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## List of changes made to Larson Davis G4 LD Utility software<sup>1</sup>

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### G4 LD Utility Version 4.5.0

May 2020

1. Feature: Scheduling and Accounts have been added to the 831C. G4 allows you to interact with these features.
2. Feature: G4 can communicate over a secure connection with the 831C.
3. Feature: G4 can now Auto-Download files from all SLM meters
4. Feature: Improved Dropbox authorization to use the Larson Davis G4 Dropbox and uses a folder specific to G4. Included update uses localization of the interface.
5. Feature: The File Manager for all SLMs has been improved to allow searching of files based on name, serial number, and general info. Further, Projects and Meters may be opened to browse and search all files associated with these. Clicking on the item in the device panel will open this new view.

The file list now has more columns that provide specific information about the file which can be sorted. The list also loads faster from and is more responsive. When files are deleted from local the .xlsx is also removed. Right-click in file list allows you to open the file location in the windows explorer. With Open on Download and Export to .xlsx checkboxes to help organize your data when downloading.

The file manager allows for downloads to be cancelled and resumed

6. Feature: Projects now contain the folders of the meters that it contains and thus the files downloaded from a meter in the project will also be stored in that project's sub folder. When renaming projects G4 will try to move the files to follow the new project name.
7. Feature: More spreadsheets, graphs and data has been localized into more languages and current languages have been expanded.
8. Feature: You may now upgrade multiple 831C meters simultaneously
9. Feature: New general help page for new and updated features
10. Feature: Ability to push Measurement and System settings to multiple meters simultaneously
11. Feature: Settings have been separated based on meter. Previously all of the settings resided in the same location and thus a Default settings for 831C, 831, LxT and LxT SE were all the same even though each meter had some minor differences. Now the Default settings will be specific to each meter.
12. Feature: You may specify your "Default Path" for storing files for all meter types. Further, Downloaded and Imported files are now saved to a folder structure that mirrors the assignment of meters to Projects in the left pane of G4. Files will be stored as follows:
  - a. **File path for meters in the Meters section of the G4 left pane:**
  - b. *DefaultPath\Meters\MeterName\model\_serialNumber-startTime-meterFileName.extension*
  - c. **File path for meters under a Project of the G4 left pane:**
  - d. *DefaultPath\Projects\ProjectName\MeterName\model\_serialNumber-startTime-meterFileName.extension*

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<sup>1</sup> Note: Numbers in parenthesis such as "(3210)" are an internal tracking number. Test Track Items will be prefaced with TT.

1. Not user settable
  2. User may set project and meter names
  3. File names are generated automatically, not user settable
  4. *DefaultPath* – Documents\PCB Piezotronics\G4 or as configured by user in G4 Options, File Options
    - e. Storing the files this way permits fast and flexible file searching and better tracking whether files have been previously downloaded, so they won't be downloaded again every time they are opened.
13. Feature: The “Download Options, Download to Subfolder” checkbox has been removed. The “G4 Options, File Options” tab provides for setting the default location for downloading files. To support new features, such as File Search, the organization of the files at the user specified default path should not be modified or customized.
  14. Feature: Spartan Files improved the Pre and Post Calibration information to include the Deviation and Calibration Level. Also added Overload Count and Duration to the files.
  15. Feature: Update Help Menu to separate the Release History from the Manuals
  16. Feature: For the 831C, improved the order of the data included in the spreadsheet for Event History and Event Time History
  17. Feature: Edit Band modification time stamp arrows move the time faster the longer they are depressed, allowing for faster navigation when using edit bands.
  18. Feature: Removed HVM Licensing; no license is required for accessing the data from HVMS
  19. Bug Fix: Audio Streaming no longer has audio pop at the beginning of the stream
  20. Bug Fix: Accidental Drag and Drop in the device panel has been fixed when trying to just select a meter
  21. Bug Fix: Edit Band calculations were not always recalculated if only offset changed. Allow edit band edge to start at the beginning of the file.
  22. Bug Fix: G4 can now translate HVM200 and Spartan files with more than 1 million Time History records
  23. Bug Fix: If a file does not translate, and the error given “Array dimensions exceeded ...” or “Arithmetic error”, G4 will translate as much of the file as possible.
  24. Bug Fix: Removing a project could cause other projects from not allowing meters to be moved to them. You may now move meters to the new folders.
  25. Bug Fix: AudCal the auto sync would turn on by closing the popup regardless of choice
  26. Bug Fix: AudCal after upgrade of 831C and G4 did not always sync the AudCal database afterward, now you can sync the databases correctly
  27. Bug Fix: G4 will correctly translate files that have been downloaded using other software that names the files as slmdl files. Tonality is calculated correctly for FFT files named with slmdl.
  28. Bug Fix: Translation of SLM files continues even if audio may be missing from the file because of meter being disconnected before file is fully downloaded
  29. Bug Fix: With certain settings where TMS and OBA are logged in Time History, the translation and/or graph would not complete
  30. Bug Fix: Spartan files got saved with every zoom; now only saves upon request

