LXEdge Version 1.3.3.8 Release Notes

Released: December 17, 2025

Warning- Polygraph Files (PFs) collected in LXEdge 1.2 and later will NOT open on older versions of LXEdge. PFs collected on earlier versions of LXEdge will be able to be opened and reviewed in LXEdge 1.2 and later.

Bug Fixes

- On systems with FIPS enabled, some question set templates would not open and could have all questions removed.
- On systems with FIPS enabled, charts would not appear in PF printout.

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LXEdge Version 1.3.2.18 Release Notes

Released: November 26, 2025

Warning- Polygraph Files (PFs) collected in LXEdge 1.2 and later will NOT open on older versions of LXEdge. PFs collected on earlier versions of LXEdge will be able to be opened and reviewed in LXEdge 1.2 and later.

Note: Version 1.3.2.18 fixes a bug introduced in Version 1.3.2.17 where some systems may encounter issues with printing a chart.

Major Updates

- Added ability to show Detrended EDA data, both for new and previously recorded charts. A setting (defaults to disabled) determines whether Detrended EDA is available for selection.
- Major overhaul of Scoresheet-related code
- In Scoresheet views, break up DLST question sets into presentations
- Added button to mark all sensors as artifacts at once for a given question
- Major improvements to appearance of Scoresheet printout
- Replace “Combine Pneumos” setting with “Single Pneumo Scoring” setting that allows scoring both Pneumos together as a single sensor.

Minor Updates

- Implemented showing messages to user for various conditions related to LX6 lease.
- Automatically update LX7 hardware to Firmware version 1.25.11.3 if an earlier version is currently installed.
- Added a “Notes” field to the Scoresheet
- Added setting for number of reviewers to show on Scoresheet. The default value is 2 and allowed range is 0-10
- Moved the NS (No Score) option to top of scoring dropdown and initialize to NS
- Added ability to print multiple Scoresheets at the same time (e.g. Examiner and Reviewers)
- Removed the “Utility Function” from scoring settings
- On the Scoring settings tab, the “Simple Cutscores” setting will now remain enabled when changing “Scoring Type” from “ESS” to something else and back to “ESS”
- Added “Chart Review Overlay” setting that determines what is initially shown on left side when chart ends. Options are “Scoresheet”, “OSS3”, and “None”. This replaces the “Display Scoresheet” setting that had been removed in 1.3.0.
- Added “Hide Navigation While Recording” setting that determines whether to hide the PF navigation bar (on left side of chart) while chart is running. Even if shown the navigation bar will be disabled while chart is running.

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Bug Fixes

- Prevent rare crash related to calculating statistics for “Chart Info” that could occur when ending chart
- Charts would fail to load when sensor data stream was terminated mid-packet
- When previously present “Combine Pneumos” setting was disabled, pneumos were able to contribute up to +/- 2 to a question’s score when the maximum value should be +/- 1.
- A comma in the PF name would cause the “Documents” folder to be opened instead of the expected folder when attempting to open the Attachments or Export folder.
- Related to Upload functionality:
    - Users would be forced to rename when uploading PF that had previously been uploaded and was still present in the upload folder.
    - Setting that determines whether stripping is enabled was missing on this tab. If this setting was disabled on the PF Tools tab, it would cause stripping to not occur even if options were checked on the Upload tab.

LXEdge Version 1.3.1.25 Release Notes

Released: October 29, 2025

Warning- Polygraph Files (PFs) collected in LXEdge 1.2 and later will NOT open on older versions of LXEdge. PFs collected on earlier versions of LXEdge will be able to be opened and reviewed in LXEdge 1.2 and later.

Major Updates

- Added support for Single Issue Screening Test (SIST).
- Moved the Audio/Video settings to be a new tab in the Settings tab.
- Initial support for LX6 Leasing.

Minor Updates

- Improved the visibility of question set names on the Question Set template page.
- Assign question set type while importing question sets from LXSoftware.
- Disallowed saving question sets that don't have the question set type assigned.
- Start allowing the Response Onset Window to be enabled or disabled in Settings when reviewing charts.
- Added setting to allow modifying colors associated with the positive and negative results for RLE and PPG tools.
- If on the Devices tab, auto-select DAS that is connected for the first time.
- Re-implement averaging of EDA data as it is received. Averaging had been replaced with decimation in version 1.2.
- Added line for Minimum Response Latency to chart as well as settings to control its behavior.
- Improved visibility of chart notes by making bold and using slightly larger font.
- Added setting for adjusting the size of question labels on a chart.
- Modifications to ensure text is not cut off when in Spanish mode.
- Minor changes to layout to allow more vertical space for the chart.
- OSS-3 Related
    - Added 3-way control to allow for involuntary artifacts
    - Updated reports to display Kruskal-Wallis information.
    - Prevent the Pneumo weight from showing 0 for DLST in the top right section.
- Added CSV Export.
- Modified so the Pulse Amplitude Time (PAT) trace goes down when the PAT value goes up.
- Flatline the cardio trace when value is below 5 mmHg.
- Stop showing the heart rate while running chart. It was working inconsistently. Heart rate can be viewed using calipers during chart review.
- Added setting to adjust the chart background color.

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Bug Fixes

- A message about DevExpress being a trial version was incorrectly appearing at the top of reports
- Under specific circumstances, audio/video recordings would be placed in incorrect location outside of PF. This would occur when starting new PF with recorder already open and "Prompt to start recording at PF start" setting enabled.
- Set the "Shrink chart to fit on a single page" setting to default to "Off".
- Resolve issue that prevented navigation to Scoresheet when in Spanish mode.
- Under unusual circumstances, an error could occur when e-mailing or archiving a PF.

LXEdge Version 1.3.0.38 Release Notes

Released: September 5, 2025

Warning- Polygraph Files (PFs) collected in LXEdge 1.2 and later will NOT open on older versions of LXEdge. PFs collected on earlier versions of LXEdge will be able to be opened and reviewed in LXEdge 1.2 and later.

Major Updates

- Initial implementation of OSS-3.

