Persyst 15 Rev.D (2026.09.30) Marketing Release Notes

Persyst 15 Rev.D includes the new Seizure Burden and Electrographic Status Epilepticus (ESE) capabilities, together with enhancements to existing Persyst 15 functionality, workflow, interoperability, usability, performance, and reliability.

New Seizure Burden and Electrographic Status Epilepticus (ESE) monitoring tools provide continuous assessment of seizure activity over time, helping clinicians identify patients with a high seizure burden and recognize patterns consistent with electrographic status epilepticus. Users can also configure notifications to be alerted when ESE is detected or when Seizure Burden reaches a user-defined threshold.

For intracranial EEG, Persyst 15 Rev.D introduces support for compressed iEEG trend files, reducing trend storage requirements by approximately 70% while preserving the full trend information required for review and analysis. Together with preservation of native EEG sampling rates during review, these enhancements improve storage efficiency while maintaining access to high-frequency signal content needed for seizure onset analysis and high-frequency oscillation (HFO) review. Downsampling is now used only internally for Artifact Reduction (AR) processing to improve computational efficiency.

The release also significantly expands Persyst's multimodal iEEG workflow through tighter integration of waveform, trend, and imaging data, enabling more efficient navigation of complex recordings while maintaining anatomical and functional context throughout the review process.

Selecting an individual waveform channel now automatically navigates the neuroimaging viewer to the corresponding iEEG contact, allowing users to quickly correlate electrophysiological activity with its anatomical location.

The Waveform and Trends panels are now synchronized by hardware group. Drilling into a hardware group in either panel automatically updates the other panel to display the same group, making it easier to focus on specific hardware groups and efficiently review iEEG recordings from large implants.

Persyst 15 Rev.D also introduces spatial trend mapping, allowing trend values such as FFT Power and VsBaseline Z-score to be projected directly onto contacts within the neuroimaging viewer. Users can step through time to animate trend evolution, providing a dynamic view of how activity changes across contacts. By combining quantitative trend information with anatomical context, spatial trend mapping helps users identify seizure-related activity, assess its spatial distribution, and determine which contacts are involved at seizure onset and propagation.

To further support clinical interpretation, Functional Groups can now be created and edited from the waveform, trends, or imaging views, providing flexibility to organize contacts based on functional significance rather than hardware organization. Functional Groups can span multiple hardware groups and remain synchronized across imaging views, providing a consistent way to organize and review clinically meaningful contact networks such as seizure onset zones, stimulation response sites, and language-related regions.

iEEG Workflow

iEEG Data Synchronization

Reviewing large iEEG datasets can be challenging, particularly when recordings contain numerous hardware groups. Persyst allows clinicians to easily move between high-level overviews and detailed inspection of individual contacts within hardware groups to identify seizure onset patterns. Synchronized hardware-group drill-down streamlines this workflow by keeping waveform and trend displays aligned as users move between high level overviews and specific hardware groups. This reduces navigation overhead, maintains context across views, and supports faster, more thorough review of complex iEEG recordings.

- Hardware group drill-down is now synchronized between the EEG Waveform and Trends panels. Double-clicking a hardware group in either panel drills both views down to display only the channels and trends associated with that group. Double-clicking again returns both panels to the full hardware group view. Multi-group drill-down is also supported, allowing users to focus on multiple selected hardware groups (via ctrl-click) while keeping waveform and trend displays synchronized.
- It is now possible to navigate between iEEG hardware groups with one-click next/previous controls while keeping waveform and trend displays synchronized. (5582)
- Hardware group labels on the EEG Waveform panel now have larger labels for easier selection and drill down. Hardware group labels are larger, bolder, and visually offset from individual contact labels.
- An optional auto-scale setting adjusts iEEG waveform sensitivity automatically when drilling down, eliminating the need to manually re-zoom each time.
- New dynamic side panels were added for iEEG records with the option to show the Implant Diagram and Electrode Image. Images must be provided by the user.
- Selecting an individual waveform channel automatically navigates the neuroimaging viewer to the associated iEEG contact, helping users quickly correlate electrophysiological activity with its anatomical location.

