

PRODUCT RELEASE NOTES

Model: Ponemah™
Version: 6.50
Build: 013732-001
Date: June 2019

Product Release Notes for Ponemah v6.50 indicate revisions made to the Ponemah application since the release of v6.20. Please note, Ponemah v6.31 was not a commercial release on Ponemah.

Compatibility

Ponemah v6.50 is compatible with the 64-bit version of Windows 10. It is also compatible with Microsoft Office 2007 or greater.

New features, enhancements, and fixes

Ponemah Core

Reference #	Release Version	Description	Disposition
44847	6.50	Added TLS to Email Alerts	Enhancement
43649	6.50	Improvements added to allow user to customize data export output while in Idle Mode by selecting to include only user-designated signals.	Enhancement
42980	6.50	Added DSI-Link 3.0 support	Enhancement
42042	6.50	Fix added to correct experiment log export error caused by invalid characters.	Fix
41504	6.50	Fix added to support reuse of transmitters within an Experiment.	Fix
35681	6.50	Fix added to adjust the width of columns in Pivot Compatible Outputs to match the contents of each column.	Fix
44220	6.42	If an experiment contained more than one subject and the logging mode was set to epoch, trigger channel selection did not behave as expected. This has been corrected.	Fix
43676	6.42	Fix added for issue where the offset for pressure data from Ponemah v5.x was not correctly imported	Fix

43655	6.42	Ponemah 5x JET-BP data was not imported correctly. This has been fixed.	Fix
43615	6.42	Fix added for issue where incorrect columns in the Data Reduction and Derived tabs of an Excel output resulted when data was exported in Idle mode	Fix
42977	6.42	Added EEG Analysis Module support	New
42975	6.42	Updated compiler to Visual Studio 2017	Enhancement
42086	6.42	Fix added for issue where Ponemah does not jump to the correct position in a video file when double-clicking on a line in the derived data table	Fix
42047	6.42	Fix added for issue where Ponemah v6.4x would crash when trying to open converted Dataquest ART data after first analysis in Ponemah	Fix
30327	6.42	Added EDF file format as an output option	New
41431	6.41	Fix added for issue preventing data export during acquisition.	Fix
40951	6.41	Permit saving of Marks without saving derived data.	Enhancement
40031	6.41	Improvements added to increase efficiency of saving derived data by having selectable options for Enabling Excel Output, Pivot Compatible Output, and saving the results database.	Enhancement
40240	6.40	Fix added to correct issue where enabling Digital Display and applying to too many subjects resulted in a system crash.	Fix
38789	6.40	Remote Connection capability added to allow external applications to connect to a Ponemah acquisition system and receive parameter data. This is an optional paid feature.	New
37843	6.40	Removed audible notifications (beeps) to prevent user and test subject disturbance.	Enhancement
37574	6.40	Fix added to correct system freezing issue when implants were dragged from one subject to another in the Subject Configuration page.	Fix
37482	6.40	Fix added for issue where the system would crash during Experiment creation if the Experiment name contained too many characters.	Fix
37200	6.40	Fix added to correct issue where the system would crash if exporting of data in a new Experiment was attempted without having acquired any data.	Fix

36572	6.40	Fix added for issue where the ProcessMonitor application crashes with an indexing error if access to the same process is attempted more than once.	Fix
36390	6.40	Updated privileges to allow User Only access for organizations that prohibit users from operating as Administrators.	Enhancement
35178	6.40	Added all hotkeys to improve user efficiency. Please see the Ponemah Hotkeys document on the DSI Support Knowledge Base and on the DSI Support Mobile App for a comprehensive list.	Enhancement
39316	6.33	Added a Graph Defaults menu to allow users the ability to customize the signals displayed and y-axis range for each signal type when using the Arrange by buttons to autoconfigure graph pages.	Enhancement
39517	6.33	Fix added to Experiment Export feature to display RealTime within the Derivations tab in the users' time zone, instead of Coordinated Universal Time (UTC).	Fix
39430	6.33	Fix added to permit the users the ability to Export or Cancel from the Experiment Export dialog when a large number of Subjects are listed in the Subject Selection column.	Fix
39356	6.33	Fix added to display Events entered during an Acquisition or Review session in the Events column of the Excel output Derivations tab when using the Experiment Export feature.	Fix
39354	6.33	Fix added to correctly display the column headers of the Graph Setup when using a 64 bit, Windows 7 Japanese Operating System.	Fix
37228	6.32	Fix added to allow users the ability to make changes to the Subject Details or Channel Details when using a Ponemah v6.30 Post (Review only) license. Derived Parameters may now be enabled or disabled.	Fix

38522	6.32	<p>Fix for Ponemah unexpectedly shutting down during acquisition due to an unhandled exception from the built-in Process Monitor when multiple 3rd party applications are started and stopped.</p> <p>Workaround:</p> <ol style="list-style-type: none"> 1. Select Setup menu Application Configuration 2. Select Advanced 3. Navigate to SystemMonitor.Processes.Level 4. Update Value from 1 to 0. 	Fix
38539	6.32	Fix for Ponemah unexpectedly shutting down upon Save & Exit from the MX2 Configuration dialog when greater than 128 input channels are present within the Experiment.	Fix
38574	6.32	<p>Fix for Ponemah preventing more than 64 subjects to be configured within an Experiment. Should the user have greater than 64 subjects, a popup dialog would be presented upon clicking Save & Exit from the MX2 configuration stating “A maximum of 128 subject can be configured.”</p> <p>Ponemah now permits the expected 128 subjects per Experiment maximum.</p>	Fix
34039	6.30	Added Parameter Viewer feature to quickly and easily visualize Derived Parameter data.	New
34387	6.30	Added Subscription Licensing to allow time-based licensing schemes and notifications.	New
32270	6.30	Added Windows 10 support.	Enhancement
33788	6.30	Improved location of the Derivations and DataReduction Pivot Compatible sheets within the Excel output to be more easily located when large numbers of animals are being used.	Enhancement
34427	6.30	Added the ability to use Experiment Export Data... to export Derived Parameter and Data Reduction data from Idle mode of a Review while Acquiring instance of Ponemah while actively acquiring data.	Enhancement
34993	6.30	Updated the Export Data... Excel file naming convention to use a 24-hour clock to more easily discern when files were created.	Enhancement
35171	6.30	Formatted the Date and Time columns of the exported Pivot Compatible sheets as Date and Time values within the Excel output to more easily create pivot tables.	Enhancement