31. Bug Fix: Spartan Report did not show ISO mode data. Also the spreadsheet labelled a line as "LCpeak" but the weighting should be on a per virtual dosimeter basis was fixed.
32. Bug Fix: Opening a meter before G4 had gotten status would mean that the HLD version was not known, so Setup Manager would not work
33. Bug Fix: Command Line Export uses correct numbering for audio files. Also allows for archives files when input specifies only a folder containing multiple archive folders.
34. Bug Fix: Generated, temporary files are no longer stored next to a file that is opened. Ex. G4 would leave temporary files on the desktop if the file opened was on the desktop.
35. Bug Fix: Deleting HVM200 files that showed error when it should not have shown error
36. Bug Fix: For Spartan merged files stop record not showing with time history
37. Known: 831C SN: 10123 will not auto download.
38. Known Issue: If you experience issues with Spartan 730 meters not connecting over USB on Windows 10 you may need to update the USB driver to work correctly.

## G4 LD Utility Version 4.0.8

January 2020

- Bug Fix: When using a graph to create an edit band, a bug that could cause the start and end time of the edit band to be up to two samples different from the data used to compute the change has been fixed. The start and end times shown on the graph now match the times used to compute modified data exactly.
- Bug Fix affecting 831C: A bug that can cause a meter to appear in the meter list multiple times has been fixed and each meter now shows only once.
- Improvement: If an error occurred on obtaining tonality information from an FFT file G4 did not display any information. A message has been added.
- Improvement: When renaming a meter in the meter list by using the "rename meter" function, the edit dialog is now shows the previous name for editing rather than "edit name".
- Improvement: The Command-line processing has improved logging, including any unrecognized parameters.
- Bug Fix affecting 831C: A bug that could cause the live display to have a gray overlay and then not accept inputs has been fixed.
- New Feature: When viewing the live data for a Spartan 730 noise dosimeter, a live Leq graph is now available.
- Bug Fix affecting 831 and 831C: When the time history sample period is greater than once per second and events are automatically marked in the G4 graph it was possible for an event to begin and end during a single time history sample, which resulted in the start and end times of the exclusion band not being correctly set. This has been fixed so the start of the exclusion band will be the time history sample including the start of the event and the end of the exclusion band will be the sample containing the end of the event.

## G4 LD Utility Version 4.0.7

December 2019

- Bug Fix: Updated installer to properly add drivers to 32-bit machines.
- Bug Fix: Closing the Calibration popup using the "x" would leave the meter in a locked state.

## G4 LD Utility Version 4.0.6

November 2019

- Feature: You can set the y-Axis extremes on the Time History SPL/LEQ graph.
- Bug Fix: Sometimes the dates on the control would change to a wrong date after selecting the desired date. This includes the fix for the Time Zone offset causing the day to appear to be the previous day when in the Eastern Hemisphere.
- Bug Fix: The Event Triggers would not appear on the Measurement Properties popup menu when on the Setup Manager Tab.
- Bug Fix: RClone would not authorize or would crash G4.
- Bug Fix: AudCal failed to sync the meter's database with the G4 database.
- Bug Fix: HVM license manager popup incorrectly when trying to use G4 with SLMs.
- Bug Fix: AudCal could force the manufacturer to appear as Larson Davis.
- Bug Fix: The Locked Screen with the Big Digit display would show the incorrect label.
- Bug Fix: Opening a meter while Setup Manager is already in System Properties would cause a looping reload cycle.
- Bug Fix: HVM100 connection dialog now shows the serial connection panel.
- Bug Fix: Missing Manuals from the Help menu.

