



# Stratus EEG Release Notes

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Software Version 5.1

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## What's New in Version 5.1?

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Version 5.1 is focused on the Acquire software. The Web software is also upgraded, but only for issue fixes and fine-tuning, no new functionality.

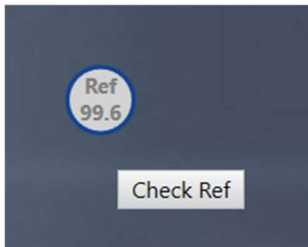
### Support for USB Cameras

Ability to use USB cameras rather than IP cameras has been added. Note that this functionality is tested on the Lifelines USB camera and may not work for generic USB cameras. ER#12290.

### ABM StatX24 Amplifier

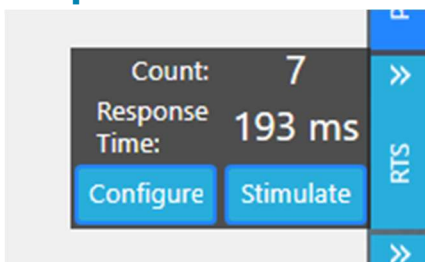
The ABM StatX24 amplifier can be used to record with the Acquire software. ER#13437.

### Impedance Test for Reference Electrode



It is now possible to measure impedance on the reference electrode for Lifelines R40, T4 and T4A provided that that issue of the amplifier supports this function. This is done by pressing the "Check Ref" button during impedance test. Note that impedance on Ref cannot be tested at the same time as on the electrodes. ER#13238.

### Response Timer



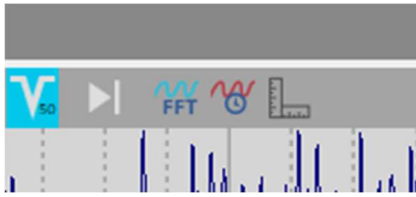
The response timer measures the patient's reaction time. The operator initiates the test by pressing the "Stimulate" button. This triggers an audio signal and the patient is supposed to respond by pressing the event button. The time between the stimuli and the button press is measured and indicated as the duration of the Reaction Time event. The Response timer is controlled from the Panel.

By defining the Reaction Time event as a report event, it is easy to make report templates showing a list of reaction time tests. ER#17930.

### Trend Templates

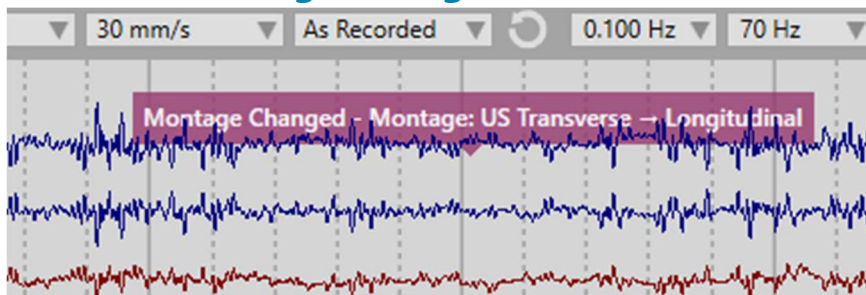
Trend Templates defined in WebCentrum can be applied in Acquire. ER#16369.

## Measurement Tools



The frequency and time domain measurement tools have been made available in Acquire review pane. ER#14536.

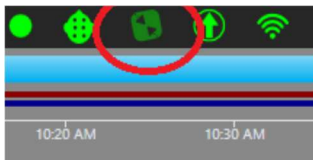
## Event on Settings Change



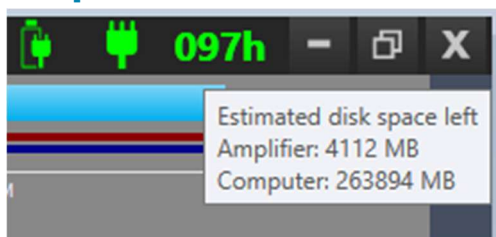
If setup or format is changed, an event is inserted with a description of the change. ER#17239.