35268	6.30	Updated the Experiment menu Export Data... feature to allow users the ability to choose to only export the Pivot Compatible Sheets , only export the Individual Subject Sheets , or both.	Enhancement
35680	6.30	Formatted the Value of the exported Pivot Compatible sheets as a Number within the Excel output to more easily create pivot tables.	Enhancement
35930	6.30	Added an entry in the Application Log when an email alert is sent.	Enhancement
35538	6.30	Fix for the default Analysis Modules settings not updating upon changing the Species type within the Subject Setup.	Fix
35602	6.30	No longer placing zeros into the Results Database during an Acquisition with no signal is present. This was updated to placing NULLs into the database to more accurately represent the data.	Fix
36116	6.30	When exporting (Experiment Export Data) results generated during acquisition using Ponemah v6.12 and v6.20, the resultant Excel file incorrectly reports the Start Time (blank cell) from the first line of logged data for each acquisition performed. This has been corrected in Ponemah v6.30, in addition, a notification has been added to the Export Data dialog to inform the user if the currently loaded Experiment contains invalid data/time values. The erroneous values can be corrected by loading the data into Review and selecting Save Derived Data.	Fix
36119	6.30	The Export Data dialog and Exported data displayed time based on the local time zone instead of the time zone in which the Experiment was collected. This has been corrected.	Fix
35942	6.30	The progress dialog may show incorrect information when using Export Data with Data Reduction enabled. Percentage complete greater than 100 is displayed. This has been corrected.	Fix
36083	6.30	Remote Notification's email alert will now use the Derived Parameter units instead of the Channel's units.	Fix

36048	6.30	<p>During acquisition, if alarms are used with multiple schedule groups, and if an alarm is active at the end of a schedule it will report an alarm on each logged line of the unrelated schedule groups. This may result in multiple email alerts if they are enabled.</p> <p>This has been corrected.</p>	Fix
36028	6.30	<p>The Application log will now list the Acquisition start time in local time instead of UTC time.</p>	Fix
35679	6.30	<p>When selecting the Apply Channel Settings to Similar Channels button in the Subject Setup Channel Details dialog, an informative dialog is presented. When many channels are affected, the OK/Cancel buttons were not visible.</p> <p>This has been corrected.</p>	Fix
30856	6.20	<p>The Ponemah software was updated to run as a native Windows 64-bit application.</p>	Enhancement
32789	6.20	<p>Added an Apply to Similar Channels button to the Channel Details page of Subject Setup. This permits the user to custom configure one of the Subjects' Channels in the list and apply those same custom settings to all Channels defined to the same Analysis Module. This includes the following Channel Detail settings: Parameters, Digital Displays, and Alarms selections.</p>	Enhancement
33491	6.20	<p>The Autoconfigure and Autoaggregate buttons located within the Graph Setup dialog to facilitate easier graph configuration have been relabeled to more specifically state their purpose. The Autoconfigure button has been updated to Arrange by Subject, which will create a unique graph page per Subject. The Autoaggregate button has been updated to Arrange by Signal, which will create a unique graph page per Signal.</p>	Enhancement
32793	6.20	<p>Clicking the Arrange by Signal button within Graph Setup creates a graph configured with similar signal types. Originally, the label generated for each configured signal was the Channel label, making it difficult to distinguish which Subject the signal belonged to. This has been updated to label each signal with the Subject Name.</p>	Enhancement

32798	6.20	When using the Arrange by Signal button to automatically configure the graph pages, the signals would be difficult to see if more than 8 signals were configured. The user can now define the number of signals Ponemah will automatically configure per graph page when selecting the Arrange by Signal button. For example, if the maximum number of signals defined per graph page is 5, and there is a total of 15 blood pressure signals, selecting the Arrange by Signal button will result in three graph pages being configured, each with 5 signals configured per page.	Enhancement
29515	6.20	Graph and Digital Display settings would not display as expected once implants or channels were removed or added to the Experiment. Starting a new acquisition after these were added/removed would lead to inconsistencies in what was being actively displayed in the Graphs and Digital Displays. This has been corrected.	Fix
27581	6.20	Fix to allow multi-select within the Graph Setup dialog for a more efficient customization of graph pages.	Fix
33731	6.20	Fix for saving changes made to Graph Setup within Review altering the Graph Setup in Idle and Acquisition. This has been corrected to keep the Graph Setup settings separate between Idle/Acquisition and Review to support the data display requirements necessary between the modes.	Fix
21944	6.20	Ponemah's Derived Data Export (Experiment menu Export Data) allows an efficient method to export derived data from multiple Subjects and across multiple acquisition days without requiring the raw waveform data to be loaded into Review. Event and Alarm information have been added to the Excel output.	Enhancement
28387	6.20	The original time format of the Excel output file from Experiment menu Export Data and from Saving Derive Data in Ponemah Review has been updated for easier, more efficient data calculations and reporting. A separate column is now available for the following: <ul style="list-style-type: none"> • Date • Time • Time Zone • Elapsed Time 	Enhancement

31004/ 31031	6.20	<p>Added the ability to output Pivot Compatible sheets for Derived Parameter and Data Reduction data when exporting data to Excel from Experiment menu Export Data and from Saving Derive Data in Ponemah Review. The Pivot Compatible sheets output data from all Subjects into a single data table / Excel spreadsheet. Pivot Compatible sheets are used to simplify and eliminate data consolidation errors from the data summarization process. They may be used to create Excel Pivot Tables for an efficient method of obtaining summarized data tables and graphs. They are also useful for importing data into 3rd party software for further data processing and reporting, e.g. LIMS, SAS, and R.</p> <p>Two new Excel spreadsheet tabs will be available in the Excel output:</p> <ul style="list-style-type: none"> • Derivations – contains the Derived Parameter data • DataReduction – contains the Data Reduction data 	Enhancement
31544	6.20	<p>Fix for representing invalid data ('x' in Ponemah Review Derived List Views) as 1E+16 when exporting data to Excel. This has been updated to now leave the Excel cell blank in these instances.</p>	Fix
32427	6.20	<p>When using Data Reduction, users may choose to display the time at which the maximum (MaxT) and minimum (MinT) derived parameter value occurred within the Data Reduction interval. The resultant Data Reduction Excel output would not display the date and time correctly, as the cell was formatted as a number.</p> <p>This has been corrected to correctly format these cells as Date and Time.</p>	Fix
33468	6.20	<p>Exporting derived parameter data to Excel from a Ponemah Review session would include any Event marker(s) associated with the data exported. Similar to the Derived Data List View within Ponemah Review, the Excel output would display the Event within the row of data corresponding to the logged line of data to provide timing information for when the Event occurred and relative position within the data set. This exported Excel output would place this Event a row (logged line) off.</p> <p>This has been corrected.</p>	Fix
32759	6.20	<p>Fix for unexpected shut down when exporting a large amount of derived data using the Experiment Export Data feature.</p>	Fix