## G4 LD Utility Version 4.0.5.1

October 2019

- Bug Fix: The SLM time history charts would not finish processing if the Weather-INT was enabled in the file. The charts will finish and display.
- Bug Fix: Hyphens in the meter's address will now work correctly allowing G4 to access the meter and display correctly in the device panel.
- Bug Fix: Opening a file outside of the meter's folder will now allow you to email the report and file.
- Some third-party security software on your desktop could put tracking files into archive files breaking the file structure for the SLM files. The files are now ignored by G4 when importing the archives (.s folders).
- Feature: Low Frequency L(20-200Hz) added to the 1/3 Octave section on the OBA tab in the spreadsheet

## G4 LD Utility Version 4.0.5

September 2019

- Bug Fix: Spartan File Merge works again as it wouldn't run in the previous release
- Bug Fix: Spartan files sometimes could contain bumps that would have multiple exclusion bands created for them. G4 now creates the bands correctly and only allows a single band that is wide enough to be selected.
- Bug Fix: Edit bands now show the same information as the highlights in the Time History tab in the spreadsheet
- Feature: Feature: Setup Manager menu item added to the file menu so that setups can be edited when there has never been a connection to a sound level meter
- Feature: AudCal now allows users to use non Larson Davis artificial mastoids

# G4 LD Utility Release History

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- Bug Fix: When opening the AudCal View from the File menu, G4 seemed to hang, now the view opens correctly
- Bug Fix: Setup Manager settings on 831A would not display
- Bug Fix: The Save All sound records feature in the Session Log crashed G4
- Bug Fix: Measurement History Alert configuration is now retained in the Settings
- Bug Fix: An error that would occasionally occur when transferring properties from a PC to a meter has now been fixed

## G4 LD Utility Version 4.0.4

August 2019

- Bug Fix: The authorization of the Push Feature using rClone would fail, crashing G4. The authorization works correctly and G4 no longer crashes due to the issue with rClone.

## G4 LD Utility Version 4.0.3

August 2019

- Feature: Added configurable trigger source and level to Measurement History Interval email and text alerts, updating the property Control tab to allow users to select these options
- Feature: Added pause, run, and reset to list of conditions that will trigger state transition email and text alerts
- Bug Fix: Fixed issue where date filenames restart at sequence number 0 after reboot or when files have been removed (i.e., moved to Dropbox). Now the sequence number will only reset to 0 at the beginning of a day
- Feature: Added 1, 2, and 5 minute Daily Auto Store periods and changed user interface to show interval time rather than files per day.
- Spartan 730 Dosimeter Update: In the Settings the grey color denoting inactive or unavailable settings is now more noticeable. The Threshold Enabled is disabled in ISO mode.
- Bug Fix: G4 would hang sometimes when switching between 831C and Spartan tabs
- Bug Fix 831C: When there are more than 500 files on the meter, G4 will display the files in pages with up to 500 files per page. Deleting all files on the last page no longer causes the Pagination to disappear

## G4 LD Utility Version 4.0.1

July 2019

- Spartan 730 Dosimeter Feature: You have the option to set an administrator passcode that, when set, allows users to access settings, system tools, or delete files, only after providing the passcode. The passcode is enforced only when using a Bluetooth connection and not when connected via USB.
- Bug Fix: Previously, system properties may be corrupted when transferring between other 831Cs or G4 LD Utility software with different software or firmware versions. Now, differences between versions are handled correctly. If concerned about possible corruption, use G4 LD Utility V4.0.1 or later to resend system properties to the meter.

# G4 LD Utility Release History

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- Bug Fix affecting 831 & 831C: Weather data displaying dashes when the value is 0.0 has been fixed and 0.0 is correctly displayed.
- Bug Fix affecting 831 & 831C: Wind compass direction would display as dashes if the direction is between 350 and 359 degrees. Now, correct direction is shown for all cases except when direction is due north (0 degrees), which still shows dashes.
- Modification and Bug Fix: The menu item, located at **File >> Save Edit Band Data** has been changed to **Save SLM File**. The menu item did not actually save the file, resulting in a prompt to save when the file was closed.
- Bug Fix: When authorizing the meter to use DropBox, G4 would lock up. This now works correctly.
- Bug Fix: Previously, the edit band shown in the G4 Time History tab (used for calculating the modified data) was late by one time history sample. Edit bands are now shown correctly in the tab.
- Bug Fix: When upgrading firmware, the default folder for the firmware file remains consistent and works as expected. (7400)
- Bug Fix: When an SLM has more than 500 files, data files displayed in the Data Manager tab are correctly sorted from newest to oldest according to the start time. You don't have to go to the last tab in order to see the newest files.
- Improvement affecting Spartan 730 Dosimeter: The Live View navigation bar remains at the top of the window when scrolling down, instead of scrolling off the top.
- Bug Fix affecting Spartan 730 Dosimeter: Previously, edit bands created automatically due to a "bump" created 2 exclusion bands for each bump. Now, each "bump" creates 1 "exclude" edit band.

