

PRODUCT RELEASE NOTES

Model: FinePointe™
Version: 2.6.0
Build: 2.6.0.11450
Date: December 17, 2018

DSI is pleased to bring you v2.6.0 of the FinePointe data acquisition and analysis software. Product Release Notes for FinePointe v2.6.0 indicate revisions made to the FinePointe software application since the v2.3.1.9 release.

FinePointe v2.6.0 is compatible with Microsoft Windows 7 (64 bit) and Windows 10 (64 bit).

New features, enhancements, and fixes

Reference #	Description	Disposition
	Version 2.6.0 Items listed below this row.	
38531	NAM chamber type selection - NAM chamber specific “K Values” which are used by the system during calibration to calculate the chambers Time Constant, now reside in the XML file. This allows the user to select the chamber type by model number for a specific species. The time constant information for the chamber selected will automatically be loading in the analysis software. This allows different chamber designs for the same species (e.g. legacy versions of chambers) to be selected. Previously only the most current chamber design for a specific species was supported.	Enhancement
40325	Dosimetry - Add ability to run multiple nebulizers for Tower/Dosimetry – the user can now connect up to 3 nebulizers to a single tower and run them as though they are generator. The software allows individual calibration and utilizing the user defined volume and duration, calculates each nebulizers duty cycle such that constant aerosol is provided from connected nebulizers.	New Feature

41273	Dosimetry - Display remaining nebulization time in FinePointe Station for Dosimetry – done as part of protocol assignment.	Enhancement
41552	Dosimetry - Higher Flow rate support for stackable tower – leveraging new Mass Flow Controller, user is able to select regulated flow rate of up to 40 SLPM utilizing external gas sources.	New Feature

41563	<p>Improved Rejected Breath evaluation criteria:</p> <p>Enhanced Graphical Presentation - An option has been added to display multiple graphical presentations of the physiological signals being analyzed during the Review process. Previously the only signal presentation graphically displayed was an un-filtered version of the acquired signal. The signal analysis algorithms create multiple versions of the acquired signal with different filtering techniques to aid in the analysis process. The filtered signals will have different morphologies due to the filtering being applied. Giving the user the option of displaying both the filtered and un-filter versions of the signal will provide a better understanding of why certain breaths are marked as “Rejected Breaths”. Note: This will only be available for data collected on V2.6.0.</p> <p>Enhanced Log File – The Rejected Breath log file that was introduced in version 2.5 has been enhanced to include:</p> <ul style="list-style-type: none"> • Elapsed time of rejected breath • Reason for breath rejection • Parameter value that triggered rejection (out of limit value) • Lowest acceptable value of parameter causing rejection* • Highest acceptable value of parameter causing rejection* <p>Note: Not all parameters have a constant low and high acceptable value (example: Ti rejection uses the criteria that Ti should be less than $2 * Te$). In these situations, the Low and High acceptable values will not be displayed.</p> <p>The Rejected breath log can be copied to the clip board or Exported.</p> <p>Both of the above Enhancements will be beneficial when working with Technical Support to adjust XLM file-based algorithm attributes to reduce the number of Rejected breaths within a dataset.</p> <p>Please note upgrading to V2.6.0 is not necessary to take advantage of the “Enhanced Log File” feature as your Study can be sent to Technical Support to be reviewed with V2.6.0.</p>	Enhancement
43038	<p>Study icon detail in mouse-over text – The detail presented in the FinePointe homepage mouse-over text for Study icons has been enhancement to include “Study Type name”.</p>	Enhancement

43044	MS Excel status performance issue – Improvement have been made to how FinePointe tracks the status of MS Excel which translates into a quicker response time when accessing features that utilize MS Excel such as loading Studies.	Enhancement
43032	Human as a selectable species - Human is not a supported species on the current version of FinePointe and could cause an exception to occur when selected. The ability to select “Human” has been removed.	Fix
42656	Dosimetry - QT doesn't apply settings for InFlow and Pressure – bug found in FP2.5 and fixed in this release. Only effects system utilizing tower systems with QT.	Fix
42840	WBP Cough Study error – When used for Cough studies the WBP analysis was not utilizing the subjects body temperature, rather a value of 0 was being used by the analysis which caused the subjects compensation factor to be negative. A negative compensation factor translates into a negative tidal volume being calculated and therefore all breaths were being rejected by the analysis.	Fix
43037	Study Archive progress bar error – Under certain conditions the progress bar indicated a successful archive was completed when the archive process had actually failed. The conditions to cause this issue were: select Archive a Study from the FinePointe Control Panel with the “Delete Study” check box enabled, while the Study to be achieved was open in FinePointe Review. The system will now return an error stating that the Study is open and cannot be archived.	Fix
43042	Dosimetry - Calibrate Nebulizer during launch acquisition: When error popup after clicking the Calibrate button the Nebulizer calibration will still be displayed – current calibration procedure added to FP for all nebulizer connected to system, (up to 4)	Fix
43054	Dosimetry - During acquisition Humidity Settings not retaining values set	Fix
43066	Antagonist Study error checking - The tool tips indicating a value was entered that was over the allowable range, within the “Before Introduction” and “After Introduction” text fields, were not being displayed when the user accessed the menu through the use of the “Back” key located at the bottom of the dialog.	Fix