33527	6.20	<p>If data was acquired from a Subjects' Input Channel with the incorrect analysis module selected, the user can simply update the analysis module to the correct one from the Subject Setup dialog. The user will be notified that Ponemah will delete all deriver parameter data associated with the channel due to this change, if they wish to continue. Once changed, the waveforms may be loaded into Ponemah Review, reanalyzed, and the results can then be exported to Excel. However, when exporting outside of Ponemah Review using the Experiment menu Export Data the resultant Excel file would contain the parameters and analysis module information from the original analysis module selected.</p> <p>This has been corrected.</p>	Fix
31879	6.20	Fix for user interface dialogs and buttons to display appropriately when high resolution display screens are used.	Fix
33616	6.20	<p>Fix to no longer require the Experiment folder name to match the name of the Experiment to more easily open manage Experiments files.</p> <p>To open an Experiment, simply select the .PnmExp file.</p>	Enhancement
31320	6.20	Added the ability to create a new Experiment using only existing waveform files.	Enhancement
33043	6.20	<p>Remote Notification sends automated alerts for subject- and system-level conditions via email or text message. When a channel's parameter value achieved an alert condition, a notification was sent as expected. However, the notification would include information on all enabled channels instead of just the channel triggering the alert. Additionally, the extraneous channel information would contain parameter values of '0.00'.</p> <p>This has been corrected to only report the channel parameter triggering the alert.</p>	Fix
32920	6.20	Fix for Ponemah getting into a not responding state when Importing an Experiment using a Protocol file (.PRO) from Ponemah v4.90 or prior when Data Parser was enabled.	Fix
31878	6.20	Fix for Default Species changes made in Setup Application Configuration Advanced menu not being reflected in the Subject Configuration when creating new subjects.	Fix

32951	6.20	Fix for Ponemah recognizing a license configured with only a PhysioTel Digital acquisition interface as a 4 subject license, despite having 8, 12, or 16 subjects enabled.	Fix
33255	6.20	Fix for requiring a license file update to run a Ponemah Service release.	Fix

MX2 Acquisition Interface

Reference #	Release Version	Description	Disposition
41296	6.41	HD-X02, HD-S02, F20-EET, F40-EET now defaults channel 1 to EEG and channel 2 to EMG	Fix
40643	6.41	Fix added for issue where changing an implant channel signal-type was not changing the default channel name/label	Fix
40180	6.40	Added HD-S20 and HD-S1 support.	Enhancement
38085	6.40	Changed positioning of "OK" and "Cancel" buttons for User Interface consistency.	Enhancement
37535	6.40	Fix added for crashing issue which occurred during Scheduled Sampling when an MX2 implant could not be found.	Fix
36486	6.40	Fix added to correct issue where the use of a backslash in the Subject Name in an MX2 configuration resulted in a "Cannot create DER buffer file" error message.	Fix
35791 36052 37580	6.33	Added configuration UI improvements to use color-blind friendly icons, show NTP synchronization status, as well as instructional information on each page.	Enhancement
36364	6.33	Added visible notification to the About section of the MX2 Details page and the MX2 hover text to update MX2 firmware version if the currently installed firmware is not the latest known by the software.	Enhancement
35684	6.33	Added the ability to permit resizing of the MX2 configuration dialog.	Enhancement
38821	6.33	Added a Set MX2 Name button to make name changes more explicit to the user.	Enhancement
38290	6.33	Fixed issue where entering a bad calibration value and storing configuration was leading to clearing out of all calibration values for that implant.	Fix

38056	6.33	Fix to prevent an unexpected shutdown when the same implant is configured on multiple MX2s. Fix no longer allows the same implant to be configure to multiple MX2s, especially when adding and removing MX2s from the configuration.	Fix												
37543	6.33	Fixed Unicode error seen when launching Diagnostics (found on Windows systems with Japan region).	Fix												
37558	6.33	Fix to disallow implant name from containing any characters that could cause issues with filenames or paths.	Fix												
36754	6.33	Updated filter adjustment values on EEG channels for F40-EET/F50-EET/F50-EEE (from 0.5dB drop to more appropriate value of 2dB.)	Fix												
34004	6.30	Added support for new HD implant models.	Enhancement												
34485	6.30	Removed all Ponemah generated numbers from beginning of implant channel name/labels within the Label fields of Subject and Channel Details .	Enhancement												
34813	6.30	Fix for Ponemah unexpectedly becoming unresponsive upon selecting Save & Exit from the <i>MX2 Configuration</i> dialog after a seventh MX2 had been added.	Fix												
35586	6.30	Create New Implant button (as seen from the Inventory Implant Details page) was not enabled if this implant was just removed from the configuration.	Fix												
35607	6.30	Inventory Reconciliation dialog was appearing unnecessarily due to use of timestamp rather than details to determine whether implant values were identical between configuration and inventory. Also, added tooltip to the Inventory Reconciliation to enumerate any differences.	Fix												
32779/ 33599	6.20	The default Sampling Rates for the HD-XG device have been updated to the following: <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="padding-right: 20px;">Glucose</td> <td>1 Hz</td> </tr> <tr> <td>Temperature</td> <td>1 Hz</td> </tr> <tr> <td>Activity</td> <td>1 Hz</td> </tr> <tr> <td>Battery Voltage</td> <td>1 Hz</td> </tr> <tr> <td>On Time</td> <td>1 Hz</td> </tr> <tr> <td>Signal Strength</td> <td>10 Hz</td> </tr> </table>	Glucose	1 Hz	Temperature	1 Hz	Activity	1 Hz	Battery Voltage	1 Hz	On Time	1 Hz	Signal Strength	10 Hz	Fix
Glucose	1 Hz														
Temperature	1 Hz														
Activity	1 Hz														
Battery Voltage	1 Hz														
On Time	1 Hz														
Signal Strength	10 Hz														
31747	6.20	In the MX2 hardware configuration, the user may select any available, connected receiver to associate with an implant. The receivers that have a different frequency designation will now be grayed out to ensure the incorrect receiver is not selected.	Enhancement												

31752	6.20	The user is now notified if the MX2 is not synchronized when attempting to get Battery Status or search for HD device.	Enhancement
32299	6.20	Fix for issue in MX2 configuration where user could not add decimal points to calibration values.	Fix
32879	6.20	Fix for erroneous reporting of a zero HD battery calibration value as an error.	Fix
33217	6.20	Added the ability for users to sort implants in configuration tree-view based on model, serial number, name, or jack number.	Enhancement
33152	6.20	Improved error handling for bad implant calibration values.	Enhancement
33221	6.20	Fix for intermittent false battery voltage alarms (HD devices only).	Fix
33258	6.20	Fix for Ponemah unexpectedly shutting down if acquisition is running for an extended period of time with one or more implants out-of-range, have a dead-battery, or are in the OFF state.	Fix
33321	6.20	An MX2 firmware change to improve UPnP(discovery) was resulting in connectivity issues when starting configuration before hardware is connected and setup.	Fix
34078	6.20	Fixed incorrect Temperature channel-type on F40-EET / F50-EET.	Fix
34145	6.20	Fixed issue where if one or more implants are out-of-range, have a dead-battery, or are in the OFF state upon starting acquisition, all implant data would be displayed in Ponemah with a 14 second delay (from real-time). This does not impact the timestamp of the data, only when the data is displayed during acquisition.	Fix
34329	6.20	Fixed issue in configuration where implants had incorrect receiver assignments when moving implants from one MX2 to another.	Fix

PhysioTel Digital Acquisition Interface

Reference #	Release Version	Description	Disposition
43400	6.42	Update to display PhysioTel Digital battery life information in the Sampling Control window	Enhancement

