instructions section
LM Series Firmware	Bundle 00.02.93	X	Commit #322bef5
ARM	2.93 (322bef5)	X	
FPGA	1058		
Front	2.2.1		
Dante	3.0.1.48		
LM Safe Mode Image	0.02 (label 99.02)		See separate instructions section
MY8-LAKE Firmware	Bundle 00.03.16	X	
ARM	a12ae1e	X	
DSP	b0d585e		
FPGA	R6041		
Lake Firmware Update Utilities	6.6.1.4	X	Commit #a12ae1e
Preset Manager Utilities			
Preset Manager	6.6.1.4	X	Commit #a12ae1e
LM Series	6.6.1.9	X	Commit #322bef5
Analyzer Integration			
Smaart v7 / Di	1.2 / 1.0		
Live-Capture / AudioClient	1.2		
Third Part applications			
DAPI	3.10.0		From Audinate (Win7 or later required, otherwise older versions are installed)
Dante Discovery	1.2.1.1		
Dante Control & Monitoring	1.10.4.1		
Lake LoadLibrary™	3.12		See separate release note
Documentation operation			
Lake Controller Operation Manual	1.5.9		
D Series Operation Manual	3.0.1		
D Series Quick Start Guide	3.0.3		
PLM+ Series Operation Manual	3.0.1		
PLM+ Series Quick Start Guide	3.0.1		
PLM Series Operation Manual & QSG	1.3.5		
LM Series Operation Manual & QSG	1.3.5		
MY8-LAKE Owner's Manual	1.0		
Lake Network Conf. Guide	1.1.4		

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Resolved issues

Key	Components	Description
		Major fixes
#472 (FROD)	PLM+ and D Series	CAFÉ Project file recall can cause LC to go Out Of Sync
#505 (FROD)	PLM+ and D Series	With CAFE online, devices do not go OOS in LC as expected

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Release v6.6.0 – Installer 77 (2017-11-07)

Component	Version	New	Comment
Installer	77	X	
Lake Controller	v6.6.0.95	X	Commit #9099503
D Series Lake Firmware	Bundle 00.03.14	X	
ARM	c759c6f fe61babc2	X	
DSP	80		
FPGA	1.2.16, PSU		
DICO	1.2.4	X	D80, D120, D200
DSPA	1.0.188	X	D10, D20, D40
Dante	0.27		
Safe Image			
PLM+ Series Firmware	Bundle 00.03.14	X	
ARM	c759c6f fe61babc2	X	
DSP	80		
FPGA	4.2.11		
Front	1.2.16, PSU	X	
DICO	1.2.4	X	PLM12K44, PLM20K44
DSPA	1.0.188	X	PLM5K44
Dante	0.27		
Safe Image			
PLM Series Firmware (and OEM)	Bundle 00.04.92	X	
ARM	4.92 (9a8dcb4)	X	
FPGA	41		
Front	1.9.2		
Amp	0.14.5, PSU		
Dante	3.0.1.48		
PLM Safe Mode Image	0.03 (label 99.03)		See separate instructions section
LM Series Firmware	Bundle 00.02.92	X	Commit #03a0227
ARM	2.92 (03a0227)	X	
FPGA	1058		
Front	2.2.1		
Dante	3.0.1.48		
LM Safe Mode Image	0.02 (label 99.02)		See separate instructions section
MY8-LAKE Firmware	Bundle 00.03.14	X	
ARM	c759c6f	X	
DSP	b0d585e		
FPGA	R6041		
Lake Firmware Update Utilities	6.6.0.95	X	Commit #9099503
Preset Manager Utilities			
Preset Manager	6.6.0.95	X	Commit #9099503
LM Series	6.6.0.14	X	Commit #22d48a2
Analyzer Integration			
Smaart v7 / Di	1.2 / 1.0		
Live-Capture / AudioClient	1.2		
Third Part applications			
DAPI	3.10.0		From Audinate (Win7 or later required, otherwise older versions are installed)
Dante Discovery	1.2.1.1		
Dante Control & Monitoring	1.10.4.1		
Lake LoadLibrary™	3.12	X	See separate release note
Documentation operation			
Lake Controller Operation Manual	1.5.9	X	
D Series Operation Manual	3.0.1	X	
D Series Quick Start Guide	3.0.3	X	
PLM+ Series Operation Manual	3.0.1	X	
PLM+ Series Quick Start Guide	3.0.1	X	
PLM Series Operation Manual & QSG	1.3.5		
LM Series Operation Manual & QSG	1.3.5		
MY8-LAKE Owner's Manual	1.0		
Lake Network Conf. Guide	1.1.4		

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New features

Lake Controller

- Support for the new PLM+ model, PLM 5K44.
- New VHF protection scheme for PLM 12K44, PLM 20K44, D200, D120 and D80
  - A VHF Warning doing Gain Reduction is added before the actual VHF Fault that mutes. See Operation Manual for further details.
- CAFÉ 1.4 integration
  - An ESP CAFÉ Power channel label has been added.
    - If set, this is visible in the output routing screen in LC and Status view in Events & Control. The idea is that in the Output router Configuration, following a Lake SpeakerPreset recall, this will assist in routing the Power Outputs (with the CustomRPM settings) from the expected Speaker Preset Module output.
    - This label is automatically generated via ESP in CAFÉ.
  - Opening CAFÉ from the Lake Controller will not open a certain device
- It is now possible to override the default directory if EQ Overlay Store/Recall menu.
  - It will behave like the Module- and System Store/Recall.
  - This is done in the iC.ini file located in the Config folder of Documents, as OVERRIDE_OVERLAYPATH.
- LoadSmart "No. of cabinets in parallel" is now retained on a module recall
- Lake Controller and FW version added to log file
- The sorting is now the same for online and virtual frames

Lake LoadLibrary 3.12

- For a list of added speaker presets, see separate LoadLibrary release notes.

Documentation

- Added new manuals for D Series and PLM+
- Added Architects' and Engineers' Specifications for D Series
- Added Current Draw and Thermal Dissipation for D Series Slimline
- New Quick Start Guide and Field Reference documents for D Series and PLM+

Resolved issues

Key	Components	Description
		Major fixes
#6710	Designer Mode	Not possible to change BW of a Output EQ filter from Designer worksheets view
#6715/ 6784	PLM+ and D Series	System recall fail due to incorrect APD settings in System file.
#6743	Faults & Warnings, Dante	With a Forced input on Dante with no clock does not generate "No Input"
#6317	D Series Slimline	The impedance logged in the log file from LoadPilot is incorrect for Slimline devices
#6734	Groups, Module Menu	Module Group assignment lost when "Keep Group Assignment" is enabled when doing a Base Config file recall
#6808	PLM+ Series Front	PlatformMaxOutVoltage not correct in Front panel
#6728	Crashes	LC crash on Windows 10 when filter added on PEQ
#6737	Synchronization	Checksum sync after Use Data On Computer have been used to confirm that everything is correct.
#6706	Dante	"Dante Disabled" error message has been replaced with; "Dante Module is not responding" and "Dante Module is starting up"
		Minor fixes
#6742	Module Menu	LoadLibrary pictures are drawn over the frame border

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Patch Release v6.5.1 – Installer 75 (2017-06-27)

Component	Version	New	Comment
Installer	75	X	
Lake Controller	v6.5.1.140		Commit #e447ae3
D Series Lake Firmware	Bundle 00.02.99	X	
ARM	c5aaf10c	X	
DSP	fe61babc2		
FPGA	80		
DICO	1.2.12, PSU	X	D80, D120, D200
DSPA	1.1.6		D10, D20, D40
Dante	1.0.188		
Safe Image	0.27	X	
PLM+ Series Firmware	Bundle 00.02.99	X	
ARM	c5aaf10c	X	
DSP	fe61babc2		
FPGA	80		
Front	4.2.10	X	
DICO	1.2.12, PSU	X	PLM12K44, PLM20K44
DSPA	1.1.6		
Dante	1.0.188		
Safe Image	0.27	X	
PLM Series Firmware (and OEM)	Bundle 00.04.84		
ARM	4.84 (e447ae3)		
FPGA	41		
Front	1.9.2		
Amp	0.14.5, PSU		
Dante	3.0.1.48		
PLM Safe Mode Image	0.03 (label 99.03)		See separate instructions section
LM Series Firmware	Bundle 00.02.83		Commit #4292b33
ARM	2.83 (4292b33)		
FPGA	1058		
Front	2.2.1		
Dante	3.0.1.48		
LM Safe Mode Image	0.02 (label 99.02)		See separate instructions section
MY8-LAKE Firmware	Bundle 00.02.93		
ARM	e447ae3		
DSP	b0d585e		
FPGA	R6041		
Lake Firmware Update Utilities	6.5.1.140		Commit #e447ae3
Preset Manager Utilities			
Preset Manager	6.5.1.140		Commit #e447ae3
LM Series	6.5.1.16		Commit #4292b33
Analyzer Integration			
Smaart v7 / Di	1.2 / 1.0		
Live-Capture / AudioClient	1.2		
Third Part applications			
DAPI	3.10.0		From Audinate (Win7 or later required, otherwise older versions are installed)
Dante Discovery	1.2.1.1		
Dante Control & Monitoring	1.10.4.1		
Lake LoadLibrary™	3.10		See separate release note
Documentation operation			
Lake Controller Operation Manual	1.5.8		
D Series Operation Manual	1.1.0		
D Series Quick Start Guide	3.0.0		
PLM+ Series Operation Manual	1.0.0		
PLM+ Series Quick Start Guide	2.1.0		
PLM Series Operation Manual	1.3.5		
PLM Series Quick Start Guide	1.3.5		
LM Series Operation Manual	1.3.5		
LM Series Quick Start Guide	1.3.5		
MY8-LAKE Owner's Manual	1.0		
Lake Network Conf. Guide	1.1.4		

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New features

PLM+ Series FW

- It is now possible to set a new factory default value for the front panel contrast

Resolved issues

Key	Components	Description
		Critical fixes
#6714	PLM+ and D Series	Flash issue causing device to be unable to power on from Standby.. IMPORTANT: Have the amplifier ON or turn the amplifier ON after the firmware update so all internal components will be updated.
#6631/ #6592/ #6574	PLM+ and D Series	PLM+ and D Series devices spontaneously going into “Need Service:4” or “DICO COMM FAULT” without any obvious reason. After Power cycle the device boots up correctly

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Patch Release v6.5.1 – Installer 74 (2016-12-15)

Component	Version	New	Comment
Installer	74	X	
Lake Controller	v6.5.1.140	X	Commit #e447ae3
D Series Lake Firmware	Bundle 00.02.93	X	
ARM	e447ae3	X	
DSP	fe61babc2		
FPGA	80		
DICO	1.2.6, PSU	X	D80, D120, D200
DSPA	1.1.6	X	D10, D20, D40
Dante	1.0.188		
PLM+ Series Firmware	Bundle 00.02.93	X	
ARM	e447ae3	X	
DSP	fe61babc2		
FPGA	80		
Front	4.2.9	X	
DICO	1.2.6, PSU	X	PLM12K44, PLM20K44
DSPA	1.1.6	X	
Dante	1.0.188		
PLM Series Firmware (and OEM)	Bundle 00.04.84	X	
ARM	4.84 (e447ae3)	X	
FPGA	41		
Front	1.9.2		
Amp	0.14.5, PSU		
Dante	3.0.1.48		
PLM Safe Mode Image	0.03 (label 99.03)		See separate instructions section
LM Series Firmware	Bundle 00.02.83	X	Commit #4292b33
ARM	2.83 (4292b33)	X	
FPGA	1058		
Front	2.2.1		
Dante	3.0.1.48		
LM Safe Mode Image	0.02 (label 99.02)		See separate instructions section
MY8-LAKE Firmware	Bundle 00.02.93	X	
ARM	e447ae3	X	
DSP	b0d585e	X	
FPGA	R6041		
Lake Firmware Update Utilities	6.5.1.140	X	Commit #e447ae3
Preset Manager Utilities			
Preset Manager	6.5.1.140	X	Commit #e447ae3
LM Series	6.5.1.16	X	Commit #4292b33
Analyzer Integration			
Smaart v7 / Di	1.2 / 1.0		
Live-Capture / AudioClient	1.2		
Third Part applications			
DAPI	3.10.0		From Audinate (Win7 or later required, otherwise older versions are installed)
Dante Discovery	1.2.1.1		
Dante Control & Monitoring	1.10.4.1		
Lake LoadLibrary™	3.10		See separate release note
Documentation operation			
Lake Controller Operation Manual	1.5.8		
D Series Operation Manual	1.1.0		
D Series Quick Start Guide	3.0.0		
PLM+ Series Operation Manual	1.0.0		
PLM+ Series Quick Start Guide	2.1.0		
PLM Series Operation Manual	1.3.5		
PLM Series Quick Start Guide	1.3.5		
LM Series Operation Manual	1.3.5		
LM Series Quick Start Guide	1.3.5		
MY8-LAKE Owner's Manual	1.0		
Lake Network Conf. Guide	1.1.4		

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New features

Lake Controller

- Support for D Series Slimline; D 40:4L
- PAL warning indication added for D Series Slimline. This is indicated when trying to draw more power than the PSU can deliver
- Improved speed on “Keep Groups Assigned” when doing module recall.

Resolved issues

Key	Components	Description
		Critical fixes
#6409/ #6532/ #6623	LC, System Store/Recall	System recall gives an unexpected Vendor Locked error if not A or B module is on workarea but C and/or D module is. Note: The fix is for how the System file is stored. So any already corrupt system file(s) cannot be fixed. But this fix will prevent any future issues due to this.
#6652	Multiple Controller	Altering eq in a Group on the Secondary Controller will make the Primary and Secondary need to re-sync
#3636	LM Firmware	LM Over temperature fault is sticky and does not go away once it happened even if the temperature is dropped
#6661	MY8-LAKE	Fixed MY8-LAKE issue where channels sometimes have shifter output
#6658	Groups	Group Overlays keep "Hidden Content" from previous systems
		Major fixes
#6577	BLEQ, System Store/Recall	Group Overlays are not completely deleted as expected between different System sessions in LC
#6694	Large System Performance, Synchronization	SlowSync in some cases after a System recall with the FIR module

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Release v6.5.0 – Installer 72 (2016-11-03)

Component	Version	New in v6.5.0	Comment
Installer	72	X	
Lake Controller	v6.5.0.1108	X	Commit #af15889
D Series Lake Firmware	Bundle 00.02.86	X	
ARM	700dba7	X	
DSP	fe61babc2	X	
FPGA	80		
DICO	1.2.4, PSU	X	D80, D120, D200
DSPA	1.0.6	X	D10, D20
Dante	1.0.188		
PLM+ Series Firmware	Bundle 00.02.86	X	
ARM	700dba7	X	
DSP	05204f7fe	X	
FPGA	80		
Front	4.2.8	X	
DICO	1.2.4, PSU	X	PLM12K44, PLM20K44
DSPA	1.0.6	X	
Dante	1.0.188		
PLM Series Firmware (and OEM)	Bundle 00.04.81	X	
ARM	4.81 (23b0943)	X	
FPGA	41		
Front	1.9.2	X	
Amp	0.14.5, PSU		
Dante	3.0.1.48		
PLM Safe Mode Image	0.03 (label 99.03)		See separate instructions section
LM Series Firmware	Bundle 00.02.81	X	Commit #3358ccb8
ARM	2.81 (684e7cf)	X	
FPGA	1058		
Front	2.2.1	X	
Dante	3.0.1.48		
LM Safe Mode Image	0.02 (label 99.02)		See separate instructions section
MY8-LAKE Firmware	Bundle 00.02.86	X	
ARM	700dba7	X	
DSP	R11813		
FPGA	R6041		
Lake Firmware Update Utilities	6.5.0.1108	X	Commit #af15889
Preset Manager Utilities			
Preset Manager	6.5.0.1108	X	Commit #af15889
LM Series	6.5.0.21	X	Commit #684e7cf
Analyzer Integration			
Smaart v7 / Di	1.2 / 1.0		
Live-Capture / AudioClient	1.2		
Third Part applications			
DAPI	3.10.0	X	From Audinate (Win7 or later required, otherwise older versions are installed)
Dante Discovery	1.2.1.1	X	
Dante Control & Monitoring	1.10.4.1	X	
Lake LoadLibrary™	3.10	X	See separate release note
Documentation operation			
Lake Controller Operation Manual	1.5.8	X	
D Series Operation Manual	1.1.0		
D Series Quick Start Guide	3.0.0	X	
PLM+ Series Operation Manual	1.0.0		
PLM+ Series Quick Start Guide	2.1.0		
PLM Series Operation Manual	1.3.5		
PLM Series Quick Start Guide	1.3.5		
LM Series Operation Manual	1.3.5		
LM Series Quick Start Guide	1.3.5		
MY8-LAKE Owner's Manual	1.0		
Lake Network Conf. Guide	1.1.4		

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New features

Lake Controller

- Support for D Series Slimline; D 10:4L and D 20:4L
- Improved BEL Configuration view offering better support for D Series Slimline
    - For PLM+ and D Series the Nominal current range is now 1-32 A, and the device will automatically limit to the model min/max.
- "Module Output Mixing" allows the user to route/mix the audio from several module outputs into a single Power channel on PLM+ or D Series frames
- "Keep Group Assignment" on Module recall removing the need to re-assign all Groups to the module after Module recall
- "Auto Power Down" allows the user to automatically set the PLM+ or D Series frame in standby after a certain time if the following prerequisites are met:
    - Audio is not playing
    - The frame is not selected or edited in the Lake Controller during the APD timeout
    - The front panel buttons has not been touched during the APD timeout
- Automatic Power Cycle when upgrading PLM+ or D Series FW (when updating from 2.86 and later)
- New Power Control tab in Amplifier Events & Control
- Control tab changed to Output in in Amplifier Events & Control

Lake LoadLibrary 3.10

- For a list of added speaker presets, see separate LoadLibrary release notes.

