

# PRODUCT RELEASE NOTES

P/N 015581-003 Rev. 01



**Product:** Ponemah™ Physiology Platform

**Model:** Ponemah Client

**Version:** 5.82

**Build:** 30224.2

**Date:** March 2025

Product Release Notes for Ponemah Physiology Platform Client version 5.82 indicate revisions made to the Ponemah core client application, analysis modules, and add-on modules since version 5.61. Ponemah v5.82 **does not include** changes from Ponemah version 5.7x. For information regarding changes to the software from previous versions, please refer to the Release Notes folder located on the install key.

## Compatibility

Ponemah v5.82 is compatible with the 64-bit version Windows 10 version 1607 and later. It is also compatible with the 64-bit version of Microsoft Office 2007 or greater.

### Note:

- Microsoft .NET framework 4.7.2 is required and is part of the installation.
- Installation must occur from a Windows® Administrator account.
- Installation into the Program Files folder in Windows® is not supported.
- Windows 10 Home Edition is not supported. See [Compatibility Note](#) for details.

## New features, enhancements, and fixes

### Ponemah Core

Reference #	Release Version	Description	Disposition
71069	5.81	Fixed the Application Log from displaying a blank UserID when shutting down the Ponemah application.	Fix
61519	5.80	The LSS_P3_Administrator account is no longer visible on the Windows® login screen.	Enhancement
55373	5.80	Added support for Actimetry (ACTI) analysis module to permit analysis from Actimetry input sources.	New

Reference #	Release Version	Description	Disposition
55364	5.80	Added support for the Actimetry acquisition interface to permit acquisition from the new VivaMARS (Mobile Activity Rack System).	New

## Study Protocol

Reference #	Release Version	Description	Disposition
71259	5.81	Added the ability to Finalize a Study to prevent changes and access (associated with 71258 updates on Ponemah Server).	Enhancement
71107	5.81	Resolved an issue where viewing the Study Logs as a Ponemah User caused an error and led to inaccurate information being displayed on the Data Log tab.	Fix
71086	5.81	Included the Raw file path and name in the acquisition experimental log.	Enhancement
71075	5.81	Resolved an issue in Tox Study file naming where the incorrect Subject ID and Workup were referenced. This was limited to the file name, with all Study data and SEND outputs remaining accurate.	Fix
71067	5.81	Fixed a discrepancy where log times do not match up between Acquisition's Experimental Log and the Ponemah Study Data Log. The exported Study Data Log now lists local time instead of UTC time. The times were also corrected to adjust for day light savings.	Fix
71073	5.81	Fixed a discrepancy in the displayed username listed in the Ponemah Study Data Log upon separate users logging into the system and would persist to the Log tab when the Data Log was exported to Excel.	Fix
71065	5.81	Fixed an issue where the Ponemah Study Data Log would be cleared upon entering any of the <b>Hardware</b> dialogs from the Run Study dialog.  Note: only data logged since the Ponemah application was opened would be cleared.	Fix
70988	5.81	Added the ability to rectify incorrectly loaded subjects and to account for changes after the study setup has been loaded.	Enhancement

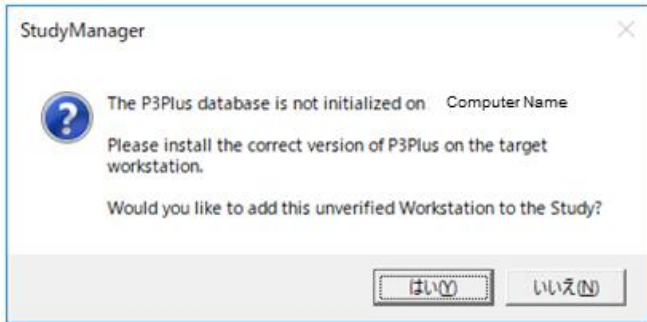
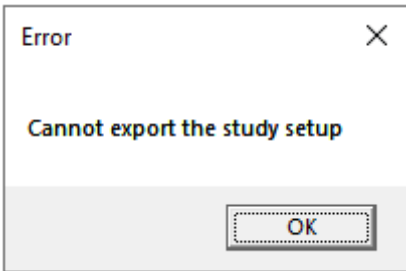
Reference #	Release Version	Description	Disposition
70916	5.81	Permitted the use of hyphen, underscore and space in Study subject names.	Enhancement
70892	5.81	Resolved an issue in the Study Log where data synchronized from PC2 to PC1 was recorded with the sync time instead of the original time and date of the actions on PC2.	Fix
62028	5.80	The Study Day Spin button to permit use when a single day is displayed.	Enhancement
61995	5.80	<p>Added ability to permit unlinked Study Groups across Study Days. Currently, prior to acquiring data in a Multi Subject Per Acquisition study, when a Study Group is added to a Study Day, the Study Group is duplicated across all Study Days. Similarly, when a Study Group is deleted from a Study Day, it is deleted from all Study Days. The same applies to Study Protocols associated with a Study Group such that an addition or removal affects all Study Days.</p> <p>The current functionality does not work for behavioral studies, for 2 reasons:</p> <ul style="list-style-type: none"> <li>• Subject randomization is represented in each protocol file and subject randomization changes by Study Day. This requires different protocol files on each Study Day.</li> <li>• On some Study Days, new subjects are brought into the Study.</li> </ul>	Enhancement
61994	5.80	<p>Added support for customizable Study Day Labels. This update permits a user the ability to modify Study Day labels and the use of these modified labels in the resultant reports. It will place a restriction on the modification of day labels after an acquisition has been run for the day to ensure that information is locked down once sent to the server.</p> <p>E.g. In behavioral studies, the testing day may not be driven by days from dosing. Instead, it may be tied to a pup's birth date after the mom was dosed, the number of days after lactation, the number of days after dosing stopped etc. Further, even when testing is based off the first dose day, the designation may be more appropriate in weeks rather than days i.e., Week 2 is more customary than Day 14.</p>	Enhancement