41297	6.41	Pressure and Biopotential channels now default their channel description to the name of their selected SignalType	Fix
41269	6.41	Default biopotential range for $\pm 10\text{mV}$ gain setting is now $\pm 10\text{mV}$ instead of $\pm 14\text{mV}$.	Fix
40995	6.41	Added ability to enable/disable a channel from channel details configuration page.	Fix
40117	6.41	Implants unable to join to due a CLC being out of capacity are now displayed in red with a hover text explanation.	Fix
39594	6.41	Added support for L03 and L04 implant models	Enhancement
38940	6.41	Added support for M0G and M1G large animal glucose implant models	Enhancement
40365	6.40	Implant was unable to successfully configure to CLC after exiting from Implant Search Dialog (required cancelling configuration and trying again).	Fix
40364	6.40	Implant was being changed to incorrect frequency after exit from Implant Search Dialog when discovering implants from multiple frequencies.	Fix
40181	6.40	Unable to add new implants to CLC that already has configured implants that are OFF or out-of-range.	Fix
39902	6.40	Implant was incorrectly displaying green icon on exit from Implant Search Dialog when not connected or on different frequency.	Fix
39817, 40402, 40412	6.40	Downgrade CLC DSP input/output queue full message, TRX error(s), and 'unknown CLC message(s) severity from ERROR to INFO severity level.	Enhancement
39814	6.40	Implants that were off were incorrectly displaying yellow icons when their associated CLC could not connect (should be red icons).	Fix
39469	6.40	Filter Cutoff value in configuration not updating value back to default when signal-type is changed.	Fix
36222, 37320, 37321	6.33	Removed the Implant Configuration Wizard in favor of single-item CLC and Implant add/remove(s), including an Implant Search dialog that operates per CLC. Also, added ability to turn all configured implants off at once.	Enhancement

35791, 36052, 37580	6.33	Added configuration UI improvements to use color-blind friendly icons, show NTP synchronization status, as well as instructional information on each page.	Enhancement
36364	6.33	Added visible notification to the About section of the CLC Details page and the CLC hover text to update CLC firmware version if the currently installed firmware is not the latest known by the software.	Enhancement
35684	6.33	Added the ability to permit resizing of the PhysioTel Digital (CLC) configuration dialog.	Enhancement
34819	6.33	Added ability to use up to 6 implants per CLC depending on frequency-region and implant model (5 implants per CLC in China). This functionality will require CLC firmware 0.1.28 or higher. See updated PhysioTel Digital User Manual for more details.	Enhancement
38390	6.33	Added ability to use Primary and Secondary frequencies in the same configuration. This is controlled via an Advanced setting and is OFF by default. Contact DSI Technical Support prior to enabling this feature.	Enhancement
38821	6.33	Added a Set CLC Name button to make name changes more explicit to the user.	Enhancement
37543	6.33	Fixed Unicode error seen when launching Diagnostics (found on Windows systems with Japan region).	Fix
37331	6.33	Implant Name is now only being read from the implant. Implant name can now only be set using the Set Name button within the Implant Details.	Fix
37246	6.33	Improved battery reporting for China M-series implant models.	Fix
37093	6.33	Reduced the pressure channel sample rate of the China L11 and the second pressure channel sample rate of the China L21 to improve battery performance and permit additional implants per CLC (i.e. 5 per China CLC).	Fix
35311	6.30	Channel configuration was allowing setting sampling rates greater than 1000Hz, which is the maximum sample rate the CLC hardware allows.	Fix

35312	6.30	Updated Channel configuration to no longer permit the use of Filter Cutoff for non-Pressure/Biopotential channels. In addition, Filter Cutoff will not be displayed if the Pressure/Biopotential channels are defined to a sampling rate less than 50Hz.	Fix
35691	6.30	Configuration Wizard was displaying incorrect maximum selectable CLC's for new frequency-regions.	Fix
28928	6.20	Improved battery reporting for PTD L-series implant models.	Enhancement
31907	6.20	Added new frequency and hardware models to support PhysioTel Digital in Japan and China.	Enhancement
31908	6.20	Added support for a new PhysioTel Digital implant model.	Enhancement
32460	6.20	Improved battery reporting for PTD M-series implant models.	Enhancement
33321	6.20	A CLC firmware change to improve UPnP(discovery) resulted in connectivity issues when starting configuration before hardware is connected and setup. This has been corrected.	Fix

Acquisition

Reference #	Release Version	Description	Disposition
43993	6.50	Added capability to simultaneously acquire from 32 subjects	Enhancement
40502	6.50	Improvements added to automatically select the default species of an experiment according to the model of implant that is added during experiment setup.	Enhancement
42981	6.42	Updated default species to Rat	Fix
40598	6.40	Fix added for issue where alarms would not function correctly if configured during acquisition.	Fix
40555	6.40	Fix added to correct issue where analyzing a BP or LVP channel multiple times resulted in system freezes and crashes.	Fix
40130	6.40	Fix added for issue where adding an event to all subjects also adds events to signals with no data.	Fix

38402	6.40	Fix added to correct issue where all pressure channel sources were not consistently stopping when acquisition was stopped.	Fix
37595	6.40	Fix added to correct issue where unused graph pages are automatically opened before being closed in Acquisition if sampling is started on fewer number of subjects than are included in the Experiment and the subjects were auto-configured.	Fix
36728	6.40	Fix added for logging issue with BP and LVP acquisition where the first 2 lines reported were incorrect if the NPMN parameter was enabled.	Fix
36254	6.40	Fix added for issue where any changes made to Experiment setup during acquisition reset the logging marks.	Fix
35677	6.40	Fix added to correct issue where subjects could be moved between Continuous and Scheduled sampling during acquisition if no subjects were configured for a given schedule.	Fix
35676	6.40	Fix added to correct issue where zeros were placed in the Results database in case of dropouts during acquisition when using the RAW, BP, LVP, and GLU analysis modules.	Fix
34727	6.30	Fix for removed Sources (implants) counting toward the licensed number of sources that could be simultaneously sampled.	Fix
34741, 34742, 34743	6.30	Fix for a single Subject being in an Error sampling state preventing a Continuous or Scheduled acquisition from starting. If sampling was attempted, the following incorrect error message would be displayed: "A maximum of x subjects can be sampled from at once." Where 'x' is the number of Subjects that can be sampled from simultaneously, as defined in the Ponemah License.	Fix
34314	6.30	Fix for sizing issue within the Notifications tab of the Sampling Control to more easily display messages.	Fix
34600	6.30	Fix for Digital Displays displaying "0.0" after the first logged line of data completes.	Fix