## G4 LD Utility Version 4.0.0

June 2019

- New connection device panel provides direct access to all meters with a single click
- Support for the new Spartan 730 noise dosimeter
- Support for Projects, the ability to organize meters into user created projects
- Made upgrading meters easier by meter specific context menu from the device panel
- Setup manager updated to reduce the loading time
- Push settings to all connected Spartan meters
- Improved communication with HVM200 and 831C meters to allow quicker connection
- Improved the graphs for sound level meters, with the legend set to the bottom with values, edit bands, and data corrections updated modified data, unused menu options removed, and only open graph if valid time history exists
- G4 no longer supports connections to meters via analog modems or serial connections, with the exception of the serial connection for HVM100 meters
- HVM100 connection panel updated and moved to Tools menu

# G4 LD Utility Release History

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- Known Issue: The auto-merge for HVM100 has been disabled.
- Bug Fix: Spreadsheet Measurement History records were highlighted red when no overloads occurred
- Bug Fix: Setup manager file list did not update after "format internal" (6407)
- Bug Fix: 831C Setup manager didn't match the duration of the meter
- Bug Fix: Cannot Play Voice Recordings is session log (7187)
- Bug Fix: Gears did not go away after downloading a file with no Time History from 831A (7188)
- Bug Fix: HVM100: HVM disconnects when run started if HVM is overloaded. G4 can crashes after disconnect (7131)
- Bug Fix: Sync PC and Meter Clocks on maintenance tab does not work with 831C (7010)
- Bug Fix: On the meter the adjust graph is not available (grayed) when looking at the spectral Ln's on the overall tab (5105)

## G4 LD Utility Version 3.3.1

April 2019

- Bug Fix: Fixed issue in SLM Measurement History spreadsheet where LNs values were not displayed correctly.
- AudCal: The variance in frequencies used during Distortion, Frequency, Hearing Level and Narrow Band Noise tests tightened to make the auto switching not use the previous frequency; this is usually seen with 1500 and 1600 Hz.
- AudCal: For Distortion, Frequency, Hearing Level, FM and Narrow Band Noise tests, we increased the time for failure before moving to the next step.

## G4 LD Utility Version 3.3.0

January 2019

- Updates to support new PTB certification
- Update to the command line feature to allow for archive files received from the 831C Automatic Push to be processed to JSON/XML/XLSX
- The settings for OBA and Sound range now show the range in dBA as well as the Normal and High selection
- Updated the graphs for 831C, 831 and LxT to work with older and broader range of systems, specifically systems that support WebGL1 but not WebGL2.
- Fixed Edit Bands edge adjusters for 831C, 831 and LxT graphs so that right edge arrows no longer update left edge text
- Updated firmware upgrade to reboot before starting the upgrade to improve the success of the upgrade process. Also allow multiple meters to be upgraded at the same time.
- Known Issue: In the Measurement History of the spreadsheet the first column may be marked in red if an overload occurred in any of the histories. The column background red color may disappear when scrolling in the spreadsheet.
- Bug Fix: Correctly adjust for the expected frequency response curve from the data input from a certificate of the AEC304 coupler
- Bug Fix: G4 would fail to apply an Edit Band offset with non-numeric data (i.e. Gust Direction)