Resolved issues

Key	Components	Description
		Critical fixes
#6583	Overlay Store / Recall	Recall as new Overlay from file on Groups does not apply the EQ
#6563	Module Menu	Corrupt 2Aux/2Way/1Aux module when loading a 4Aux/4Way or 5Aux/5Way module file
#6624	D Series Lake Front	The Load LED on a D Series front panel does not indicate wrong load after a load verification
#6565	D Series Lake	A D Series amp must be power cycled after factory reset
#6595	System Store/Recall	System files only containing virtual frames created via sub-system recall might not load all virtual frames on System recall
#6576	Extended capabilities	Extended capabilities file(s) loaded correctly when LC is started via the Start menu
#6647	Synchronization, Groups	Lake Controller stop to synchronize frames when Group changes should cause Out Of Sync
#6589	LoadLibrary	Removed faulty JBL VTX speaker presets from Lake LoadLibrary
		Major fixes
#6238, #6354	Dante, Synchronization	System going OOS due to DanteDeviceName but nothing is OOS
#6645, #6617	I/O Config	Display calculated average value for Mains Voltage and Current
#6566	Lake Controller	Improved the error message shown when applications using the same ports as Lake Controller are used simultaneously
#6656	Firmware Update	Improved message in LakeUpdate when updating PLM+/D Series frames
		Minor fixes
#6614	I/O Config	Missing AES Termination text for PLM+ / D Series virtual files

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Patch Release v6.4.5 – Installer 70 (2016-08-25)

Component	Version	New	Comment
Installer	70	X	
Lake Controller	v6.4.5.4	X	Commit #56761d19
D Series Lake Firmware	Bundle 00.02.55		
ARM	bbd10b96		
DSP	05204f7fe		
FPGA	80		
Amp	1.1.6, PSU		
Dante	1.0.188		
PLM+ Series Firmware	Bundle 00.02.55		
ARM	bbd10b96		
DSP	05204f7fe		
FPGA	80		
Front	4.2.6		
Amp	1.1.6, PSU		
Dante	1.0.188		
PLM Series Firmware (and OEM)	Bundle 00.04.61	X	
ARM	4.61 (56761d19)	X	
FPGA	41		
Front	1.9.1		
Amp	0.14.5, PSU		
Dante	3.0.1.48		
PLM Safe Mode Image	0.03 (label 99.03)		See separate instructions section
LM Series Firmware	Bundle 00.02.55		Commit #3358ccb8
ARM	2.55 (cc3093f8)		
FPGA	1058		
Front	2.2.0		
Dante	3.0.1.48		
LM Safe Mode Image	0.02 (label 99.02)		See separate instructions section
MY8-LAKE Firmware	Bundle 00.02.55		
ARM	523a8e29		
DSP	R11813		
FPGA	R6041		
Lake Firmware Update Utilities	6.4.5.4	X	Commit #56761d19
Preset Manager Utilities			
Preset Manager	3.0.17.0	X	Commit #56761d19
LM Series	2.0.16.0		Commit #3358ccb8
Analyzer Integration			
Smaart v7	1.2		
Smaart v7 Di	1.0		
Live-Capture / AudioClient	1.2		
Third Part applications			
DAPI	3.1.8.5		From Audinate (Win7 or later required, otherwise older versions are installed)
Dante Discovery	1.1.1.1		
Dante Control & Monitoring	1.8.2.1		
Lake LoadLibrary™	3.9		See separate release note
Documentation operation			
Lake Controller Operation Manual	1.5.6		
D Series Operation Manual	1.1.0	X	
D Series Quick Start Guide	2.2.0	X	
PLM+ Series Operation Manual	1.0.0		
PLM+ Series Quick Start Guide	2.1.0	X	
PLM Series Operation Manual	1.3.5		
PLM Series Quick Start Guide	1.3.5		
LM Series Operation Manual	1.3.5		
LM Series Quick Start Guide	1.3.5		
MY8-LAKE Owner's Manual	1.0		
Lake Network Conf. Guide	1.1.4		

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New features

Lake Controller

- Important bug fixes, see list of resolved issues.

Documentation

- Added new manuals for D Series and PLM+

Resolved issues

Key	Components	Description
		Critical fixes
#6547	Multiple Controller	Communication issue when connecting Secondary Controller if BLEQ is used.
#6545	Multiple Controller, BLEQ	Group BLEQ overlays are converted to PEQ overlays when starting Secondary Controller
#6555	PLM	PLM does not boot after been upgraded with Amp firmware 0.14.5 included in firmware bundle 4.60

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Patch Release v6.4.4 – Installer 68 (2016-06-28)

Component	Version	New	Comment
Installer	68	X	
Lake Controller	v6.4.4.55	X	Commit #433af487
D Series Lake Firmware	Bundle 00.02.55	X	
ARM	bbd10b96	X	
DSP	05204f7fe	X	
FPGA	80		
Amp	1.1.6, PSU		
Dante	1.0.188		
PLM+ Series Firmware	Bundle 00.02.55	X	
ARM	bbd10b96	X	
DSP	05204f7fe	X	
FPGA	80		
Front	4.2.6		
Amp	1.1.6, PSU		
Dante	1.0.188		
PLM Series Firmware (and OEM)	Bundle 00.04.60	X	
ARM	4730db58	X	
FPGA	41		
Front	1.9.1		
Amp	0.14.5, PSU		
Dante	3.0.1.48		
PLM Safe Mode Image	0.03 (label 99.03)		See separate instructions section
LM Series Firmware	Bundle 00.02.55	X	Commit #3358ccb8
ARM	cc3093f8	X	
FPGA	1058		
Front	2.2.0		
Dante	3.0.1.48		
LM Safe Mode Image	0.02 (label 99.02)		See separate instructions section
MY8-LAKE Firmware	Bundle 00.02.55	X	
ARM	523a8e29	X	
DSP	R11813		
FPGA	R6041		
Lake Firmware Update Utilities	6.4.4.55		Commit #433af487
Preset Manager Utilities			
Preset Manager	3.0.16.0	X	Commit #433af487
LM Series	2.0.16.0	X	Commit #3358ccb8
Analyzer Integration			
Smaart v7	1.2		
Smaart v7 Di	1.0		
Live-Capture / AudioClient	1.2		
Third Part applications			
DAPI	3.1.8.5		From Audinate (Win7 or later required, otherwise older versions are installed)
Dante Discovery	1.1.1.1		
Dante Control & Monitoring	1.8.2.1		
Lake LoadLibrary™	3.9	X	See separate release note
Documentation operation			
Lake Controller Operation Manual	1.5.6		
D Series Operation Manual	N/A		Will be available on website
D Series Quick Start Guide	1.0.2		
PLM+ Series Operation Manual	1.0.0		
PLM+ Series Quick Start Guide	1.0.0		
PLM Series Operation Manual	1.3.5		
PLM Series Quick Start Guide	1.3.5		
LM Series Operation Manual	1.3.5		
LM Series Quick Start Guide	1.3.5		
MY8-LAKE Owner's Manual	1.0		
Lake Network Conf. Guide	1.1.4		

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New features

Lake LoadLibrary 3.9

- For a list of added speaker presets, see separate LoadLibrary release notes.

Resolved issues

Key	Components	Description
		Critical fixes
#6350	PLM+ Series front	PLM+ front panel not leaving Initializing screen
#6472	Module Menu	EAW KF Greyboxes are no longer recallable in LC
#6486	BLEQ, EQ/Levels, Groups	Corrupt group EQ when two frames have different settings in a group with the same Id
#6473	BLEQ, Groups	Filter edit on BLEQ on groups disables bypass
#6410	Audio response	FIR module MID band muted unintentionally
#6463	Audio response, Clocking, Dante	PLM/LM with no Dante Master clock on the network remains in Passive state
		Minor fixes
#6503	BLEQ	BLEQ in Screen Capture mode shows duplicate f/bw boxes

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Patch Release v6.4.3 – Installer 66 (2016-02-23)

Component	Version	New	Comment
Installer	66	X	
Lake Controller	v6.4.3.12102	X	
D Series Lake Firmware	Bundle 00.02.54	X	
ARM	12095	X	
DSP	11944	X	
FPGA	80		
Amp	1.1.6, PSU	X	
Dante	1.0.188		
PLM+ Series Firmware	Bundle 00.02.54	X	
ARM	12095	X	
DSP	11944	X	
FPGA	80		
Front	4.2.6	X	
Amp	1.1.6, PSU	X	
Dante	1.0.188		
PLM Series Firmware (and OEM)	Bundle 00.04.58	X	
DSP	4.58	X	
FPGA	41		
Front	1.9.1		
Amp	0.14.5, PSU		
Dante	3.0.1.48		
PLM Safe Mode Image	0.03 (label 99.03)		See separate instructions section
LM Series Firmware	Bundle 00.02.53	X	
DSP	2.53	X	
FPGA	1058		
Front	2.2.0		
Dante	3.0.1.48		
LM Safe Mode Image	0.02 (label 99.02)		See separate instructions section
MY8-LAKE Firmware	Bundle 00.02.54	X	
ARM	12090	X	
DSP	R11813		
FPGA	R6041		
Lake Firmware Update Utilities	3.2.7.11919		
Preset Manager Utilities			
Preset Manager	3.0.14.0	X	
LM Series	2.0.14.0	X	
Analyzer Integration			
Smaart v7	1.2		
Smaart v7 Di	1.0		
Live-Capture / AudioClient	1.2		
Third Part applications			
DAPI	3.1.8.5		From Audinate (Win7 or later required, otherwise older versions are installed)
Dante Discovery	1.1.1.1		
Dante Control & Monitoring	1.8.2.1		
Lake LoadLibrary™	3.8	X	See separate release note
Documentation operation			
Lake Controller Operation Manual	1.5.6		
D Series Operation Manual	N/A		Will be available on website
D Series Quick Start Guide	1.0.2		
PLM+ Series Operation Manual	1.0.0		
PLM+ Series Quick Start Guide	1.0.0		
PLM Series Operation Manual	1.3.5		
PLM Series Quick Start Guide	1.3.5		
LM Series Operation Manual	1.3.5		
LM Series Quick Start Guide	1.3.5		
MY8-LAKE Owner's Manual	1.0		
Lake Network Conf. Guide	1.1.4		

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New features

Lake Controller

- A new page called *#Unused* prevents the modules from appearing on the All Page
  - When frame replacing a PLM 20000Q to a PLM+/D-Series frame, the unused modules C & D can be moved here automatically and settings changed to also disable any warning on the front panel. This behavior is a user setting in the Copy/Paste/Replace menu.
  - Manually moving a module to an *#Unused* page will prevent the All Page visibility but will not change any settings in the module.
  - If one *#Unused* page gets full, a second page will be generated automatically.
- When a PLM+/D-Series frame in Slave Only mode is on a Dante network and is in Listening mode (i.e. there is no Dante Master on the network), the previous Clock Slipping warning is defeated. The frame is in this situation clocked internally by the Brooklyn with full audio integrity retained for any analog fail over audio, therefore there is no need for the warning.
- The All Page is now sorted alphabetically by frame label (the frame label is by default the model name, i.e. PLM12K44).
- LM and PLM Image0 is added back in the installer package, due to public demand.
- A Dante Dual Redundancy change will now prompt for power cycle in all frame front panels.
- Previously an “Uncertain Load” warning was issued for LoadPilot readings with large variations. This is now removed to allow variations within the thresholds for such loads. Advanced mode configuration is recommended for such loads.

Lake LoadLibrary 3.8

- For a list of added speaker presets, see separate LoadLibrary release notes.

Resolved issues

Key	Components	Description
		Critical fixes
#6400	Load Smart, Module Menu	A FIR module with unused channel and fingerprint is not recalled correctly into PLM and PLM+C/D
#6381	EQ/Levels	PEQ and Input frequency and bandwidth limits should correspond better to actual audio
#6365	EQ/Levels	LC Crash when filter edit used
#6334	Dante, System Store/Recall	Dante Latency 0.25 and 0.5ms is not correctly stored
#6333	Module Menu	FIR module worksheets do not work
#6327	EQ/Levels	Not possible to configure filters correctly in the Output EQ section
#6313	Faults & Warnings	No Input Fault when using FIR module
		Major fixes
#6395	PLM Specific Operations, PLM+ Operations	More BroadcastPLMStatusData packets sent from PLM+ compared to PLM20kQ
#6382	Pages	After frame replace 20kQ->PLM+, modules C and D are not visible in the All page
#6377	Dante	PLM+ erroneously reporting Redundant Dante after Frame Replace
#6414	Dante, PLM+ Series Front	Dual redundancy indicator erroneously removed in PLM+ front panel after soft reset
#6373	Supermodules	Super modules cannot scroll, i.e. show more than 7 power channels
#6352	LoadLibrary	L-Acoustics 12XT-A speaker preset has +12 dB on module outputs
#6292	Faults & Warnings	Old Firmware warning on frame with too new firmware
#6158	Module Menu, Synchronization	Group de-assigment on module A/B when recall to module C
#6331	Installer	No Desktop shortcut is created by the Lake installer
#6268	BLEQ	Possible to press the current overlay type button twice
#6307	Command Line Options	The "reportversions" command line option reports the version for all modules in a system
#6321, #6318, #6317	Event log, Load Monitor 2.0	Improvements in PLM+/D-Series log file columns regarding LoadPilot

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#6160	Dante	Automatically replace any Dante-invalid characters in the frame name with a hyphen when the Copy Frame Label button is pressed
		Minor fixes
#6285	MY8-LAKE Specific Operations, Workarea & Scrollbar	A MY8-Lake goes offline if there is a DLP on the network.

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Patch Release v6.4.2 – Installer 65 (2015-09-24)

Component	Version	New	Comment
Installer	65	X	
Lake Controller	v6.4.2.11944	X	
D Series Lake Firmware	Bundle 00.02.53	X	
ARM	11923	X	
DSP	11768	X	
FPGA	80		
Amp	1.1.4, PSU	X	
Dante	1.0.188	X	
PLM+ Series Firmware	Bundle 00.02.53	X	
ARM	11923	X	
DSP	11768	X	
FPGA	80		
Front	4.2.5		
Amp	1.1.4, PSU	X	
Dante	1.0.188	X	
PLM Series Firmware (and OEM)	Bundle 00.04.57	X	
DSP	4.57	X	
FPGA	41		
Front	1.9.1		
Amp	0.14.5, PSU		
Dante	3.0.1.48		
LM Series Firmware	Bundle 00.02.51	X	
DSP	2.51	X	
FPGA	1058		
Front	2.2.0		
Dante	3.0.1.48		
MY8-LAKE Firmware	Bundle 00.02.53	X	
ARM	11923	X	
DSP	R11813	X	
FPGA	R6041		
Lake Firmware Update Utilities	3.2.7.11919	X	
Preset Manager Utilities			
Preset Manager	3.0.13.0	X	
LM Series	2.0.13.0	X	
Analyzer Integration			
Smaart v7	1.2		
Smaart v7 Di	1.0	X	
Live-Capture / AudioClient	1.2		
Third Part applications			
DAPI	3.1.8.5		From Audinate (Win7 or later required, otherwise older versions are installed)
Dante Discovery	1.1.1.1		
Dante Control & Monitoring	1.8.2.1		
Lake LoadLibrary™	3.7	X	See separate release note
Documentation operation			
Lake Controller Operation Manual	1.5.6	X	
D Series Operation Manual	N/A		Will be available on website
D Series Quick Start Guide	1.0.2		
PLM+ Series Operation Manual	1.0.0		
PLM+ Series Quick Start Guide	1.0.0		
PLM Series Operation Manual	1.3.5		
PLM Series Quick Start Guide	1.3.5		
LM Series Operation Manual	1.3.5		
LM Series Quick Start Guide	1.3.5		
MY8-LAKE Owner's Manual	1.0		
Lake Network Conf. Guide	1.1.4		

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New features

Lake Controller

- A new type of EQ overlay is added called; “Band Level EQ”. The Band level EQ consists of Mesa filters that are linked together creating a form of super flexible level control. Changing the frequency or bandwidth of one band will affect the same parameters on the neighboring band(s). Any band can be split into two bands, and if done repeatedly makes it possible to create up to eight total bands. When fewer bands are required, bands can be merged together. Select a band and then tap MERGE TO RIGHT to merge the selected band with the band to the right; MERGE TO LEFT will merge the selected band with the band to the left. The MERGE TO LEFT and MERGE TO RIGHT functions replace the FILTER DELETE function for this overlay type. The BLEQ feature is supported by all Lake models.
- A new “Current Overlay Response Curve” is added to the EQ section. This gray line displays the resulting response of the individual filters on the selected overlay. The previously available white line remains displaying the total response curve of all added EQs of that module or group. The “Current Overlay Response Curve” can be user disabled from the EQ properties menu.
- Added support for Rational Acoustics Smaart v7 Di analyzer.

Lake LoadLibrary 3.7

- Added EQ Overlays for easy recall of speaker compensation EQ, suitable for d&b Y-series.
- For a list of added speaker presets, see separate LoadLibrary release notes.

Resolved issues

Key	Components	Description
		Critical fixes
#6267	PLM+, D Series Lake	The flash memory ECC correction does not work for PLM+ and D Series
#6287	EQ/Levels, Module Menu	The FIR module file Overlay Properties is not set as expected after store/recall
#6293	EQ/Levels, Module Menu	Overlay properties not cleared correctly between module files
#6255	External Control Interfaces (3rd Party / Install)	PLM+ and D Series does not accept all commands in standby such as Power channel mute.
#6210	External Control Interfaces (3rd Party / Install)	Dev.MD.NoFaults command does not take all faults into account
		Major fixes
#6282	Crashes, Preset Manager & Presets	Preset Manager crash when transferring presets
#6265	EQ/Levels	Filter edit is still available on the menu bar for Output EQ section
#6235	EQ/Levels, Groups	Filter limit message displayed, but filter is still added.
#6209	EQ/Levels, Supermodules	Filter delete does not work for Super Modules
#6175	Load Smart , PLM+ Operations	PLM+ and D Series gives erroneous results in LoadSmart speaker count
#6145	PLM+, D Series Lake, Dante	PLM+ and D Series devices can enter a corrupt state where Dante settings no longer can be changed after many fast parameter changes
		Minor fixes
#5411	EQ/Levels	When entering values and using comma instead of dot, LC disregards all decimals.

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Patch Release v6.4.1 – Installer 64 (2015-06-24)

Component	Version	New	Comment
Installer	64	X	
Lake Controller	v6.4.1.11734	X	
D Series Lake Firmware	Bundle 00.02.50	X	
ARM	11734	X	
DSP	11287		
FPGA	80		
Amp	1.1.3, PSU		
Dante	1.0.187		
PLM+ Series Firmware	Bundle 00.02.50	X	
ARM	11734	X	
DSP	11287		
FPGA	80		
Front	4.2.5		
Amp	1.1.3, PSU		
Dante	1.0.187		
PLM Series Firmware (and OEM)	Bundle 00.04.54		
DSP	4.54		
FPGA	41		
Front	1.9.1		
Amp	0.14.5, PSU		
Dante	3.0.1.48		
LM Series Firmware	Bundle 00.02.49		
DSP	2.49		
FPGA	1058		
Front	2.2.0		
Dante	3.0.1.48		
MY8-LAKE Firmware	Bundle 00.02.49		
ARM	11708		
DSP	R11287		
FPGA	R6041		
Lake Firmware Update Utilities	3.2.6.11716		
Preset Manager Utilities			
Preset Manager	3.0.12.0		
LM Series	2.0.12.0		
Analyzer Integration			
SMAART	1.2		
Live-Capture / AudioClient	1.2		
Third Part applications			
DAPI	3.1.8.5		From Audinate (Win7 or later required, otherwise older versions are installed)
Dante Discovery	1.1.1.1		
Dante Control & Monitoring	1.8.2.1		
Lake LoadLibrary™	3.6		See separate release note
Documentation operation			
Lake Controller Operation Manual	1.5.4		
D Series Operation Manual	N/A		Will be available on website
D Series Quick Start Guide	1.0.2		
PLM+ Series Operation Manual	1.0.0		
PLM+ Series Quick Start Guide	1.0.0		
PLM Series Operation Manual	1.3.5		
PLM Series Quick Start Guide	1.3.5		
LM Series Operation Manual	1.3.5		
LM Series Quick Start Guide	1.3.5		
MY8-LAKE Owner's Manual	1.0		
Lake Network Conf. Guide	1.1.4		

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New features

Resolved issues

Key	Components	Description
		Critical fixes
#6164	EQ/Levels	Sometimes inserting a bypassed EQ Overlay doesn't work in Window mode
#6161	External Control Interfaces (3rd Party / Install)	PLM+ and D Series devices does not handle some invalid commands properly Note: It is highly recommended to update to the included 2.50 firmware for D Series and PLM+ devices that are used on installations with 3rd party interfaces. If you don't utilize 3rd party protocol interfaces you don't need to upgrade firmware.