Minor Updates

- When printing Scoresheet or OSS-3 Report, add attachment item to PF if it does not already have one.
- Added setting to enable/disable the LX7 backlight.
- Automatically create the PFs folder when a new LXEdge Directory is selected.
- Renamed PTT to PAT (Pulse Arrival Time).
- Replaced 120 Hz as allowed data rate for LX6 and LX7 with 90 Hz.
- Hide PF navigation bar while chart is running.
- Unselect simulator when selecting any other device.
- While NCCA import is in progress, show wait cursor and prevent navigation.

Bug Fixes

- Questions in Scoresheet printout and ESS report and printout could be out of expected order.
- Adding items to a series while chart is running would lead to undesired consequences.
- Attempting to navigate to a different chart while chart is running could lead to charts with duplicate names.
- Under rare circumstances, NCCA export files could incorrectly contain many rows of missing data alternating with valid data.
- NCCA import would fail when navigating to home page before import was complete.
- NCCA import would fail for charts that contained question labels ending in “IR”.
- User was able to rerun a chart that was running when Windows Task Manager was used to shut down LXEdge.
- Automatic firmware update was not working.

LXEdge Version 1.2.8.3 Release Notes

Released: August 14, 2025

Warning- Polygraph Files (PFs) collected in LXEdge 1.2 and later will NOT open on older versions of LXEdge. PFs collected on earlier versions of LXEdge will be able to be opened and reviewed in LXEdge 1.2 and later.

Bug Fixes

- Fixed an issue with an occasional failure to display some traces.

LXEdge Version 1.2.8.2 Release Notes

Released: August 5, 2025

Warning- Polygraph Files (PFs) collected in LXEdge 1.2 and later will NOT open on older versions of LXEdge. PFs collected on earlier versions of LXEdge will be able to be opened and reviewed in LXEdge 1.2 and later.

Major Updates

- None

Minor Updates

- Remove check for completed Series when starting chart.
- Only allow the last Series to be deleted.

Bug Fixes

- When deleting a Series, access to charts in higher numbered Series would be lost.
- Charts would fail to open for review if the question set template (.lxq) file associated with the chart was missing.

LXEdge Version 1.2.7.11 Release Notes

Released: July 30, 2025

Warning- Polygraph Files (PFs) collected in LXEdge 1.2 and later will NOT open on older versions of LXEdge. PFs collected on earlier versions of LXEdge will be able to be opened and reviewed in LXEdge 1.2 and later.

Major Updates

- None

Minor Updates

- Allow recorded audio/video to be reviewed without needing to close and reopen the PF
- Use the global, instead of PF, setting for "Default Scorer". This allows someone reviewing PF on a different system to default to "Reviewer".
- Added ability to delete series if it does not contain charts
- Removed the "Delete", "Archive", and "E-mail" options from the 3-dots menu inside a PF
- Modifications related to Centering
    - Show smaller arrows that indicate the direction of the centering for charts created starting with this version. Charts created in earlier versions will now show a single line with arrows on both ends.
    - Significantly reduce the averaging time in the centering calculation
- Reimplemented the "Center All" button. Added setting that allows this to be shown or hidden
- For Paragon and Paragon X DAS, reduce the displayed trace amplitude by factor of 6 for the PGauge and Aux1 sensors.
- Updated many behind-the-scenes packages

Bug Fixes

- Chart would sometimes briefly pause when offsetting or responding to a question. This could lead to dropped data around this time.
- Indication of which subtab was selected had stopped appearing on the Templates and Settings views
- When running a chart, long question set names would cause scrolling to be needed to see all the question boxes
- Changes to Personal History and Series template could be lost following specific steps
- Chart would fail to open if it was created with two DAS units selected but at least one of them was disconnected
- Unexpected Series folders would appear in the Templates folder inside the user's LXEdge Directory
- Related to conversion from 1.1 to 1.2
    - Conversion would fail for PF that does not contain charts
    - Conversion would fail when double-clicking on .lxw file inside PF that requires conversion. Fix is to stop creating a backup of the PF before conversion.

LXEdge Release Notes

- Related to NCCA Export and Import
  - NCCA export files for charts that had been converted from version 1.1 to 1.2 could have unusual sample rates
  - Properly handle missing data points in export and import
  - Slight timing differences from the original could occur when importing from an NCCA export file for the chart

LXEdge Version 1.2.6.7 Release Notes

Released: July 3, 2025

Warning- Polygraph Files (PFs) collected in LXEdge 1.2 and later will NOT open on older versions of LXEdge. PFs collected on earlier versions of LXEdge will be able to be opened and reviewed in LXEdge 1.2 and later.

Bug Fixes

- In very rare cases, a section of non-critical chart data would be corrupted. This would cause a chart to fail to load. This was observed a single time, and the chart was able to be manually repaired. The bug allowing this has been fixed.
- Under rare circumstances, LXEdge would crash when attempting to select question list for a chart.
- Under rare circumstances, LXEdge would crash with error log indicating ESS could not be loaded.
- When importing from an NCCA export file, the EDA automatic trace was incorrectly being refiltered.
- When creating a new PF, it was possible to accidentally create and then navigate to a second new PF.

LXEdge Version 1.2.5.24 Release Notes

Released: June 30, 2025

Warning- Polygraph Files (PFs) collected in LXEdge 1.2 and later will NOT open on older versions of LXEdge. PFs collected on earlier versions of LXEdge will be able to be opened and reviewed in LXEdge 1.2 and later.

Major Updates

- Added support for Paragon and Paragon X hardware.
- Added ability to import question sets from Polygraph Professional software.
- Added ability to enter notes associated with the PF.
- Show tooltips when hovering over series or charts in the PF navigation. These give information on the question sets used in the charts. Previously, the only way to view the question set associated with a chart was to navigate to the chart.
- Add ability for user to be notified when new version of LXEdge is available.
    - Check for updated version is made when software starts.
    - Check for updated version is also made when going to “About” page.
    - Can be enabled or disabled in settings.
    - Provides link to download page if update is available.