## Remote Control Indication

When a remote control is ongoing, the „Control“ indicator blinks, both in operator mode and on the lock screen. Hovering over the indicator, a tooltip further explains that remote control is ongoing. ER#17196.

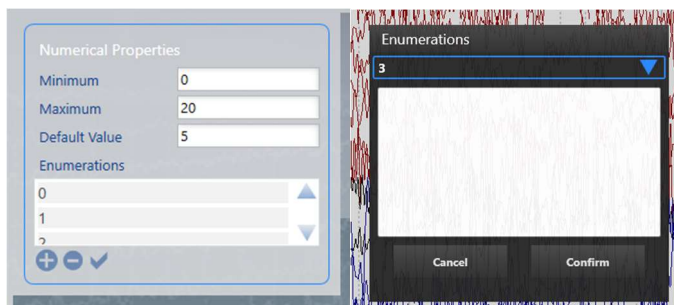


## Amplifier Data Card Indication



An indicator shows how much space is left on the amplifier memory card as hours and as MB on the tooltip. ER#17420.

## Enumeration Events



Events can be defined as “Numerical” events in the event editor. This can be further customized. When the event is inserted in Acquisition, popup allows the user to set the value for the event. ER#17515.

## Preview Before Record Option

Acquire can be set to start up in preview mode rather than starting immediately to record. This is controlled by a parameter in the “Parameters” table in the configuration database and it is called „StartRecordingEEGParameter” (GUID: D654B48D-AEA4-4657-B2DB-6425A5CAD107). The parameter can be set globally for the server through the server config database, or locally by changing the local database. ER#17254.

## Notch Filter

The notch filter has been improved to filter out harmonics of the 50/60 Hz interference. The new filter is a 3<sup>rd</sup> order Butterworth filter. The width of the stop-band and the number of harmonics to remove can be configured in the config database.

This new filter is in particular useful when recording on high sampling frequencies.

Parameter	GUID	Value
NotchType	76CE6902-D61D-46B5-8ACA-77DDE41D8A2A	0 = old filter 1 = new filter
NotchHarmonicMax	C7EB3FAF-CED5-4379-AEF9-BBA5311569F3	The max number of harmonics filtered. Should be between 1 – 10.
SixthOrderButterworthIIRWidth	4D4CD6AD-822A-4F04-B1C6-E54DD67C938A	The width in Hz between the 3 dB attenuated frequencies

## Minor Enhancements

- Popup to confirm modification of patient information. ER#16512.
- Shortcut key for deblock changed from *Enter* to *Ctrl+D*. ER#17168.
- UK representative information in About box. ER#18325.
- Translation of About box. ER#18449.

## Fixed Issues

Issue #	Deliverable	Issue Subject
15354	Acquire	Patient banner in Acquire
15776	Acquire	Fluctuating battery % on T4A's
16545	Acquire	When amplifier is set to dual, records to PC but not to card the amp is reported offline
17323	Acquire	Negative duration in duration HV and Post HV events
17575	Acquire	Not all video files are attached to EEG and available in review
17590	Acquire	Manually stopping exam upload prevents export of the local Acquire data
17607	Acquire	Patient ID issue
17708	Acquire	Online transfer slow after disconnect to network
17814	Acquire	Upload fails if there is no space to export exam on acquisition system
17846	Acquire	Power loss fails to correctly display time using Armcrest cameras
18266	Acquire	Edit Trend not displaying correct data
18318	Acquire	Event keyboard shortcuts not working while the Photic window is visible.
17161	Centrum	Word-plugin pop-up during installation should be removed
17568	Centrum, Server	Failure to import all event if the first BDF file is not selected
14608	Review	Double-click an exam to review skips a custom workflow state
15799	Review	NicoletOne data conversion issues
16069	Review	Signum reader log file on client system displays Patient ID
17535	Review	Amplifier setup only shows EEG channels but not poly channels
18397	Web Centrum	The default font in HTML formatted boxes does not match the rest of the reports