34785	6.30	<p>Fix for continuing to display a Subject within its Schedule Sampling Group after its hardware had been removed.</p> <p>If using previous Experiments where hardware had been removed from the Subject, but is still displayed in the Scheduled Sampling Group, left-click-and-drag the Subject from the Scheduled Group to the Unassigned / Continuous box. This will enable sampling to be started for both Continuous and Schedule Sampling.</p>	Fix
34814	6.30	<p>Ponemah will no longer allow acquisition from starting for Subjects whose associated receiver has been disconnected. These Subject will instead display an Error sampling state and prevent acquisition from starting. If multiple receivers are assigned to the implant, the Subject may still be sampled from until all associated receivers are disconnected, at which point the Subject will display an Error sampling state.</p>	Fix
35686	6.30	<p>On a system with multiple MX2s, the action of stopping acquisition may incorrectly transition implants that should display 'Error' to display 'Inactive'.</p> <p>This has been corrected.</p>	Fix
35922	6.30	<p>When MinT and MaxT Data Reduction parameters are reported, the system may become unresponsive during acquisition.</p> <p>This has been corrected.</p>	Fix
36129	6.20	<p>HD devices that include a biopotential channel may show one second of dropout at the start of each schedule.</p> <p>This has been corrected.</p>	Fix
33761	6.20	<p>The Sample Control dialog Continuous tab has been updated to more easily distinguish the sampling method (Continuous, Schedule 1, or Schedule 2) defined to each Subject by dividing the dialog into sections by method. Start/Stop Sampling buttons have also been added to permit control of the sampling method from the Continuous tab.</p>	Enhancement
32799	6.20	<p>During Scheduled Sampling, the Sampling Control dialog will now display the start time of the next Scheduled Sampling iteration.</p>	Enhancement
33502	6.20	<p>Added the ability to minimize and restore the Sampling Control dialog to more easily manage windows and maximize display screen real estate.</p>	Enhancement

34054	6.20	The Ponemah Status List View displayed within the main Ponemah Window during acquisition has been removed.	Enhancement
32065	6.20	The Sampling Control dialog would not retain its user defined screen position upon closing and reopening Ponemah or upon loading different Experiments. This has been corrected such that each Experiment will retain its unique Sampling Control position.	Fix
32126	6.20	When using Scheduled Sampling, the Sampling Group Size can be defined up to the number of subjects the license permits to sample from simultaneously. The denominator of this setting lists the available number of subjects that can be added to the group. The number was reporting a negative value when a.) the number of subjects listed in the Experiment exceeded the number of subjects that could be simultaneously sampled from as defined in the Ponemah license and b.) subjects were added and then removed from the schedule. This has been corrected.	Fix
32506	6.20	Enabling Aggregate Parameter Window permits the user to display only one Derived Parameter List View during Acquisition and Review that contains the all derived parameter data from all subjects' input channels. A warning message has been added to inform the user that an epoch (beat-to-beat) logging rate may not be used when Aggregate Parameter Window is enabled.	Enhancement

Review

Reference #	Release Version	Description	Disposition
44865	6.50	Fix added for issue where merging Bad Data Marks may result in loss of marks outside of Bad Data Mark regions	Fix
44384	6.50	Fix added for issue where editing multiple channels under graph setup would result in a system crash if using Windows 10	Fix
44301	6.50	Fix added for issue where Logging Rate based parameters were reported incorrectly in Data Reduction	Fix

43436	6.42	Fix added for issue where a tolerance threshold above 2147 milliseconds would cause HRV segments to reset	Fix
43316	6.42	Fix added for issue where Ponemah would not autoconfigure the ECG Rate Only analysis type for an Operating Room system	Fix
42111	6.42	Fix added to correct issue where Bad Data Mark placement would behave erratically when marking large datasets	Fix
40637	6.40	Fix added to correct issue where fixing waveform files in Review would cause deletion of events and marks.	Fix
40242	6.40	Added capability to print Data Insights results.	Enhancement
39888	6.40	Fix added for issue where intervals would not be plotted on a Trend graph if the start of a logging interval is within Bad Data Marks.	Fix
39518	6.40	Fix added for issue where the elapsed time shown in both the Events and Parameters sheets of data exported to Excel are calculated from Time 0.	Fix
39316	6.40	Added Graph Setup templates from Ponemah 6.31	Enhancement
39073	6.40	Fix added for issue where HRV Time Domain reporting was inaccurate when reporting by parser segments.	Fix
38513	6.40	Fix added for issue where HRV definitions do not display across all subjects when loaded individually.	Fix
38136	6.40	Fix added for issue where selecting the "save marks section" menu option when the GroupName exceeds 19 characters results in a system crash.	Fix
38045	6.40	Fix added for issue where system would lockup when loading data in Review.	Fix
38043	6.40	The Date and Time controls in the Load Review and Export Data dialog permitted invalid data entry. These issues have been corrected.	Fix
37644	6.40	Format change for Graph Setup to use DD:HH:MM:SS for time fields.	Enhancement
37498	6.40	Changed default precision level for derived parameters to 4 decimal places.	Enhancement

37462	6.40	Fix added to correct crashing issue when printing from a Review graph if the subject name was longer than the number of allowable characters.	Fix
37431	6.40	Added ASCII Output changes to the header information and set sample rate value reporting to a 2 decimal place precision level.	Enhancement
37376	6.40	Fix added for issue in Review Graphs where Calibration Marks were disappearing when Use Initial Cal was selected.	Fix
37228	6.40	Fix added for issue where derived parameters could not be enabled or disabled with a Review Only license of Ponemah v6.30 and higher.	Fix
37216	6.40	Fix added to correct issue where rows in the Parameters Tab of data exported to an Excel format would only display one event, even if it had multiple events.	Fix
37207	6.40	Fix added for issue where the time values under the Real Time column in Derivations Tab or Subject Parameter sheets of data exported to an Excel format would not convert correctly to the local time zone.	Fix
37204	6.40	Fix added for issue where the elapsed time shown in the Events sheet of data exported to Excel is incorrect if the export is done immediately after acquisition without either re-loading the Experiment or opening in Review.	Fix
37203	6.40	Fix added for issue where the elapsed time in the Events sheet of data exported to Excel was shown as negative (or incorrect depending on the time zone) if the data was exported from an Experiment acquired in a different time zone.	Fix
37191	6.40	Fix added for Data Insights issue where Bin x and Graph times listed in generated reports were not consistent with those listed in the Header Table.	Fix
37150	6.40	Added the following Data Insights changes: <ul style="list-style-type: none"> - Fix for Data Insights Results Wave View displaying more cycles than specified in the search. - Corrected the display of checkboxes within the Data Insights dialog when using different Windows themes. - Ensuring that Data Insights Match Result background colors are always displayed when opening Data Insights with associated searches. 	Fix

37168	6.40	Fix added to correct issue where an exported Excel output would not include placed Events in the Derivations and Parameter tabs.	Fix
37115	6.40	Fix added for issue where the Graph setup page in the P3Setup dialog was displaying incorrectly when the Japanese/Other Language pack was enabled in Windows.	Fix
37052	6.40	Fix added for issue where Bad Data Marks and Events were only displayed intermittently in Trend graphs if the page was configured for multiple panes.	Fix.
37039	6.40	Fix added to correct issue where the Calculation checkboxes in the Variability Analysis dialog are hidden when the language settings on the computer are set to Japanese.	Fix
37029	6.40	Fix added to correct issue where the default precision settings of any newly added derived parameters in a loaded Experiment are integer instead of the global default of 00.00.	Fix
37015	6.40	Fix added to correct issue where Derived Parameter Precisions default to an integer.	Fix
36920	6.40	Fix added for issue where a Trend graph does not display intervals originating in Bad Data Marks.	Fix
36857	6.40	Fix added for Data Insights where incorrect results are displayed when the ECG analysis attempts to sync a visible region analysis across a gap in cycles.	Fix
36856 35484	6.40	Corrected cross channel Data Insights searches for channels with different sample rates.	Fix
36855	6.40	Fix added for Data Insights where re-generating a report without browsing does not provide an overwrite warning.	Fix
36854	6.40	Fix added for Data Insights where any Match Result values reported as NaN would result in invalid Excel report subject sheets.	Fix
36852	6.40	Fix added for Data Insights where a system lockup would occur if Data Insights was selected from the Functions Menu while minimized.	Fix
36769	6.40	Fix added for issue where merging of Bad Data Marks was slow when multiple Bad Data Marks were present.	Fix