Spatial Trend Mapping

Persyst 15 Rev.D introduces spatial trend mapping, allowing trend values to be visualized directly on electrode contacts within the neuroimaging viewer. Trend measures such as FFT Power and VsBaseline Z-scores are projected onto anatomical contacts using a color-coded display, providing an intuitive view of how activity is distributed across implanted electrodes.

Users can navigate through time one epoch at a time or use playback controls to animate trend evolution across contacts. By combining quantitative trend information with anatomical context, spatial trend mapping helps users quickly identify seizure-related activity, assess its spatial extent, and determine which contacts are involved at seizure onset and during propagation.

- Spatial trend mapping enables iEEG trend values, including FFT Power and VsBaseline Z-score, to be displayed directly on electrode contacts within the neuroimaging viewer, with synchronized color scales, measurement units, and time-point information providing anatomical context for trend activity.

- Navigation through the recording one epoch at a time is now supported from either the trends panel or the imaging viewer. Both views remain synchronized as the selected time changes. (4913)
- For bipolar trend data, the imaging viewer indicates that values are displayed on the lower-numbered contact of each bipolar channel pair.

Functional Groups

Functional Groups help clinicians organize contacts into clinically meaningful sets, such as seizure onset zones, stimulation response sites, or language-related regions, that may span multiple hardware groups. In Persyst 15 Rev.D, users can now create and edit Functional Groups directly from waveform and trend views, in addition to the neuroimaging viewer. Functional Group membership remains synchronized across waveforms, trends, and 2D/3D imaging, and is saved with the study for consistent review across sessions.

- Contacts can be selected from waveform, trend, or imaging views and added to new or existing Functional Groups, with group membership synchronized across 2D/3D imaging. Functional Groups are saved with the study and restored on reload, providing a consistent way to organize and review functionally related contacts throughout the clinical workflow.

Combined Intracranial EEG + Scalp EEG Records

- Support for recordings containing both scalp EEG and intracranial EEG has been enhanced. Persyst now automatically distinguishes scalp EEG, intracranial EEG, and other channels using implant information and configurable naming rules, helping avoid ambiguity when intracranial contacts share names with standard 10–20 scalp electrodes. Separate scalp EEG and intracranial EEG montages are now generated and can be used together within the same trend configuration, ensuring that trend calculations, montage generation, artifact reduction, and other processing use the appropriate channels for each recording type. During review, users can switch between scalp EEG and intracranial EEG waveform montages while viewing trends generated for both data sets. In addition, the scalp EEG trend template used to generate combined scalp EEG and intracranial EEG trend configurations can now be selected.
- Separate sensitivity controls are displayed for scalp and intracranial EEG channels when both are present in the same montage.
- iEEG channels (T3–T6) no longer get incorrectly renumbered or renamed when mixed with scalp EEG channels.

iEEG Trend Generation

- Support has been added for compression of iEEG trend files, reducing trend storage requirements by approximately 70% while preserving the full trend information for review and analysis.
- Persyst now generates two trend parameter files for iEEG records: one for standard acquisition and one for higher-resolution trending, optimal for seizure onset analysis.
- The ability to define iEEG trend parameters now requires an active Persyst Prime subscription, consistent with the existing requirement for the Intracranial Electrode Localization tool.
- Persyst now correctly handles patients whose implant has changed between recording sessions, preserving the correct electrode localization for each record.

- The G1 and G2 electrode inputs used for the heart rate trend can now be specified when defining intracranial EEG trend parameters.
- A heart rate numeric panel is now included in intracranial EEG trend templates by default.
- The trend type can now be changed and applied across all intracranial EEG trend panels simultaneously, reducing repetitive configuration and ensuring consistent visualization.
- During processing, Persyst stores the patient-specific implant configuration and montages with the record so hardware groups and patient-specific montage options remain available even if the original imaging folder is moved, renamed, or unavailable. These embedded files are included when records are archived with Trends, cleared when Trends are cleared, and used as a fallback where appropriate to preserve consistent viewing behavior across systems.
- Array names now appear on iEEG montages that use the Tailarach naming convention.
- An issue was fixed where the FFT engine could return trend values above the Nyquist frequency, which could cause erroneous high-frequency content in iEEG trends.
- A problem was fixed that prevented users from being able to use iEEG mmx templates if they made changes to the templates.
- Error reporting has been improved when creating patient-specific intracranial montages. Persyst now distinguishes between missing imaging directories and insufficient access permissions, and guides users directly to the imaging directory settings when configuration changes are needed.