18402	Web Centrum	Not possible to add electrodes in the EEG Electrodes tab
18405	Web Centrum	Sensitivity unit in Perspective
18415	Web Centrum	Phone number character restriction
18456	Web Centrum	Session token fails to expire in Firefox
18462	Web Centrum	Adding workflow state to an exam type
18469	Web Centrum	Sorting of Exam Type dropdown
18493	Web Centrum	Monitoring Log for Exam access restrictions
18523	Web Centrum	Incorrect billing information
18534	Web Centrum	SSO & Send Exam Link do not work together
18542	Web Centrum	StratusEEGToGo continuously opens the command prompt window
18588	Web Centrum	States missing in Upload, demographics, Contact
18590	Web Centrum	My Settings, specialty dropdown should be alphabetically ordered
18592	Web Centrum	Medications, other option Issue when cancel is clicked
18598	Web Centrum	Documents should be in chronological order
18599	Web Centrum	ISO File Export Popup
18651	Web Centrum	Pre-known Disorders field missing in report
18720	Web Centrum	Inactivity period dialog, logout button not working
18728	Web Centrum	Montage duplicate is incorrect
18417	Web Review	Sensitivity and filters dropdown list behavior
18422	Web Review	Incorrect channel names displayed in Web Review when only a subset of channels is selected
18718	Web Review	Minor gridlines too heavy

## Update 1

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Update 1 for Stratus EEG version 5.1 is intended to address reported issues primarily within the Web software, including reporting and video issues along with other usability issues. A few other issues were fixed as well. As the update is purely focused on fixing issues, no new functionality has been added.

### Fixed Issues

Issue #	Deliverable	Issue Subject
19009	Acquire	Acquire - shortcuts for END and Home are not working any more
19011	Acquire	Trend templates created in Web Centrum do not work in Acquire
19033	Centrum	Import of BDF and video skips second set of video files
19034	Centrum	BDF_TEV merge failure
19022	Server	Billing task should be able to run in parallel
19028	Server	monitoring log for merged exams
18827	Web Centrum	Common Complaints regarding reporting
18828	Web Centrum	Copy/paste issue in all the rich text fields in the patient folder tabs
18830	Web Centrum	Reports Document Name is reverting to Template Name
18837	Web Centrum	Report Template permission issue
18847	Web Centrum	Can not delete an EEG Clip
18863	Web Centrum	First inspection interval (almost) always wrong
18867	Web Centrum	Exclusion dropdown should be sorted
18871	Web Centrum	Exam Folder info not always correct.
18914	Web Centrum	6cm/hour should not be the default for trend templates
18922	Web Centrum	DOB is a day off on the patient card
18963	Web Centrum	PDF metadata
19037	Web Centrum	Download report - no .pdf extension
19048	Web Centrum	Roles - Filtering not working

18812	Web Review	Video not updated after PgDwn
18813	Web Review	Video not updated when focus is lost
18814	Web Review	Zoom lost when popping video window out/in
18829	Web Review	Stratus EEG Review webpage Hot Key Annotation issue
18831	Web Review	Current Page Timeline Marker randomly disappears
19006	Web Review	Video stream selection for prune events missing in Web
19008	Web Review	Converted video files - not marked as such
19016	Web Review	Enumeration events in Web Review

## Update 2

Update 2 for Stratus EEG version 5.1 is intended to address reported issues primarily within the Web software, and to a lesser extent in Acquire, Centrum and Review. Notable improvements include resolving issues related to EEG and trends display, montage and video issues, along with other usability issues. A few other issues were fixed as well. As the update is purely focused on fixing issues, no new functionality has been added.