# G4 LD Utility Release History

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- Bug Fix: The Stop When Stable Run Mode would not use the time that was entered in the Control measurement properties
- Fix for no sound Time History Records in data file so that graph is not displayed (6589)
- Fixed the recalculation of the Summary to stop errors when no edit band is found
- Saving files will check for a valid path before trying to save just in case the path has been removed. If saving to removable media, each save will check for the media instead of failing to save to the removed media.
- Feature: Added logic to handle .s archives with names that are too long by asking the user rename them so they may be processed
- Bug Fix: Modified logic to allow users to import .s archives from the root of a drive or from the second level of the file system
- Bug Fix: crash when Exporting of HVM files to spreadsheet and printing HVM reports
- When using G4 to graphically edit HVM data taken for a whole body measurement, the modified summation values for the A(8) Act and A(8) Exp are now correctly computed
- User can now store samples of the Running  $L_{eq}$  in time history
- If a setup configuration did not have the new trigger settings, Events would not trigger correctly. The setup files are updated when they used in G4 or on the meter.
- Changed AudCal narrow-band noise calculation to use FFT instead of octave bands. This allows the 831C to correctly determine the narrow band noise levels when the noise bandwidth does not match 1/3 octave filter bandwidths. Added the level to the AudCal page on the meter and augmented the data displayed on the test page to include the band edge frequencies.
- AudCal now restricts the bone vibrator to a frequency range of 250Hz to 8kHz, supra-aural and inserts are restricted to 125Hz to 8kHz and circum-aural and speakers range from 125Hz to 20KHz.
- When closing files a single check is made for modifications and a dialog will ask if the file should be saved. Improved the saving of files when changes are made.
- Fixed AudCal to allow high frequencies in all tests. In Hearing Level and Narrow Band Noise tests valid Hearing levels will need to be entered for the high frequencies.
- Fix crash when Calibrating a Model 831A meter
- Bug Fix: (TT 6901) G4 no longer crashes when using "Save All" on sound recordings in the file view
- Bug Fix: (6591) Change masked options without reboot and data not stored, then change a property with Reset Required will cause the user interface to lockup
- Bug Fix: (6517) Fix for Daily Timer Start Time 3 input so that it is not over written by End Time
- Bug Fix: (6515) Graphing: The Data Legend Marker needs to display when clicking on graph
- Bug Fix: (6594) 831C UI: Auto store set to Prompt causes 2 prompts to be seen when stop is pressed
- Bug Fix: (6598) HVM200 – Sometimes in Live View the settings page is invisible
- AudCal: Fix for the Certificate generation for Booth Tests when missing equipment
- AudCal: Fixed Report generation of the Hearing Level test when using high frequencies

# G4 LD Utility Release History

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- AudCal: Fix for “Set Levels” for the Narrow Band Noise and the Hearing Level tests to allow non-standard frequencies including high frequencies
- AudCal: (6267) Fixed the FFT zoom when accessing the Live View in G4 or on a tablet
- Bug Fix: (TT 6976) Fixed the selection of a Measurement or Event to be persistent when more than one exists while accessing the Live View in G4 or on a tablet

## G4 LD Utility Version 3.2.1

September 2018

- Addition of the Time History graphs for LxT, Model 831 and SoundAdvisor
  - Zoom and panning of the time history data
  - Report generated for printing and in pdf form with overall summary and graphs
  - OBA spectrograms align with the level line graphs
  - Playback of audio denoted in the graphs including continuous audio
    - The audio playback and the audio graph marker could be off by up to one second, due to sound recording timestamp resolution.
  - Events marked on the graph including the ability to playback associated audio records
  - Editing of the time history using edit bands, with offsets and exclusions
- When zoomed, the graphs may not line up completely.
- Added the ability to set static IP address on 831C
- Updated Event Triggers to work with new functions on the 831C
- Added Running  $L_{eq}$  setting
- The folders for saving are tracked for user
- Audiometric Calibration reports improved and their generation sped up
- AudCal right-click menu on the tree to allow adding and removing of items
- Fix bug with the RETSPL's not storing for high frequencies
- Update for non-meters appearing in the list of USB devices
- Changing the language in G4 updates the meter directly
- Updates to the Light and Dark themes to improve legibility
- Connection table no longer looks for duplicate meters or combines names of duplicate meters
- Added “Export to JSON/XML” functionality (also available from command line)

## G4 LD Utility Version 3.10

April 2018

- Audiometric Calibration (AudCal) functionality added to G4
- The UI has been improved for the Import Files from USB Drive
- The Audio Streaming UI is reset when streaming is stopped when changing tabs
- Updates to the Meter Catalog that will back up the catalog and reduce the number of writes to reduce the chance that catalog entries are lost
- Fixed potential crash from bad or unstable TCPIP communication
- Settings and Property files will transfer correctly between PC and Meter
- When using Set to Active the meter sometimes loaded the wrong setup