Intracranial Electrode Localization

- Persyst Intracranial Electrode Localization now supports direct import of Brainlab SEEG trajectories. Imported trajectories can be used to automatically localize and tag electrode contacts.
- Persyst now supports retrieving ROSA reference imaging directly from PACS during trajectory import. This reduces reliance on access to the full ROSA export folder and streamlines the workflow for sites where only the ROSA .ros file is readily available.
- Depth electrodes can now be localized using a line-based workflow that automatically places contacts along the electrode trajectory based on known intercontact spacing, improving localization of difficult-to-visualize electrodes.
- The 3D volumetric, croppable brain rendering now includes deep grey matter structures (e.g., thalamus, putamen) and ventricles.
- The Intracranial Electrode Localization neuroimaging viewer now includes a multi-planar 2×2 layout that displays axial, coronal, sagittal, and glass brain views simultaneously. This integrated view provides additional anatomical context for electrode localization and allows users to evaluate intracranial contacts across multiple orientations within a single workspace.
- The Intracranial Electrode Localization application can now display voxel intensity values beneath the mouse cursor in 2D imaging views. This optional feature helps users optimize image thresholds and more accurately localize difficult-to-visualize electrodes.
- MRI import performance has been improved in Persyst Imaging and ESI. Temporary files generated during DICOM preview are now retained while browsing imaging series, allowing previously viewed series to be reopened instantly without reconversion.
- The Intracranial Electrode Localization application has an updated interface that better organizes application settings, electrode visualization options, and implant-specific controls. These changes make commonly used tools easier to find and streamline the electrode localization workflow.

- An issue was fixed that could prevent the Persyst Imaging application from opening when reading settings files created with a comma as the decimal separator. Existing settings files are now handled correctly regardless of the regional decimal format used.
- The Intracranial Electrode Localization application now manages its background data service correctly, so a system reboot is no longer required after installation before standard (non-admin) users can launch the Intracranial Electrode Localization tool.
- When autocomplete cannot complete due to incorrect intercontact spacing, a clear warning is shown instead of silently placing contacts at an invalid location.
- Electrode labels in the imaging now update correctly after repositioning contacts in 2D views.
- An issue was fixed that could cause sagittal, coronal, and axial slice selections to display the incorrect image orientation for some NIfTI files. Slice views are now displayed correctly based on the image orientation.
- ElecInfo.tsv file is now correctly labeled "MNI_Superior". In P15c, this column was mislabeled "MNI_Posterior". Only the label was wrong; the coordinate values were correct.
- The 'Surface Coordinates' checkbox is now grayed out for implants that contain no subdural electrodes, preventing confusion for depth-electrode-only datasets.
- The 'Delete Implant' option has been renamed 'Delete Persyst Implant' with improved tooltips, making clear that only Persyst-created data is removed.
- When Persyst is closed, any open Intracranial Electrode Localization viewer windows are now automatically closed as well.
- When there is a graphics startup error, Persyst now reports the specific cause, instead of a generic virtual machine warning.

PACS Integration

Persyst 15 Rev.D introduces a PACS Integration Windows Service, enabling automated receipt of DICOM images from PACS without requiring an active user session. The release also expands PACS interoperability with support for sending iEEG localizations, functional annotations, and ESI results to PACS, as well as receiving DICOM SEG objects from external systems.

- Persyst PACS Integration can now run as a Windows Service, enabling the system to receive DICOM images directly from PACS via DICOM Storage Provider without requiring an active user session. This allows automated image delivery and processing workflows while improving reliability for enterprise and hospital deployments.
- Persyst can now push iEEG electrode localizations with functional group annotations, and ESI results directly to PACS as DICOM objects.
- Persyst PACS services can now receive and retrieve DICOM SEG (Segmentation) objects. This enhancement enables compatibility with Brainlab trajectory exports and other segmentation-based workflows, improving integration with external planning and navigation systems.
- The PACS Query interface now preserves query results and selections when PACS settings are opened and closed without making changes.
- PACS image retrieval compatibility has been improved for systems that return non-standard Study Instance UIDs during DICOM queries. Persyst can now successfully retrieve and import studies from these systems while continuing to verify the integrity of the received images.
- The PACS configuration file is now automatically created during installation.
- A DICOM Conformance Statement was created.