36658	6.40	Fix added for issue where segment durations of 17 minutes or longer yielded Frequency analysis variability results of 0 seconds in HRV-Frequency Analysis.	Fix
36569	6.40	Fix added to correct issue where the Ponemah ASCII output was incorrectly repeating time stamps.	Fix
36477	6.40	Fix added for crashing issues when a derived graph is configured for any channel that doesn't have any cycle marks and when any configured derived graphs do not have any data to display.	Fix
36063	6.40	Fix added to correct issue where data exported to an Excel output was shifting in both the Individual Subject and Aggregate sheets.	Fix
36047	6.40	Fix added for issue where ASCII output from a channel with 1000 or 500 samples per second sample rates were rounding incorrectly.	Fix
35410	6.40	When calculating calculated marks after a signal conditioning attribute change without reanalyze checked, the cancel button did not have any effect. This has been corrected.	Fix
34292	6.40	Fix added to prevent the cursor from scrolling offscreen when zooming or scrolling on the Graph page.	Fix
32322	6.40	Fix added for issue where Added Notes in Review were only saved in the first subject's PnmMarks database.	Fix
22756, 37381	6.40	Fix added to correct issue where no events would be logged when the "apply to all subjects" checkbox was selected.	Fix
39443	6.33	Format and content changes have been added to the ASCII Output header information for easier import into third party tools.	Enhancement
39413	6.33	Fix added to correctly display the checkboxes within the Variability Analysis dialog when using a 64 bit, Windows 7 Japanese Operating System.	Fix

38512	6.33	<p>Added fix for missing time points within the HRV Time Domain derived list view. This occurred if the time segment ended within a bad data region (within Bad Data Marks), the corresponding derived data line would not be reported.</p> <p>Workaround: Sync the line of data after the missing line to the Primary graph and delete the Bad Data Marks. This will update the HRV derived list view and populate the missing time point.</p>	Fix
34383	6.30	<p>Added support for DSI's new Data Insights feature that permits:</p> <ul style="list-style-type: none"> • Improved efficiencies and accuracy in data validation, arrhythmia detection, and anomaly reporting. • Expanded functionality for arrhythmia detection and classification (Runs, bi/trigeminy, and other sequences). • Improved result with the elimination of data anomalies and inclusion of valid data. <p>If licensed, the feature can be accessed within Ponemah Review by selecting Functions Data Insights.</p>	New
33696	6.30	Added Units to all Derived Parameters columns when exported to Excel from Review.	Enhancement
34945	6.30	Improved data loading performance for Scheduled Sampled data into Review.	Enhancement
35172	6.30	Improved data analysis performance for data collected with Scheduled Sampling .	Enhancement
35310	6.30	<p>If a subset of channels is loaded into Review and the user chooses to Save a Mark Section, the results from the non-loaded channels may be deleted if a different Logging Rate than the one originally saved with is used.</p> <p>A warning notification has been added to notify the user that results will be removed from the non-loaded channels and identify these channels. The deleted results can be repopulated by loading all channels and saving the results.</p>	Enhancement
35669	6.30	Fix for Ponemah Review unexpectedly shutting down upon selecting Actions ASCII output .	Fix

35414	6.30	Corrected the unexpected removal of Validation Marks and Derived Results in non-loaded areas upon Saving a Mark Section for data that had been loaded into Review by Parser Segment .	Fix
35322	6.30	Ponemah would unexpectedly become unresponsive upon reanalysis of data collected with Scheduled Sampling when a Signal Conditioning attribute is changed.	Fix
34421	6.30	Fix for Data Reduction Line calculation not displaying results when using a time-based Logging Rate .	Fix
34753	6.30	Fix for dashed, green Data Break Lines not being displayed within Primary Graph pages after zooming out past 15 samples per pixel.	Fix
35992	6.30	When Aggregate mode is used with subjects acquired at different overlapping schedules using Scheduled Sampling, multiple rows with identical end times may be displayed in the Derived Parameter List View. This has been corrected.	Fix
35010	6.30	Fix for selection of an HRV Definition setting by any other means than a mouse click not persisting after the HRV dialog was closed. E.g. selecting the ECG Algorithm using the <E> keyboard key.	Fix
35889	6.30	An intermittent crash was observed while executing HRV analysis or redrawing HRV graphs. This has been corrected.	Fix
35482	6.30	Made the Apply to Similar Subjects and Apply to Similar Channels buttons available within Review to more quickly apply changes to the Subject Details across a large number of Subjects.	Fix
30853	6.20	Added the ability to calculate Time Domain Heart Rate Variability (HRV). As part of this addition, the Variability Analysis user interface was updated to include both Frequency and Time domain settings. Access to the Variability Analysis setup was also relocated from within the Experiment Setup dialog to directly within the Setup menu .	New
26369	6.20	The Load Review dialog has been updated for more efficient data selection.	Enhancement

33468	6.20	<p>If a single channel of data was acquired using multiple sample rates, Ponemah would only load the data at the earliest sample rate into Review based on the user defined time filters.</p> <p>A warning message has been added to the Load Review dialog to inform the user if a channel has been acquired with multiple sampling rates and provide time stamp details of the sample rate changes to allow the user to load the data over the intended time range.</p>	Enhancement
32702	6.20	<p>Add the ability for Data Reduction to be applied across data breaks. This permits Data Reduction to be used with data containing multiple acquisition sessions, as well as with Scheduled Sampling.</p>	Enhancement
33191	6.20	<p>Add the ability for Data Parser to be applied across data breaks. This permits Data Parser to be used with data containing multiple acquisition sessions, as well as with Scheduled Sampling.</p>	Enhancement
31880	6.20	<p>Added an auto scale all panes graph feature within Ponemah Review. This permits the user to more efficiently auto scale all signals configured within the following graph types: Primary, Trend, Page View, and Template.</p> <p>Strike <CTRL> + <F9> to Auto Scale All Panes.</p>	Enhancement
32786	6.20	<p>Data Parser Rules are configured based on a user defined time; either real time or relative to an event or duration. If the start time of the Data Parser Rule is not available within the section of data loaded into Ponemah Review, then the Rule would not be applied. This could have an impact on Data Reduction output if the Data Reduction type was defined to use Data Parser Segments.</p> <p>This has been corrected.</p>	Fix
33501	6.20	<p>Data Breaks are vertical, dashed, green lines used to indicate time breaks in the data. They are often seen when data that includes multiple acquisition start and stops is loaded into the same Ponemah Review session. When using Schedule Sampling, a large number of Data Breaks will be visible. When large durations of data collected using Scheduled Sampling was displayed on a Primary or Trend graph, the Data Break lines would stop drawing until zoomed into a particular area.</p> <p>This has been corrected.</p>	Fix