43067	Dose Response Study error - When using the Dose Response study type to create a study with multiple Phases, an error could occur creating multiple Phases with identical names which could not be edited to make them unique. Upon clicking Next, the system would generate an error warning that duplicate dose names exist. Note: It is recommended to use the Universal Study to create Does Response type studies. The Universal Study offers more flexibility than the legacy Dose Response selection.	Fix
43088	QT: FinePointe runs nebulizer at 100% during acquisition	Fix
43140	NAM hardware configuration within Control Panel – When using Finepointe with a version of MS Windows® that utilizes a comma “,” instead of a decimal point “.” as decimal separator (known as a culture setting e.g. European version) the user would not be able to enter the correct values in the Thoracic Bias Flow Rate field. The error has been corrected.	Fix
Version 2.5.0 Items listed below this row.		
36035	Store information generated for rejected breaths - During the original analysis and subsequent re-analysis of waveform data the user can view a list of Rejected breath details. The information describes the reason a breath was rejected for analysis and the associated elapsed time. In previous versions of FinePointe the Rejected Breath details did not persist after analysis was completed. The Rejected breath details are saved to the Study and can be copied to the Clip Board. The Rejected Breath details are beneficial when working with Technical Support to adjust algorithm attributes to reduce the number of Rejected breaths within a dataset.	New Feature
36787	Whole Body Plethysmography body temperatures – The user can now specify body temperature per subject for the original acquisition and subsequent re-analysis. Body temperature is referenced by the WBP algorithm therefore having a subject specific temperature reference can improve data accuracy.	New Feature
37062	Buxco Mouse Pup chamber compatibility - The 2 and 4 Site FinePointe Whole Body Plethysmography controllers now have support for the Buxco Mouse Pup chamber. Previously the mouse pup chamber was only supported by the QT1001 Digital Amplifier.	New Feature

39795	QT1001 Nebulizer Calibration - Customers using the QT1001 Digital Amplifier can now calibrate the Aeroneb nebulizer. This is done by using a known volume of liquid dispensed over a specified period of time to determine the nebulizers efficiency. The calibration data is saved by the software and used to improve nebulizer delivery accuracy. The nebulizers efficiency can degrade over time therefore regular calibration can improve experimental consistency by compensating for nebulizer efficiency changes.	New Feature
40657	FinePointe V2.5.0 upgrade image without MS SQL Server – An image has been created and posted on the DSI website for download. The image posted does not include MS SQL components and therefore should only be used for upgrading from an existing version of FinePointe that would already have MS SQL Server installed.	New Feature
35740	Dosimetry – Integration of Buxco Tower Utility functionality into FinePointe software for Dosimetry studies. When launching a Dosimetry study, the user now can adjust Tower controller settings such as Tower Pressure and Air Flows.	New Feature
38590	Dosimetry – Support has been added for O ² /CO ² measurements. Additional hardware required.	New Feature
40893	Dosimetry – Added user definable Tower condition alarms for Inflow, Pressure, and Supplemental Flows.	New Feature
40491	Dosimetry – Support has been added for the Auxiliary Tower Controller.	New Feature
41279	Dosimetry - Time Course reports are now supported by Dosimetry studies.	New Feature
41305	Dosimetry - The user will now have the ability to define a Dosimetry study as either a Dry or Liquid aerosol. In the case of a dry aerosol the user will be able to control the nebulizer settings during acquisition to adjust the tower's humidity.	New Feature
41459	Dosimetry - The user will now be able to define multi-phase Dosimetry studies.	New Feature