Minor Updates

- Disallow trace centering from question onset until end of response onset window. This restriction was inadvertently removed in version 1.1.5.66.
- Added to the Upload tab the ability to modify stripping settings.
- For ESS scoring of EDA, change the values associated with minus and plus artifact selections to -2 and +2, respectively.
- On the home page, reduce the width of the Date column and increase the width of the PF Name column.
- Move the “Examiner” / “Reviewer” label to the top in the “Question Scoring View” on the chart.
- Allow renaming when archiving again a PF that had already been archived.
- Improvements to behavior related to expanding series and visibility of the “+” button for adding items to series.
- Added setting that allows questions to be right justified when running and reviewing charts.
- Added setting that allows caliper line thickness to be adjusted.
- Lock PF when creating archive.
- Mitigated lag that could occur when onsetting questions.
- Added setting that allows question timer to count up instead of down.
- Moved the Drug Reference info from the About tab to the Polygraph Drug Reference tab.

- Updates to Spanish translations.

Bug Fixes

- Icons would sometimes be missing for the “Notes”, “Recorded Chart info”, and “Sensor” buttons in upper right corner of chart.
- Resolve some issues with combined charts; removed tools from combined charts.
- When copying the entire templates folder to a different location, some PF templates could not be used because the software was looking for sub-templates (e.g. Personal History) in the previous location.
- Audio/Video recording would be stopped when navigating to templates tab while inside PF. Resolved by preventing navigation to templates tab while in PF.
- When trying to start a chart while Personal History was incomplete, the Personal History would be opened but related item in navigation would not be selected.
- When a series contained both Acquaintance and non-Acquaintance charts, some scoring-related actions might not be able to be performed as expected.
- Clicking on the slider for adjusting gain would move the value to either the minimum (0.1) or maximum (0.99) value.
- On smaller screens, calipers information could be displayed too high to be visible.
- An extra number appeared after the question set names in a PF template.
- Deleting an unrun chart within a PF could lead to “Chart could not be found” errors or unexpected chart numbering.
- When editing a PF template, using button to close question set would not prevent the chart from being added to the template.
- Under certain conditions, charts would open to zoom other than 100%.
- Crash could occur when attempting to do actions like copy or archive multiple times.
- Crash would occur when ending chart and clicking on “OK” after already having ended the chart.
- In certain cases, NCCA export could cause crash or create files with unexpected missing datapoints.
- EDA data in NCCA export was not correct. This led to incorrect data when importing from NCCA export files.Test of Proportions could generate incorrect results because of incorrect determination of number of artifacts and/or numbers of relevant and comparison questions.

LXEdge Version 1.2.4.9 Release Notes

Released: June 10, 2025

Warning- Polygraph Files (PFs) collected in LXEdge 1.2 and later will NOT open on older versions of LXEdge. PFs collected on earlier versions of LXEdge will be able to be opened and reviewed in LXEdge 1.2 and later.

Major Updates

- None

Minor Updates

- None

Bug Fixes

- Intermittent issues while running charts (were resolved when reviewing charts):
  - Question ID and annotation would sometimes not appear.
  - Large sections of the chart would be shaded gray (or some other color corresponding to settings).
- Questions would sometimes appear out of order in scoresheets.
- Issues related to reviewing chart in different time from which it was created:
  - Centering events on traces might not appear, even though the associated annotation would be present.
  - Charts could appear to load very zoomed out and questions might not be zoomed when clicking.

LXEdge Version 1.2.3.3 Release Notes

Released: June 2, 2025

Warning- Polygraph Files (PFs) collected in LXEdge 1.2 and later will NOT open on older versions of LXEdge. PFs collected on earlier versions of LXEdge will be able to be opened and reviewed in LXEdge 1.2 and later.

Major Updates

- None

Minor Updates

- Changed LX6 initialization to default EDA circuit to constant current (GSR) versus constant voltage (GSC).

Bug Fixes

- None

LXEdge Version 1.2.2.24 Release Notes

Released: May 29, 2025

Warning- Polygraph Files (PFs) collected in LXEdge 1.2 and later will NOT open on older versions of LXEdge. PFs collected on earlier versions of LXEdge will be able to be opened and reviewed in LXEdge 1.2 and later.

Major Updates

- None

Minor Updates

- Added heart and respiration rates to caliper statistics.
- Improve handling when device is disconnected while previewing chart. Users can no longer start a chart without sensor data present.

Bug Fixes

- Chart data could be lost in rare instances on certain machines due to failure of sensor data to merge at conclusion of running the chart. Resolved by:
    - Fixing some potential underlying causes
    - Keeping the .bin file containing the gridded data, even after merge should be complete
    - Checking for and resolving previous .bin file merge error when loading chart
- Artifacts could appear (rare, but frequency dependent on PC performance) in all sensors simultaneously. Resolved by using timing based on packet number from DAS when reviewing charts.
- If a question set was found to be missing while navigating to a chart, all charts for that series were reset. This could lead to inability to review completed charts.
- A series in a PF template containing two or more different question sets would not work as expected when running a PF using this template.
- Clicking on the gain slider would move the value to either the minimum (0.1) or maximum (99.9) value.

LXEdge Version 1.2.1.30 Release Notes

Released: May 19, 2025

Warning- Polygraph Files (PFs) collected in LXEdge 1.2 and later will NOT open on older versions of LXEdge. PFs collected on earlier versions of LXEdge will be able to be opened and reviewed in LXEdge 1.2 and later.

Major Updates

- None

Minor Updates

- In Scoresheet "Scoring Result" dropdown, changed "Reactions" to "Response".
- Added "Scoring Result" and "Countermeasures" to the Scoresheet PDF printout.
- Disabled adding notes during question onset. Adding notes at this time could prevent Onset button from being re-enabled or cause the Onset shading for the question to persist through the duration of the chart while running.
- Enable stripping by default when adding new fields to Personal History or Series templates.