### Fixed Issues

Issue #	Deliverable	Issue Subject
19128	Acquire	Impedance measurement fluctuating
19140	Acquire	Default Timebase issues
19266	Acquire	Unable to log in with AD accounts on Acquire systems
18754	Acquire, Centrum	Remote control of Acquire 4.1 and Server 4.1 from Client 5.1
18758	Acquire, Centrum	Remote control of Acquire 5.1 and Server 5.1 from Client 4.1
19269	Centrum, Web Centrum	Unable to change the montage settings for the high- and lowpass filters on EOG (bipolar channels)
19268	Review, Web Review	Inconsistent EEG display across applications
19278	Server	Anonymize on export not fully efficient
19013	Web Centrum	Reviewing ongoing files with aEEG - pattern changes when trend is updated
19209	Web Centrum	Confirmed Medications list is not sorted
19210	Web Centrum	Patient Card filter does not remember settings
19236	Web Centrum	Last day in calendar missing for all months
19238	Web Centrum	Centrum has mixed date formats
19267	Web Centrum	Issues with the AAR montage
19283	Web Centrum	Unable to add EEG References with same label name to different Label Systems
19292	Web Centrum	Some exam information entered in Centrum is not visible or editable in Web

19328	Web Centrum	Exam Update problem
19337	Web Centrum	Cannot send SMS when credential is from Clicksend provider
19399	Web Centrum	Asks to sign report even if setting disabled
19421	Web Centrum	Not possible to upload insurance document and view
19117	Web Review	Marker in timeline issue - online recording
19141	Web Review	Video looks distorted when moving the video cursor
19183	Web Review	As Recorded Montage display issue
19230	Web Review	Start video play jumps to previous page
19339	Web Review	Issue with montage head display

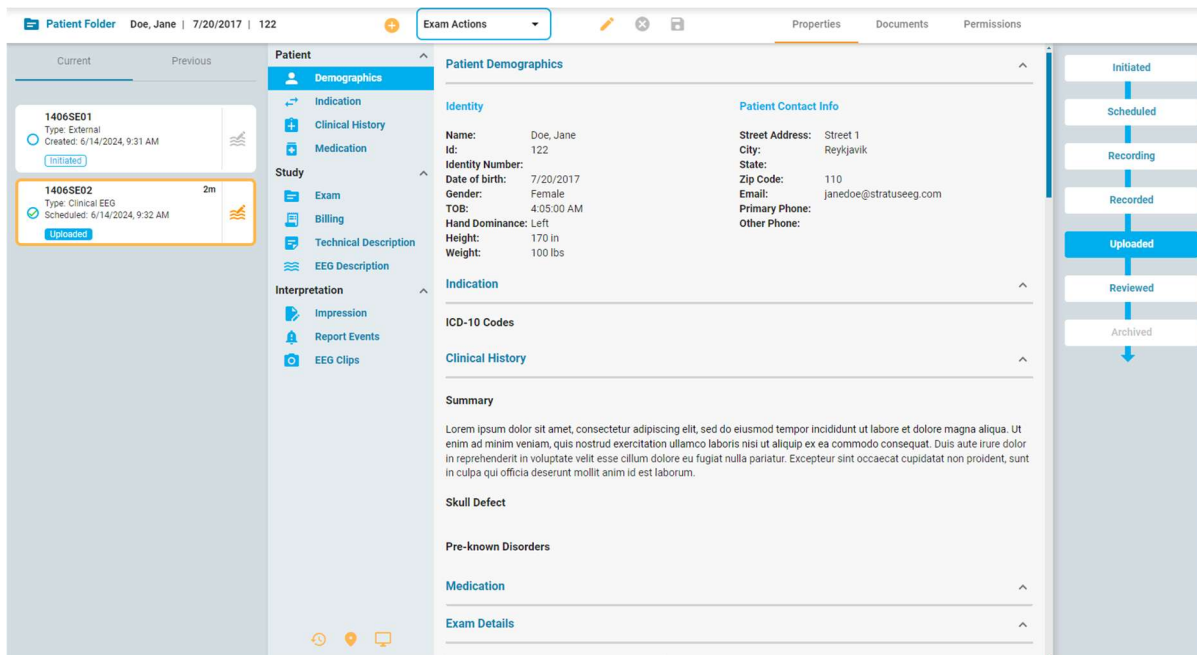
## Update 3

Update 3 for Stratus EEG version 5.1 introduces a new and improved patient folder featuring a streamlined scrolling page for easy navigation. The update also addresses several reported issues within the Web software including enhanced audit logs, fixes for timeline duration and trend display, resolved montage- and event-related issues, along with other usability issues.