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Release v6.4.0 – Installer 63 (2015-06-03)

Component	Version	New	Comment
Installer	63	X	
Lake Controller	v6.4.0.11728	X	
D Series Lake Firmware	Bundle 00.02.49	X	
ARM	11708	X	
DSP	11287	X	
FPGA	80		
Amp	1.1.3, PSU		
Dante	1.0.187		
PLM+ Series Firmware	Bundle 00.02.49	X	
ARM	11708	X	
DSP	11287	X	
FPGA	80		
Front	4.2.5	X	
Amp	1.1.3, PSU		
Dante	1.0.187		
PLM Series Firmware (and OEM)	Bundle 00.04.54	X	
DSP	4.54	X	
FPGA	41		
Front	1.9.1		
Amp	0.14.5, PSU		
Dante	3.0.1.48		
LM Series Firmware	Bundle 00.02.49	X	
DSP	2.49	X	
FPGA	1058		
Front	2.2.0		
Dante	3.0.1.48		
MY8-LAKE Firmware	Bundle 00.02.49	X	
ARM	11708	X	
DSP	R11287	X	
FPGA	R6041		
Lake Firmware Update Utilities	3.2.6.11716	X	
Preset Manager Utilities			
Preset Manager	3.0.12.0	X	
LM Series	2.0.12.0	X	
Analyzer Integration			
SMAART	1.2		
Live-Capture / AudioClient	1.2		
Third Part applications			
DAPI	3.1.8.5		From Audinate (Win7 or later required, otherwise older versions are installed)
Dante Discovery	1.1.1.1		
Dante Control & Monitoring	1.8.2.1		
Lake LoadLibrary™	3.6	X	See separate release note
Documentation operation			
Lake Controller Operation Manual	1.5.4	X	
D Series Operation Manual	N/A		Will be available on website
D Series Quick Start Guide	1.0.2		
PLM+ Series Operation Manual	1.0.0	X	
PLM+ Series Quick Start Guide	1.0.0	X	
PLM Series Operation Manual	1.3.5		
PLM Series Quick Start Guide	1.3.5		
LM Series Operation Manual	1.3.5		
LM Series Quick Start Guide	1.3.5		
MY8-LAKE Owner's Manual	1.0		
Lake Network Conf. Guide	1.1.4		

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New features

Lake Controller

- Added feature to Store and Recall individual EQ Overlays for modules and groups. This is done from the new EQ Overlay Store / Recall menu added in the EQ/Levels view. A module can, just as before, have up to 8 different EQ Overlays, and each Group can have up to 4 different EQ Overlays.
- The term “Overlay” is renamed to “EQ Overlay” on all buttons in EQ view to better align the term of the functionality.
- When an EQ Overlay is either Stored or Recalled to a Module or Group, the path to where the EQ Overlay was Stored or Recalled from is stored in the actual Overlay for the module. This makes it easy to switch between different EQ Overlays with the same type of compensation. **Note**: Path is not stored in the actual frame, so if a FramePreset is recalled or the module is moved up from Scrollbar – there is no path information stored and each overlay will default back to the default directory of “Modules and EQ Overlays”.
- “Modules” folder is renamed to “Modules and EQ Overlays” to reflect that it now also can contain EQ Overlay files.
- The full Windows path is displayed in the navigation menus for System Store / Recall, Module Store / Recall and EQ Overlay Store / Recall.
- Filter Edit button is moved up to the top left menu bar in the EQ view, just to the right of the A/B Mode button. The keyboard shortcut is now replaced with E (instead of F9).
- “Events & Control” button is renamed to “Amplifier Events & Control” to more intuitively find the amplifier specific parameters.
  Note: The amplifier text is also present for an LM frame.
- Support for VendorLocked module files.
- If the Lake Controller is started when there already is a minimized Lake Controller session running, the Lake Controller will now automatically be maximized.
- When running a large system, and not all frames will fit on the All-page, an All-2-page is automatically created. This All-2-page will now automatically always be created to the right of the All-page instead of last of all pages.
- The Scroll Bar will navigate to the frames currently on the network independently of previously recalled system file.

Resolved issues

Key	Components	Description
		Critical fixes
#6133	System Store/Recall	SystemRecall with devices recalled from GreyBox files causes devices to go OOS
#6125	Module Menu	Recalling a GreyBox file will not clear the module input EQ
#6118	LoadLibrary, Module Menu	Error when recalling FIRModule based .csm files when stored for module C
#6113	Audio response, Preset Manager & Presets	Preset recall can corrupt settings if done when LC is connected. *Problem description:* Doing a Frame Preset Recall when Lake Controller is connected may corrupt data in both Lake Controller and Amplifier, potentially leaving the “high” channel without HPF filter. Frame Preset Recall operation without Lake Controller connected works without issues. Affect Contour Classic Crossovers only. (Not Linear Phase) Corrupted data is visible through x-over section putting the high channel in a separate sheet. The Frame Preset itself is not corrupted, the corruption occurs during the recall process when Lake Controller is connected to a device. Only affects version 6.3.1 and associated firmware *Important notes:* All system files and frame presets etc. that has been stored AND are based on settings recalled through a frame preset recall with Lake Controller connected may be corrupted. Version 6.4.0 is now checking for this type of corruption on System Recall and will notify the user if there is any problems with the file.

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		Work-around in v.6.3.1 Always disconnect Lake Controller when doing a frame preset recall i.e. operate it from the front panel.
#6110	EQ/Levels, Groups	Copy/Paste of groups only copies first eq segment in each overlay
#6108	EQ/Levels, Module Menu	Module B/D OOS on module file recall
#6093	Replace Frame	Extra Dante Tx channels are unavailble after frame replace PLM -> PLM+ / D Series
#6090	Module Menu	Power channels become un-routed on module recall (module C&D)
#6060	Module Menu	Copy/Paste will corrupt settings for the LP4way module in PLM+/D Series
#6004	Crashes	Memory leak in E&C Status and LoadSmart tab
#6003	Supermodules	Gain does not work for SuperModules
#5990	Overlay Store / Recall, Supermodules	Supermodule control of EQ, Gain, etc, does not work
		Major fixes
#6139	Groups	LimiterMax button not available on Group with locked modules
#6088	Workarea & Scrollbar	Pinged device in Scrollbar is not centered
#6012	Window Mode LC	The Scrollbar will be centered differently depending on where LC is located on the screen
#5943	Installer	Installer 60 could not run on Windows Vista
#5941	Events & Control view	ISVPL is shown as LOCKED for Actual but not for Desired ISVPL setting
#5940	Pages	Hidden page becomes visible after a SystemRecall or LoadLast config
#5762	EQ/Levels	Wrong value displayed for amp out voltage in LevelLimits view (module C&D)
#5221	Groups	Group assignment failed for 2way module that uses DSP outputs 1&3
#4694	Window Mode LC	Animate not correct when Windows mode LC is placed somewhere else on screen than default upper left

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Patch Release v6.3.1 – Installer 60 – 2015-03-16

Component	Version	New	Comment
Installer	60	X	
Lake Controller	v6.3.1.11230	X	
D Series Lake Firmware	Bundle 00.02.45	X	
ARM	11228	X	
DSP	11142	X	
FPGA	80	X	
Amp	1.1.3, PSU	X	
Dante	1.0.187	X	
PLM+ Series Firmware	Bundle 00.02.45	X	
ARM	11228	X	
DSP	11142	X	
FPGA	80	X	
Front	4.2.3	X	
Amp	1.1.3, PSU	X	
Dante	1.0.187	X	
PLM Series Firmware (and OEM)	Bundle 00.04.50	X	
DSP	4.50	X	
FPGA	41		
Front	1.9.1	X	
Amp	0.14.5, PSU		
Dante	3.0.1.48		
LM Series Firmware	Bundle 00.02.45	X	
DSP	2.45	X	
FPGA	1058		
Front	2.2.0	X	
Dante	3.0.1.48		
MY8-LAKE Firmware	Bundle 00.02.45	X	
ARM	11228	X	
DSP	R10950		
FPGA	R6041		
Lake Firmware Update Utilities	3.2.3.11228	X	
Preset Manager Utilities			
Preset Manager	2.0.5.0	X	
LM Series	1.0.99.0	X	
Analyzer Integration			
SMAART	1.2	X	
Live-Capture / AudioClient	1.2	X	
Third Part applications			
CAFÉ	N/A		Will be available on website
DAPI	3.1.8.5	X	From Audinate (Win7 or later required,
Dante Discovery	1.1.1.1	X	otherwise older versions are installed)
Dante Control & Monitoring	1.8.2.1	X	
Lake LoadLibrary™	3.5		See separate release note
Documentation operation			
Lake Controller Operation Manual	1.5.3	X	
D Series Operation Manual	N/A		Will be available on website
D Series Quick Start Guide	1.0.2		
PLM+ Series Operation Manual	N/A		Will be available on website
PLM+ Series Quick Start Guide	N/A		Will be available on website
PLM Series Operation Manual	1.3.5		
PLM Series Quick Start Guide	1.3.5		
LM Series Operation Manual	1.3.5		
LM Series Quick Start Guide	1.3.5		
MY8-LAKE Owner's Manual	1.0		
Lake Network Conf. Guide	1.1.4		

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New features

Lake Controller

- Full implementation of Auto RPM™ and Custom RPM™ mode in PLM+ & D Series (RPM now also works with Bridge Mode).
- Support for improved LoadPilot™. The impedance analysis of pilot tone impedances are more accurate and the measurable impedance range has been extended upwards (see CAFÉ Release notes for more details).
- A significant amount of bug fixes and stability improvements (see Resolved Issues section for more details).
- All user files are automatically copied from the previous Lake Controller installation (only applies to versions using 'My Documents' i.e. from v6.3.0).
- Default PEQ filters removed from PEQ page.
- It now possible to select if 'PostEQ' channel should include Input Delay or not for all Aux channels in LP2way+1aux, CL2way+1aux and CL3way+1aux.
- OEM Products are now supported in the public Lake releases (Virtual files, Updater, Preset Manager).

Preset Manager

- Exclude labels is set as default whenever a frame preset or bank file is transferred between devices in the Preset Manager.

MY8-LAKE

- Added support for DHCP IP-configuration option.

PLM Front panel

- The yellow LED Frame warning for "Controller Offline" is removed to better align with the PLM+ Series.
- The top left LED now blinks at frame warning/fault to better align with the PLM+ Series.

Resolved issues

Key	Components	Description
		Critical fixes
5690	Groups	Group Input mute becomes disabled if Module input mute is used
5717	Dante, LC	Dante error message is shown when LC is started on a wireless NIC.
5601	Dante, PLM+, PLM, LM	If using a mixed PLM and PLM+ system receiving Dante from a Lake enabled product using the analog inputs, input sensitivity may not be consistent resulting in different input gains.
5892	D Series Lake, PLM+	Frame not booting after Power cycle when running a FIRModule in C/D.
5619, 5614, 5613, 5661	EQ/Levels, LC, PLM FW	Fixed loopholes that could allow more than 256 EQ segments to be added, resulting in corrupted filters.
5722, 4454	LC	Module overlays could become bypassed when using bypassed group overlays.
5699, 5698	UDIC / UDIP	Fixed rare cases where 'Use Data On Processor' actually changed some parameters in the frame and where 'Use Data In Computer' did not resolve an OOS situation.
5830	Audio response, I/O Config	Incorrect output routing for 4+2 configurations on MY8-LAKE, PLM+ & D Series
5591	Module Menu, FIRModule	Recalling a Greybox file / FIRModule resets the input mixer settings to default.
4485 5660	LC, Synchronization	Sometimes all devices fail to FastSync after a Use Data On Processor operation.
5542,	LC, Synchronization	Sometimes all devices fail to FastSync after Recall Last System Configuration.
5592	LC, Synchronization	Sometimes all devices fail to FastSync after choosing to do a System Preset Recall.
5835	Faults & Warnings	In some cases PAL warning is not shown when PAL is active in PLM+ & D Series

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5796	LC, Window Mode LC	The +4dBu button in the input mixer window is non-responsive
5770	Faults & Warnings	Old firmware is not detected if modules are OOS
5744	D Series Lake, PLM+	Settings not correctly restored after power cycle when flash memory had bad blocks
5736	Crashes	LC crash when loading the FIRMaker plug-in
5711	D Series Lake, Dante, PLM+ Operations	When a PLM+ or D Series is set to ZeroConf, Dante Module still request and takes a offered IP address from DHCP
5709	Clocking, I/O Config	Soft Reset does not reset AES output clock selection correctly
5694	Clair G request, Module Menu	A 3way module with an unused mid channel will be incorrectly interpreted as a 2+1 module in v6.3
5676	Analyzer Integration , Crashes	LC crash when the analyzer specified in the plugin.conf file isn't was is found on the network
5671	Analyzer Integration	LC sometimes crashes when Search for Analyzer is pressed
5665	D Series Lake, PLM+ Operations	After Factory Reset, Lake and Dante Module can show different IP addresses for Dante
5650	PLM+ Series front	Dual Redundancy state is not shown correctly when changed from front panel
5843	Crashes, D Series Lake, PLM+ Operations	A network loop could cause a D Series or PLM+ to power cycle itself.
2140	LC	Mismatching Group mute states when using Multiple Controllers and virtual/offline frames.
5762	LC, EQ/Levels	The amp out voltage calculation in the LevelLimits view is incorrect for module C&D
5703	LC, Window Mode LC	Window Mode error message if the previous resolution is un-available, make LC use the highest possible resolution.
5884	Groups	Group Data Levels not cleared correctly when assigning modules with different number of output channels.

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Patch Release v6.3.0 – Installer 58 – 2014-11-17

Component	Version	New	Comment
Installer	58	X	
Lake Controller	v6.3.0.10741	X	
D Series Lake Firmware	Bundle 00.02.41	X	
ARM	10779	X	
DSP	10454	X	
FPGA	75	X	
Amp	1.0.2, PSU	X	
Dante	1.0.176	X	
PLM+ Series Firmware	Bundle 00.02.41	X	
ARM	10779	X	
DSP	10454	X	
FPGA	75	X	
Front	4.0.2	X	
Amp	1.0.2, PSU	X	
Dante	1.0.176	X	
PLM Series Firmware	Bundle 00.04.46	X	
DSP	4.46	X	
FPGA	41		
Front	1.9.0		
Amp	0.14.5, PSU		
Dante	3.0.1.48		
PLM Series downgrade bundle	Bundle 00.02.75		See separate instructions section
PLM Safe Mode Image	0.03 (label 99.03)		See separate instructions section
LM Series Firmware	Bundle 00.02.41	X	
DSP	2.41	X	
FPGA	1058		
Front	2.1.0		
Dante	3.0.1.48		
LM Safe Mode Image	0.02 (label 99.02)		See separate instructions section
MY8-LAKE Firmware	Bundle 00.02.41	X	
ARM	10779		
DSP	R6019		
FPGA	R6041		
Lake Firmware Update Utilities	3.2.2.10737	X	
Preset Manager Utilities			
Preset Manager	2.0.4.0	X	
LM Series	1.0.98.0	X	
Analyzer Integration			
SMAART	1.1		
Live-Capture	1.1		
Third Part applications			
CAFÉ	N/A		Will be available on website
DAPI	3.1.6.1	X	From Audinate (Win7 or later required,
Dante Discovery	1.1.0.2	X	otherwise older versions are installed)
Dante Control & Monitoring	1.8.0.1	X	
Lake LoadLibrary™	3.4	X	See separate release note
Documentation operation			
Lake Controller Operation Manual	1.5.2	X	
D Series Operation Manual	N/A		Will be available on website
D Series Quick Start Guide	1.0.2	X	
PLM+ Series Operation Manual	N/A		Will be available on website
PLM+ Series Quick Start Guide	N/A		Will be available on website
PLM Series Operation Manual	1.3.5		
PLM Series Quick Start Guide	1.3.5		
LM Series Operation Manual	1.3.5		
LM Series Quick Start Guide	1.3.5		
MY8-LAKE Owner's Manual	1.0		
Lake Network Conf. Guide	1.1.4		

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Resolved issues

Key	Components	Description
5646	PLM+, D Series	Device may become unresponsive after 49 days of continuous operation.

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Release v6.3.0 – Installer 57 – 2014-10-30

Component	Version	New	Comment
Installer	57	X	
Lake Controller	v6.3.0.10741	X	
D Series Lake Firmware	Bundle 00.02.40	X	
ARM	10744	X	
DSP	10454	X	
FPGA	75	X	
Amp	1.0.2, PSU	X	
Dante	1.0.176	X	
PLM+ Series Firmware	Bundle 00.02.40	X	
ARM	10744	X	
DSP	10454	X	
FPGA	75	X	
Front	4.0.2	X	
Amp	1.0.2, PSU	X	
Dante	1.0.176	X	
PLM Series Firmware	Bundle 00.04.46	X	
DSP	4.46	X	
FPGA	41		
Front	1.9.0		
Amp	0.14.5, PSU		
Dante	3.0.1.48		
PLM Series downgrade bundle	Bundle 00.02.75		See separate instructions section
PLM Safe Mode Image	0.03 (label 99.03)		See separate instructions section
LM Series Firmware	Bundle 00.02.41	X	
DSP	2.41	X	
FPGA	1058		
Front	2.1.0		
Dante	3.0.1.48		
LM Safe Mode Image	0.02 (label 99.02)		See separate instructions section
MY8-LAKE Firmware	Bundle 00.02.40	X	
ARM	10744		
DSP	R6019		
FPGA	R6041		
Lake Firmware Update Utilities	3.2.2.10737	X	
Preset Manager Utilities			
Preset Manager	2.0.4.0	X	
LM Series	1.0.98.0	X	
Analyzer Integration			
SMAART	1.1		
Live-Capture	1.1		
Third Part applications			
CAFÉ	N/A		Will be available on website
DAPI	3.1.6.1	X	From Audinate (Win7 or later required,
Dante Discovery	1.1.0.2	X	otherwise older versions are installed)
Dante Control & Monitoring	1.8.0.1	X	
Lake LoadLibrary™	3.4	X	See separate release note
Documentation operation			
Lake Controller Operation Manual	1.5.2	X	
D Series Operation Manual	N/A		Will be available on website
D Series Quick Start Guide	1.0.2	X	
PLM+ Series Operation Manual	N/A		Will be available on website
PLM+ Series Quick Start Guide	N/A		Will be available on website
PLM Series Operation Manual	1.3.5		
PLM Series Quick Start Guide	1.3.5		
LM Series Operation Manual	1.3.5		
LM Series Quick Start Guide	1.3.5		
MY8-LAKE Owner's Manual	1.0		
Lake Network Conf. Guide	1.1.4		

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New features

Lake Controller

- Support for the new PLM+ Series and D Series Lake product ranges.
- Lake Controller now utilizes 'My Documents' or 'Documents Library' for storing module and system files.
- Clock Configuration has been overhauled with new tabs for easier access to clock selection and help screens.
- Lake Controller now utilizes 'My Documents' or 'Documents Library' for storing module and system files. All stored system and module files including the LoadLibrary can be found at the new location. ***Please note that the folders are created the first time that the Controller is started.***
- Clock Configuration has been overhauled with new tabs for easier access to clock selection and help screens.
- Lake Controller is now available in Window Mode i.e. full screen is no longer required. This is configured from User Preferences -> Graphics -> Display mode. The selection is stored in the ic.ini file and applied when Lake Controller is started.
- Power Output mutes and routed outputs are now displayed on modules in work area/home screen. They will indicate with a red line when the 'Amp channel mute' is enabled. The vertical location is static per channel.
- Lake Controller can now run on high resolution screens such as UHD+ and 4K. The option previously available Lake Controller Beta 3, to enable or disable the DPI Scaling, has been removed. Windows 8.1 will automatically decide if DPI scaling is required. This can be disabled from the Compatibility tab in the Properties menu, selecting 'Disable display scaling on high DPI settings'.
- Lake Controller now has an option to turn hardware acceleration on or off. Computers with e.g. Intel GPU's, such as lower specified laptops and tablet PCs, usually run better with this option set to off. The setting is persistent between sessions and is by default set to on. It can be accessed through the Graphics menu or Lake Controllers 'iC.ini' file located in the 'Config' subfolder in your 'My Documents' / 'Documents Library' folder. Set 'EMULATION=0' to turn it on and 'EMULATION=1' to turn it off.
- The 'Load Not Verified' warning is removed both from LC and PLM (not present for PLM+ and D Series) products. The LoadSmart™ feature is still available and working as before with presets that contains fingerprints but will no longer display a warning if Load Verification hasn't been performed since last power cycle.
- Amplifier outputs on PLM, PLM+ and D Series have been re-named to Power Outputs.
- Cross Compatible Frame replace / Batch replace in LC:
    - 4 channel PLM Series amplifiers can be replaced with each other
    - 4 channel PLM Series amplifiers can be replaced with PLM+ or D Series
    - Different models of PLM+ or D Series amplifiers can be can replaced with each other
- All virtual files are located in a separate folder on the module scrollbar.
- Both ISVPL & BEL values are shown as Actual value and Desired value. The active setting [Actual value] can be different depending on what the product model is capable of vs. what the Desired value is set to. Desired values are not changed when moving configurations between different models.
- ISVPL is extended with an Actual value per Power channel (Pwr output) in the Control tab.
- For PLM+ and D Series the status of RPM can observed from the Events & Control, Control tab after the Actual value a RPM text is displayed.
- The 'Global Info' button is removed and 'Global Events&Control' is now directly accessible from the ALL-tab menu bar.
- For PLM+ and D Series the status of LoadPilot can observed from the Events & Control Status tab.
- Recall as Sub-system will detect if there already is a page with the same name as in the Sub-system being recalled. The user will then be prompted with a question to either merge the page or create a new page with the same name extended with a running number (1, 2, …).