Bug Fixes

- When quickly navigating in PF, last change to Personal History or Series information could be lost. Would sometimes lead to unexpected messages related to incomplete Personal History when starting chart.
- When reviewing a chart with more than 7 minutes and 9 seconds of data, sensor data after this time would not be displayed. The data are still present in existing charts and will appear when opening in this release.
- When reviewing a PF created on PC set to a different time zone, no values would appear for the RLE and PPG PA tools.
- A chart would fail to appear when navigating back to the chart after navigating elsewhere in the PF and then back to the same chart.
- On some systems, adding notes to a chart after confirming "end chart" would occasionally cause all sensor data to be lost.
- Issues when language set to Spanish
    - Examinee names did not appear in the PF grid on Home Page
    - NCCA import failed
- In rare cases, archiving a PF that had been converted from 1.1 to 1.2 would cause LXEdge to shut down without warning.

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- In rare cases, when combining charts created in earlier versions of LXEdge some sensor data from one chart would push back the data from the next chart.
- Running a chart without traces appearing would cause a crash and subsequent inability to load this chart.
- PF conversion would fail for a PF containing a completely empty chart.

LXEdge Version 1.2.0.45 Release Notes

Released: May 2, 2025

Warning- Polygraph Files (PFs) collected in LXEdge 1.2 and later will NOT open on older versions of LXEdge. PFs collected on earlier versions of LXEdge will be able to be opened and reviewed in LXEdge 1.2 and later.

Major Updates

- Major overhaul of sensor data processing; required significant changes to other areas
- Significant improvements to chart performance related to overhaul
- Sensor data is now stored in gridded format
    - When opened, PFs created in earlier versions will be converted to new format
- Added calipers
- Use updated algorithms in calculation of pneumo line excursions used in calipers and RLE Tool
    - Excludes 3 second interval centered on the question response
    - Based on filtered data (as displayed on the chart)
- Able to record from more than one DAS at a time
- Modifications to Sensor Settings
    - Now associated with specific hardware
    - Moved to the Devices tab
- Renamed some Sensors and Tools. Some of these changes will only be seen when newly installing or after deleting the Settings file.
    - “PLE” was changed to “PPG”. This includes renaming to “PPG Pulse Amplitude”
    - “Abdominal Respiration” was renamed “P1”; “Abdominal RLE” was renamed “P1 RLE”
    - “Thoracic Respiration” was renamed “P2”; “Thoracic RLE” was renamed “P2 RLE”
- Custom Reports
    - Added “Reports” tab to the Templates view. While inserting merge fields to a custom report, the Personal History and Series can be specified, allowing custom merge fields to be used.
- Scoresheet Printout
    - PDF is created, displayed and saved in attachments. Automatically named as either “Examiner” or “Reviewer” along with timestamp
- LXCAT does not work with this version. Plan to reimplement in the future when needed.

Minor Updates

- Add ability to show data centered or uncentered
- Add ability to view Automatic and Manual EDA data at the same time
- Options for “Save File Data Rate” changed to 30 Hz, 60 Hz, 90 Hz, 180 Hz

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- Improve behavior related to adding note to a chart. Double-clicking on chart now brings up the note ready to start entering text without requiring another click inside the note.
- Add settings that allow the locations for the “Templates” and “Archives” folders to be specified separately from the “LXEdge Directory”.
- Add setting that determines whether to show or hide the examinee names on the Home page.
- Add setting that determines whether to show or hide the default templates on the Home page.
- Add setting that allows specifying the color annotations are displayed on the chart.
- Add option to strip question set name.
- Photos taken using recorder are always added to the PF, even if the Photo tab is not currently in view.
- Move biostatistics (e.g. EDA resistance, heart rate, cuff pressure) below the chart.
- Reduce the default amplitude for simulator traces.
- Display a splash screen while LXEdge opens.

Bug Fixes

- Default question set “LEPET 4RQs” did not contain a sequence.
- The “3 dots” menu on the series could not be used when media window was associated with chart.
- The “Cancel” button in the “Save As” dialogue in question set editor incorrectly did the same thing as the “OK” button.
- In the Question set editor, the “Save” button would incorrectly be disabled after using the “Save As” button. This could lead to unsaved changes to question set.
- While selecting question sequence(s), clicking on “Select” multiple times could lead to addition of extra charts.
- Software crash could occur or changes entered for Personal History and Series could be lost if making rapid changes and potentially navigating away and back.
- Chart playback could continue for several minutes after end of chart.
- Dragging chart so the right edge of the chart was in negative time would cause media playback to be out of sync with the chart.
- The EDA and cardio statistics would continue updating even after the end of the chart.
- Crash could occur when attempting to archive under specific circumstances.
- On some systems, biostatistics would update inconsistently or even completely stop updating.
- When set to Spanish, incorrect version and copyright were being displayed and stored with charts. Also, PFs could not be created or loaded.

RELEASE NOTES: LXEdge Version 1.1.8.2

Released: April 9, 2025

Minor Updates

- Completely removed the “Center All” button and function. It had been inadvertently re-enabled while running charts starting in version 1.1.5.66.

Bug Fixes

- When reviewing in a later version a chart that had been created in version before 1.1.6.23, questions and other annotations would be missing from chart after time of a “Center All”.

RELEASE NOTES: LXEdge Version 1.1.7.5

Released: April 1, 2025

Minor Updates

- Add check for missing media (audio and video) files when PF is opened. Previously this check was done when navigating to charts.
- Add time zone information to the Chart Info.
- Prevent closing LXEdge while a PF is open.

Bug Fixes

- Audio would not play back for charts reviewed on computer set to different time zone than the computer the charts were recorded on.
- Charts could be displayed in unexpected order on scoresheets.
- Message from replay system about incomplete attachment could occur when navigating among items in the PF while recording was in progress.
- When the “Very Low” audio setting is used, the “_initial” file was not being converted and deleted if the PF was closed while audio was still being recorded.
- Through rare circumstances, the last minute or so of sensor data were not being displayed for all 3 charts in a PF.