# G4 LD Utility Release History

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- Cal Check can be run from G4 and improved responsiveness to the Calibration pages, also updates to the Certification Reminders were not working.
- Time History OBA Overload column only in export if Time History OBA metrics were selected
- Added command line parameters to process a .ldbin file or all .ldbin files in a folder to create .xlsx files
- Fix for dpi issue causing the Meter View to not display properly in some configurations
- Added System Metrics for the 831C on the spreadsheet summary tab
- Updates to audio playback and audio streaming, including potential crash bug fix
- HLD on the meter was crashing when connecting from G4
- Fixed issue with removing setup files where they would not always be removed
- Improved the resolution of many of the icons in menus
- Fixed weather page that had trouble with switching units between degrees and compass, and missing Temperature

## G4 LD Utility Version 3.06

November 2017

- Firmware upgrade process to protect against downgrading to prior than 3.06 to prevent errors reading/writing newer flash chips

## G4 LD Utility Version 3.05

October 2017

- Fix for Model 831 and SoundAdvisor Time History TMS showing in the wrong column, and weather data with correct units
- Units on OBA are now correct when using integration with HVM200
- Added Portuguese (BR) to G4 language selection menu.
- Updated current languages with missing strings
- Fixed crash when playing audio files in G4
- Fixed ScreenGrabber so that a momentary loss of connection no longer stalls screen updates

## G4 LD Utility Version 3.04

June 2017

- Allow users to configure the SoundAdvisor Model 831C to use SFTP or Dropbox for cloud storage. Files are transferred after they are stored on the 831C.
- New “Open .s Folder” option, to allow users to open files from Dropbox or SFTP
- Updated lock/unlock feature to ensure a code is entered for Model 831
- Added more parameters like epoch time for audio file command line export also improved documentation
- Fixed meter connection issue where name on tab was incorrect. (5667)
- Removal of temporary files on installation (5666)
- Added HVM200 annotations in spreadsheet export. They are found in the Notes field and in a column in the time history tied to the time at which they were entered. Updated the column width for the summary.

# G4 LD Utility Release History

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- Fixed the “Restore Defaults” function on the Tools->Options->File Options tab so that the correct defaults are restored
- Initial default for downloading files will open the file in G4 (5386)
- Fixed the gust and wind direction column on Measurement History spreadsheet to display the correct directions if units are set to compass, e.g., N, NE or S (5362)
- Fixed issue where Live View would not update when meter would turn off backlight

## G4 LD Utility Version 3.03

May 2017

- Fixed Time History and Event Time History spreadsheet top properly display all values when a comma decimal separator is used as part of the Culture Info
- Updated Audio Streaming to work if a password exists on the Model 831A meter
- Added capability to slide the Status display off to the right and back again
- Improved the 831-INT-ET upgrade process to work with the Sound Advisor and remove the time constraint when trying to connect
- For time history periods greater than 1s previously the meter would report the wind speed and direction for the last 1 second sample. Now the meter reports the average over the sample period.
- Fixed issue with Event Time History so that the post trigger is now displayed correctly
- Added command line operation of G4 to export audio files directly from LDbin files with the use of the SDK
- Added support for NMS044 with a new setup file that will appear at the top of PC list
- Installation will notify you when Administrative privileges are needed and cause installed files to be accessible with any standard user
- Fixed crash bug with older versions of 831-INT-ET firmware
- When using WiFi in G4, the password is now correctly saved, allowing connection over WiFi
- Added the Time Zone property to the Set Time dialog from the Meter Manager Maintenance tab

## G4 LD Utility Version 3.02

April 2017

- Release in conjunction with new firmware for 831C
- Improvement of the HVM200 firmware upgrade process

## G4 LD Utility Version 3.00

March 2017

- Provide connection and tools to work with **SoundAdvisor™ Model 831C** (831C)
- Improved Setup Manager to work better with all meters
- Update Audio Streaming to also include Compression on 831C
- Improved connection status with meters
- Fixed issue with file translation and GPS data with no sync, and Measurement Histories.
- Further improvements to the Spreadsheet Views
- Updated connection dialog
- Improved time sync with meters

- Improved messaging when G4 is minimized or not visible
- Fixed a few issues related to culture variants
- Audio Playback in Live View for 831C
- Upgrade process for 831C
- Allows meters to display language of G4 not the meter.
- Fix for Store command
- File Listing in Meter Data View shows data completely and display USB icons for files on 831C
- Improved audio normalization
- Fixed issues for Calibration Histories for LxT1 and other meters.
- Minor UI fixes to Live View
- G4 sizing is now stored between sessions
- Drag and drop files onto G4 to open
- Fixed Time History display of LAeq to show more decimals of precision (4438)