PLM Front panel

- The front panel now has a screen saver to improve the lifetime of the display.
- New Dual Redundant indication (=), same as on the PLM+ Series.

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Lake Update utility

- Per frame indication of when the update is complete and if successful.
- A 'Dante Refresh' button to poke all frame's Dante status (only active for PLM+ and D Series selection). (Works similarly as the 'Reload' feature in the Dante Controller).
    - For PLM+ and D Series the Dante Services of Dante Discovery and ConMon are required to be installed on the computer to be able to firmware update a PLM+ or D Series device.
- Not possible to update more than 5 device in SAFE mode simultaneously.

Preset Manager

- One preset format (bank) for all 5 models of PLM+ and D Series, for easy FramePreset distribution and handling of bank files.
- Optimized format for PLM+ and D Series making distribution of FramePresets to these devices 100x quicker compared to PLM or LM Series devices.

Installer

- New Installer with a more intuitive and standardized workflow.

Resolved issues

Key	Components	Description
4995	LC	'Search for Analyzer' failed when having more than one analyzer installed.
4866	LC	Group Gang in modules does not work when ganging DSP channels 4 to 6.
5307	LC	Lake Controller error on startup on high resolution screens (e.g. Surface Pro3).
5292	LC	Unsuccessful System file recall causes a blanked out work area and no error message.
5032	LC	Input router mute is incorrectly displayed on the Workarea module icons as Mod.Out.Mute.
4857	LC	The GSI (Global Status Indicator) / Traffic light will always display fault on a secondary controller if there is a virtual of offline device on workarea.
4843	LC	Deleting an EQ filter in a module overlay when in Multiple controller mode does not update the other controller.
4885	LM Firmware	LM reports Dante clock slipping after a power cycle when LM is master and Internal clock selected.
	LC	Long overlay labels were allowed in LC. These were cut off to 18 characters by firmware. LC is now limited to 18 characters for overlay labels as well.
	Various	Several minor issues resolved and improved overall stability.

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Patch Release v6.2 build 004 – Installer 56 – 2014-07-07

Component	Version	New	Comment
Installer	56	X	
Lake Controller	v6.2.004	X	
PLM Series Firmware DSP FPGA Front Amp Dante	Bundle 00.04.39 4.39 41 1.8.0 0.14.5, PSU 3.0.1.48		
PLM Series downgrade bundle	Bundle 10.02.75		See separate instruction section.
PLM Safe Mode Image	0.03 (label 99.03)		See installation instructions section.
LM Series Firmware DSP FPGA Front Dante	Bundle 00.02.35 2.35 88 2.1.0 3.0.1.48		
LM Safe Mode Image	0.02 (label 99.02)		See installation instructions section.
MY8-LAKE Firmware ARM DSP FPGA	Bundle 00.02.37 2.37 R6019 R6041		
Lake Firmware Update Utilities	3.0.0.27		
Preset Manager Utilities PLM Series LM Series	 2.0.3.0 1.0.96.0		
Analyzer Integration SMAART Live-Capture	 1.0.0.1 1.0.1.0	 X	
Third Part applications Dante Services Installer	 3.1.5.1	 X	Dante Discovery & ConMon Service from Audinate (WinXP SP3 or later)
Lake LoadLibrary™	3.3	X	See separate release note
Documentation operation Lake Controller Op. Man. PLM Series Operation Manual LM Series Operation Manual MY8-LAKE Owner's Manual Lake Network Conf. Guide	 1.4.8 1.3.5 1.3.5 1.0 1.1.4		

Issues corrected

- *[Installer]* Updated Dante Services Installer from Audinate due to an expired Authenticode certificate for the previous one. This solves the issue with the error message 257 displayed during the Lake Installation. The Dante Services Installer is now displayed during the installation.
    - *Note:* If error message 257 still is reported, please ensure that your computer have all the latest Windows Updates and is connected to Internet during the Installation.
- *[LC]* Fixed an issue with the LiveCapture plugin which could cause the Lake Controller to freeze upon exit.
- *[LC]* Fixed an issue where the Lake Controller would not always find the Analyzer that was running if another Analyzer was specified in the .conf file.
- *[LC]* Disabled the Analyzer button if no Analyzer plugins are found.
- *[LC]* Fixed a bug where the EQ tool would disappear for group GEQs when opening a module in the group while the GEQ was disabled
- *[LC]* Fixed the "Mod.Out.Mute" indication in the status tab of events & control.
- *[LC]* Fixed an issue where PLM modules within a Super Module not could be stored as Frame Presets from within the Lake Controller.
- *[LC]* Fixed an issue with locked Frame presets.

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Release v6.2 build 003 – Installer 55 – 2014-02-20

Component	Version	New	Comment
Installer	55	X	
Lake Controller	v6.2.003	X	
PLM Series Firmware	Bundle 00.04.39	X	
DSP	4.39	X	
FPGA	41		
Front	1.8.0		
Amp	0.14.5, PSU		
Dante	3.0.1.48		
PLM Series downgrade bundle	Bundle 10.02.75		See separate instruction section.
PLM Safe Mode Image	0.03 (label 99.03)		See installation instructions section.
LM Series Firmware	Bundle 00.02.35	X	
DSP	2.35	X	
FPGA	88		
Front	2.1.0		
Dante	3.0.1.48		
LM Safe Mode Image	0.02 (label 99.02)		See installation instructions section.
MY8-LAKE Firmware	Bundle 00.02.37		
ARM	2.37		
DSP	R6019		
FPGA	R6041		
Lake Firmware Update Utilities	3.0.0.27	X	
Preset Manager Utilities			
PLM Series	2.0.3.0		
LM Series	1.0.96.0		
Analyzer Integration			
SMAART	1.1		
Live-Capture	1.1		
Third Part applications			
DAPI (Discovery & ConMon)	1.3.2.1		From Audinate (WinXP SP3 or later)
Lake LoadLibrary™	3.2	X	See separate release note
Documentation operation			
Lake Controller Op. Man.	1.4.8	X	
PLM Series Operation Manual	1.3.5		
LM Series Operation Manual	1.3.5		
MY8-LAKE Owner's Manual	1.0		
Lake Network Conf. Guide	1.1.4	X	

New functionality in v6.2

- *[PLM, LC]* The FIR-module is now available for the PLM series. This offers integration with AFMG's Ease Focus II with FIRmaker Optimization.
  - Note: See AFMG documentation for more information.
- *[LC]* **Global Status Indicator** (GSI) – In the event of a 'fault or warning' the lower Global Status Indicator Icon traffic light system will be displayed.
  - A red light indicates a fault or offline device
  - A yellow light indicates a warning in the system is present
  - The GSI Icon displays no matter the view the Lake Controller is in (except Events & Control) and is very helpful to monitor the system while in EQ view
  - The indication only works for modules in the working area. A module must be dropped into the workspace (e.g. Main and other Page tabs) and not in the modules toolbar or offline modules. The GSI will also indicate if a device that was online when the Controller was started goes offline.

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    - *Notes*: The GSI does not display the cause or device the warning/fault is on, it serves to make the user aware of that there is a potential issue. Please navigate to the ALL-page to find the specific device and cause of issue.
    - This is not available on the Secondary Controller.
    - Possible to defeated per session from the Icon Control menu.
- *[LC]* **Display Module Routing Window on recall** - When a module is recalled (Speaker presets from the Lake LoadLibrary, default modules or any other module) the user can opt to display the output routing automatically as a pop-up in the work area view. An button is now located in the module output routing page to enable/disable this functionality.
    - *Note:* As routing never has been part of the module content, it's important to confirm that the routing is as expected. Previously the PLM Series amplifiers have had a special feature where the routing always has been defaulted when a new module type is recalled. This now been removed to avoid confusion, and the routing is always left untouched on module recall just as it always has been on the LM Series processors.
- *[LC]* Possibility to enable Designer Mode on Primary and Secondary Controller independently when running Multiple Controllers.
- *[LM]* **LM 'Linking'** - New preconfigured files for easier setup of dual LM 44 and LM 26 operation. Please see separate document *LM Series Dual 4x8 Input Swapping.pdf.*
- *[LC]* Now possible to start a Dante Device Name with an nr.
    - *Note:* Please update to Dante Controller v3.5.0.
- *[LC]* The Lake Controller revision number is printed last in the Splash screen.
- *[Doc]* Updated Lake Controller Operations manual as well as Lake Network Configuration Guide.

Issues corrected

- *[LC]* Fixed several critical issues with regards to Group overlays still being present in modules also after the Group had been de-assigned from the module when more than two Groups had been assigned.
- *[PLM, LM]* Fixed a critical error that was introduced in v6.1, where audio glitches could occur on the LF band during certain circumstances for both the FIR-module and Classic modules.
- *[PLM, LM]* Fixed an issue where a module recall to Module B in some circumstances could influence the processing on Module A. (#4842)
- *[LC]* Fixed a crash when selecting the XOver/Aux tab in designer mode on Windows 8.
- *[LC]* The event log didn't correctly state when a LM Series device went offline.
- *[LC]* Fixed an issue where storing a large system with PLMs using the FIR module took far too long time.
- *[LC]* Improved error message when trying to recall a FIR module to any other hardware than PLM Series.
- *[LC]* Fixed Group and module overlay handling and the Lake Controller no more freezes or crashes when tabbing or using a mouse scroll wheel on the overlays.
- *[LC]* Fixed so that the last used tab in the Dante Configuration is remembered.
- *[LM]* Fixed so that the Primary clock is uninterrupted when the SRC clock is configured.
- *[LC]* System files saved while the system is out of sync will no longer lose Dante configuration for out of sync devices.
- *[PLM, LM]* Fixed an issue where a device that lost persistence boots up with Dual Redundancy turned on, minimizing secondary errors on the network (also fixed so that LC don't synchronizes devices in this state while on Work area).
- *[LC]* Several FastSync issues has been fixed associated with combined modules (modules using both A and B modules such as LP4way, Classic 6way, 6aux or any of the FIR modules).
- *[Updater]* Fixed an issue where the incorrect devices in SAFE-mode was displayed when the PLM Series platform were selected.
- *[LC]* Fixed an issue where deleting module EQ filters did not happen properly in Multiple Controller scenarios.

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Patch Release v6.1 build 005 – Installer 53 – 2013-10-03

Component	Version	New	Comment
Installer	53	X	
Lake Controller	v6.1.005	X	
PLM Series Firmware	Bundle 00.04.36	X	
DSP	4.36	X	
FPGA	41		
Front	1.8.0		
Amp	0.14.5, PSU		
Dante	3.0.1.48	X	
PLM Series downgrade bundle	Bundle 00.02.75		See separate instruction section.
PLM Safe Mode Image	0.03 (label 99.03)		See installation instructions section.
LM Series Firmware	Bundle 00.02.33	X	
DSP	2.33	X	
FPGA	88		
Front	2.1.0		
Dante	3.0.1.48	X	
LM Safe Mode Image	0.02 (label 99.02)		See installation instructions section.
MY8-LAKE Firmware	Bundle 00.02.37		
ARM	2.37		
DSP	R6019		
FPGA	R6041		
Lake Firmware Update Utilities	3.0.0.26	X	
Preset Manager Utilities			
PLM Series	2.0.3.0	X	
LM Series	1.0.96.0	X	
Analyzer Integration			
SMAART	1.1		
Live-Capture	1.1		
Third Part applications			
Dante Discovery Service	1.3.2.1		Supplied by Audinate
Dante ConMon Service	1.3.2.1		Supplied by Audinate
LoadLibrary™	3.1	X	See separate release note.
Documentation operation			
Lake Controller Op. Man.	1.4.5	X	
PLM Series Operation Manual	1.3.5		
LM Series Operation Manual	1.3.5		
MY8-LAKE Owner's manual	1.0		
Lake Network Conf. Guide	1.1.3		

New functionality

- *[PM, PLM, LM]* Preset Manager now has an option to set Frame Presets to 'Exclude Labels' when the preset is recalled. When the preset is set to Exclude Labels, the crossed yellow tag is displayed on the preset and it will not change Frame Label or Dante Device Name with the Frame Preset recall (i.e. it will always keep the current names the frames has). When the preset is set to 'Include Labels' it will change names if the preset contains any different information.
    - Please see the Lake Controller Operation Manual, section Preset Manager, for more information.
- *[PM]* Updated icon graphics in the Preset Manager to align with the Lake Controller.
- *[LC]* The crossed yellow tag for 'Exclude Labels' are also visible on System and Frame Presets from within the Lake Controller presets menu.
- *[Doc]* Updated Lake Controller Operation Manual for *Exclude Labels* functionality.

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Issues corrected

- *[PLM, LM]* Fixed an issue with IGMP snooping, where the device didn't respond to the switch's IGMP membership queries which caused Dante Multicast Audio to stop working after 30 seconds up to 2 min after a power cycle. IGPM snooping now works according to spec.
- *[PLM, LM]* Fixed an issue where the device sent out the DHCP discovery message with the incorrect IP address, casing issues with some DHCP servers.
- *[PM]* Stability improvements to make the Preset Manager more robust when connected to many devices and transferring large bank files.
- *[Updater]* Fixed an issue where a MY8-LAKE could not be updated from safe-mode.

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Patch Release v6.1 build 004 – Installer 52 – 2013-07-19

Component	Version	New 6.1	Comment
Installer	Installer 52	X	
Lake Controller	v6.1.004	X	New 2013-07-19
PLM Series Firmware DSP FPGA Front Amp Dante	Bundle 00.04.33 4.33 41 1.8.0 0.14.5, PSU 3.0.1.47		
PLM Series downgrade bundle	Bundle 00.02.75		See separate instruction section.
PLM Safe Mode Image	0.03 (label 99.03)		See installation instructions section.
LM Series Firmware DSP FPGA Front Dante	Bundle 00.02.30 2.30 88 2.1.0 3.0.1.47		
LM Safe Mode Image	0.02 (label 99.02)		See installation instructions section.
MY8-LAKE Firmware ARM DSP FPGA	Bundle 00.02.37 2.37 R6019 R6041		
Lake Firmware Update Utilities	3.0.0.24	X	New 2013-07-19
Preset Manager Utilities PLM Series LM Series	 2.0.2.0 1.0.95.0		
Analyzer Integration SMAART Live-Capture	 1.1 1.1		
Third Part applications Dante Discovery Service Dante ConMon Service	 2.8.0.4 2.8.0.4		 Supplied by Audinate Supplied by Audinate
LoadLibrary™	3.0		See separate release note.
Documentation operation Lake Controller Op. Man. PLM Series Operation Manual LM Series Operation Manual MY8-LAKE Owner's manual Lake Network Conf. Guide	 1.4.4 1.3.5 1.3.5 1.0 1.1.3		

New functionality

- *[LC]* Added a warning message if the LastConfig file isn't found or not stored correctly from the previous Lake Controller session.

Issues corrected

- *[LC]* Fixed an issue with group EQ filters sometimes being unexpectedly modified or replaced
- *[LC]* System files saved while the system is out of sync will no longer lose Dante configuration for out of sync devices.
- *[LC]* Fixed a crash that sometimes occurred when recalling system files.
- *[LC]* Fixed an issue with locking of modules.
- *[LC]* Fixed an issue with the Level Limits button not always being available when expected.
- *[LC]* Fixed an issue where FastSync was not working after changing order on Group EQ filters.
- *[Updater]* The firmware update utility will now correctly recognize MY8-LAKE cards in all configurations

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Release v6.1 build 002 – Installer 51 – 2013-06-18

Component	Version	New	Comment
Installer	51	X	
Lake Controller	v6.1.002	X	
PLM Series Firmware	Bundle 00.04.33	X	
DSP	4.33	X	
FPGA	41		
Front	1.8.0	X	
Amp	0.14.5, PSU	X	
Dante	3.0.1.47	X	
PLM Series downgrade bundle	Bundle 00.02.75		See separate instruction section.
PLM Safe Mode Image	0.03 (labeled 99.03)		See installation instructions section.
LM Series Firmware	Bundle 00.02.30	X	
DSP	2.30	X	
FPGA	88		
Front	2.1.0	X	
Dante	3.0.1.47	X	
LM Safe Mode Image	0.02 (labeled 99.02)		See installation instructions section.
MY8-LAKE Firmware	Bundle 00.02.37	X	
ARM	2.39	X	
DSP	R6019		
FPGA	R6041		
Lake Firmware Update Utilities	3.0.0.22	X	
Preset Manager Utilities			
PLM Series	2.0.2.0		
LM Series	1.0.95.0		
Analyzer Integration			
SMAART	1.1	X	
Live-Capture	1.1	X	
Third Part applications			
Dante Discovery Service	2.8.0.4	X	Supplied by Audinate
Dante ConMon Service	2.8.0.4	X	Supplied by Audinate
LoadLibrary™	3.0	X	See separate release note.
Documentation operation			
Lake Controller Op. Man.	1.4.4	X	
PLM Series Operation Manual	1.3.5	X	
LM Series Operation Manual	1.3.5	X	
MY8-LAKE Owner's manual	1.0		
Lake Network Conf. Guide	1.1.3	X	

New functionality

- *[PLM, LM - Dante]* The Dante functionality has been upgraded by Audinate and is now up to date with the latest versions of other standard Audinate products as the Brooklyn II. New features are;
  - Possible to set 'Preferred Master' device for Dante network. This is synchronized between the Lake Controller and any online Dante Controller.
  - Possible to set the 'Dante Device' name to anything you would like. This is synchronized between the Lake Controller and any online Dante Controller. If this is changed after a subscription has been done on a Dante Receiver frame, these subscriptions will need to be renewed.
    - When upgrading from previous firmware the Device Name is automatically changed to have the same name as it had in the previous firmware. For both PLM and LM this is *DLP-'MAC-Address'*. This also makes it possible to recall old system files and frame presets.