32772	6.20	<p>When using Scatter Graphs, users may select a group of data points using the lasso feature to remove from the analysis results. Two options for removal exist – a.) remove cycles, which removes the marks from the cycles represented in the lassoed points or b.) add bad data marks, which places bad data marks around the cycles represented in the lassoed points. The default method was delete cycles. This has been updated to default to add bad data marks.</p> <p>This can be changed by the user from the Setup menu by selecting Application Configuration Review.</p>	NA
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Parameter Viewer

Reference #	Release Version	Description	Disposition
41129	6.41	Fix added to correct issue where Parameter Viewer was unable to load multiple channels that share the same algorithm.	Fix
36746	6.40	Fix added for Parameter Viewer where parameters that were selected when Dynamic Sync is turned on were unusable.	Fix
34034	6.40	Added export capability from Parameter Viewer to allow users to export a CSV containing Parameter Viewer results.	Enhancement

ECG Pattern Recognition Option (ECG PRO)

Reference #	Release Version	Description	Disposition
39257	6.40	Added an ECG derived parameter to report the interval between J and T peak.	Enhancement
37245	6.40	Fix added to correct issue where the Add Cycle and Analyze [Single Template - Preserve]" option was not available in the right click menu from an ECG channel.	Fix
33939	6.20	When using ECG PRO to analyze the ECG waveform for greater user control of the T mark placement, Ponemah would unexpectedly shut down if the T Peak and end of T marks were placed on the same point. This has been corrected.	Fix

Analysis Module – Blood Pressure (BP)

Reference #	Release Version	Description	Disposition
40094	6.40	Fix added for crashing issue during data re-analysis on all BP channels.	Fix
39450	6.33	Fix added for a rare crash at the start of acquisition upon the BP Analysis module attempting to detect the first BP cycle in the waveform.	Fix

Analysis Module – Left Ventricular Pressure (LVP)

Reference #	Release Version	Description	Disposition
40539	6.41	When LVP End and End Diastolic marks coincide, DiaD was reported incorrectly. This has been corrected.	Fix
36570	6.40	Added new derived parameters systolic and diastolic duration.	Enhancement

Analysis Module – Glucose (GLU)

Reference #	Release Version	Description	Disposition
29220	6.50	Fix added to limit the number of characters a user is able to input for the Date and Time in the Glucose Calibration dialog	Fix
41796	6.42	Fix added for issue where Initial Slope and Offset values were incorrectly applied across glucose channels	Fix
41790	6.42	Fix added for calibration issue where adding multiple single point cals without any multi point cals would adjust the slope in the calibration list but the glucose signal would not be adjusted	Fix
41050	6.41	Default derived parameters set to nAavg and Gavg	Fix
41049	6.41	Derived parameters added for uncorrected data (ucAvg, ucMax, ucMin)	Enhancement
41047	6.41	Noise filters modified to minimize data loss. Noise is off by default, Minimum Signal value is set to -1000, Minimum Good Data Time set to 1 second	Enhancement
40726	6.40	Fix added for issue where wrong subject name displayed in the Additional Channels tab.	Fix
40710	6.40	Fix added for issue where modifying the date for a new calibration in the Glucose Calibration dialog resulted in a system crash.	Fix
37322	6.40	Fix added to correct issue where Initial Cal values included in the Calibration List were not consistent with the Use Initial Cal setting.	Fix
37312	6.40	Fix added to correct issue where the Slope and Offset of the first single calibration is displayed incorrectly in Acquisition.	Fix
37247	6.40	Fix added for issue in Glucose Calibration Dialog where pop-up warning messages were heavily truncated.	Fix
37158	6.40	Fix added for crashing issue that occurred after exporting and importing calibration values.	Fix
36822	6.40	Fix added to prevent application of calibrations until both Slope and Offset values are available.	Fix

36819	6.40	Fix added for duplication of Initial Slope and Offset, which are specific to individual subjects, when updating multiple channels using the Additional Channels tab.	Fix
36818	6.40	Adjusted minimum calibration ranges to account for unit conversion between mg/dL and mmol/L.	Fix
36817	6.40	Fix added for calibration issues occurring when bad data is not ignored within the calibration interval.	Fix
36807	6.40	Updated calibration dialog to disregard milliseconds when "Update Time Now" is used.	Enhancement
36580	6.40	Added checkbox, enabled by default, that permits applying current settings to all loaded glucose channels.	Enhancement
36579	6.40	Fix added for issue where updated units were not correctly updating in the Calibration dialog settings pane.	Fix
36560	6.40	Fix added for issues where warning messages appear regarding Body Temperature and waveform files when a comma is selected as the decimal separator in the Region and Language settings and then switched to a period.	Fix
36476	6.40	Glucose default values reevaluated.	Fix
36418	6.40	Fix added for issue where duplicate rows of the Glucose. MultiCalGroupRange option appear in the Application Configuration settings Dialog.	Fix
35569	6.40	Fix added to correct issue where incorrect Calibration times were displayed in the Calibration Dialog if DST automatic adjustment was turned off.	Fix
39296	6.33	Fixed Ponemah from unexpectedly shutting down when attempting to import Glucose Calibration values into the Glucose Calibration dialog.	Fix
33846	6.20	While in the Glucose Calibration dialog, the software validates user entries to help ensure calibrations are applied as the user intended. When analyzing data in a time zone other than the one the data was originally acquired in, these validation messages would display incorrect times. This has been corrected.	Fix

Analysis Module – RAW, Activity, Temperature, and Barometric Pressure

Reference #	Release Version	Description	Disposition
43616	6.50	Derived parameters added for Conduction Time and Cycle Counts	Enhancement
42735	6.50	Derived parameter added for the Standard Deviation of samples over a designated logging interval	Enhancement
43431	6.42	Fix added for issue where RAW, Baro, Temp Mean values were over reported in the first interval in a schedule in Acquisition. . The error was inversely proportional to the number of points in the interval	Fix
38647	6.40	Fix added for issue where the activity units for TA and TA2 are displayed as Counts.s in an Excel output.	Fix
37645	6.40	Fix added to correct issue where incorrect activity values were reported when there was no activity or when the logging rate was set to 1 second and the activity signal was acquired at 1 Hz.	Fix
36861	6.40	If a Bad Data Marks are being buffered and acquisition is stopped, the Bad Data Marks will not be saved, which results in reporting inconsistencies between Acquisition and Review of NPMN. This has been corrected.	Fix
32269	6.20	Updated the default Activity Reset setting from 1 to 60. This was updated to allow for more consistent activity measurements when comparing against data previously collected using Dataquest A.R.T.™ or Ponemah with OpenART™ by reporting activity data as counts/minute, instead of counts/second.	Fix
32351	6.20	When importing Activity data from Ponemah v5.20 or older into Ponemah v6.10, the Activity derived parameters would be offset by '1'. This has been corrected.	Fix