Persyst

Trending & Detection

- Seizure Burden and Electrographic Status Epilepticus (ESE) are now available as standard trend types within the Trends interface. These trends can be added directly from the Add Trend menu and customize their display settings, including color bands and scales.
- Users can also configure notifications for the new Electrographic Status Epilepticus (ESE) and Seizure Burden trends. Notifications can alert users when ESE is detected or when Seizure Burden reaches a user-defined threshold, supporting continuous monitoring for clinically significant changes in seizure activity.
- The trend settings files shipped with Persyst — Trend Settings Version P15.mmx and Trend Settings Version P15 Audible.mmx — have been updated to add electrographic status epilepticus (ESE) and seizure burden trends, along with a new panel.
- Native sampling rates are now preserved during EEG review. Downsampling is only used internally for Artifact Reduction (AR) processing for computational efficiency. This enhancement preserves high-frequency signal content for records with high sampling rates, including for both scalp EEG and intracranial EEG recordings, supporting high frequency oscillation (HFO) analysis. As part of this change, the legacy downsampling preference has been removed because downsampling is now managed automatically during processing when needed.
- EEG Disconnect detection has been improved, reducing false-positive disconnect events, improving reliability in complex recordings.
- Seizure detections sent to OEM systems during live acquisition are now updated with their final position and duration.
- VsBaseline trend performance has been improved, with faster switching between baselines, especially for long recordings and large baseline intervals. A wait cursor now appears when a baseline is being computed.
- The Persyst Archive tool now has the option to export Persyst trend data, eliminating the need to re-trend a record after archiving.
- Persyst has enhanced the MMX select logic, which defines the configurations used for live EEG trending. It is now easier to choose the appropriate trend configuration based on the recording type, available patient-specific configurations, and recent selections. A Cancel Processing option has been added, and the application now provides clear error messages when MMX select cannot continue because of configuration or file permission issues.
- Persyst now validates that the montage configured for the Spike Detection engine is available before processing begins. If the configured montage cannot be found, processing is halted and an error message is displayed, preventing spike detection from running with an incorrect channel configuration.
- An issue was fixed where Persyst could read beyond the end of the available data while processing live EEG recordings. Persyst now correctly limits processing to the available data, improving the reliability of live acquisition.
- The aEEG trend display has been updated to better align with standard clinical conventions and user expectations. Improvements include enhanced axis labeling, more consistent reference line display, and additional options for positioning trend legend labels to improve readability.
- An option was added to show trend legend labels on the left side of the trends panel (in addition to the existing right-side option), configurable in General Preferences.

- The Export Channels/Trend Values Tool now exports trend data at the highest available trend sampling rate rather than being limited to 1-second intervals.
- Numerous usability, customization, and workflow improvements have been made to the Trends interface, including enhanced trend selection and multi-selection, improved drag-and-drop behavior, configurable trend labels and tooltips, improved panel and baseline management, more accurate cursor positioning, improved legend behavior and visibility, and streamlined navigation within Preferences.
- The VsBaseline spectrogram y-axis slider now allows the frequency range to be increased back to its full range after being lowered.