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    - After a Factory reset it will be set to the standard new default name.
    - Dante channels from a Lake device is now represented as *ChannelLabel@DeviceName* just as for any other Dante device.
- *[PLM, LM, LC – Dante]* A 'Slave Only' option has been implemented for PLM and LM. This can only be configured from the Technical Data popup in the Lake Controller and requires a power cycle. When configured it is also stated in the Dante Controller as 'Slave Only'. This is, just as IP-settings, a device parameter and is not affected by System file recall, Frame preset recall or Soft Reset. This has been added as a feature to speed up the Dante Clock Master selection process and to be able to prevent selected devices from becoming a Dante Clock Master. The Factory reset default is setting PLM's to 'Slave Only'.
- *[PLM, LM - Dante]* It is now possible to have Fixed IP setting and Dante (and Dual Redundancy) active at the same time.
- *[LC - Dante]* In I/O Config, the Dante Configuration is now located below Input Configuration for Dante enabled devices. This also displays
    - Dante Device Name
    - Dante subscription status
- *[LC - Dante]* Dante subscription Lock status is displayed with * in the Dante Receivers view. The Lock status is also displayed in the left panel of I/O Config.
- *[LC - Dante]* The Dante Configuration is now divided into three sections;
    - ***Device Config*** – Covers device settings such as Dante enabled, Preferred Dante Clock Master, Sample Rate and Device Name and Device Latency.
    - ***Receive Config*** – Covers Dante Receiver Configuration (one for each Dante subscription)
    - ***Transmit Config*** – Covers Transmit Outputs, Casting selection (Unicast / Multicast) and Channel label.
- *[LC - Dante]* In Input Configuration it is now the Dante Receivers that is routed.
    - *Note:* If a system file from pre v6.1 is recalled, the Dante Receivers and Input Configuration is set accordingly to that system file's properties in pre v6.1.
- *[LC - Dante]* The Dante Receiver latency has been changed to Dante Device latency, and the latency options have been aligned with other Dante devices and the options available in the Dante Controller. The Latency options now also work correctly for both 48 kHz and 96 kHz.
- *[LC - Dante]* Dante enabled/disabled and select 48 kHz or 96 kHz, and Dante Transmit enabled/disabled can now be set and monitored as a global parameter in the Lake Controller Events & Control ALL view.
- *[Installer]* To be able to route Dante channels in the Lake Controller (and Dante Controller) the Dante Discovery- and Dante ConMon-services is required to be installed and running on the computer. This is installed automatically with the Installer.
    - ***Important note for WinXP!****:* On Windows XP systems the Installer will uninstall any current Apple Bonjour instances as this will interfere with the Dante Discovery- and Dante ConMon-services. If any updates from Apple is accepted containing a Bonjour installation this will be needed to be uninstalled again for the Dante Discovery- and Dante ConMon-services (and hence, Dante Controller and Lake Controller) to work properly. In this instance, there is no error message presented. Will require Service Pack 3.
    - This interference issues does not exist in Windows 7 or 8, where these services all can run in parallel.
- *[LM, PLM]* The audio levels are now correct when an input is sent out to another Lake device.
    - *Note:* Also fixed an issue where having a transmitter (that wasn't a Lake device) would generate a +7 dB gain error. (J#3477)
- *[LM, PLM]* Present Dante subscriptions can be seen in the front panel of the PLM and LM Series devices in the Input Router view, where the subscription is presented with ChannelLabel@DeviceName together with the input type, looping this information every 2 seconds.
- *[LM - Dante]* It is now possible to route the Dante Receivers to any output without using the Dante Receiver in the Input Router.
- *[PLM, LM]* Network settings (IP Address Configuration and Dual Redundancy settings) are now not pushed when recalling System files, Frame Preset nor affected by Frame Config Reset or Soft Reset. The Network settings in the frame is always synchronized up to the Controller and can only be changed from the Technical Data menu in the Lake Controller, followed by a power cycle (must be done by removing mains to the device).

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    - It is possible to see the current network selection from the front panel in the Network menu.
    - IP Settings are still affected by a front panel factory reset – they will then be reverted back to Auto-IP which is the default setting.
- *[LM, PLM]* The selected IP configuration is specified in the Network menu of the front panel.
    - *Note*: This is updated first after a power-cycle when the option is active.
- *[LM, PLM]* When Dual Redundancy is active, this is specified in the front panel.
    - *Note*: This is updated first after a power-cycle when the option is active.
- *[LC]* Dual Redundancy state of PLM and LM devices can now be set and monitored as a global parameter in the Lake Controller Events & Control ALL view.
- *[LC]* Technical Data popup in I/O Config is now available for offline and virtual frames.
    - *Note:* Some parameters will be blank for Virtual and Offline frames.
- *[LC]* When the Fixed IP option is selected in the Lake Controller, make sure to change the default IP to an appropriate IP to avoid duplicated IP addresses.
- *[PLM, LM]* The firmware bundle versions have been stepped for PLM Series and LM Series to make it easy to see if it is a v6 or v5 branch firmware in the device;
    - *v6 Releases* will have PLM v4.xx and LM v2.xx.
    - *v5 Releases* will have PLM v3.xx and LM v1.xx.
- *[PLM]* Added Attenuation and Amp Channel Mute control to DLM.
- *[PLM]* New Pilot Tone – LoadMonitor 2.0, facilitating generation and real-time monitoring of an inaudible test signal within the PLM 20000Q and PLM 10000Q (with Amp. BSP 4, PLM 10000Q manufactured in Feb 2013 and forward) platforms. Designed to support installations that require 24/7 monitoring of the connected loudspeakers – typically with fault detection within 45s. Please contact support.empowertribe.com for more information.
- *[LC]* The 'Please wait' screen is now present on the front panel of the device when 'Use Data In Processor' is selected in the LC at an Out Of Sync situation and when Frame Replace and Batch Replace is done.
- *[LC]* The different configuration options available in the left side of I/O Config is now evenly spread out covering the whole screen height for all different products.
- *[LC]* Analyzer Integration with SysTune from AFMG (please contact AFMG for more information).
- *[LC]* The 'Digswitch' options have had an overhaul and now has options to set all four different prioritizations or Auto.
- *[LC]* With a Dante Receiver active in the Input Router, the ChannelLabel@DeviceName will be displayed below the slider in the Input Mixer, as well as channel nr has been added for AES and Analog inputs.
- *[LC]* The previous auto-enabled 'netfix' has now been removed. Is still available as an optional command-line 'netfix'. See Lake Controller Operation Manual for more information.
- *[LC]* When a Use Data In Computer (UDIC) is done, audio is muted during the whole operation, and the 'Please wait' screen is displayed on the processors that new data is sent to.
- *[PM]* The Frame Preset lock functionality has been updated, and now the lock will be active as long as the Frame has a Frame Password.
- *[Updater]* The updater now updates all selected frames simultaneously; making a firmware update of many devices go a lot faster compared to all being updated one by one.
- *[Updater]* It's now possible to highlight (ping/Me) specific frames in the Updater as well, just as in the Lake Controller by pressing the same button on the front panel.
- *[Installer]* The Installer creates a new Documentation folder on the start menu shortcut, and the Support forum link, links to the all-new online Support forum.
- *[Doc]* Updated documentation.

Issues corrected

- *[LC]* Fixed an issue where hide of Aux tabs didn't work in different situations. (J#3989)
- *[LC]* Fixed an issue where the devices could go Out of Sync in the Lake Controller when the Input Router Mutes where changed from the front panel of the device. (J#3859)
- *[LC, PLM, LM]* Fixed an issue where the Lake Controller would be slow and unresponsive when connected to a large network or PLM and LM Series devices running Dual Redundant with Primary and Secondary network connected in DHCP configuration.
- *[LC]* Groups will no longer display errors on work area for frames on scroll-bar.

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- *[LC]* Fixed an issue where module Out of Sync situations due to Group EQ differences, didn't sync properly between processors and computer.
- *[LC - Dante]* Fixed the issue with the Controller not always displaying the channels found on the network. (J#1545)
- *[LC]* It now works to recall System files with FixedIP settings or similar.
    - *Note*: A system file recall will not change the IP configuration in the affected frames. IP settings can only be changed from the Technical Data.
- *[LC]* The Global Power indicator is now updated in real time also for a system of only LM devices.
- *[LC]* Fixed an issues where the Events & Control button on Levels view was disabled when DSP channel 1 was named to 'unused' in Designer Mode.
- *[LC]* Fixed an issue where the Controller would unexpectedly close down if more than 200 Dante channels were available on the network.
- *[LC]* Fixed an issue in the Events & Control where it was necessary to press the Power Control twice to get the action.
- *[LC]* Fixed so that no corrupt characters are present in the Network Selection scroll-bar.
    - *Note:* Only the characters set for the langue of the Windows installation will be presented correct.
- *[LC]* Fixed an issue so it's now possible to change network adapter (NIC) from within LC between NIC configured with a IP-address for the Primary network to a second NIC connected to the Secondary network with and IP range of 172.31.x.x (needed for the LC to work on Secondary network). Useful when running Dual Redundancy and want to be able to switch the Lake Control traffic to the Secondary interface.
- *[LC]* The Batch Replace window now only displays the devices that is valid to select.
- *[LC]* Stability fixes for the Analyzer integration.
- *[LC]* Various stability improvements where various unintended close downs have been fixed.
    - *For example*: it is now possible to lock the computer and unlock with the Controller running.
- *[LC]* Fixed an issue where the Controller removed the Dante subscriptions on repeated OOS situations.
- *[LC]* Fixed an issue where an Out of Sync situation due to different module programs (CL3way, 3aux etc.) between the Lake Controller and Processor could fail to set the Xover correctly if 'Use Data on Processor' was selected.
- *[PLM, LM – Dante]* The previous issue where some devices would not start to subscribe to certain channels on the network is fixed. (J#2485)
- *[PLM]* A PLM factory reset will no longer affect or disrupt audio on the rest of the Dante system.
- *[LM]* Fixed an issue that caused Latency Match not to work properly when Input routers 5-8 were used for LM Mesa.
- *[PLM, LM]* Fixed so that the front panel mute indications are updated correct when changed with DLM commands. (J#1571)
- *[PLM]* Fixed an issue were the frame would not update if it was updated to latest firmware directly from an very old (for example update a PLM with 2.17 to 2.91).
- *[Updater]* Fixed an issue where the devices after update would come up with 0.00. (J#3971)
- *[PM]* Fixed a memory leak in the Preset Manager which could make it crash when many presets where transferred in the same session.
- *[MY8]* Fixed an issue where the MY8-LAKE had compatibility issues with a certain brand of switch.

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Patch Release v6.0 build 003 – Installer 50 – 2013-04-05

Component	Version	New in 6.0	Comment
Installer	50	X	
Lake Controller	v6.0 build 003	X	New in Installer 50
PLM Series Firmware	Bundle 00.03.01	X	New in Installer 50
DSP	3.01	X	
FPGA	41		
Front	1.7.0		
Amp	0.14.5, PSU	X	
Dante	2.2.13		
PLM Series downgrade bundle	Bundle 00.02.75		See separate instruction section.
PLM Safe Mode Image	0.03 (labeled 99.03)		See installation instructions section.
LM Series Firmware	Bundle 00.01.09	X	New in Installer 47
DSP	1.09	X	
FPGA	88		
Front	2.0.0		
Dante	2.2.17	X	
LM Safe Mode Image	0.02 (labeled 99.02)		See installation instructions section.
MY8-LAKE Firmware	Bundle 00.02.36	X	New in Installer 50
ARM	2.36	X	
DSP	R6019	X	
FPGA	R6041	X	
Lake Firmware Update Utilities	2.0.0.16	X	
Preset Manager Utilities			
PLM Series	1.0.99.0		
LM Series	1.0.92.0		
Analyzer Integration			
SMAART	1.0	X	
Live-Capture	1.0	X	
LoadLibrary™	2.8	X	See separate release note.
Bonjour	2.0.2.0		Received from Apple Inc.
Documentation operation			
Lake Controller Op. Man.	1.3.6	X	
PLM Series Operation Manual	1.3.0	X	
LM Series Operation Manual	1.3.0	X	
MY8-LAKE Owner's manual	1.0	X	

Issues corrected

- *[LC, LM, PLM]* Most scenarios where FastSync is expected are now working. Works just as good as in v5.8.
- *[LC]* Fixed message of 'Processor turned on' during LoadLast on large system. (J#3786)
- *[MY8]* Improved the MY8-LAKE fix in Installer 46 with better error handling.

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Patch Release v6.0 build 002 – Installer 49 – 2012-11-13

Component	Version	New	Comment
Installer	49	X	
Lake Controller	v6.0 build 002	X	New in Installer 47.
PLM Series Firmware	Bundle 00.03.00		New in Installer 49.
DSP	3.00		
FPGA	41		
Front	1.7.0		
Amp	0.14.3, PSU		
Dante	2.2.13		
PLM Series downgrade bundle	Bundle 00.02.75		See separate instruction section.
PLM Safe Mode Image	0.03		See installation instructions section.
LM Series Firmware	Bundle 00.01.09	X	New in Installer 47.
DSP	1.09	X	
FPGA	88		
Front	2.0.0		
Dante	2.2.17	X	
LM Safe Mode Image	0.02		See installation instructions section.
MY8-LAKE Firmware	Bundle 00.02.32	X	New in Installer 47.
ARM	2.32	X	
DSP	R6019	X	
FPGA	R6041	X	
Lake Firmware Update Utilities	2.0.0.16	X	
Preset Manager Utilities			
PLM Series	1.0.99.0		
LM Series	1.0.92.0		
Analyzer Integration			
SMAART	1.0	X	
Live-Capture	1.0	X	
LoadLibrary™	2.8	X	See separate release note.
Bonjour	2.0.2.0		Received from Apple Inc.
Documentation operation			
Lake Controller Op. Man.	1.3.6	X	
PLM Series Operation Manual	1.3.0	X	
LM Series Operation Manual	1.3.0	X	
MY8-LAKE Owner's manual	1.0	X	

New functionality

- *[PLM]* New PLM firmware bundle to support PLM 10000Q with BSPID 4.
- *[PLM]* BSPID is shown in the Front panel menu of 'FW Version'.

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Patch Release v6.0 build 002 –Installer 47 – 2012-09-06

Component	Version	New	Comment
Installer	47	X	
Lake Controller	v6.0 build 002	X	New in Installer 47.
PLM Series Firmware DSP FPGA Front Amp Dante	Bundle 00.02.96 2.96 41 1.6.3 0.14.2, PSU 2.2.13		
PLM Series downgrade bundle	Bundle 00.02.75		See separate instruction section.
PLM Safe Mode Image	0.03 (labeled 99.03)		See installation instructions section.
LM Series Firmware DSP FPGA Front Dante	Bundle 00.01.09 1.09 88 2.0.0 2.2.17	X X X	New in Installer 47.
LM Safe Mode Image	0.02 (labeled 99.02)		See installation instructions section.
MY8-LAKE Firmware ARM DSP FPGA	Bundle 00.02.32 2.32 R6019 R6041	X X X X	New in Installer 47.
Lake Firmware Update Utilities	2.0.0.16	X	
Preset Manager Utilities PLM Series LM Series	 1.0.99.0 1.0.92.0		
Analyzer Integration SMAART Live-Capture	 1.0 1.0	 X X	
LoadLibrary™	2.8	X	See separate release note.
Bonjour	2.0.2.0		Received from Apple Inc.
Documentation operation Lake Controller Op. Man. PLM Series Operation Manual LM Series Operation Manual MY8-LAKE Owner's manual	 1.3.6 1.3.0 1.3.0 1.0	 X X X X	

Issues corrected

- *[LM]* Fixed issue with incorrect MAC address on the Secondary interface when running the device with Dual Redundancy.
- *[LM - Dante]* Fixed issue with LM Series sometimes had glitches on Dante audio when the LM Series device was Dante transmitter and used in AUTO or UNICAST mode in a Dual Redundant configuration.
- *[LC]* Fixed an issue with Aux4, 5 and 6 modules, that could cause the Controller to enter never ending re-sync states or unintentionally close the Controller on startup.
- *[MY8]* Improved the MY8-LAKE fix in Installer 46 with better error handling.

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Patch Release v6.0 build 001 – Installer 46 – 2012-08-06

Component	Version	New	Comment
Installer	46	X	
Lake Controller	v6.0 build 001	X	
PLM Series Firmware DSP FPGA Front Amp Dante	Bundle 00.02.96 2.96 41 1.6.3 0.14.2, PSU 2.2.13		
PLM Series downgrade bundle	Bundle 00.02.75		See separate instruction section.
PLM Safe Mode Image	0.03 (labeled 99.03)		See installation instructions section.
LM Series Firmware DSP FPGA Front Dante	Bundle 00.01.06 1.06 88 2.0.0 2.2.16	X X	
LM Safe Mode Image	0.02 (labeled 99.02)		See installation instructions section.
MY8-LAKE Firmware ARM DSP FPGA	Bundle 00.02.31 2.31 R6019 R6041	X X X X	New in Installer 46.
Lake Firmware Update Utilities	2.0.0.16	X	
Preset Manager Utilities PLM Series LM Series	 1.0.99.0 1.0.92.0		
Analyzer Integration SMAART Live-Capture	 1.0 1.0	 X X	
LoadLibrary™	2.8	X	See separate release note.
Bonjour	2.0.2.0		Received from Apple Inc.
Documentation operation Lake Controller Op. Man. PLM Series Operation Manual LM Series Operation Manual MY8-LAKE Owner's manual	 1.3.6 1.3.0 1.3.0 1.0	 X X X X	

Issues corrected

- *[MY8]* Fixed issue causing the MY8-LAKE card to occasionally perform a series of reboots at power-on with the Ethernet cable inserted.

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Release v6.0 build 001 – Installer 45 – 2012-07-13

Component	Version	New	Comment
Installer	45	X	
Lake Controller	v6.0 build 001	X	
PLM Series Firmware DSP FPGA Front Amp Dante	Bundle 00.02.96 2.96 41 1.6.3 0.14.2, PSU 2.2.13		
PLM Series downgrade bundle	Bundle 00.02.75		See separate instruction section.
PLM Safe Mode Image	0.03 (labeled 99.03)		See installation instructions section.
LM Series Firmware DSP FPGA Front Dante	Bundle 00.01.06 1.06 88 2.0.0 2.2.16	X X	
LM Safe Mode Image	0.02 (labeled 99.02)		See installation instructions section.
MY8-LAKE Firmware ARM DSP FPGA	Bundle 00.02.30 2.30 R6019 R6041	X X X X	
Lake Firmware Update Utilities	2.0.0.16	X	
Preset Manager Utilities PLM Series LM Series	 1.0.99.0 1.0.92.0		
Analyzer Integration SMAART Live-Capture	 1.0 1.0	 X X	
LoadLibrary™	2.8	X	See separate release note.
Bonjour	2.0.2.0		Received from Apple Inc.
Documentation operation Lake Controller Op. Man. PLM Series Operation Manual LM Series Operation Manual MY8-LAKE Owner's manual	 1.3.6 1.3.0 1.3.0 1.0	 X X X X	

Compatibility

The version 6 Lake Controller does work with the PLM, LM Series and MY8-LAKE devices.
The minimum required firmware for each device is:

- PLM Series 2.91 (recommended to update to the included 2.96)
- LM Series 1.03 (recommended to update to the included 1.06)
- MY8-LAKE 2.30

DLP, Contour and MESA devices are no longer supported in the Lake Controller. If these devices are required, please use the latest Lake Controller from the v5 branch.

