Product Release Note

Model: NeuroScore™

Version: 3.2.1

Build: 006742-004 (CD Build)

Date: February, 2016

Product Release Notes for NeuroScore version 3.2.1 indicate revisions made to the NeuroScore core application and optional modules since release of version 3.0.0. For information regarding changes to the software from previous versions, please contact DSI Technical Support. Product Release Notes indicate only revisions to application contents that are part of a specific CD build.

Considerations

- Version 3.2.1 can be installed over the existing installation (e.g. v3.0.0 does not need to be uninstalled to install v3.2.0)
- Version 3.2.1 will not require a new license file when upgrading from v3.0.0. The following aspects of the program will carry over when upgrading:
    - Saved sheet layouts
    - Scoring protocols
    - Analysis sessions associated with a recording (scorings, sheet tabs, periods, reports, etc.)
- When upgrading from v1.x or v2.x to v3.2.1, the following aspects do not carryover:
    - Recording Library listings

Software changes between v3.2.1 and v3.2.0

Feature	Description	Module(s) Affected	Disposition
Spike Detection *(33763)*	When attempting to run spike detection on a signal with a high sample rate (>1000 Hz) the detector may fail, presenting the following message: "An entry with the same key already exists." This has been corrected. Workaround: A workaround is to create a Mean derived signal to create a 1000 Hz signal from the original signal..	Seizure Module	Fix

Ponemah v6.xx Compatibility - Time Zones *(31807)*	When collecting data in Ponemah v6.00+ in one time zone, and then loaded the data into NeuroScore 3.2.0 in a different time zone, the data timestamps maybe shifted by a number of hours. This has been corrected to appropriately handle loading data collected in different time zones.	Core Software	Fix

Software changes between v3.2.0 and v3.0.0

Feature	Description	Module(s) Affected	Disposition
Ponemah v6.xx Compatibility *(31806)*	Support has been added to read the file format introduced with Ponemah v6.00+.	Core Software	Enhancement
Noldus Video Compatibility *(31807)*	Support has been added to load, view and synchronize video files collected from Ponemah v5.20 using Noldus Media Recorder. Some issues remain with viewing MPG based video files with external XMP files. This is most probably a codec issue. AVI files are working well.	Core Software	Enhancement
Marker List Display *(30251)*	When using large datasets with a large number of markers, NeuroScore would be slow to react when scrolling through the data and reanalyzing. This was caused by the Marker List tracking the large number of markers placed throughout the dataset. The Market List has been enhanced to allow the user to choose between showing all markers in the list, disabling all markers from being displayed in the list, or just disabling sub-markers from being displayed in the list.	Marker List	Enhancement /Fix
Additional Signal Type Input Signals for Amplitude Detector *(22352)*	The Amplitude detector can be used to automatically insert data markers (e.g. Invalid Data) based on user-defined criteria This feature originally could only apply to a single signal type. Functionality has been added to apply the Amplitude detector on up to 4 signal types simultaneously.	Amplitude Detector	Enhancement

Marker Location (32535)	Added the ability to include the Marker Location within the Marker Grid. This now permits the user to display the Markers' associated channel should channel specific markers be applied. To add the Marker Location: 　1. Add a **Label Column** to the Marker Grid. 　2. Right-click the Label header. 　3. Select **Properties**. 　4. Select **Marker Info** tab. 　5. Check the checkbox associated with **Display marker location**. 　6. Click **OK**.	Marker Grid	Enhancement
Normalized Power Spectrum (30253)	NeuroScore previously presented and exported non-normalized Power Spectrum. Users can now choose to work with Normalized Power Spectrums within the application and via export options.	Spectrum Export	Enhancement
Spectrum Export using FFT (30254)	The Spectrum Export feature provides a method to export signal power value using the following processing methods: FFT, DFT, Periodogram, and Autoregressive Spectrum. When exporting power values using the FFT processing method, the values were incorrect. The other three processing methods exported correct power values. This has been corrected to for the FFT processing method to export the correct power values.	Spectrum Export	Fix
Invalid Data Marker Data Exclusion (18011)	Invalid Data markers could be placed through the recording to provide a visual indication of invalid data. Invalid Data markers would exclude associated data from NeuroScore generated Reports. However, these data would not be remove from the invalid sections of data within Marker Grids, Signals Grids, or Spectral Export. This has been corrected to appropriately remove invalid data from being reported within these features.	Core Software	Fix

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Adjust Daylight Savings *(32878)*	NeuroScore Recording Property to Adjust Daylight Savings was not correctly adjusting the data. The would occur when opening a recording collected prior to Daylight Saving time and then opening it after Daylight Savings time. This has been corrected. Please note, a second manifestation of this issue can still be seen if data was recorded in a time zone with Daylight Savings disabled and then reviewed with Daylight Saving enabled.	Core Software	Fix
Video Synchronization *(32616)*	NeuroScore would incorrectly handle Ponemah video files when multiple video sessions were associated with a single .RAW file. This caused video and waveform data to be out of synchronization when loaded into NeuroScore. This has been corrected.	Video	Fix
Video Synchronization *(28324)*	Video data would not synchronize with the RAW data if the Ponemah file included a period within the file name. This has been corrected.	Video	Fix
Ponemah File Format *(30258)*	When running NeuroScore on a Windows 64-bit Operating System, NeuroScore cannot open Ponemah files if Microsoft Excel (Office) 32-bit is installed. If using a 32-bit version of Microsoft Office, this can be fixed by installing the 64-bit version of Microsoft Office. Alternatively, Microsoft has solved this issue in Microsoft Access Database Engine 2010 Redistributable download. Please contact DSI Technical Support for the download location and instructions on how to install.	Core Software	Workaround

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Seizure Report Generation (30259)	When working with long dataset that contain many Spike and Seizure markers, the Seizure report generated is too large for the underlying database to store between sessions. The Seizure report will generate appropriately during the analysis session, however once the recording is closed (Save and Close) the report will fail to generate upon re-entry into the recording session. The workaround is to use on a smaller subset of the dataset to create the report.	Core Software	Workaround
German Windows 7 OS Support (32617)	When using NeuroScore on a German version of the Windows 7 operating system, the following error may occur upon trying to open a recording: "Could not open this recording. It is either damaged of the file format is missing." If using Windows 7 Ultimate edition, update the language setting to English. Otherwise, an English version of Windows 7 will need to be used.	Core Software	Workaround

Feedback and Requests

We encourage you to submit requests or bug reports in order to help us continually improve NeuroScore. This can be done in one of several ways:

1. Often when an error occurs, a dialog will be displayed that will allow you to copy important information to the clipboard and e-mail it to DSI.
2. The program includes an option under Help | Give Feedback. This can be used to directly send requests to DSI.
3. You can contact DSI technical services by phone or e-mail.

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