Persyst ESI

- The PDF report of the ESI results now include a spike count, rate, amplitude and similarity parameters for each cluster on the Cluster Overview page and there is a new legend for the color map in the ESI result for the average waveform, and a median dispersion measure for the ESI results of the individual spikes as well as a legend.
- At the highest ESI threshold setting of 99.9%, only the voxel of maximum activation is displayed, supporting ESI localization workflows used in published validation studies.
- The 3D cortical surface displayed in the ESI 3D Viewer has been refined to provide a smoother and more anatomically realistic representation of the brain. This enhancement improves visualization of cortical anatomy during ESI review and interpretation.
- The ESI PDF report title page has been updated so there is only one, it is in landscape orientation, and it displays the correct Persyst version, including associated UDI and barcode information.
- Persyst ESI now automatically logs off after 15 min of application inactivity unless there is an active upload or download running.
- The reliability of downloading and reloading ESI results has been improved. Persyst ESI now better handles temporary server throttling, reducing failures that could result in "Cannot get URL" or HTTP 503 errors when retrieving results.
- Persyst ESI now warns users when selected studies contain user confirmed generalized spikes that are not supported in the Persyst ESI workflow, improving transparency and reducing confusion during ESI review.
- Manually annotated spike events are now preserved when trends are cleared and reprocessed.
- The contrast of the 3D head model can now be adjusted in the imaging viewer, in addition to the existing 2D MRI slice contrast controls.
- A "File Name With Path" column was added to the Select EEG Studies dialog in Persyst ESI, showing the full file path for each study with a tooltip on hover for long paths.
- The 'Preparing EEG for Upload' progress bar now stays on top of the ESI application window during upload.
- The ESI installer no longer installs its built-in graphics library on virtual machines that already support 3D acceleration, so the 3D views can use the graphics card without any setting changes.

Spike Review

- Spike Review now supports a configurable montage for similarity-based sorting, allowing spikes to be sorted independently of the current viewing montage.

- In Spike Review when sorting spikes by Similarity, the "Confirmed First" option works correctly, making it easier to review and compare confirmed events. In All Spikes mode, sorting options now include the ability to sort by time, amplitude, perception, and electrode.
- Spike Review now updates average waveforms incrementally when spike detection sensitivity changes, improving performance in large datasets.
- An issue was fixed where Voltage Plot exports of average spike waveforms could produce invalid text and CSV output.

EEG Review and Usability

- Persyst now remembers custom montage formatting, including channel order, colors, and overlap, when switching between montages during a review session. Montage changes are saved only when explicitly confirmed by the user, helping preserve reusable montages, channel lists, and trend configurations across recordings with different channel sets. Montage editing has also been improved to ensure that existing montages are preserved if an edit is canceled or cannot be completed successfully.
- A new 'Mark Gaps' option draws a dashed vertical line at every discontinuity in the recording.
- A new waveform audio playback feature was added with speed options (1x, 2x, and 5x), adding flexibility when reviewing EEG audio and making it easier to identify high-frequency patterns and seizure onset in recordings.
- The “Copy to Panel” option is now only available when a trend is selected, preventing invalid copy operations and improving the usability of trend panel management.
- An issue was fixed with keyboard shortcuts not working when the trend tooltip was displayed or the mouse was over the numeric panel.
- The duration of pre-defined comments can now be edited. In addition, comments can only be added within recorded EEG data, and the Comment button is disabled when the cursor is positioned beyond the end of a recording.
- Notification settings have been consolidated, and the Notification Conditions option has been moved to the Notifications page.
- The Persyst Video Player now has a defined minimum size and cannot be resized/collapsed to a near-zero size.

Archiving and Export

- Persyst Archive now supports exporting discontinuous EDF files. Recording gaps are preserved in the exported EDF, enabling more accurate representation of discontinuous recordings.
- Timestamps are now preserved correctly when exporting recordings with pauses or discontinuities to Layout and EDF formats.
- The duration of @Archive events is now preserved correctly in archived recordings, ensuring that event times and durations match the original record.
- @SeizureDetected events now use the correct default origin in Archive settings, ensuring that seizure detections are categorized as Persyst detections rather than user-created events.