New functionality in v6

- *[LC, MY8]* Support for the all new Yamaha MY8-LAKE Mini-YGDAI expansion cards.
  - New virtual files added for MY8-LAKE 4x Contour modules, 2x Contour & 4x Mesa modules and 8x Mesa modules.
- *[Updater, MY8]* New selection for the MY8-LAKE in the Lake Update Utility.

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- *[LC]* Lake Controller performance in Windows 7 has been significantly improved and the Controller should be a lot more responsive when running on a Windows 7 machine. This requires that the GPU drivers used are the latest supplied by the manufacturer.
    - *Note:* If graphical issues and slow performance is experienced you will require to update the GPU drivers. Consult your GPU manufactures website for the latest drivers.
        - The manufactures drivers are updated more frequent than the driver update possible in the *Device Manager* under *Display adapter* and *Drivers* tab in the n Windows 7. For further information consult Windows and your GPU driver manufacturer.
- *[LC]* Full integration with both Smaart 7 and WaveCapture's Live-Capture. The new plug-in support allows measurement traces from either platform to be shown directly within Lake Controller, without any need for the former Analyzer Bridge (now removed).
- *[LC]* System Recall and the option to 'Use Data In Computer' at an Out Of Sync (OOS) situation has now been parallelized and will only use a fraction of the time formerly needed.
- *[LC]* Greatly improved performance for large system networks, all former issues of status bar messages error 8, 14 and 1158 and the Windows resource being exhausted is no longer an issue.
    - *Note:* When operating a large system of devices, please use a computer with specifications above the minimum requirements. (J#708, J#660, J#861)
    - *Known issue:* Fast sync does not work in all expected scenarios, making the synchronization phase take a bit longer than normal.
- *[LC]* More features have been enabled when Multiple Controller is used, on both Primary and Secondary Controller and the general quality level and stability has been elevated. The new features available are Solo/Mute and Frame Replace.
    - *Note:* Unfortunately there are still a number of issues on the Multiple Controller feature and is only recommended to use with special attention. Also, note that the following Faults & Warnings are not represented on the Secondary Controller, *No Input* & *Clock Slipping.*
- *[LC]* Improved how Group EQ changes are transmitted to the devices, so that it will send a lot quicker to all assigned modules making the actual sound experience reflect the EQ change on the screen a lot better.
- *[LC]* All frames are now managed as one frame, this will make devices with more than 2 modules sync quicker and will eliminate former issues where 'half' multi module devices could go offline.
- *[LC]* File name sorting has been updated so that files are sorted in the same way as windows, meaning that '10' will now be after 9, instead as previously being sorted after 1.
    - If you would like to sort a file in the end, please use the tilde '~' character.
- *[LC]* Improved the device discovery process when the Controller is started on a network with lots of Lake devices.
- *[LC]* New design on the Lake Controller v6 splash screen.
- *[LC]* Removed all support and references to the Dolby Lake Processor, Contour Pro 26 and Mesa Quad EQ.
- *[Doc]* Updated documentation.

Issues corrected

- *[LC]* Fixed an issue with Use Data In Processor (UDIP) where Group EQ parameters had an improper and unexpected 'push to processor' effect on other processors that were out of sync due to another value on a specific filter.
- *[LC]* Fixed lots of issues with PEQ and GEQ filters that could get lost and synced away. (J#1201, J#1207)
- *[LC]* Fixed numerous unintended Lake Controller close downs (crashes) and freezes.
    - *Note:* If a crash occurs, please locate the file *Lake Controller-'Version'-'Date'-'Clock'-'nr'.dmp* file in the Logs folder and send it to support.empowertribe.com including a system file (.csc) along with information on the current system setup. This will help us find the issue and fix it for a later release.
- *[LC]* Fixed many scenarios where the Lake Controller was impossible to maximize after a minimize in both Windows 7 and XP.
- *[LC]* Frames added to work area after a secondary Controller has been disconnected does now show up on secondary Controller after a re-connect as the system will be sent again to the Secondary Controller. (J#1316)
- *[LC]* Recall Compare does not alter the input mute indications. (J#1163)

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- *[LC]* Fixed an issue that any Designer Mode tab moved to left in I/O Config was re-named to I/O Config.
- *[LC]* Fixed lots of issues with A/B Mode.
- *[LC]* Fixed so that Windows file attributes are updated correct when storing new system files from the Lake Controller.
- *[LC]* Fixed an issue where the Lake Controller could crash when a Dante channel was routed in the input router.
- *[LC]* Fixed an issue where renaming a Mesa module file from within LC would make it corrupt.
- *[LC]* Removed the incorrect Digswitch control on Secondary Controller.
- *[LC]* Fixed so that the Global Power control for PLM and LM Series devices also works on Secondary Controller.
    - *Note:* When powering on a large system, Secondary and Primary Controller can lose each other and a full sync between them will be initiated.
- *[LC]* Fixed an issue so that a dot (‘.’) in the Frame Label will no longer do a word-wrap in Frame Name column in Batch replace window.
- *[Updater]* Fixed an issue where the Lake Update Utility could crash if the newly updated frames were power cycled with the Updater still connected.

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Patch Release v5.8 build 011 – Installer 44 – 2012-06-14

Component	Version	New	Comment
Installer	44	X	
Lake Controller	v5.8 build 011		
PLM Series Firmware DSP FPGA Front Amp Dante	Bundle 00.02.96 00.02.96 41 1.6.3 0.14.2, PSU 2.2.13		
PLM Series downgrade bundle	Bundle 00.02.75		See separate instruction section.
PLM Safe Mode Image	0.03 (labeled 99.03)		See installation instructions section.
LM Series Firmware DSP FPGA Front Dante	Bundle 00.01.05 1.05 88 2.0.0 2.2.16		Same firmware for both LM 26 and LM 44.
LM Safe Mode Image	0.02 (labeled 99.02)		See installation instructions section.
Legacy Product Firmware Dolby Lake Processor Lake Contour Lake Mesa	 1.50.53 4.16.34 4.21.28		 Received from Dolby Received from Dolby Received from Dolby
Firmware Update Utilities Lake (PLM and LM Series) Dolby Lake Processor Lake Contour Mesa	 2.0.0.14 2.0.0.3 1.0.0.8 1.0.0.8		
Preset Manager Utilities PLM Series LM Series Dolby Lake Processor Lake Contour Mesa	 1.0.99.0 1.0.92.0 1.0.72.0 1.0.72.0 1.0.72.0	X	New since Installer 42
LoadLibrary™	2.7		See separate release note.
Bonjour	2.0.2.0		Received from Apple Inc.
Documentation operation Lake Controller Op. Man PLM Series Operation Manual LM Series Operation Manual	 1.3.2 1.2.3 1.2.8		

Issues corrected

- *[PM - PLM]* Fixed an issue where the PLM Preset Manager in the last release didn't convert frame preset and frame presets bank files correctly, resulted in corrupt frame preset functionality. This is now fixed with PLM Preset Manager 1.0.99.0.
    - All frame presets transferred to a PLM device with Preset Manager 1.0.96.0 are corrupt, and a Factory Reset must be performed (see PLM Operations Manual).
    - Frame preset bank files created in PLM Preset Manager 1.0.96.0 can't be restored and are blocked from further use. Use PLM Preset Manager 1.0.99.0 directly on your backup file and create new frame preset bank files with 1.0.99.0.

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Patch Release v5.8 build 011 – Installer 42 – 2012-05-16

Component	Version	New	Comment
Installer	42	X	
Lake Controller	v5.8 build 011	X	
PLM Series Firmware DSP FPGA Front Amp Dante	Bundle 00.02.96 00.02.96 41 1.6.3 0.14.2, PSU 2.2.13	X X X	
PLM Series downgrade bundle	Bundle 00.02.75		See separate instruction section.
PLM Safe Mode Image	0.03 (labeled 99.03)		See installation instructions section.
LM Series Firmware DSP FPGA Front Dante	Bundle 00.01.05 1.05 88 2.0.0 2.2.16	X X	Same firmware for both LM 26 and LM 44.
LM Safe Mode Image	0.02 (labeled 99.02)		See installation instructions section.
Legacy Product Firmware Dolby Lake Processor Lake Contour Lake Mesa	 1.50.53 4.16.34 4.21.28		 Received from Dolby Received from Dolby Received from Dolby
Firmware Update Utilities Lake (PLM and LM Series) Dolby Lake Processor Lake Contour Mesa	 2.0.0.14 2.0.0.3 1.0.0.8 1.0.0.8		
Preset Manager Utilities PLM Series LM Series Dolby Lake Processor Lake Contour Mesa	 1.0.96.0 1.0.92.0 1.0.72.0 1.0.72.0 1.0.72.0		
LoadLibrary™	2.7	X	See separate release note.
Bonjour	2.0.2.0		Received from Apple Inc.
Documentation operation Lake Controller Op. Man PLM Series Operation Manual LM Series Operation Manual	 1.3.2 1.2.3 1.2.8		

New functionality

- *[LC, PLM]* Increased the LoadSmart maximum configurable cable length to 1000 meters.
- *[PLM]* Ability to by a DLM command disable the 'Load not Verified' warning on the PLM front panel and Lake Controller otherwise displayed every time the PLM frame is restarted.
    - *Note:* This is done with a DLM command available from DLM protocol v2.9

Issues corrected

- *[LM]* Fixed an issue for the LM 26 so it now can pass-through all four available Dante channels when bypassing module processing.
- *[LM]* Please note that the analog output relays switch (click noise on boot-up) is delayed due to re-ordered boot-up sequence.
- *[LM]* Fixed an issue with some frames not being able to boot-up after a short loss of power. (J#2727)

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- *[LC]* Fixed an issue where group EQ filters could be accidentally removed when performing synchronization operations.
- *[LC]* Fixed an issue where adding new Mesa frames to older system files corrupted the newly added frame. (J#2821)
- *[LC]* Fixed several scenarios where system recall or virtual sub system recall etc. could change the identity of a PLM 20000Q to be identified as a PLM 10000Q and PLM 14000.
- *[LC]* Fixed an issue where a frame could disappear in specific scenarios and create an invisible module (ghost module).
- *[LC]* Fixed an issue with group mute mismatching states in multiple Controller scenarios.
- *[LC]* Fixed an issue with group mute mismatches on virtual/offline frames and the indication on work area.
- *[LC]* Implemented creation of crash dumps in the event of a Controller crash. The Controller will now attempt to create a crash dump itself and place it in the 'logs' directory. This works for both Windows 7 as well as Windows XP.
    - *Note:* If a crash occurs, please locate the file *Lake Controller-'Version'-'Date'-'Clock'-'nr'.dmp* file in the Logs folder and send it to support.empowertribe.com including a system file (.csc) along with information on the current system setup.
- *[LC]* Fixed an issue where some computer had a 'slowness' issue, making all interactions in Lake Controller slow and in-responsive.
- *[LC]* Search field for Dante channel label search now working correctly.
- *[LC]* Fixed an issue with crossovers on cl3way+1aux that would not regenerate correctly
- *[LC*] Fixed a problem with mixer data not being copied correctly for a LP4way/CL6way or 6aux module, resulting in an OOS situation.
- *[LC]* Fixed a problem with copy/pasting CL6way where output channel 5 would be unrouted.
- *[PLM, LM]* Fixed a problem with DHCP assignment in Auto DHCP/Auto - Zero Conf. cooperation mode. The IP address is now removed from the interface when AutoIP is stopped.
- *[PLM, LM]* IP address from a DHCP server will now be correctly assigned to the PLM and used by PLM and LM series Lake products when connected to primary network.
- *[PLM]* Fixed a timing issue that very rarely could set an incorrect ISVPL threshold on System Recall.
- *[Installer]* The LoadLibrary module files are now also stored in the Virtual Store directory for Windows 7. Please use the 'User Data Files' shortcut on Start menu.
- *[Installer]* All documents are now located in a separate Documentation folder in the installed directory.

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Release v5.8 build 005 – Installer 39 – 2011-09-05

Component	Version	New	Comment
Installer	39	X	
Lake Controller	v5.8 build 005	X	
PLM Series Firmware DSP FPGA Front Amp Dante	Bundle 00.02.91 00.02.91 41 1.6.0 0.14.2, PSU 2.2.13		
PLM Series downgrade bundle	Bundle 00.02.75		See separate instruction section.
PLM Safe Mode Image	0.03 (labeled 99.03)		See installation instructions section.
LM Series Firmware DSP FPGA Front Dante	Bundle 00.01.00 1.00 88 2.0.0 2.2.16	X X X X X	Same firmware for both LM 26 and LM 44.
LM Safe Mode Image	0.02 (labeled 99.02)		See installation instructions section.
Legacy Product Firmware Dolby Lake Processor Lake Contour Lake Mesa	 1.50.53 4.16.34 4.21.28		 Received from Dolby Received from Dolby Received from Dolby
Firmware Update Utilities Lake (PLM and LM Series) Dolby Lake Processor Lake Contour Mesa	 2.0.0.12 2.0.0.3 1.0.0.8 1.0.0.8	 X	
Preset Manager Utilities PLM Series LM Series Dolby Lake Processor Lake Contour Mesa	 1.0.95.0 1.0.91.0 1.0.72.0 1.0.72.0 1.0.72.0	 X X	
LoadLibrary™	2.6		See separate release note.
Bonjour	2.0.2.0		Received from Apple Inc.
Documentation operation Lake Controller Op. Man PLM Series Operation Manual LM Series Operation Manual	 1.3.2 1.2.3 1.2.8	 X X	

New functionality

- *[LM, LC]* The all new Lake processor, LM 44 is extending the LM range creating the LM Series together with LM 26. The LM 44 and LM 26 use the same included LM Series firmware bundle.
    - Virtual files of LM 26 Mesa, LM 44 Contour and LM 44 Mesa are available in the Controller.
- *[Updater]* The updater now has an option for LM Series.
- *[LM, LC]* Mesa Mode is now available for both the LM 44 and the LM 26. This is a 4 module configuration making the processor ideal for system EQ.
    - *To change frame configuration:* Change between Mesa- and Contour mode can be done from the Frame Config menu of the Lake Controller or from the front panel (Menu>Frame>Frame Rst). Default on factory reset;
        - LM 44 is in Mesa
        - LM 26 is in Contour

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- *[LM] The* front panel LED meters and Mute buttons will now change function depending on what view the front panel display is put in. When the display is in module meter views, the LED meters and mute buttons represent module inputs and outputs (divided by the illuminated bar). When the display is in I/O status view the LED meters and mute button represent the 8 input routers.
- *[LM, LC]* The 'No input' fault is displayed for a module if an input router that is activated in the modules input mixer is lacking a valid input e.g. configured for AES but no valid clock found.
    - 'No Input' is now displayed directly on work area instead of 'Frame fault'.
- *[LM, LC]* The 'Device input', 'physical input mute', 'input mute' has consistently been renamed to 'Input router mute'.
- *[LM, LC]* The 'Input router mute' fault is only displayed if all input routers activated in the input mixer to a module is 'input router muted'.
    - Front panel note: The module input mute button is pink if at least one of that modules activated input routers are muted. If all activated input routers are muted the mute button is red.
    - *LC note:* On Work Area, the module icon will not be red until all activated input routers are 'input router muted'.
        - *Note:* On ALL page, it is still indicated as 'In router mute' when any Input router mute is used to that module.
- *[PM]* Added option in the LM Preset Manager for LM 44.

Issues corrected

- *[LM]* AES inputs and outputs that lock to the SRC clock will now have the input and output clock phase aligned. (J#2253)
- *[LC]* Fixed an issue with module B being moved from any page/place to be beside module A when the frame went out of sync.
- *[LC]* The display issue where activating Dante on a LM 26 caused the SRC digital clock to slip has been fixed.
- *[LM]* The issue where adding AES input ch 3+4 would not be valid as Dante clock Master has been fixed.
- *[PLM & LC]* User interface does not synchronize front panel changes when the Controller is on the Module B levels page. (J#585)
- *[LC]* Loading or adding virtual frames to an offline system does no longer replace the already existing frames.
- *[LC]* The unusual state where modules has disappeared creating 'ghost's' has been fixed.
- *[LC]* There is not any problems to use the CL3way+1aux module and Super Modules anymore as the 1aux channel now is displayed in the Super Module routing view.
- *[LC]* W and w has been added to the list of allowed Dante channel labels.
- *[LC]* The erroneous LimiterMax threshold info that was available on the status bar for FIR modules has been removed.
- *[LC]* Fixed an issue where certain Linear Phase module files could not be loaded correct.
- *[LM]* Added the missing zeroes to the MAC address that can be viewed from the front panel.
- *[LC]* Fixed an issue with assigning LP2way+1aux modules to a Super Module where it was impossible to assign a second module.