36786	Improved export subject data capabilities - The user can now filter derived data to be exported to MS Excel by: subject, analysis set, and analyzer type. The user can also include/exclude event information. This enhancement can greatly reduce the file size, decreasing export time and reducing post export data editing in Excel.	Enhancement
37492	Calibration dialog modification - FinePointe shall display effective range warnings when the Calibration summary is first displayed. Previously the warning immediately followed the calibration of a site but was not retained after closing the dialog. The warning will not be displayed if the site has never been calibrated.	Enhancement
41458	Report Graphs – Units for derived parameters have been added to report graph axes.	Enhancement
37608	Dosimetry – an additional selection of 250,000 mg/m3 will now be displayed for the photometer range within the Control Panel settings.	Enhancement
40326	Dosimetry – Implementation of effective range limits for calibration of Plethysmograph chambers base on selection of species.	Enhancement
40561	Dosimetry – Additional dosimetry derived parameters have been added and existing parameters have been renamed to application specific descriptions.	Enhancement
40933	Dosimetry – Changes to Control Panel dialogs for QT1001, Auxiliary Controller, and Tower Controller hardware to more clearly articulate Inhalation applications.	Enhancement
41274	Dosimetry – Changes to the Dosimetry dialog for improved definition of Task sequences: <ul style="list-style-type: none"> • Allow nebulization time to be defined in HH:MM:SS • The exposure time (measurement duration) will start at the same time as nebulization • Nebulization time can be specified to have a duration shorter than the exposure time. 	Enhancement
37457	Calibration error display prioritization - FinePointe shall prioritize the display of calibration errors over the display of effective range errors. This change applies to WBP, NAM, and Inhalation Tower. Previously the effective range error/warning would overwrite other errors which are deemed to be more important.	Fix

33649	FinePointe will allow one analysis set per recording to persist through reanalysis. The user has the option to select one of three options: <i>Most Recent</i> , <i>Original</i> , or <i>Manual Selection</i> . The system default is <i>Most Recent</i> . The setting can be modified from within the "Include/Exclude Report Analyses" dialog. Previously when using <i>Manual Selection</i> , the user could accidentally select multiple Analysis sets which would then be averaged together.	Fix
37593	Environmental Data dialog – The Environmental Data dialog was removed from all site types except PFT. Previously the Environmental Data dialog was displayed for all site types from within the Launch Station wizard, but the environmental data was only used for the PFT site type.	Fix
39099	WBP Mouse Pup calibrator volume change - the default value has been changes to 2.9ml to reflect to volume of the released version of the WBP Mouse Pup calibrator.	Fix
39321	NAM Hartley Guinea Pig chamber Time Constants - The Nasal and Thoracic time constants have been updated to reflect values for the new Hartley Guinea Pig chamber. New values are as follows: Nasal 1989 / Thoracic 2169 Note: If you are using the legacy Buxco Guinea Pig chamber please contact Technical Support. The standard build of V2.5.0 will not be compatible with the legacy Buxco Guinea Pig chamber.	Fix
40328	Large animal WBP volume calibration - A change was made to define the default volume calibration to 50mL for both Dog and Cat. Previously the Dog default was 20mL.	Fix
40507	NAM Rat chamber calibration effective range change - The effective range calibration limits for Rat NAM chambers have been updated to the following: 370 to 554 for passing calibrations / 333 to 370 for posting a warning.	Fix
41641	WBP Mouse chamber effective range change - The effective range calibration "upper limit for passing" has been changes from a value of 210 to 230. This was done due to a value of 210 being deemed to be too restrictive.	Fix

35511	Error when creating a new study from an existing study - An exception could occur when creating a new study from an existing study under certain circumstances. This issue has been corrected.	Fix
38793	Calibration data not saved - When calibrating a WBP 2 or 4 site controller from within FinePointe software the calibration data was not written to controllers non-volatile RAM. This issue has been corrected.	Fix
38931	Drop down list option error - When using Mouse as a species for WBP studies, Mouse Pup options are available in drop down dialogs. The software has been updated to remove references to Mouse Pups when Mouse has been selected as the species.	Fix
39890	Error saving new data entered in the Environmental Data dialog – If the Environmental Data dialog is opened in Review and values are updated and then the dialog is closed, and then opened again immediately, the data is not saved. This issue has been corrected.	Fix
41390	Include/Exclude Report Analyses error - An exception can occur in Review mode if a newly reanalyzed recording is excluded from Reporting using the “Include/Exclude Report Analyses” dialog. This issue has been corrected.	Fix
35771	Dosimetry – The Calibrate plethysmography chamber button was located in a position that was easy to misinterpret its use and has been relocated.	Fix
41648	Dosimetry - When modifying the Task sequence for an existing Dosimetry study the user could add a second “Baseline” phase which should not be allowed. This issue has been corrected.	Fix
38618	Dosimetry - The Wash Nebulizer button on the calibration page did not work when configuring a Dosimetry study. This issue has been corrected.	Fix
40324	Dosimetry - The Calibrate controller icon on the calibration page did not work when configuring a Dosimetry study. This icon cannot currently be support by the Inhalation Tower controller and has been removed from the dialog.	Fix