Database and Licensing

- Database reliability has been improved to prevent studies from being unintentionally removed following transient resource or file access errors. The database now better preserves indexed studies and automatically recovers from resource-related failures.
- An issue was fixed that could prevent post-processed multi-day recordings from being grouped into a single study when segments were acquired on different systems with different station IDs. Post-processed recordings are now grouped correctly regardless of station ID.
- An issue was fixed that could cause the Persyst Database window to become unresponsive after opening or searching the database. The database interface is now more reliable and responsive during patient search and record selection.
- Records from a removed database Record Location are now cleared from the database.
- An issue that prevented the Patient Info window from opening when selected from the database context menu has been resolved. Patient information can now be viewed correctly from the database.
- PSCLI now supports clearing trend data as a standalone operation. The /ClearTrends command can be used independently of processing, making automated workflows and scripting more predictable.
- Issues affecting concurrent PSCLI processing have been resolved. Batch jobs now launch correctly when using the /Jobs option, and stability has been improved when processing multiple recordings simultaneously.
- PSCLI now uses consistent default archive settings when an archive options file is not specified. By default, the entire recording is exported, ensuring reliable and predictable archive behavior across systems without requiring prior GUI configuration.
- A new Apply Activation Key option has been added to the License Registration tool. A Persyst license (.plek file) can now be applied directly from the registration interface without an internet connection.
- Persyst now handles extra spaces in registration information entered during licensing, reducing the likelihood of registration failures caused by formatting issues.
- An issue that could prevent the Persyst Intracranial Electrode Localization app from installing or verifying its license for standard Windows users has been resolved. The installer now prompts for elevation when required, and licensed users can run the installer without administrator privileges.
- An issue that could prevent Multi-Patient Monitor (MPM) from automatically identifying and opening live studies has been resolved. Live recordings are now detected and opened correctly when configured for automatic monitoring.
- An issue that could prevent Multi-Patient Monitor (MPM) from starting due to a database connection error has been resolved. MPM now opens and connects to the Persyst database correctly.
- An issue that could cause active studies to appear multiple times in the Multi-Patient Monitor (MPM) display has been resolved. Each active study is now displayed only once in the monitoring matrix.

OEM Integration

- The Persyst integration API has been expanded to allow OEM applications to export Persyst trend data alongside EEG recordings. This enables integrated systems to include trend data when exporting EEG clips while preserving the corresponding time interval within the trends. (5075)
- OEM seizure notification handling has been improved — an initial notification fires when seizure onset is detected, with a follow-up update once the final duration is confirmed. (4269)
- An issue was fixed that could cause spikes below the configured detection threshold to be sent to integrated EEG systems. Only spikes that meet the current detection threshold are now sent. (5648)
- An issue was fixed where OEM montages saved using Acquisition System Montage > Save to Persyst Montages could be imported incorrectly or not imported at all. Selected OEM montages are now saved correctly and are available from the Persyst montage menu, under Other Montages. (4259)
- Video archiving now works correctly with OEM recordings in integrated acquisition environments. Previously, archiving could fail with video-related errors and result in missing video data in exported archives. (4727, 6154)

Cadwell Arc

- iEEG montage generation now correctly handles Cadwell recordings that begin before patient information is entered, automatically refreshing patient demographics before montage creation.
- Persyst has been validated with an updated Cadwell API to ensure consistent data retrieval and reliable automated analysis.
- An issue that could cause Persyst to become unresponsive when opening recordings from Arc 3.1 has been resolved. Recordings can now be opened reliably in Persyst and integrated review environments.
- Persyst now uses the native floating-point data provided by the Cadwell API, eliminating an unnecessary data conversion step during data acquisition and review. This change improves processing efficiency while preserving waveform fidelity.
- Persyst trend analysis now correctly handles impedance checks performed during live Cadwell recordings. Trend processing may pause when impedance measurements are performed on open-air amplifiers or when the reference electrode has a very high impedance, which is expected behavior and does not indicate a loss of EEG data.
- Persyst now will not read data beyond the end of the available recording during live acquisition, reducing gaps or "blacked out" regions that could appear in FFT spectrograms when Artifact Reduction (AR) is enabled. This update addresses a significant source of the issue; however, complete resolution may also require updates from the acquisition system.
- The Database settings page is now disabled in integrated environments where database configuration is not applicable. This prevents database-related errors from appearing when accessing General Preferences.
- Impedance measurements are now exported correctly when archiving Cadwell recordings with a subset of channels. Archived recordings now include impedance values only for the channels selected for export.
- An issue affecting EDF exports from Persyst of certain Cadwell recordings with very large signal amplitudes has been resolved. Persyst now handles out-of-range values more consistently and displays a warning if signal clipping occurs during export.