34401	6.20	<p>When using Scheduled Sampling for data acquisition, the Activity measurements were inconsistently calculated.</p> <p>This has been corrected by normalizing Activity measurements to one minute.</p> <p>Also, a Total Activity 2 (TA2) derived parameter was added to allow the user to use the logging rate for the Activity calculation in order report an accumulated Activity value for the defined logging period.</p>	Fix
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Analysis Module – Blood Pressure Respiration

Reference #	Release Version	Description	Disposition
	6.40	Added new analysis module – Blood Pressure Respiration – to Ponemah v6.x platform.	New

Analysis Module – Electromyogram

Reference #	Release Version	Description	Disposition
	6.40	Added new analysis module – Electromyogram – to Ponemah v6.x platform.	New

Analysis Module – Pulmonary Volume

Reference #	Release Version	Description	Disposition
	6.50	Added L11R implant support for PVO module	New
44192	6.50	Added Pulmonary Volume Analysis Module support	New

Analysis Module – Pulmonary Airflow & Airway Resistance

Reference #	Release Version	Description	Disposition
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44376	6.50	Added Pulmonary Airflow Analysis Module support	New
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Known Issues

The following are a list of known issues and possible workarounds for Ponemah v6.00.

Reference #	Description	Workaround	Module(s) Affected
21526	The Primary graph page will limit the zoom-in of all channels displayed on the page to a sample per pixel of slowest channel displayed on graph. E.g. Graphing an ECG waveform sampled at 1000 Hz on the same Primary graph page as a Temperature waveform sampled a 1 Hz, will limit the zoom to 1 sample per computer screen pixel, limiting the zoom on the ECG channel.	Removing the slowest channel on the graph page from the Setup Experiment Setup Graph Page Setup will allow you to zoom farther into the faster sampled channel of interest. E.g. Disabling the Temperature waveform from the Primary graph will allow you to zoom farther into the ECG waveform.	Review
22601	Changing PC clock while the Ponemah application is running will cause time synchronization issues upon collecting data from connected MX2s.	If an update to the PC clock is required, ensure Ponemah is closed prior to making the change.	Acquisition
22756	When adding an Event within Review, there is an option to apply the Event to all Subjects loaded into Review using the "Apply to All Subjects" checkbox. Checking this checkbox currently does not work as expected and will result in the Event only being added to the selected Subject.	Events need to be added to each Subject individually within Review.	Review
23482	Changing the PC clock to a future time while acquiring data will cause Ponemah to become unresponsive.	If an update to the PC clock is required, ensure Ponemah is closed prior to making the change.	Acquisition
22817	When importing data collected on a previous version of Ponemah (e.g. v5.20) into Ponemah v6.xx, the defined	Parameter Precision settings will need to be updated	Core

Reference #	Description	Workaround	Module(s) Affected
	Parameter Precision settings will not be preserved during the import, resulting in the default Precisions values being used.	manually after the data import.	
23383	When creating a new binding for an ECG template library, the default saving directory will be the last used Experiment directory instead of the currently loaded Experiment directory.	Prior to saving the template library file name, browse to the current Experiment directory.	ECG PRO
23471	If data is collected at 1 Hz, the RAW Analysis module will display validation marks per sample within the waveform plot area. This will result in the waveform being unable to be seen upon initially launching the attribute window.	To more easily view the waveform through the validation marks, zoom into the waveform plot area using the Expand/Compress icons.	RAW Analysis Module
25980	Ponemah allows Bad Data Marks from one channel to be automatically merged across all channels within a Subject. The time it takes for Ponemah to perform the merge depends on the number of Subject and Channels loaded into Review, as well as the number of Bad Data Marks within the Review session. For large datasets that include many Bad Data Marks, performing a merge Bad Data Marks may put Ponemah into an Unresponsive State. It may take up to 30 minutes for Ponemah to recover from this state.	It is recommended to load each Subject individually if a Merge Bad Data Mark is required to be performed. Alternatively, loading less than 24 hours of data at a time will reduce the amount of time required for Ponemah to perform the merge.	Review
26039	Users have the option to export parameter data across the Experiment to perform additional analysis within Excel. The Export Data feature provides additional flexibility by allowing users to choose which data to export based on a Time Range. This Time Range will only apply to the Parameter data. The Experimental Log or Events information will be exported in their entirety.	N/A	Core
29133	When canceling from the Save Marks progress dialog, it can take a long time for	N/A	Review

Reference #	Description	Workaround	Module(s) Affected
	the application to respond. It will appear that the application has stopped working. Despite the Saving Marks being canceled, the Derived Results will continue to be saved.		
31852	The Standard Deviations of the Derived Parameters will not be saved to the Results database, even if enabled within the Channel Details pages.	Perform a Save Mark Section from within Review will output the Standard Deviations to Excel for the data loaded during the Save.	Review
32322	Freeform Notes added while within Review will only be associated with the first Subject's .PnmMarks database file when saved, regardless to which Subject/Channel they were added. This is important transferring data files and requiring to see the Freeform Note within the new file location.	Ensure the .PnmMarks database file is also transferred with any other Subject data, should the Freeform Notes be required to be seen.	Review
35410	Users are unable to cancel the Analysis from progressing upon executing Attribute-based analysis.	N/A	Review
35494	Acquisition Graphs, and the data the comprises them, will display different timestamps than the Computer time when Automatically adjust the clock for Daylight Savings Time is disabled.	Ensure the Automatically adjust the clock for Daylight Savings Time is enabled.	Acquisition
35569	Adding Glucose calibrations within the calibration dialog will display and apply the incorrect time if Automatically adjust the clock for Daylight Savings Time is disabled.	Ensure the Automatically adjust the clock for Daylight Savings Time is enabled.	Review
35677	Ponemah does not prevent users from changing the sampling method of a Subject between Continuous to Scheduled during an acquisition.	Stop Acquisition prior to changing a Subject's sampling method.	Acquisition
35716	When loading an Experiment from a previous version of Ponemah (6.00 through 6.12), users will be unable to	Select Experiment Save Experiment As... to copy the Experiment settings to a new	Core

Reference #	Description	Workaround	Module(s) Affected
	start an Acquisition if the Experiment upgrading process is canceled.	Experiment that can then be Acquired from.	
36063	Saving updated derived data during a Review while acquiring (RWA) session can result in duplicate entries if the update occurs soon after the RWA session was started.	This has been improved in 6.30 to ensure that updates after 30 seconds of starting a RWA instance will not create duplicate entries. Duplicate entries can be corrected by resaving results in Review.	Review
39428	When in the PhysioTel / HD (MX2) or PhysioTel Digital (CLC) diagnostic pages, you may be prompted for a user name and password.	Log in using the following credentials: User name: Diag Password: <i>(leave blank)</i>	Diagnostics