## G4 LD Utility Version 2.2.1

**December 2016**

- Fixed the password issue that blocked transferring of setup files
- Fixed issue with playback of Sound Records

## G4 LD Utility Version 2.2.0

**November 2016**

- New Light Theme available from the Option Miscellaneous tab
- Fix for FFT tonality crash when graphing tones
- Improved download reliability, especially on bad connections
- Connections dialog modified to ensure multiple connections to same meter cannot occur
- Fixed slmdl import, multi-record import, cal/cal check history graph
- LxT preamp displays correct preamp data
- Improved Configuration Manager and associated loading
- Added ability to download to subfolders
- Changed status page time to display 24 hour clock
- Fixed issue with file translations especially in different locales
- Move Time History "TMS" column immediately after the "Time" column
- Fixed mislabeled field in Summary spreadsheet tab
- Improved the playback of sound records in spreadsheet with placement in Measurement records and Event History records including scrolled content.
- Window size of G4 remembered between launches
- Full time zoom for HVM200 in Live View
- Improved the spreadsheet translation process
- Improved UI experience, removing lag in certain operations
- Improved communication with HLD including shutdown
- Update to allow Settings in HVM200 on live view in G4
- Fix for event history page elements size issue

**August 2016**

## **G4 LD Utility Version 2.1.0**

- Improved playback of voice and sound records (Audio Scaling)
- Improved file processing with messages, also fixes for .slmdl files (6456, 6535, 6561)
- Further improvements to printed reports for HVM200 and HVM100 (2803, 3292, 6557)
- Improved Messaging, Meter Interaction and File Indicators
- Fixed G4 Maintenance Tab / Set date and time dialog for HVM200
- When transferring Property files a name may be specified
- Fix for opening LxT and 831 files from USB, allowing G4 to "Import" USB data files in a more user friendly way. Can select files from multiple folders, no extension requirement, and better error messages (6544)
- Added Measurements and Metrics (M&Ms) to the SLM spreadsheet
- Improved Meter Connection Dialog with filter for TCP and constant updates of meters plugged in via USB
- Improved firmware and option uploader
- Spanish and Russian initial localizations
- Data file working indicator
- Removed crash bug – Cal Histories

## **G4 LD Utility Version 2.0.3**

**June 2016**

- Removed 2 crash bugs

## **G4 LD Utility Version 2.0.1**

**March 2016**

- Improved playback of voice and sound records including the user interface (6408)
- Print report for HVM200 and HVM100 improved (6475)
- Fixed zoom on LiveView (6388)
- Fixed issue where left-mouse button zoom hits an invisible wall (6494)
- Fixed Excel export process (6493)
- GPS correctly displayed (6300)
- Warn user about potential device data format when upgrading (6399)
- Fixed fresh install issue for xlsx
- Fixed Summary "Sensitivity" formatting
- Fixed some minor issues with settings for HVM100 and 831a
- Improved file download
- Fixed a potential crash on international installations

## **G4 LD Utility Version 2.0.0**

**December 2015**

- Added support for HVM200 and HVM100
- New graphing for Time History and OBA Heat Maps for HVM
- Improved connection dialog
- Single tab for System and Measurement Properties

- USB 3.0 support
- Improved File translations
- Updated the 831-INT-ET firmware to improve communications
- Fixed some minor errors with downloading from 831-INT-ET
- Improved Serial communications
- Fixed issues with Proxy Servers
- Removed support for Windows® XP

## SLM Utility-G4 Version 1.1.1

- Import for LxT\_Data files support
- Fixed some minor errors in File Translation under Measurement History, and Time History
- Spelling errors in the file translation process
- Fixed a crash bug due to slow disconnect when closing down a connection

## SLM Utility-G4 Version 1.1.0

- LxT Support
- Improved spreadsheet load time
- Added 64-bit version to allow for larger ldbin file sizes
- Updated Calibration History tab
- Improved Audio Streaming tab, including Dynamic Range Compression
- Added Reference Spectra
- Improved file downloading/opening and messaging
- Double-click on ldbin file to open in G4
- For the Main Top tabs: More contrast between background of active and inactive tab and bold the title of active tab
- Added Normalization for playback of session log audio recordings

## SLM Utility-G4 Version 1.0

- First Release