### Scrolling Patient Folder

The patient folder has a new, improved look, while maintaining all its original functionality. The separate pages of the patient and exam details have been merged into one, scrolling page, making it easier to view and edit any section without having to switch between pages. The tabs remain available for quickly navigating to different sections instead of scrolling, if preferred.

The vertical area of the scrolling page has been increased by moving the workflow bar to the right of the page (in a vertical orientation) and merging the white header bar with the patient folder header instead of having it appear below.



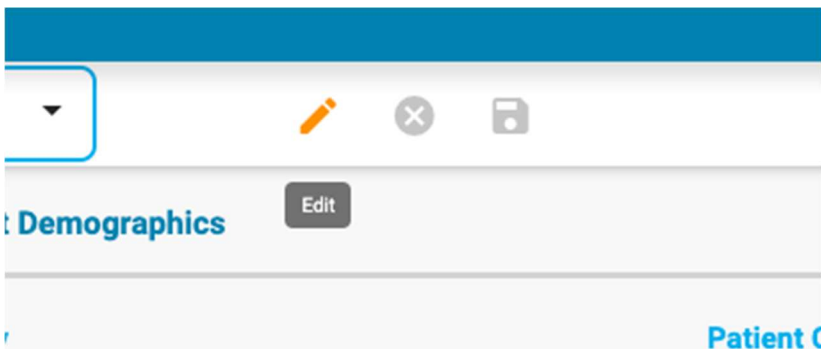
## Collapsible Headers

In addition, any section can be collapsed by clicking anywhere on its header to further compact the length of the scrolling page.



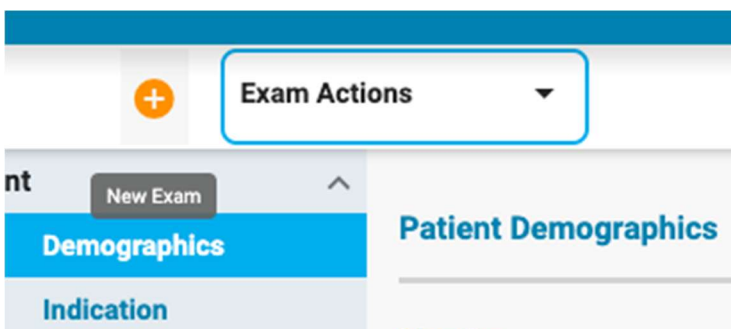
## Edit/Cancel/Save

The Edit/Cancel/Save buttons have been moved to the center of the white header bar. They work similarly to before, except that multiple sections can now be edited without having to save and open each section separately.



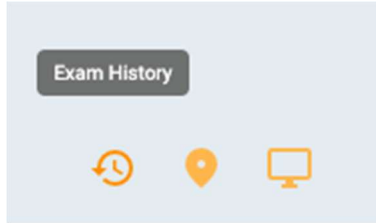
## New Exam

The New Exam button is still located next to the Exam Actions menu, but the text has been removed to save space. A tooltip still announces the purpose of the button on mouseover.