Micromed

- Persyst now reads electrode impedance from the current header area in Micromed Brain-Quick (Type 5) files.
- When MMX Select was enabled during a Micromed BrainQuick acquisition, Persyst trends were missing or inaccessible. Trends are now generated consistently whether or not MMX Select is enabled.

Natus / Neuroworks

- An issue that could cause Persyst to run out of memory and stop trending during extended Natus NeuroWorks recordings has been resolved. Memory usage now remains stable during long-term monitoring studies and study rollovers.
- Persyst now warns users when a Natus iEEG recording is detected to have generic channel names rather than patient-specific labels, prompting users to verify the montage configuration before proceeding with analysis.
- Persyst now detects and reports out-of-memory conditions that can occur when post-processing high-density iEEG recordings with high-resolution FFT settings. When insufficient memory is available, a warning message is displayed to help users identify and troubleshoot the issue.
- An issue that prevented the Persyst workspace from loading correctly in Natus NeuroWorks 10 has been resolved. The deployed Persyst workspace now applies the intended layout when selected, displaying Persyst Trends alongside NeuroWorks as designed.
- Persyst now correctly imports and displays Natus acquisition montages that use average references. Channels configured with average reference montages are now included when importing acquisition system montages, providing a more accurate representation of the recording setup during review.
- An issue that could prevent the Trend Configuration selection dialog from appearing during Natus acquisition has been resolved. Persyst now correctly launches the dialog when MMX selection is enabled, allowing users to select the appropriate trend configuration before processing begins.
- Performance of VsBaseline trends during live monitoring in Neuroworks 10 has been improved. Optimizations reduce system overhead when displaying long-duration VsBaseline trends.
- The timing information exported during archive has been improved for Natus recordings containing discontinuities. Sample timing metadata is now generated more accurately, ensuring that gaps in the recording are represented correctly in exported files.

Nihon Kohden

- Persyst can now reliably open recordings launched from the NK Polaris review interface.
- Persyst now supports Nihon Kohden acquisition montages that use average references. Average-referenced channels are imported correctly, providing a more accurate representation of the acquisition montage during review.
- Patient first and last names are now displayed correctly in Persyst when reviewing Nihon Kohden recordings.
- An issue was fixed that could prevent comments from being copied to the Nihon Kohden manufacturer comment list for some studies, resulting in an error indicating that events could not be written.

Compumedics ProFusion

- The Compumedics Profusion API installer has been updated to improve compatibility with newer versions of Profusion EEG.
- An issue that could cause seizure and spike detections to appear twice when reviewing Compumedics ProFusion 7 recordings has been resolved.
- Several issues affecting the Compumedics ProFusion integration have been resolved. Persyst now launches more efficiently, handles live seizure event updates correctly, and avoids unnecessary processing actions when recordings are opened for review.
- Persyst now allows patient-specific intracranial montages to be created for Compumedics recordings even when the patient's date of birth is unavailable. This improves compatibility with Compumedics workflows where birthdate information is not included with the EEG record.

Other Data Readers

- Compatibility with EB Neuro Galileo systems has been improved, resolving problems reading Galileo recordings and reopening them after Persyst processing. Persyst also now correctly opens EB Neuro Galileo 4.51 recordings in standalone and integrated workflows.
- Persyst now correctly generates intracranial montages for BrainRT recordings. Hardware groups that include dashes in channel names are now recognized properly, allowing iEEG montages to be created without manual channel renaming.
- Patient information is now displayed correctly when reviewing BrainRT recordings, including name, date of birth, gender, and patient ID.
- An issue was resolved in Micromed System Plus Evolution where no reference electrode was configured for some channels.
- The Alpha Trace reader now correctly imports customer channel names and respects channel activation flags.
- Persyst now handles corrupted Lifelines video segments more gracefully. If a video segment is damaged, playback is limited to that segment while video in the remaining portions of the recording continues to play normally.
- Support has been added for reading electrode impedance values from Polymate recordings. Start and end impedance measurements stored in supported Polymate files are now available for review in Persyst.
- Support has been added for new event types introduced in recent Polymate systems. An issue was also fixed that could cause Persyst to close unexpectedly when opening recordings containing unsupported Polymate event codes.
- An issue was fixed where the waveform polarity could be reversed between NeuroVirtual BW Analysis and Persyst.