RELEASE NOTES: LXEdge Version 1.1.6.23

Released: March 14, 2025

Major Updates

- Significant refinement to printing
    - Add ability to split a printed chart into multiple pages. Setting determines whether to split or to shrink chart to fit on one page.
    - Include header with details of contents on every page.
    - Improve overall formatting and appearance.
    - Add ability to print questions asked, in the order they were asked, for each chart.
    - Removed button that would print only the currently displayed chart.
    - Print process creates a PDF that is placed in the PF's attachments folder.
- Improvements to user-experience related to enabling RLE and PPG Pulse Amplitude tools.
    - Tools can now be enabled on Sensors tab in settings where they should stay as set.
    - Tools (and all other sensors) can (and should) be enabled and positioned by going to Chart tab with no PF open. Changes here impact new PFs going forward but will not stay set retroactively.
    - If tools are enabled, they will appear right away when reviewing a chart.
    - Modified color scheme for the RLE and PPG tools. For a recommended score of –1, the dot will be red with a red border and red font. For a recommended score of +1, the dot will be green with a green border and green font. For a recommended score of zero, the dot will be white with a blue border in the PPG tool. For the RLE tool, a recommended score of zero will have a white dot with a blue boarder and blue font if the R/C ratio is less than 1.2:1, or gray with a blue border and blue font if the R/C ratio is greater than 1.6:1.
- Related to Audio/Video settings
    - Added "Very Low" audio quality option. Creates files with sizes of about 0.2 MB / minute. Implemented using ffmpeg to shrink audio files after recording is complete.
    - Show the audio quality options when capture mode is set to Audio for a camera.
    - Resolved some issues with audio quality settings not being handled correctly.

Minor Updates

- Removed the Pneumo Line Length sensors.
- Change the "Review Video" function to "Review Media" and allow playback when only audio files are present.
- Create the file association between .lxw files and LXEdge as part of install process. Previously association was created the first time LXEdge was started.
- Related to templates
    - In user-defined question set templates, only show "New Folder" dialog when right clicking on a folder
    - Prevent dragging of folders in user-defined question set templates

  - Improve handling of attempting to access templates and folders that were deleted using File Explorer
  - Improve handling of some rare scenarios related to template naming and selection
  - Removed the “Clear Search” hotkey
- Related to PF Tools
  - Change term “zip” to “archive”.
- Changed the algorithm used to create checksums used in detecting changes to attachments and media files. The previous algorithm could be blocked in more secure environments.
- Reorder actions that happen when pressing spacebar to mitigate potential delays.

Bug Fixes

- When attempting to open a chart with audio/video, error message could incorrectly appear indicating the recording could not be used because it had been modified since attaching. Was related to closing a PF without stopping recording.
- While running or previewing a chart with more than 5 minutes of chart visible, the traces would not reach to the right edge of the chart. This was observed both when using a high resolution 4k monitor and when stretching LXEdge across two monitors.
- EDA and Cardio details would sometimes be missing in the “Chart Info” associated with a chart.
- When editing a question set template, changes to Id induced by changing Question Type were not immediately reflected in Sequences.
- Attempting to add a new question set template folder would fail when LXEdge Directory was set to a location on OneDrive.
- When opening a PF, the item selected would not always match the item displayed.
- Bugs related to Spanish version
  - The expand button in the PF template editor was not visible
  - Text in header on settings page was not updated right away
- Bugs related to Combining charts
  - Crash would occur when attempting to Combine Charts when no charts were present
  - LXEdge would attempt to display video associated with Combined Charts
- Playback of text-to-speech would fail intermittently on some systems.
- Media playback would sometimes fail to start or stop when expected.
- Duplicate warning messages would appear when navigating away from a chart with unsaved changes to questions.
- Related to PF Tools
  - Deleting a PF using PF Tools would occasionally fail if user had previously played media associated with the PF
  - Crashes would sometimes occur when using PF tools to e-mail a PF
- When editing a Personal History or Series template, clicking on “Close” or “Save” with an empty option present in a dropdown list field would cause the field to be completely deleted.

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- Multiple “_temp” and/or “_moving” files would sometime be present inside a PF and/or its subfolders.
- On the Audio/Video tab, the Record checkbox would not be visible for microphones with very long names.
- Crash could occur when quickly navigating away after ending a chart. Resolved by preventing navigation until chart was finalized.

RELEASE NOTES: LXEdge Version 1.1.5.70

Released: February 4, 2025

Major Updates

- Changes related to "LXEdge Directory" setting:
    - Setting now applies to all users of a computer instead of just the current user.
    - Default is still set to user's "Documents" folder, but LXEdge now properly accounts for file migration if user later enables OneDrive.
    - Setting can now only be changed using the folder-selection dialogue.

Minor Updates

- Deleted PFs and templates are now placed in Recycle Bin instead of being completely removed from computer.
- Added file association between PF template (.lxw) and LXEdge. This allows double-clicking on the .lxw file inside a PF to open the PF in LXEdge.
- Simplify steps for creating Archive in PF Tools by removing "Destination Location" textbox. Minor changes to text on PF tools.
- Clear search button (blue "X") is always shown in the Search bar.

Bug Fixes

- Resolve issue that "LXEdge Directory" setting would revert to default value when installing a new version of LXEdge.
- Resolve issue that enabling OneDrive could make it appear like templates and PFs were missing.
- Resolve issue that playback of text-to-speech in charts with Speech Synthesis "Record to file" setting enabled would fail.
- Resolve issue that running charts out of order would lead to inability to open charts because of chart internal inconsistency error.
- Resolve issues related to combining charts:
    - When combining charts created in earlier versions of LXEdge, the labels for all charts would be "Series 0".
    - Rarely, traces could appear unusual near beginning of a chart. This was primarily an issue with charts recorded using simulator data.
- Resolve issues related to templates:
    - When using the "Change" buttons while editing a PF Template, the information displayed would not update as expected.
    - On Home Page, amount of information displayed in PF Template preview could change when navigating to different tab and back.
    - Template list was not being updated as expected when deleting or renaming a template.
- Resolve issues related to template search:

  - Search would not clear when navigating from one template tab to another. This could make it appear that templates were missing.
  - Search would not work as expected after clearing a search that had only shown a single result
- Resolve unexpected confirm dialogue and potential crash when deleting PF internally from the Navigation bar.