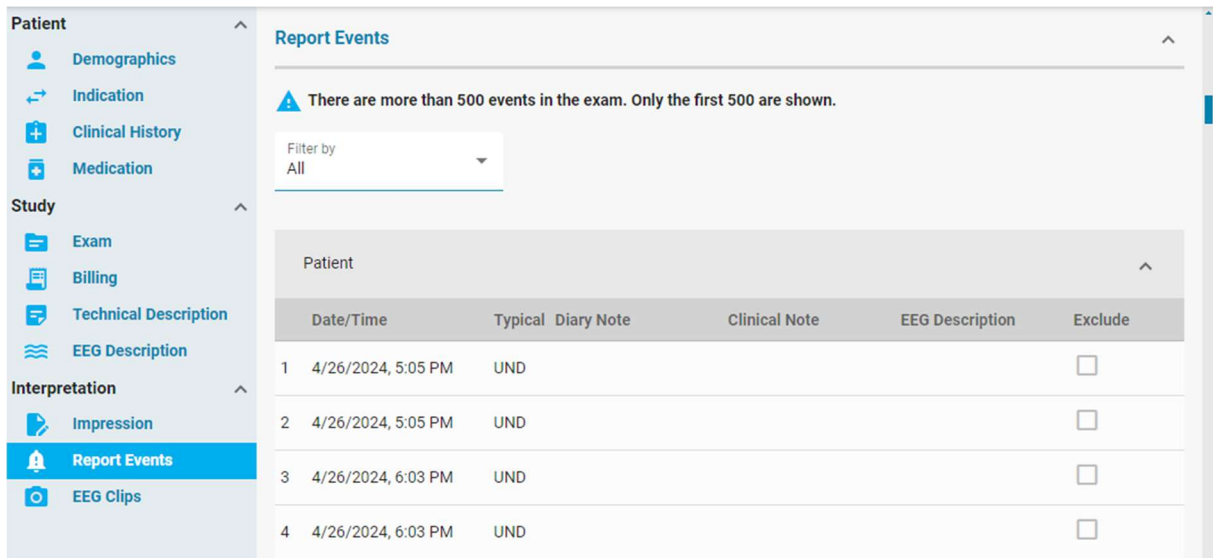
## Exam Buttons

The Exam buttons (Exam History, Exam Folder and Monitoring Log) have been moved from the Exam Details section to the lower part of the section tabs. They are now readily available when needed but remain out of the way otherwise.



## Report Events

The Report Events tab has been relocated under the Interpretation section. This change aims to minimize the need for excessive scrolling to access other information while optimizing software performance, especially in cases with a large number of report events. Additionally, the maximum number of events displayed in the Report Events section is now capped at 500. If an exam contains more than 500 events, a message will display at the top of the tab indicating that only the first 500 events are shown.



Patient					
Date/Time	Typical	Diary Note	Clinical Note	EEG Description	Exclude
1	4/26/2024, 5:05 PM	UND			<input type="checkbox"/>
2	4/26/2024, 5:05 PM	UND			<input type="checkbox"/>
3	4/26/2024, 6:03 PM	UND			<input type="checkbox"/>
4	4/26/2024, 6:03 PM	UND			<input type="checkbox"/>

## Fixed Issues

Issue #	Deliverable	Issue Subject
19493	Web Centrum	Exam type not visible on referral card
19562	Web Centrum	Scroll view in patient folder
19782	Web Centrum	Date format inconsistency in Web Centrum
20169	Web Centrum	Medication list search issue
20243	Web Centrum	Issue with rearranging channels in the montage editor
20352	Web Centrum	Changing identity number is not audited
20377	Web Centrum	Editing indication, clinical history, technical description, report events and EEG description is not audited
20460	Web Centrum	Limit number of report events displayed in the patient folder
19969	Web Review	Events are hidden behind a duration event
19990	Web Review	Trend does not update when paging
19998	Web Review	Hidden event info is lost after UI changes
20045	Web Review	Intermediate upload folder on server not cleaned up
20047	Web Review	Spike events not visible in Web Review
20050	Web Review	Personal montage not personal in Web Review
20120	Web Review	Web Review freezes after impedance check in Acquire Pro
20193	Web Review	Displayed trend template timeline duration should match the selected setting
20292	Web Review	Displayed trend timeline duration should match the selected setting
20362	Web Review	Moving the timeline zoom bar changes the displayed timeline duration