Reference #	Release Version	Description	Disposition
61960	5.80	Added support of multiselect for input file selections to the Study automation feature to streamline multiple group setup with large number of subjects.  E.g. When setting up an 80 subject actimetry study, with 20 subjects per Study group, users no longer need to execute Automation 4 times, but instead can multiselect the 4 appropriate csv files.	Enhancement
61703	5.80	Study has been updated to remove the restriction requiring a Day 0 / Day 1 definition. For behavioral studies subject age is often used to determine when data from a subject is collected, rather than “days from dosing”. As a result, a Day 0/Day 1 acquisition is not required.	Enhancement
61698	5.80	Study now permits the addition/modification of Study Groups after acquisition. In behavioral studies, all the information required to set up the entire study may not be available at the start of the study. Some subjects being tested may be added to the study after the first acquisition is performed. Once a Study Group is run on a day, it cannot be modified for that day but can be modified for subsequent days. Study Groups can be added for any day regardless of whether an acquisition has been run for that day. A study group can be modified on a day only if the study group has not been acquired for that day.	Enhancement
61561	5.80	Added support of Actimetry to Study’s automation feature.	Enhancement

## Actimetry

Reference #	Release Version	Description	Disposition
74540	5.82	Resolved an issue where a partially blocked beam could momentarily switch states for a few frames before reverting to its original state. This behavior is now recognized and ignored, ensuring consistency in reported results across sensor boxes. The update affects only the ACTI analysis module, with the primary impact on the ActiND parameter (activity without displacement).	Fix
71726	5.81	Resolved an issue where the default attributes were not matching those defined in the Application Configuration : Attribute Defaults for Actimetry channels.	Fix
71481	5.81	<p>The calculations associated with activity parameters have changed between version 5.80 and 5.81.</p> <p>In 5.80 activity was calculated over 200ms intervals, with each interval being classified as either activity with displacement (ActiD), activity without displacement (ActiND) or none. If the subject moved away from a reference point by more than 1.5cm, the interval is classified as ActiD and the reference point was reset. If the conditions for ActiD were not satisfied but the subject moved, the interval is classified as ActiND. Activ reports the sum of ActiD and ActiND. If a subject is continuously active in a 1 second interval the Activ count for that second would equal 5.</p> <p>In 5.81, activity processing reports beam changes based on subject speed. ActiD reports the count of beam changes along each axis when the subject's speed along the axis exceeds the Slow threshold attribute. ActiND reports the sum of beam changes along each axis when the subject's speed along the axis is less than or equal to the Slow threshold attribute. Activ reports the sum of ActiD and ActiND.</p>	Enhancement
71094	5.81	Fixed subject identification when a subject is cleared immediately after a subject is detected.	Fix
68851	5.81	Fixed an issue where the first cycle mark is placed 3 samples late in acquisition.	Fix

## Known Issues

Reference #	Description
45933	<p>When using Japanese Language Pack with Windows 10 Operating System, the following error may be displayed when attempting to add a Workstation to Study:</p>  <p>This is caused by special characters being used in the data path name. The recommended workaround is to change the Windows display language to English.</p>
46259	<p>When trying to concatenate multiple RAW files created by achieving RAW file limit to cause file incrementation, data break lines may be seen at the rollover point. Additionally, a time overlap error may be displayed.</p>
48407	<p>When attempting to export a Study setup or print LOGs, an Error message may be displayed indicating that the function cannot be executed. E.g.</p>  <p>To correct this issue, navigate to C:\Ponemah\Utilities\ and run the AccessDatabaseEngine_x64.exe.</p>
49264	<p>The RVW file name in the report header now updates correctly when choosing the “Save Review Protocol As” option and entering a different file name.</p>

Reference #	Description
50581, 50582	<p>Data collected from the APR is invalid, resulting in incomplete data in the derivation tables.</p> <p>Enable an axis in the graph page for the APR signal and ensure valid APR data is being collected. If not, check hardware configuration and restart the application and/or acquisition.</p> <p>For data previously collected, disable the APR channel prior to loading the channels in Review to allow the pressure channels to load and data in the derivation tables to complete calculations. Review your data and determine if manual correction of your pressure data is needed. If so, contact DSI to see what options exist.</p>
50823	<p>While in Review, performing a “Save Parsed Derived Data” (from the Data Parser pulldown menu) may result in incorrect data saved for Custom Derived Parameters in the Excel Output.</p> <p>If using the function “Save Parsed Derived Data”, enable “Parser View Mode” from the Data Parser pull-down menu.</p>
64163	<p>When using the Actimetry acquisition interface and the Subject list reaches 30, then deleting a Subject from the list will not display the empty line and new Subjects will not be able to be added.</p> <p><b>Work around:</b> Save the hardware configuration to close the dialog, then re-open the hardware configuration again. The new line to add subject will be enabled.</p>