RELEASE NOTES: LXEdge Version 1.1.5.66

Released: January 15, 2025

Major Updates

- PF Tools tab has been added
    - PFs can be copied or moved to alternate location
    - PFs can be deleted and emailed
    - PFs can be archived into a zip file and restored from said format
    - Data stripping options have been clarified and are now located on this tab instead of in system settings
- Voices available in the "Time & language -> Speech" settings in Windows settings can now be used for speech synthesis in LXEdge
- Video recorded outside of chart times can now be reviewed in a Multimedia reviewer window inside LXEdge
- Behind-the-scenes overhaul of chart-related code

Minor Updates

- Chart Info tab now provides more information
    - Starting/Stopping Cardio cuff pressure
    - Starting/Stopping/Average EDA resistance
    - Chart end time
- Re-enable ability to combine charts
- Allow editing of Personal History and Series information unless PF has been locked. Editing was previously prevented once a chart had been run.
- Data stripping options are now available when emailing/archiving within a PF
- Prevent annotations from being added outside of chart runtime
- Language setting has been moved to Settings -> System
- Bulk import of LXSoftware Question Sets now maintains the imported folder structure
- Improved functionality of use of question set templates imported from LXSoftware
- Add more details to error messages related to Upload button and opening charts
- When opening a chart for review, select the first Relevant Question
- All Series can now be expanded at once with the "Expand All" button
- Archived PFs are no longer locked
- For Acquaintance tests, add "Key" to list of valid question iDs
- Removed "Prompt to start recording at chart start" setting

Bug Fixes

- Resolve issue that software could crash when opening blank question set within PF
- Resolve issue that PF created from a blank PF template would not open correctly

LXEdge Release Notes

- Resolve issue that “Open Folder” button on attachments tab would open incorrect folder when nothing had been attached
- Resolve some issues related to chart playback and recording
- Resolve issue that chart preview would appear when clicking on chart tab immediately after creating/opening a PF
- Data Stripping issues have been resolved
- Resolve crash that could occur when dragging items in Series Template editor
- Spanish translation of certain strings has been fixed
- Resolve issue that Chart tab would be highlighted when opening a template for editing
- Resolve some issues related to filtering templates
- Resolve issues with sequence navigation that could occur when one or more sequences within the question set had been deleted
- Errors when attempting to navigate from a running chart have been resolved
- Errors when using Change button while in Template editor have been resolved
- Fixed issues related to usages of Upload button when PF contains media files
- Resolve issue that expected voice might not be used when testing speech synthesis inside question set editor
- Resolve issue that “Stopping A/V Recording” would always appear when navigating to Home Page, even when recording was not in progress

RELEASE NOTES: LXEdge Version 1.1.4.31

Released: November 1, 2024

Major Updates

- Added Spanish language support
- Related to scoring and scoresheet
    - Add setting of which scorer (Examiner, Reviewer, Reviewer Two) should be selected when scoring a PF for first time
    - While within PF, always return to most recently selected scorer
    - Shorten scorer labels to save space
    - While reviewing chart, selecting question at bottom of chart now updates selected question in scoresheet
    - Add button to show/hide the scoresheet inside the chart; the scoresheet will no longer be translucent
    - Hide the “Show Report” button in the Compare Scoresheets view

Minor Updates

- Limit number of characters in question labels to 8
- Remove the “Audit Log” tab
- Refinements to appearance and behavior related to selecting and editing templates
- Add vertical scrollbar to About page
- Make it easier to activate tooltips associated with tab items in left menu
- Remove Cardio Thumb sensor from LXEdge
- Remove redundant toggles to enable/disable that appear at top of sensor settings
- Hide the option to combine charts until some issues have been resolved

Bug Fixes

- Line length traces would not appear while previewing or recording chart
- Re-enable PF integrity checks that verify that charts have not been swapped or removed
- Selecting a question near the end could adjust zoom while reviewing chart
- Extra blank window would appear when starting LXEdge or LX Recorder in Windows 10
- When adding item to template, unexpected behavior could occur when clicking “Close” without selecting item
- When submitting an item to Contact Support, double submission would occasionally occur

RELEASE NOTES: LXEdge Version 1.1.3.31

Released: September 24, 2024

Major Updates

- Users can now add charts from different question sets to series
- Series now show in reverse order; the most recently created series appears at the top of the list
- Removed minor delay in chart display from real-time. This was most noticeable as very slight delay when pressing spacebar for question onset, but also impacted the sensor traces.

Minor Updates

- Tooltips for Ctrl-Mouse wheel function over trace arrows have been removed
- Adjusting trace gain using the mouse wheel has been further refined and can now be done in even smaller increments
- When opening a PF, all series except for the most recent are collapsed
    - A new chart can only be added to a series if it is expanded
- Added ability to allow adjusting width of 5-second vertical chart divisions. This can be done by editing a line of code in Settings.xml file.
- Decreased spacing between chart items in Navigation view on left side of PF
- For imported charts, question set editor is now read-only
- Export PF tab has been refined to indicate Import/Export function
- "AIIP and “APA” Default Question Set Templates have been removed
- Adjusted the RLE Tool constraints to comply with those shown by research to maximize correlation to ground truth.