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Patch Release v5.7 build 011 – Installer 38 – 2011-07-08

Component	Version	New	Comment
Installer	38	X	**New since Installer 37**
Lake Controller	v5.7 build 011	X	New since Installer 37
PLM Series Firmware	Bundle 00.02.91	X	
DSP	00.02.91	X	
FPGA	41		
Front	1.6.0		
Amp	0.14.2, PSU	X	
Dante	2.2.13		
PLM Series downgrade bundle	Bundle 00.02.75		See separate instruction section.
PLM Safe Mode Image	0.03 (labeled 99.03)		See installation instructions section.
LM 26 Firmware	Bundle 00.00.39	X	New since Installer 37
DSP	0.39	X	
FPGA	89	X	
Front	1.0.3		
Dante	2.2.15	X	
LM Safe Mode Image	0.02 (labeled 99.02)		See installation instructions section.
Legacy Product Firmware			
Dolby Lake Processor	1.50.53		Received from Dolby
Lake Contour	4.16.34		Received from Dolby
Lake Mesa	4.21.28		Received from Dolby
Firmware Update Utilities			
Lake (PLM Series and LM 26)	2.0.0.9	X	
Dolby Lake Processor	2.0.0.3		
Lake Contour	1.0.0.8		
Mesa	1.0.0.8		
Preset Manager Utilities			
PLM Series	1.0.94.0	X	New since Installer 37
LM 26	1.0.90.4	X	
Dolby Lake Processor	1.0.72.0		
Lake Contour	1.0.72.0		
Mesa	1.0.72.0		
LoadLibrary™	2.6	X	See separate release note.
Bonjour	2.0.2.0		Received from Apple Inc.
Documentation operation			
Lake Controller Op. Man	1.2.8	X	
PLM Operation Manual	1.2.3		
LM 26 Operation Manual	1.2.3		

Issues corrected

- *[LM]* The channel misrouting issue after long term use has been corrected. (J#2015)
- *[LM]* Many issues with different glitches when LM 26 is used as a Dante transmitter has now been corrected. (J#2479)
    - There is still an issue if the LM 26 is used as a Dante transmitter, transmitting AUTO or UNICAST in a Dante Dual Redundancy configured system.
    - *Workaround:* Force all Dante outputs in use to MULTICAST on the transmitting LM 26 frame.
- *[LM]* There was a gain difference when using the LM 26 as a format converter and routing straight from an input to an output bypassing the DSP. Compared to routing via the DSP the straight route used to come out 5 dB lower in gain. Also the 12/26 dB headroom setting on analog inputs was not gain compensated on a straight route. This has all now been corrected.(J#2528)
    - *Note:* Be aware of when upgrading to this release on an existing system configuration one can experience a gain increase on existing straight routes:

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        - Dante input direct to Analog output will increase +5 dB.
- *[LM]* Fixed an issue where the signal would be corrupt if a Dante 48k signal was routed directly to an output, without passing the DSP.
- *[LC]* On Windows 7, if a port that was needed already was in use this would cause an unintentional Controller close directly upon startup with no further guidance. This will now display a correct error message. (J#2533)
- *[LC]* Improved communication between primary and secondary Controller in Multiple controller operation over WiFi for more stable and tougher connection (J#2558).
- *[LC]* Using FIR modules in a Super Module will now work without any out of sync issues. (J#2517)
- *[LC]* Improved error messages for Groups.
- *[LC]* Some users experienced a unintentional Controller close when the computer was locked, closing lid on laptop, screen saver started etc. This has been corrected for most scenarios. (J#2539)
    - *Note:* If this still is an issue, please contact the support and describe the scenario.
- *[LC]* Fixed many scenarios where the Controller would close unintentional when a DLP was connected to the network subsequently the Controller was started.
- *[LC]* The input mixer view now synchronizes in real time in the Lake Controller if the settings are changed on a LM 26 front panel. (J#1617)
- *[LC]* The input mixer control in the Lake Controller now remember the previous level when muted, and when un-muted it will go back to this level.
- *[LC]* The calculated LimiterMax values of MaxRMS- and MaxPeak-level, does now also include Amp Gain values for Super Modules including only PLM Series modules.
    - *Note:* If the Super Module contains modules from other hardware devices, the Amp Gain is not included, and would need to be manually calculated (by multiplying the displayed MaxRMS- and MaxPeak-level with the Amp Gain for that DSP channel).
- *[LC]* Solo Mode has been improved to not change color of the module in the Lake Controller before the confirmation is received from the frame confirming that the operation was successful.
- *[PM]* When a locked preset was recalled from the Preset Manager, this would cause the Preset Manager to halt, which now has been corrected. (J#2545)
- *[PM]* In some scenarios, locked preset bank file could be unlocked, and a non-intuitive error messages would be displayed. This has now been corrected. (J#2546)
- *[Installer]* If a previous Lake Controller installation was present on a Windows 7 environment, the compare Bonjour version function in the installer would produce an error message, this has now been corrected. (J#2525)
- *[Installer]* If a new installation was done, prior to un-installing the previous installation, this would prevent the un-installer for the previous installation to work correctly. This has now been corrected. (J#2543)

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Release v5.7 build 010 – Installer 37 – 2011-06-01

Component	Version	New	Comment
Installer	37	X	
Lake Controller	v5.7 build 010	X	
PLM Series Firmware	Bundle 00.02.91	X	
DSP	00.02.91	X	
FPGA	41		
Front	1.6.0		
Amp	0.14.2, PSU	X	
Dante	2.2.13		
PLM Series downgrade bundle	Bundle 00.02.75		Intermediate bundle for downgrade between this release and previous releases, please see separate instruction section.
PLM Safe Mode Image	0.03 (labeled 99.03)		See installation instructions section.
LM 26 Firmware	Bundle 00.00.37	X	
DSP	0.37	X	
FPGA	86	X	
Front	1.0.3		
Dante	2.2.14	X	
LM Safe Mode Image	0.02 (labeled 99.02)		See installation instructions section.
Legacy Product Firmware			
Dolby Lake Processor	1.50.53		Received from Dolby
Lake Contour	4.16.34		Received from Dolby
Lake Mesa	4.21.28		Received from Dolby
Firmware Update Utilities			
Lake (PLM Series and LM 26)	2.0.0.9	X	
Dolby Lake Processor	2.0.0.3		
Lake Contour	1.0.0.8		
Mesa	1.0.0.8		
Preset Manager Utilities			
PLM Series	1.0.93.0	X	
LM 26	1.0.90.4	X	
Dolby Lake Processor	1.0.72.0		
Lake Contour	1.0.72.0		
Mesa	1.0.72.0		
LoadLibrary™	2.6	X	See separate release note.
Bonjour	2.0.2.0		Received from Apple Inc.
Documentation operation			
Lake Controller Operation Man	1.2.8	X	
PLM Operation Manual	1.2.3		
LM 26 Operation Manual	1.2.3		

New functionality in v5.7

- *[LC, PLM]* The PLM series now supports EAW Focusing through direct recall of greybox files from within the Lake Controller. A greybox recall will start the new 'FIR' block program, and import all settings (including limiters etc) from the EAW greybox file (.gyx). The new FIR module is fully integrated into the Lake Controller and all system and frame operations are supported.
    - EAW greybox files can be downloaded from: *http://www.eaw.com/downloads/*
    - *Note*: Cannot recall greybox files with more than three channels. One FIR module takes up the processing power of both modules in a PLM.
        - A list of compatible greybox files is available in the Lake Controller directory, see the file *EAW Greybox - PLM Series Compatibility Chart.pdf*.
        - If a suitable greybox file can't be found there are several non-focused EAW presets in the LoadLibrary. For further assistance or enquiries please contact *support.empowertribe.com*.

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- *[LC]* Increased performance in Lake Controller when running on Windows 7, multicore processors or with high resolution screens.
- *[LC]* Improved Ping/'Select Me' highlighting on Work area (from front panel trig) to remain when changing between pages or all view.
- *[LC]* Floppy disk icon replaced with HDD icon as 'My computer' symbol.
- *[LC]* Added extended breaker information to the Breaker Emulation Limiter Configuration window.
- *[PLM]* It is now possible to transmit the power output Voltage and Current sense information out on the Dante output channels.
    - *Note:* New 3rd party control protocol, DLM v2.8, released. Please contact support.empowertribe.com for more information.
- *[LC, PM, Updater]* The applications are now certified by Lab.gruppen AB, and Publisher is changed from *Lake* to *Lab.gruppen AB*.
- *[LoadLibrary]* New LoadLibrary v2.6.

Issues corrected

- *[LM]* An issue where some LM 26 frames after long time of operation sometimes could stop to receive Dante signals or get offline in the Lake Controller has been corrected.
- *[LM]* An issue where Dante output channels could get miss routed after power cycle has been corrected.
- *[LM]* Clock configuration is updated and it is now possible to reliably use the SRC and Primary clock, both locked to different phase base48k signals.
- *[LM, PLM]* DHCP configuration on primary port is now also supported when Dante Dual Redundancy is activated.
- *[LC]* Faster synchronization due to correct checksum calculation in more scenarios.
- *[LC]* Maximum group label is now 30 characters.
- *[LC]* Fixed the wrong calculation of Vpk for MaxPeak Level of the LimiterMax.
- *[LC]* Improved performance when changing Work area pages with meter icons on modules.
- *[LC]* Fast meters for Secondary Controller on Levels page.
- *[LC]* Fast meters for Secondary Controller on Status tab in Events&Control.
- *[LC]* The info text '*Only applicable for certain PLM models*' referring to that Mains log information only applies for PLM 20000Q amplifiers no longer stays when changing tab.
- *[LC]* CL6way is now possible to recall correct again.
- *[LC]* LP4way now has correct mute button on low channel and gain sliders.
- *[LC]* Fixed an issue where the Controller sometimes could halt on exit due to trying to store system data for modules no longer on the network.
- *[LC]* Changed drawing of 'Please wait' so that it now works in *emulation mode*.
- *[LC]* Minimize and maximize now works in *emulation mode*.
- *[LC]* Fixed splash screen now works in *emulation mode*.
- *[LC]* Fixed missing mute button for the AUX channel for the LP4way module in the Meters view.
- *[LC]* it is now possible to have many modules on work area when enabling Dante without any unintentional Controller close during Dante input configuration.
- *[LC]* Multiple Controllers works for systems up to 250 modules.
- *[LC]* If a system file with lost/duplicated GEQ filters for a group is recalled, it will give attention to which groups that has the issue, and also give an option adding new default filters.
- *[LC]* Fixed a unintentional Controller close if the Batch replace window was opened without any offline or virtual modules on work area.
- *[LC]* Fixed the sorting on All-page after a Recall Last System Configuration.
- *[PM (PLM)]* Updated and enhanced error messages.
- *[PM (PLM & LM)]* When PLM or LM Preset Manager is closed on the top right 'X', it is now closing the application correct.
- *[Installer]* The migration option in the Installer is removed due to user misunderstandings.

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Release v5.6 build 008 – Installer 36 – 2010-11-16

Component	Version	New in 5.6	Comment
Installer	36	X	
Lake Controller	v5.6 build 008	X	
PLM Series Firmware	Bundle 00.02.78	X	
DSP	00.02.78	X	
FPGA	41		
Front	1.6.0	X	
Amp	0.14.0, PSU	X	
Dante	2.2.13		
PLM Series downgrade bundle	Bundle 00.02.75	X	Intermediate bundle for downgrade between this release and previous releases, please see separate instruction section.
PLM Safe Mode Image	0.03 (labeled 99.03)		See installation instructions section.
LM 26 Firmware	Bundle 00.00.34	X	
DSP	0.34	X	
FPGA	84		
Front	1.0.3	X	
Dante	2.2.12		
LM Safe Mode Image	0.02 (labeled 99.02)		See installation instructions section.
Legacy Product Firmware			
Dolby Lake Processor	1.50.53	X	Received from Dolby
Lake Contour	4.16.34		Received from Dolby
Lake Mesa	4.21.28		Received from Dolby
Firmware Update Utilities			
Lake	2.0.0.6	X	Selection for PLM Series or LM 26
Dolby Lake Processor	2.0.0.3		
Lake Contour	1.0.0.8		
Mesa	1.0.0.8		
Preset Manager Utilities			
PLM Series	1.0.92.0	X	New since Installer 35
LM 26	1.0.90.3	X	
Dolby Lake Processor	1.0.72.0		
Lake Contour	1.0.72.0		
Mesa	1.0.72.0		
LoadLibrary™	2.4	X	See separate release note.
Bonjour	2.0.2.0	X	Received from Apple Inc.
Documentation operation			
Lake Controller Operation Man	1.2.5	X	
PLM Operation Manual	1.2.3	X	
LM 26 Operation Manual	1.2.3	X	

New functionality

- *[PLM, LM & LC]* Most of the communication between PLM Series and LM 26 devices and the Controller has been converted from UDP Broadcast to UDP Unicast, resulting in far less traffic on the network. This improves performance using the Lake Controller over Wi-Fi access points.
- *[PLM & LC]* Bridge Mode configuration for all PLM Series models are added!
    - ISVPL configuration now extends the upper configuration to 600 V to incorporate for the double voltage of a bridge channel.
        - *Note*: The '**Level limits**' available on the Control tab (in Designer mode) in the Events & Control of the Controller will need to be extended if this has a lower limit set.
    - IMPORTANT: When Bridge Mode is activated, CLASS 3 WIRING is required.

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- *[PLM & LC]* Enhanced faults and warnings indications for PLM 20000Q. See PLM Series Operation Manual for full details.
- *[PLM & LC]* Digital clock slipping indication added on work area for PLM Series, LM 26 and the Dolby Lake Processor (DLP). For PLM it is also added in Status tab and on front panel.
- *[PLM]* Dante Clock master front panel indication added in the lower left corner of home view.
- *[PLM]* After a complete firmware upgraded it is prompted to cycle mains power to complete the firmware upgrade on the front panel.
- *[PM]* Added support for PLM 20000Q in Preset Manager.
- *[LC]* Added an illegal Dante channel name block. This will only allow standard a to z, capital and lower case letters and 1 to 9 complemented by '-'. This due to the former ability to use illegal characters without a proper warning and having issues with assigning Dante channels.
- *[PLM]* Added a PSU temperature warning.
- *[PLM]* Added a DSP area temperature warning, and the DSP area temperature will also influence the fan speed.
    - *Note:* DSP area temp fault will from here on not mute audio, but continued operation without improved air ventilation is not recommended.
- *[PLM & LC]* The Mains Current Limiter has been renamed to Breaker Emulation Limiter Configuration.
    - *Also:* Fuse selector -> Breaker characteristics, Slow characteristic -> Universal characteristic.
- *[LC]* Improved error message if the UDP port 6004 already is in use by another program and the Lake Controller is unable to start.
- *[LC]* Removed the confusing 'AUX' string from the 'Input router' selection in the LM 26 Output routing.
- *[PLM]* More robustness added to the PLM 20000Q PSU, so that it now can tolerate a mains glitch (short dropout of mains voltage) and/or a mains spike.
- *[PLM & LM]* New 3rd party control protocol, DLM v2, released. Please contact us for more information.

Issues corrected

Installer 36

- *[PM]* Fixed an issue where multiple conversions of frame preset bank files in Preset Manager resulted in corrupt frame preset bank files. This is now fixed with PLM Preset Manager 1.0.92.0.
    - *Note:* Frame preset bank files already corrupted can't be restored. Use PLM Preset Manager 1.0.92.0 directly on your backup file.

Installer 35

- *[LC]* Improved performance of the Batch Replace window, particular the performance on Windows 7 systems has been significantly improved.
- *[LC]* Fixed a memory leak that could cause the Controller to close unintentionally.
- *[PLM]* Updated CAL configuration for improved amplifier module protection during continuous signals.
- *[LC]* Fixed an issue where the use of the command line 'emulation' would cause a crash after minimize and maximize. Adding 'Emulation' as a command line will improve the performance when using the Controller in a VNC setup.
    - *Note*: In Windows® 7, Windows Aero needs to be disabled (See Windows 7 help section) .
- *[PLM]* Fixed an issue where the PLM 20000Q could go to standby state (unable to start) after a firmware update.
- *[LC]* Fixed an issue where the Lake Controller could not direct the LM 26 to standby or go online from the Global Control.
- *[LC]* Fixed an issue where the Controller could not fetch the PLM log for the first four hours of running time.
- *[LC]* Adjusted the mains Voltage history graph in the Events and Control view to start at 0V.
- *[LC]* Fixed an issue with file menu bars locking the user inside directories to which the user did not have access to list the contents.
- *[LC]* The Breaker characteristics scrollbar in the BEL Config window no longer disappears after the Controller has been minimized and maximized.
- *[LC]* Improved after-glow on Status tab for PLM faults and warnings.
- *[PLM]* Risk of false detection of internal amp channel blown fuse is eliminated ('Service Ch.').
- *[PLM]* Fixed the un-preferred state where the PLM 20000Q would go back to standby after being turned on.
- *[PLM]* The fans will be on for a longer time when the device is set to standby.

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- *[LC]* For Multiple Controller operation and the connection stability between Controllers, several improvements have been implemented.
- *[PLM]* The Auxiliary clock selection is correctly restored after a power cycle.
- *[PLM]* Fixed an issue with Recall Compare, where the Controller sometimes could indicate that the system files was corrupt.
- *[LC]* Fixed so that frame input mute now is indicated in Status tab, Event log and All tab.
- *[DLP]* New DLP firmware bundle received from Dolby, with improved network stability.

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Patch Release v5.5 build 014 – Installer 34 – 2010-06-11

Component	Version	Comment
Installer	34	
Lake Controller	v5.5 Build 014	
PLM Series Firmware	Bundle 00.02.69	Same for all PLM Series devices.
DSP	00.02.69	
FPGA	41	
Front	1.5.0	
Amp 10000Q and 14000	0.13.1	
Amp 20000Q	0.13.1PSU	
Dante	2.2.13	
PLM Safe Mode Image	0.03 (labeled 99.03)	See installation instructions separate section.
LM 26 Firmware	Bundle 00.00.29	
DSP	0.29	
FPGA	84	
Front	1.0.2	
Dante	2.2.12	
LM Safe Mode Image	0.02 (labeled 99.02)	See installation instructions separate section.
Legacy Product Firmware		
Dolby Lake Processor	1.50.51	
Lake Contour	4.16.34	
Lake Mesa	4.21.28	
Firmware Update Utilities		
Lake	2.0.0.6	Different selection for PLM Series and LM 26
Dolby Lake Processor	2.0.0.3	
Lake Contour	1.0.0.8	
Mesa	1.0.0.8	
Preset Manager Utilities		
PLM Series	1.0.90.1	
LM 26	1.0.89.1	
Dolby Lake Processor	1.0.72.0	
Lake Contour	1.0.72.0	
Mesa	1.0.72.0	
LoadLibrary	2.3	See separate release note.
Bonjour	2.0.0.36	

Issues corrected

- Fixed a bug where the Controller did not properly indicate Old firmware for PLM devices with firmware version 2.51. With this release all firmware versions older than the included FW is reported as Old firmware.
- Fixed a bug where old presets not were converted correct.
- Fixed a bug where a Contour Pro26 with firmware v2.137 (from release v3.2) showed up in the LM 26 firmware Update Utility.
- Fixed a bug where Dante 48kHz only was able to transmit 2 and received 2 channels instead of 4 and 8.
- Fixed a bug where the front panel could be corrupted and halted in initializing, or start to blink upon load of a module file with long channel names.

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Patch Release v5.5 build 011 – Installer 32 – 2010-04-22

Component	Version	Comment
Installer	32	
Lake Controller	v5.5 Build 011	
PLM Series Firmware	Bundle 00.02.69	Same bundle for all PLM Series models
DSP	00.02.69	
FPGA	41	
Front	1.5.0	
Amp 10000Q and 14000	0.13.1	
Amp 20000Q	0.13.1PSU	
Dante	2.2.13	
PLM Safe Mode Image	0.03 (labeled 99.03)	See installation instructions separate section.
LM 26 Firmware		
DSP	0.28	
FPGA	82	
Front	1.0.1	
Dante	2.2.12	
LM Safe Mode Image	0.02 (labeled 99.02)	See installation instructions separate section.
Legacy Product Firmware		
Dolby Lake Processor	1.50.51	
Lake Contour	4.16.34	
Lake Mesa	4.21.28	
Firmware Update Utilities		
Lake	2.0.0.4	Different selection for PLM Series and LM 26
Dolby Lake Processor	2.0.0.3	
Lake Contour	1.0.0.8	
Mesa	1.0.0.8	
Preset Manager Utilities		
PLM Series	1.0.89.0	
LM 26	1.0.89.1	
Dolby Lake Processor	1.0.72.0	
Lake Contour	1.0.72.0	
Mesa	1.0.72.0	
LoadLibrary™	2.2	See separate release note.
Bonjour	2.0.0.36	

New functionality

- Improved clock synchronization with Dante.

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Patch Release v5.5 build 011 – Installer 31 – 2010-04-09

Component	Version	Comment
Installer	31	
Lake Controller	v5.5 Build 011	
PLM Series Firmware DSP FPGA Front Amp Dante	Bundle 00.02.68 00.02.68 41 1.5.0 0.13.1PSU 2.2.13	
PLM Safe Mode Image	0.03 (labeled 99.03)	See installation instructions separate section.
LM 26 Firmware DSP FPGA Front Dante	 0.28 82 1.0.1 2.2.12	
LM Safe Mode Image	0.02 (labeled 99.02)	See installation instructions separate section.
Legacy Product Firmware Dolby Lake Processor Lake Contour Lake Mesa	 1.50.51 4.16.34 4.21.28	
Firmware Update Utilities Lake Dolby Lake Processor Lake Contour Mesa	 2.0.0.4 2.0.0.3 1.0.0.8 1.0.0.8	
Preset Manager Utilities PLM Series LM 26 Dolby Lake Processor Lake Contour Mesa	 1.0.89.0 1.0.89.1 1.0.72.0 1.0.72.0 1.0.72.0	
LoadLibrary	2.2	See separate release note.
Bonjour	2.0.0.36	

New functionality

- The Firmware update functionality from within the Controller has been disabled. Please use the stand alone Firmware Update Utilities.
    - Lake Updater is for both PLM Series and LM 26, select type the with button switch upon start-up. Only the appropriate frames and firmware are displayed after the selection.
- The Voltage and Limiter value on the status tab, in the Events & Control pop-up, have been updated to work as peak and hold values. The hold is 2 seconds, if any new peak value does not occur during that period.
- For PLM, four new ISVPL profiles have been added on Control tab in Events & Control! These are Sub, LF, MF and HF and are all optimized for high SPL.
- LoadLibrary 2.2 module files. See separate release note.
- With new PLM firmware additions Dante performance have been improved.
- Ability to see the Safe Mode Image version added to the front panel of the LM 26, in the firmware version menu.
- A ‘Please power cycle’ screen is displayed after a firmware upgrade of the LM 26.