41289	Dosimetry - When executing a Dosimetry study Task Sequence, it was possible to delivery multiple nebulizer doses to the Inhalation tower by using the individual site acknowledge buttons. This issue has been corrected.	Fix
	Version 2.4.6 items listed below this row.	
29489	<p>Added support for automated apnea detection allowing users to locate the following breathing patterns:</p> <ul style="list-style-type: none"> • Apnea • Sigh • Sniff • Erratic Breathing <p>User may further classify apneas as apnea without sigh, apnea immediately following a sigh (adjacent to sigh), or apnea within a user-defined timeframe of a sigh.</p> <p>Reports may then be created based on the number of occurrences, durations, distribution, and group means and statics.</p> <p>This feature is a licensed option. Contact your DSI Account Manager for details.</p>	New Feature
24060	<p>Added the Universal Study type to allow users the ability to create different phases for various purposes and greater configurability over the automation performed during acquisition.</p> <p>Universal Study allows the user to create a study with multiple phases. These phases may be ordered per user preference.</p> <p>The available phase types shall include:</p> <ul style="list-style-type: none"> • Dose Response • Gas Challenge • Toxicity • Antagonist 	New Feature

29490	Added support for communication with Biaera AeroMP to Legacy Dosimetry studies. The support will enable the user to specify network addresses for FinePointe and AeroMP to communicate through TCP. The communication will allow FinePointe to notify AeroMP about the current accumulated tidal volumes and to receive event information from AeroMP about aerosol exposure activity for data annotation.	New Feature
24086	Added a Parameter Summary report which produces results and statistics for multiple parameters all for a single measurement.	New Feature
24084	Added the ability to allow users to mass export all reports within a given study to Microsoft Excel.	Enhancement
25934	Previously, the Time of Brake (TB) and Time of Pause (TP) parameters computed on WBP Airway Hyper-reactivity (AHR) were not available on WBP temperature and humidity (Volume). Similarly, the End Expiratory Pause (EEP) and End Inspiratory Pause (EIP) parameters computed on WBP temperature and humidity (Volume) were not available on WBP AHR. This has been updated to make the available parameters consistent between the two WBP study types.	Enhancement
31720	Improvements were made to the analysis of the Functional Reserve Capacity (FRC) test data to provide significantly improved volume drift correction.	Enhancement
32549	Microsoft SQL server was updated to SQL Server 2014 Standard Edition (with Service Pack 2). If a previous version of SQL is already installed on the computer, it is recommended to install the Client and Server installation option (without SQL Server). Please see the installation guide for information on upgrading the current SQL server installed on the PC to SQL 2014 Standard Edition, if desired.	Enhancement
32676	Added support for 64-bit Windows 10.	Enhancement
32943/3443 1	Added the requirement of an authorship signature when stopping the acquisition of a GLP study. The user will now be prompted for the signature upon stopping the acquisition session.	Enhancement

32944	<p>Added the following display fields to the FinePointe Station status bar:</p> <ul style="list-style-type: none"> • Controller Server • Current User • Software Version 	Enhancement
32945	<p>When running an acquisition, FinePointe Station (acquisition) can be detached in order to open and review data from other studies, while continuing to acquire data. Once review is complete, the user can regain control of Station (acquisition) to complete additional acquisition tasks. This functionality is also available when running a GLP study.</p> <p>Original implementation did not require a user authentication to regain control of Station. This has been updated to require an authentication upon requesting control of Station (acquisition).</p>	Enhancement
33161	Updated WBP to start the Bias Flow upon launching FinePointe Station based on the user-defined Bias Flow mode (push/pull) specification made upon configuration of the Study Type.	Enhancement
34500	Added the Peak Expiratory Flow Ratio (Rpef) parameter RC site time. Rpef is the time to Peak Expiratory Flow (PEF) from the start of expiration divided by the Expiratory Time (Te).	Enhancement
34985	<p>Added the ability for FinePointe to compute the Time Constant for the WBP and NAM chambers for the following species.</p> <p>Mouse, Mouse Pup, Rat, Guinea Pig, Rabbit, and Ferret.</p>	Enhancement
35009	Changed the time alignment method from the time of re-analysis to Time Zero when logging derived data to the Derived List View (spreadsheet) using the time-based logging method.	Enhancement
35323	Added the Ferret species to the PFT site type.	Enhancement
35844	Added the ability for the user to specify an Aerosol Volume and Aerosol Duration when using the Asthma study type.	Enhancement
35847	Added the Cough site type to the WBP Asthma and COPD study types.	Enhancement
36010	Update the Measurement heading labels for the WBP Asthma and COPD study types to Phase since these study types only have one measurement per phase.	Enhancement