Bug Fixes

- Prevent 1-second gridlines from ever appearing. They would appear for certain chart views.
- Moving cursor within a chart note using arrow keys no longer changes the selected chart question
- Annotations no longer appear in the middle of charts, and have returned to appearing at the bottom of charts
- Issues with exporting imported data have been resolved

RELEASE NOTES: LXEdge Version 1.1.2.72

Released: August 21, 2024

Major Updates

- Update Charting package to latest version
- Overhaul of AV and Chart recording and playback to resolve significant issues
- Add ability to import NCCA ASCII files
- Combining Charts
    - Allow users to combine multiple charts within a PF for cross reference and comparison
    - Applies to multiple charts in either the same or different series
    - Combined charts are shown in a separate window for navigation
    - Each chart in the Combined Charts view has a separator for easier distinction between charts
    - Chart questions are marked at the bottom of the Combined Charts view
- Chart Zoom
    - Display current zoom level while viewing a chart
    - Allow for a quick/easy return to 100% zoom level after zooming in or out
- ESS Report Updates
    - ESS Reports now require a new field, “Exam Type” which specifies either a Single Issue or Multiple Issue exam
    - The “Decision Rule” dropdown has been updated, now allowing only Grand Total Rule, Two Stage Rule, Subtotal Score Rule, and Federal Zone Rule as selection options
    - Both “Exam Type” and “Decision Rule” must be selected before the ability to create an ESS Report is allowed
    - “Decision Rule” can no longer be found in the Settings and can only be accessed when updating scoresheets

Minor Updates

- Chart questions can now be navigated using keyboard arrows
- Removed the “Reset” button at the top of the chart
- When opening a PF from a .lxw file, the PF is no longer moved to “My LXEdge” folder
- PFs will be locked when opened from an “Upload Without Stripping” file
- Gray vertical line no longer appears on chart when Center All is selected
- Removed “To Live” button from the top of charts during recording
- Moved the “Speak Text” buttons that are shown when editing Question Sets
    - Previously shown after the “Media File” field and is now located between the “Text” and “Expected Response” columns
- Allow limited editing of questions between charts in a series
- Streamlined Question Set Template editing process
    - The “Type” field can no longer be changed after it has been selected in Question Set creation

  - Similarly, the "Type" field is no longer accessible when editing a Question Set Template
- Allow for trace movement independent of the trace arrow
  - This can be achieved by hovering over a trace arrow with the mouse, holding Ctrl + scrolling the mouse wheel
- Allow for greater precision when adjusting the gain at smaller amounts
- Add option to store spoken text to speech to files
- Advancing to a question in scoresheet now centers that question on the chart
- Remove "Use Alternative Fill Source" setting as it is no longer necessary after update to Charting package

Bug Fixes

- Resolve many issues with AV and chart playback
- Traces can no longer be dragged below the bottom of the chart view
- Fixed some instances where the X-Axis Visible Range of a chart displayed incorrectly
- Fixed a default answer in Utah CQT 3RQ Question Template
  - Previously, the Expected Answer to the Sacrifice Relevant question in this template was set to "No" when it should have been "Yes"
- Fixed chart jitter when onsetting or offsetting questions
- NCCA Export improvements
  - NCCA Export folder location has been fixed to be directly under the PF folder
  - NCCA output file names have been fixed to properly number each chart uniquely by series and chart number
- Fixed instances where the Add Question button wasn't working for a newly created Question Set
- Resolve issues with playback of videos using a specific audio codec by converting the videos before playback

RELEASE NOTES: LXEdge Version 1.1.1.32

Released: May 15, 2024

Major Updates

- Allow question text to be edited in between charts within a series. Edits will be used in subsequent charts run in the series.
- Remove ability to remove charts within a PF that have not been run.
- Chart creation
    - Adjust so the time-axis scaling matches paper charts (0.5” / 5 seconds)
    - Do not allow zooming of the time axis
    - Do not allow panning of the time axis
- Chart review
    - Open chart to the standard time-axis scaling
    - Allow scroll-wheel zooming of time-axis
    - Allow time axis to be panned
    - Clicking on a question centers that question in the view.
- Chart replay
    - Make it so that questions now advance automatically during replay.
- Audio/Video Settings
    - Added ability to select audio quality for microphones. Resolves issue that audio file sizes were very large.
    - Cameras and microphones now keep their settings after being unplugged and plugged back in.
    - When plugged in, cameras and microphones appear without needing to navigate away and back to the settings.
    - Added ability to delete a previously added Network Camera.
    - Modified the resolution for the “Medium” video setting.

Minor Updates

- Settings
    - Made it clearer that the top item in Data Stripping settings enables/disables stripping completely.
    - Changed the minimum allowed Question Timer setting from 18 seconds to 0 seconds.
    - Removed the “Display Grid at 5 Second Divisions” setting.
    - Removed the “Use Application Settings” setting.
    - Removed the “Maximum Data Display Rate (Hz)” setting.
- While running a chart, repeated questions will show in the question bar.
- While running a chart, when a question is completed, the program will move to the first unasked question.
- Adjust default sensor vertical positions to match positions for a typical examiner.

LXEdge Release Notes

- Added button to show the “Release Notes” on the web.
- Do not allow user to close LXEdge while running a chart.
- Now disables “Center All” button while running a chart.
- On the question template editor, ensure that the question boxes in the sequences are always wide enough to contain the entire Question ID.
- Prevent LXCAT users from selecting a different question set or modifying questions while inside PF.
- Hotkeys
    - “F10” now appears instead of “System” for the hotkey associated with Unexpected Behavior.
    - Ignore “Ctrl” key when setting hotkeys.
    - Removed the “Question Completion” and “Question Set Editor” hotkeys.
- Removed the Save button from the Personal History and Series entry views.
- Converted the Default PF template to the new PF format.
- Changes to Preview PF template view
    - Show the name of the selected Personal History.
    - Added Scoresheet and Report.
    - Standardized font and margin.

Bug Fixes

- Largely eliminated sluggish behavior that could occur after extended usage of LXEdge.
- Resolved issue that taking a picture with the LXEdge Recorder would mark the current tab complete, even if it was not the Photo tab.
- Resolved issue in Question Template selector that clicking “New Folder” repeatedly would appear to create multiple folders called “New Folder”.
- Resolved issue that search function didn’t work for question set templates.
- Resolved issue that under certain scenarios, chart/media playback would revert to beginning instead of continuing from current spot.
- Resolved issue that prevented LXEdge from updating the firmware on older LX6 hardware. This was preventing usage of that hardware with LXEdge.
- Resolved issue that prevented old LXCAT PF’s from being loaded.
- Resolved issue that pressing “Alt” key would impute an annotation on the chart.
- Edits to last edited field in Personal History could be lost when navigating to Series.
- Related to PF Template
    - Resolved issue that following certain steps, changes to a PF template would not be reflected in a PF immediately created from the template.
    - Resolved issue that a message related to missing question set would be incorrectly shown when creating PF from PF template that included a question set from a folder.
    - Resolved issue that PF created from edited Default PF template would not contain Scoresheet or Report.
    - Resolved issues that series could be numbered out of order following deletion or reordering.