Issues corrected

- Fixed a bug where the fast checksum sync not always were working after a Load Last Config for the Controller.
- Fixed a bug where modules would not go offline at all in Lake Controller v5.5.009.

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- Fixed a bug where the Designer mode level limits for ISVPL and Amp Gain was not displayed in the Controller unless the channel was routed.
- Fixed a bug where the Store System sometimes failed and the system file became corrupt.
- Fixed a bug where the Controller could indicate the presence of a fault without any fault being active.
- Fixed a bug where Mod Out Mute would be indicated on all Amp channels routed to that module on Status tab in the Controller.
- Fixed a bug for clip indications on Status tab in the Controller.
- Multiple Controllers are now working again.
- The new Bonjour version is less likely to crash with the Lake Controller.
- Fixed an issue where it was easy to accidentally put on the PLM to standby on power up from the front panel.
- Fixed the issue where the PLM sometimes instantly returned to standby after being powered on.
- Significantly improved Dante performance in Dual Redundant mode. Frames will not switch over to Analog in case they loose the signal on the primary network and have secondary network backup.
- Dante Clock master selection has been improved.
- Fixed a Dante issue for the LM 26 where it was impossible to use many Unicast channels in Dual Redundant mode.
- Fixed an issue where GPO was closed during boot up if ‘when fault’ were used on the LM 26.

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Release v5.5 build 009 – Installer 30 – 2010-03-23

Component	Version	Comment
Installer	Build 30	
Lake Controller	v5.5 Build 009	
PLM Series Firmware	Bundle 00.02.64	
DSP	00.02.64	
FPGA	41	
Front	1.4.2	
Amp 10000Q and 14000	0.12.3	
Amp 20000Q	0.13.0p14PSU	
Dante	2.2.13	
PLM Safe Mode Image	0.03 (labeled 99.03)	
LM 26 Firmware	Bundle 0.26	
DSP	0.26	
FPGA	81	
Front	1.0.1	
Dante	2.2.12	
Legacy Product Firmware		
Dolby Lake Processor	1.50.51	
Lake Contour	4.16.34	
Lake Mesa	4.21.28	
Firmware Update Utilities		
Lake	2.0.0.4	
Dolby Lake Processor	2.0.0.3	
Lake Contour	1.0.0.8	
Mesa	1.0.0.8	
Preset Manager Utilities		
PLM Series	1.0.89.0	
LM 26	1.0.89.1	
Dolby Lake Processor	1.0.72.0	
Lake Contour	1.0.72.0	
Mesa	1.0.72.0	
LoadLibrary	2.2	See separate release note.

New functionality

- Full support for the all new PLM Series flagship – the PLM 20000Q, with virtual files etc.
- The same PLM Series firmware is used across the whole range of PLM Series amplifiers.
- Full support for the all new Lake processor – the LM 26, with virtual files etc.
    - Please see the updated Lake Controller manual for additional information.
- Added a 'Clock slipping' warning for Dante and AES inputs, this is displayed in the Controller (as well as front panel for the LM 26) and the information is also stored in the Event log file.
- The Firmware update functionality from within the Controller has been disabled. Please use the stand alone Firmware Update Utilities.
    - Lake Updater is for both PLM Series and LM 26, select type the with button switch upon start-up. Only the appropriate frames and firmware are displayed after the selection.
- The digswitch feature has been improved with additional information regarding which priority all input routers are using etc.
    - *How to use*: Create a shortcut to the Lake Controller.exe and add *digswitch* after the target link.
- A user object counter can be displayed in the Controller. This will help to keep track of the number of objects in use, and how close to the user is to the User object limit.
    - *How to use:* Create a shortcut to the Lake Controller.exe and add *userobj* after the target link.
- The button text 'PLM info' in has been renamed to generic 'Events & Control' for both PLM and LM frames. (J#1597)
- The button text 'Amplifier menu' in All tab has been renamed to 'Global info' with a submenu called 'Events & Control'.

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- The 0.5 ms Dante latency option for the LM 26 is just to be used when two LM 26s are directly connected thru Gigabit.
- The Voltage and Limiter value on the status tab, in the Events & Control pop-up, have been updated to work as peak and hold values. The hold is 2 seconds, if not any new peak value occurs during that period.
- For PLM, four new ISVPL profiles have been added on Control tab in Events & Control! These are Sub, LF, MF and HF and are all optimized for high SPL.
- LoadLibrary 2.2 module files. See separate release note.
- PLM firmware with improved Dante performance.
- The ISVPL have been extended to 194 V to suit the PLM 20000Q. Still with automatic adjustment to model maximum.
- Four new ISVPL profiles available! These are Sub, LF, MF and HF and are all optimized for high SPL.
- DLM (3rd Party Control Protocol) now has the possibility to also store presets with the new PLM firmware. See *DLM control protocol v1.1* for more details.
- Ability to see the Safe Mode Image version added to the front panel in firmware version menu of the LM 26.
- A 'Please power cycle' screen is displayed after a firmware upgrade on the LM 26.

Issues corrected

- Fixed a bug where the fast checksum sync not always were working after a Load Last Config.
- Fixed and issue where frames were not identified as offline as rapidly as expected, for example in the event of a network or mains failure.
- Fixed a bug where modules would not go offline at all in v5.5.009
- Fixed a bug where 2way modules missed information for the High band on the Designer mode EQ table.
- Fixed a bug where the Designer mode level limits for ISVPL and Amp Gain was not displayed unless the channel was routed.
- Fixed a bug where the Store System sometimes failed and the system file became corrupt.
- Fixed a bug where the Controller could indicate the presence of a fault without any fault being active.
- Fixed a bug where Mod Out Mute would be indicated on all Amp channels routed to that module on Status tab.
- Fixed a bug for clip indications on Status tab.
- Multiple Controllers are now working again.
- The new Bonjour version is less likely to crash with the Lake Controller.
- Fixed an issue where it was easy to accidentally put on the PLM to standby on power up from the front panel.
- Fixed the issue where the PLM sometimes instantly returned to standby after being powered on.
- Significantly improved Dante performance in Dual Redundant mode. Frames will not switch over to Analog in case they loose the signal on the primary network and have secondary network backup.
- PLM Dante Clock master selection has been improved.
- Fixed the Dante issue where it was impossible to use many Unicast channels in Dual Redundant mode on the LM 26.
- Fixed an issue where 'when fault' on GPO was used, it was set do closed during boot.

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Release v5.4 build 003 – Installer 29 – 2009-11-24

Component	Version	Comment
Installer	Build 29	
Lake Controller	v5.4 Build 003	
PLM Series Firmware DSP FPGA Front Amp Dante	Bundle 00.02.51 00.02.51 40 1.4.0 0.12.3 2.2.5	
PLM Safe Mode Image	0.02	
Legacy Product Firmware Dolby Lake Processor Lake Contour Lake Mesa	 1.50.51 4.16.34 4.21.28	
Firmware Update Utilities PLM Series Dolby Lake Processor Lake Contour Lake Mesa	 1.0.0.12 2.0.0.3 1.0.0.8 1.0.0.8	
Preset Manager Utilities PLM Series Dolby Lake Processor Lake Contour Lake Mesa	 1.0.74.0 1.0.72.0 1.0.72.0 1.0.72.0	
LoadLibrary	2.1	

New functionality

- The Safe Mode Image version is displayed in the front panel 'FW version' view.
- When a Lake Controller is not connected to the PLM, the timestamp in the log files is now written as 'N/A' instead of 1969-12-31 or 1970-01-01.
- The 'Analog in fault' detection has been improved. Previously this could give false error indication.
    - 'Analog in fault' can still flash fast when analog connectors are connected. But in this event there is no fault.
- The button text 'Amplifier info' in the Lake Controller has been renamed to 'PLM info'.
- A LM 26 virtual icon is implemented in the Controller. In this release all functionality for LM 26 is blocked.
- LoadLibrary 2.1 module files and a preset data bank for PLM 10000Q.
- A new Lake Controller Operations Manual is included, which combines three legacy manuals.
- The front panel 'Labgruppen' splash screen is cleared faster at startup.

Issues corrected

- Several critical Dante improvements have been made in respect of master clock selection switching from unicast to multicast, and functionality when Dante is disabled via the Controller. This will improve the Dante system performance for both PLM and DLP and mixed systems.
- Fixed an issue where the signal level was different between DLP Dante transmitters and receivers.
- PLM Preset Manager v.1.0.73.0 is no longer unstable at startup and can handle large systems and big preset transfers.
- After a Factory Reset from the front panel of the DLP there is now a message forcing the user to cycle the power of the processor.
- Fixed a bug where it was impossible to append to the system file name if trying to store from a page other than the Main page.
- New virtual frame icons for PLM 10000Q and PLM 14000 that reflects the correct number of output channels, as well as the yellow identity line for PLM 14000.
- Fixed bug where an LP 2-way+1-aux module is overwritten with a CL 4-way+2-aux combination and DSP channel 5 stopped outputting audio.

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- LP 2-way + 1-aux module can now be assigned to Super Modules.
- Preset recall from Controller for a 3-way+1-aux does not make Amplifier Gain and ISVPL revert to back default anymore.
- Copying of LP 4-way module to another module will now not causes any DSP-channel to disappear.
- Fixed a bug where the Controller could crash if the event log was scrolled in the same time as a new event was registered.

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Patch Release v5.3 build 004 – Installer 28 – 2009-07-06

This is a patch release to installer 27 which contained an older version of the legacy Dolby® Lake Processor Firmware.

Component	Version	Comment
Installer	Build 28	
Lake Controller	v5.3 Build 004	Same as installer 27
Lab.gruppen Extension	v1.5 Build 186	Same as installer 27
PLM Series Firmware	Bundle 00.02.42	Same as installer 27
DSP	00.02.42	
FPGA	40	
Front	1.3.0	
Amp	0.12.2	
Legacy Product Firmware		
Dolby Lake Processor	1.50.46	Updated to match the Lake Controller
Lake Contour	4.16.31	Same as installer 27
Lake Mesa	4.21.26	Same as installer 27

Issues corrected

- New DLP firmware, received from Dolby.

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Patch Release v5.3 build 004 – Installer 27 – 2009-07-03

Unfortunately Installer 27 included an older version of the legacy Dolby Lake Processor (DLP) Firmware. DLP firmware 1.50.46 is required to operate with v5.3 of the Lake Controller. **Place DLP firmware 1.50.46 in the 'firmware' subfolder of the installation directory or implement Installer 28.**

Component	Version	Comment
Installer	Build 27	
Lake Controller	v5.3 Build 004	
Lab.gruppen Extension	v1.5 Build 186	
PLM Series Firmware	Bundle 00.02.42	
DSP	00.02.42	
FPGA	40	Same as last release
Front	1.3.0	Same as last release
Amp	0.12.2	Same as last release
Legacy Product Firmware		
Dolby Lake Processor	1.50.45	Does not match the Lake Controller!
Lake Contour	4.16.31	
Lake Mesa	4.21.26	

Issues corrected

- New installer build 27.
- New Lake Controller 5.3 build 004.
- New PLM Series firmware 2.42.
- New PLM Preset Manager, version 1.0.73.0, for both PLM 10000Q and PLM 14000 solves the issue with incorrect indication of 'Old firmware' on startup.

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Release v5.3 Build 003 – Installer 26 – 2009-06-17

This release has problems affecting conversion of frame presets and system files from previous releases. ***This release MUST NOT be implemented*.** Please install v5.3 build 004 and firmware 2.42 instead.

Component	Version	Comment
Installer	Build 26	
Lake Controller	v5.3 Build 003	
Lab.gruppen Extension	v1.5 Build 186	
PLM Series Firmware	Bundle 00.02.41	
DSP	00.02.41	
FPGA	40	
Front	1.3.0	
Amp	0.12.2	

New functionality

- In the Lab.gruppen extension there is now facility to set Amp Gain and ISVPL™ for all DSP channels.
- ISVPL profile can now be set individually per DSP channel, both from the Lab.gruppen extension and from the front panel. (J#1215, T#1407, T#1408)
- LoadLibrary 2.0 module files updated with correct ISVPL profile.
- Added an EQ/Levels shortcut button for Solo / Mute with Super Modules. (J#1338)
- BETA support for Dante 48k. (J#1210, J#1312)
- Lab.gruppen extension is available from All-page on secondary Controller when running multiple Controllers. (J#1359)
- Added a shortcut to Lab.gruppen extension for Super Modules from Levels page when running multiple Controllers. (J#1409)
- The functionality 'Recall as virtual' is renamed 'Recall As Virtual Sub-Sys'.

Issues corrected

- Group and Super Module icons now have the same Faults and Warnings message as modules on work area.
- Multiple Controller stability and functionality have been improved.
- Recall as virtual or Recall Last system config no longer clears events and history logging.
- Resolved an issue where it was impossible to store over an existing Base Configuration file.
- Resolved an issue where the input polarity changed upon muting from the input mixer.
- Resolved an issue where the Controller could crash if a module file was recalled when no module was selected.
- Resolved the issue with the DLP Preset Manager that could not access DLP frames.
- Resolved an issue with history logs and events disappearing if Recall Last system config was used.
- Resolved an issue with changing Amp Gain and ISVPL for 3-way Super Modules.
- Bonjour is now updated also if there is a previous version detected on the system.
- Faster syncing has been implemented for Super Modules.
- Resolved an issue where group icons could indicate Faults and Warnings for modules in scroll bar.
- Resolved an issue where recalled virtual sub-system containing Super Modules didn't have all their modules added to All-page or work area.
- Resolved an issue where it sometimes was impossible to assign a second module to a Super Module.
- Improved error messaging for system file loads.
- The incorrect sorting of modules in All-page on secondary Controller has been resolved.
- A problem with assigning A and B 2-way modules to Super Modules has been solved.
- Resolved an issue where Super Module control problems could arise if A and B modules were mixed in the same Super Module.
- Issue with occasionally migrating 0.1 V ISPVL is fixed.
- The actual value for ISVPL is now correctly displayed for Super Modules.
- Resolved an issue where Lab.gruppen extension parameters didn't get correctly transferred after a batch replace.

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- Resolved the issue where Lab.gruppen extension parameters for modules in Super Modules were reset after a Recall Last system config.
- A problem with changing Lab.gruppen extension parameters for the ‘low’ band in a 3-way Super Modules has been solved.
- Resolved an issue where the Control tab information for Module B was wrong, when a 4-way or 5-way (or 4-aux and 5-aux) module was recalled to Module A.
- Resolved a crash when no module outputs where used.

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Release v5.1. Build 053 – Installer 24 – 2009-02-10

Component	Version	Comment
Installer	Build 24	
Lake Controller	v5.1 Build 053	
Lab.gruppen Extension	v1.4 Build 179	
PLM Series Firmware DSP FPGA Front Amp	Bundle 00.02.30 00.02.30 38 1.2.1 0.12.1	Same as last release

New functionality

- PLM standby state is now more clearly indicated on work area in the Controller.
- A shortcut to I/O Config page is added to the Levels page.
- ISVPL™ Profile has been introduced in the Control tab, this is default Sub/LF for PLM 14000 and Universal for PLM 10000Q power output channels. In future releases this will be editable on all PLM Series models. Group icons and Super Module icons in the work area now show Faults and Warnings from member Frames and Channels.
- A separate Preset Manager is created to handle bank/presets for PLM 14000.
- All documentation is updated.

Issues corrected

- Resolved an issue where Super Modules and groups could have issues with mute persistence when recalling system files and Load last config.
- Correct headroom compensation is being applied in all scenarios.
- Optimized transfer of group level changes in very large systems.
- Input mixer meter level is now correct when in +4 dBu mode.
- PLM Preset Manager 1.70 can now handle Bank files created in previous versions of the PLM Preset Manager.
- Resolved an issue where the Lake Controller would crash when recalling modules to empty Super Modules.
- Optimized assign time when modules are assigned to Super Modules.
- Resolved an issue where Super Module copy and paste could change the settings to group mute.
- Resolved issue with the Controller crashing if the frame was soft or factory reset while in an LP4-way Super Module.
- Resolved an issue where MaxRMS attack and MaxRMS release for Super Modules did not lock properly.
- Super Module levels meters in +4 dBu reference mode are now correctly calibrated.
- Resolved an issue where Super Modules could remain in Out of Sync also after they had been removed from work area.
- Resolved an issue where the function ‘Recall as virtual’ made all Super Modules already on work area to become virtual.
- Resolved an issue where Amp Gain and ISVPL went back to default after an out of sync situation followed by a ‘Sync from computer’.
- Resolved an issue where the text on the group mute buttons did not correspond to the actual group mute status.
- Resolved an issue where the SM Routing page went corrupt after virtual recalls.
- Resolved an issue where the Lake Controller crashed if a module recall was performed on an empty Super Module.
- Various minor bugs have been corrected.
- Extended number of visible characters for the frame label in the Status tab view.

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Appendix

A: Plugin API version 4

IControl4 allows for read access of the following parameters;

- System
  - Current System name

- Frames
  - Frame Key (this is the unique handle to work with)
  - Frame label
  - Frame ID (what's visible in LC)
  - Frame type
  - AES Termination
  - Online status

- Modules
  - No. of Modules for a Frame
  - Module Label
  - Base config name
  - Workarea Page label for a Module
  - Groups assigned to the Module
  - No. of Module Overlays
  - Overlay Labels
  - Overlay Bypassed
  - Overlay properties
  - Overlay type
  - Input gain
  - Input delay
  - Input polarity
  - Input mute
  - No. of Module outputs
  - Module output label
  - Output gain
  - Output delay
  - Output polarity
  - Output mute
  - No. Input Mixers
  - Mixer Input Gain
  - Mixer Router No. of Priorities
  - Mixer Router Priority Source
  - Mixer Router Selected Priority

- Frame Outputs
  - Types of outputs
  - Power Output polarity
  - Power Output mute
  - Power Output LoadSmart No. of Cabinets
  - Power Output input (DSP channel)
  - Power Output MoM

- Frame Inputs
  - DSP channels (Module outputs)
  - DSP channel per module
  - DSP channel label
  - Supported Input sources

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  - No. of inputs per specified source
  - Name of the input

- Groups
  - Groups used in current system
  - Group Label
  - Overlays per Group
  - Overlay label
  - Overlay bypassed
  - Overlay properties
  - Overlay type
  - Input gain
  - Input delay
  - Nr. of outputs
  - Output gain
  - Output delay
  - Modules assigned to a specific Group

  For more information, see the included documentation in separate package available upon request.

B: Plugin API version 4b

- IControl4b makes it possible to set custom biquads for Classic block programs.

  For more information, see the included documentation in the Plugin SDK which is available upon request.

C: Plugin API version 5

- IControl5 makes it possible to set and get Lake XP processing parameters for supported modules.

  For more information, see the included documentation in the Plugin SDK which is available upon request.

D: Plugin API version 6

- IControl6 makes it possible to manipulate Group EQ Overlays (get/set bypass and store/recall Overlay files)

  For more information, see the included documentation in the Plugin SDK which is available upon request.

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