36294	Added species type Mouse Pup to the FinePointe WBP apparatuses.	Enhancement
36507	Once a study has been configured to follow GLP, it may no longer be changed to not follow GLP.	Enhancement
36590	Added a Review only installation option to allow users to review, reanalyze, and report on previously collected recordings from a secondary computer.	Enhancement
37469	Added reporting of lost data samples during NAM calibration. Should data samples be lost, due to USB traffic interference, the user will be notified to recalibrate the apparatus.	Enhancement
37476	Added reporting of lost data samples during WBP calibration. Should data samples be lost, due to USB traffic interference, the user will be notified to recalibrate the apparatus.	Enhancement
37721	Added WBP support for swine when using the QT1000 apparatus.	Enhancement
37722	Improved the performance for the ferret WBP algorithm to increase the number of detected breaths.	Enhancement
28091	Some systems experienced poor disk performance during data acquisition as a result of sub-optimal Microsoft Windows disk driver properties. This has been corrected.	Fix
32946	The FinePointe Create Signature dialog was updated to contain the following text: "In conformance with 21 CFR Part 11, Section 11.3(b)(7), execution of an electronic signature to an electronic record by an individual is the legally binding equivalent of the individual's handwritten signature."	N/A
32975	When operating a GLP study, a Contributing Specialist was able to author a recording. This has been corrected to not allow authorship from a Contributing Specialist.	Fix
34618	Fix for the Recording Source name list containing incorrect Source Name information when using different site types for disparate acquisitions.	Fix

36412	When operating a GLP study, a Technician was able to select the Edit Study button. This has been corrected to no longer permit the Technician role from having this ability.	Fix
36949	Added the analysis rejection comment to the audit log.	Fix
37596	Fix to correctly display the last calibration date with calibration data for the 4-Site NAM controller.	Fix

Known Issues

The following are a list of known issues and possible workarounds for FinePointe v2.4.6.

Reference #	Description	Workaround	Module(s) Affected
33268	When using the Detail view during acquisition, changing the displayed subject to another available subject does not update the main graph window title to reflect the new subject being displayed. This issue only affects the graph page title bar.	To update the title bar to display the appropriate subject, the user must choose the subject to be displayed and then toggle off and on selected subject.	Station
33294	When using the Universal study with an Antagonist phase, the user is able to put the phase in a conflicting state by enabling the "Administer Challenges Manually" and "Change ► Button to Mark Antagonist" checkboxes.	Ensure only the appropriate check box is enabled within the setup wizard.	Universal Study

Reference #	Description	Workaround	Module(s) Affected
32404	When using the integrated Biaera AeroMP feature, all species defined in the hardware configuration need to be the same. If different species are configured, an error message will popup stating, "All species need to be the same." However, the user can click Ok, and continue with their setup, without being required to fix the species selection. This will result in the user being unable to complete the hardware configuration until the species are consistent across site.	Ensure all sites have the same species defined when creating a new hardware configuration.	Biaera
32409	When configuring the TCP Listening Port for use with Biaera AeroMP software, the user may enter an incorrect port number and still be permitted to finish and close the hardware configuration wizard.	Ensure TCP ports are defined appropriately. Check to ensure the red validation boxes are not visible around the TCP Listening Port entry box. If using more than one Biaera AeroMP, ensure each site users a different listening port.	Biaera
32509	If a study is deleted from FinePointe immediately after it has been opened, the study will be removed from the FinePointe Study list, but will not be deleted from the SQL Server database.	Wait at least 5 seconds after the Study is closed prior to deleting the Study. If this pause is insufficient, SQL Server Management Studio may be used to delete the study database.	Review
32964	When attempting to Save License Details to the Desktop while logged in as a	The file is being written, but to the desktop for the Windows	Control Panel

Reference #	Description	Workaround	Module(s) Affected
	Windows User (non-administrator), the LicenseDetails.xml cannot be found on the Desktop.	Administrator who logged into the Control Panel. The work-around is to choose one of the other options for copying the license details (clipboard, Excel), or log off of the User account in Windows and log into Administrator account.	