- Resolved issue that the Annotation (F1-F12) hotkeys would be ignored under a very specific situation.

Known Issues

- While running a chart, a slight jump sometimes occurs at question onset or offset, response, and selecting another question.
- The ESS Scoresheet Auto Select function is not working as examiners would expect it to. We will be adjusting the drop down menus in the future to Scoring Types: ESS, 3-position, 7-position; Exam Type: Single-Issue (Non-Independent), Multiple-Issue (Independent); Decision Rules: Two Stage Rules, Subtotal Score Rules, Federal Zone Rules, Grand Total Rules. Examiners should manually select the correct Scoring Type and Decision Rules in the meantime.

RELEASE NOTES: LXEdge Version 1.1.0.20

Released: March 14, 2024

Major Updates

- Overhaul of Question Set Template Selector
  - Question Set templates can now be organized into folders
  - Templates can be dragged from one folder to another folder
  - Default Question Set templates are now organized into folders (Lafayette, AIIP, APA)
  - Known issue: Search function does not work
- Overhaul of Question Set Editor
  - Efficiently make use of available space
  - Added button for speak the text
  - Sequence-related changes
    - Sequences are always visible
    - Moved to top of page
    - Selecting a Sequence changes questions in list below
    - Dragging reorders the questions; new order is reflected in list below
  - Removed the "Reorder Questions" button; no longer relevant with the added ability to reorder sequences through drag and drop
- Overhaul of PF Structure (impacts both PF templates and running PFs)
  - Scoresheets and Reports are now subsets of a Series; Series within a PF are no longer required to all have the same Scoresheet and/or Report items
  - PF Templates created in previous versions of LXEdge will be converted to the new format.
  - PFs created in previous versions of LXEdge will be converted to the new format. Before conversion, a copy of the PF is placed in "My LXEdge/Legacy PFs".
  - *Important Note: PF Templates and PFs created starting with the latest version (1.1.0) of LXEdge will not open in earlier versions of LXEdge (1.0.1 and earlier)*

- Changes to PF Template Editor
  - Scoresheet and Report have been moved from the "Add Item" button located outside the Series to the "Add Item" button located inside the Series
- Changes while running a PF
  - User has options of:
    - Starting with a custom PF template with Series that contain all the desired Charts, Scoresheets, and Reports
    - Adding all Series, Charts, Scoresheets, and Reports as needed; previously Scoresheets and Reports were not able to be added while running PF
    - Some combination of these two options

  - "Add Chart" button has been removed from bottom of the navigation bar (was located above "AddSeries")
  - A new "+" button has been added to the Series. This allows adding a Chart, Scoresheet, or Report while running a PF; previously the user had no easy way to do so if item was not already in PF template.
- Added ability to save a Question Set from a Chart as either a "Template" or a "PF Template"
  - To Access, click the "Edit Questions" (pencil) button in lower left corner and then "Save As" in upper right corner
  - "Save as a Template…" brings up dialog for specifying folder and name for storing the template. This template can then be used in any future PF.
  - "Save as PF Question Set…" brings up dialog for specifying name. The template will be stored inside the "Question Sets" folder within the PF and is available for use in later series within this PF.
  - After adding a new Series, the PF Question Set Templates appear in a list near the bottom of the control for picking the template.

Minor Updates

- Changed default camera setting from "Video" to "Audio/Video"
- The name of the Question Set and Sequence number now appear in the lower left corner of the chart

Bug Fixes

- Fixed the logic used to check if firmware updates are needed for DAS or other hardware. Include the latest LX6 and LXCAT firmware versions.
- Fixed typo in the default Report Template. (changed Examiner to Examinee in one place)
- Resolved issues related to chart review and media replay
  - When clicking on a question, chart now scrolls so that the question's onset appears on the right edge of the chart instead of centering the question in middle of chart
  - Resolved issue that chart replay would restart from beginning when pressing play after clicking on a question
  - Known issue: Questions do not automatically advance during replay

Known Issue

- After extensive single session use, LXEdge may exhibit sluggish behavior. Restarting LXEdge when possible will restore performance.

RELEASE NOTES: LXEdge v 1.0.1.181

Released: February 1, 2024

Major Updates

- Performance Improvements
  - Updated chart saving interval to 1 minute.
  - Avoided sluggishness when holding down keys like the spacebar.
- Chart Enhancements
  - Displayed asked questions in order at the bottom during chart review.
- Audio/Video Recording Changes
  - Allowed users to choose resolutions for video storage.
  - Conducted a significant overhaul of the recording application and Audio/Video settings.
  - Introduced multimedia support for attaching recordings or images to questions.
  - Improved behavior related to splitting recordings into multiple files.
- Custom Reports
  - Allow editing of Report template from the Report item inside PF template.
- Quality Control
  - Improvements to opening archived files.
  - Added ability to update PF without data stripping.
  - Included settings for multimedia playback and opening archive files.

Minor Updates

- Chart Enhancements
  - Reset button changed sensor display settings to original values.
  - Added an option to display charts at fixed 5-second divisions.
  - Modified default annotations to match LXSoftware.
  - Allow spacebar to maintain expected behavior after clicking on Annotation buttons or buttons at top.
- Question Editor Improvements
  - Added spell check, question text wrapping, and question reordering.
  - Renamed and refined various elements for clarity and usability.
- System Settings
  - Allowed users to configure the location of the LXEdge PF directory.

Bug Fixes

- Resolved various issues, including crashes, UI redraw problems, and glitches in chart display and data export