

Vigilant Changelogs

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Released: December 27, 2022

Features

- Added a new log-in page
- Modbus updates. Please review the updated mapping documentation for more detailed information:
 - Modbus has been updated to provide more information via the MEI types (Modbus mapping version & battery name).
 - Existing MEI data has been updated. Please review the mapping document to determine if the changes will affect you.
- Minor improvements made to the discharge sections on the web UI:
 - Added the ability to download CSV files from the discharge page and discharge summaries page.
 - Improved legend display - will now be more compact on a larger range of screen sizes.
 - When hovering over the chart data, the web UI will now display the unit number alongside the values.
 - Discharge summaries now display the length of the discharge.
- Improvements made to the web UI reporting systems:
 - Users can now download PDF versions of NERC reports.
 - Now when downloading CSV files and opening them in Microsoft Excel, it will recognise the correct file encoding and display the correct units in the headers.
- Bar charts now allow users to zoom & scroll - particularly useful with systems with a large number of units.

- When sensor communications are "idle", the Vigilant will continue to communicate to prevent v2 boards from triggering a watchdog alarm.

Fixes

- Changes made to the Vigilant's self-reporting version code.
- Fixed a bug where the hysteresis/deadband deactivation variables were incorrectly set if adjusted from the web UI.
- Fixed the Modbus MEI type data where one of the registers was accidentally duplicated.
- Fixed an issue with the ELM management code (post-install) that would not register ELM alarms for any ELMs configured after commissioning (1.3.9 issue only).
- Fixed an issue with historical ELM alarms, where all alarms would erroneously record that all alarms started at the same time.
- Fixed an issue when LEDS/relays wouldn't trigger when the system detected an alarm under certain circumstances (1.3.9 only).
- Various improvements made to the installer to speed up the commissioning process.
- Some minor typographical fixes in the web UI.
- Some minor typographical updates to historical changelogs.

1.3.9

Released: April 8, 2022

Features

- Post install wizard electrolyte sensor management. Users can now calibrate and reset all ELM sensors simultaneously.
- Relay 2 is now reserved for watchdog (power) alarms. Once the Vigilant monitor is running - it will activate the relay. This relay will drop out in the case of power loss.
 - The relay will be activated at program start.
 - The watchdog will be patted once a minute in case the delay accidentally de-energizes.
- Users can now change their temperature display preferences post install.
- New Modbus data points added:
 - Average unit voltage
 - Average post temperature (Celsius & Fahrenheit)
 - Average unit resistance
 - Average STRAP resistance
- Files downloaded from the Vigilant now have a more descriptive filename.
 - Reports specifically are named after the battery asset and time of report generation.
- Changes made to the BMS reporting:
 - Added a new kind of report based on the existing NERC report, this is called the Monitor Report. The monitor report will increasingly diverge from the NERC report over time in future versions. Contains additional information that will be of interest to the user, but is not strictly to do with NERC.
 - Monitor report
 - Unexpected restart count
 - Removed some duplicated information required by different standards

- Display system serial #
 - Can display web/docx/csv reports in the same manner as the NERC report
 - NERC report
 - On the "Battery & Strap Data table" - in the strap resistance column, non-strap points will now display the interconnection type and not "n/a"
 - System will still display "n/a" if there is no interconnect being monitored
 - Added a page where the user can add handwritten/typed notes to the end of a NERC report
 - Added report version
- Engineers can now remotely disable/enable ground fault checking without being physically on-site via the web UI.
- Unit interconnections can now be updated post-install.
- Update page is now navigable from the actions page.
- Non-topographical information (such as the battery name) can be edited post install.
- Minor typographical improvements made.

Fixes

- Fixed a bug that would sometimes cause discharge events to be incorrectly split into multiple events after around 7 minutes.
- Improved the resilience of the ambient temperature hot-swapping functionality that could prevent ambient temperature readings from being taken.
- Fixed a bug with 6V nominal blocs where the resistances around out by a factor of 10.
- Fixed a bug where the NERC csv is always displayed as being Celsius.

1.3.8

Released: December 6, 2021

Features

- Made improvements to the Vigilant Modbus system:
 - Added some new experimental mapping points:
 - (binary) ground fault
 - (binary) self reported modbus error
 - (binary) sensor electrolyte level alarms
 - (register) end up of successful update timestamp (2x registers)
 - Modbus should no longer block clients while updating the registers.
 - Modbus should be better at running when the DB is inoperable (as long as it was activated beforehand)

Fixes

- Multiple string systems should now correctly calculate their battery voltage alarm levels.
- Fixed the following issues with the Modbus module:
 - ambient temperature would load the oldest data instead of the newest data.
 - unit ripple is now functioning correctly.

- Under certain circumstances, the default sorting for additional (non-unit) sensors on the battery page would be incorrect.
- When no cable or intertier interconnect resistances were configured for a system, the web & docx NERC reports would display an empty section. This section is now omitted.
- Under certain circumstances, a ground fault would not be detected.

1.3.7

Released: August 11, 2021

Features

- When setting the Monitor time from the web interface, it will refresh the displayed time according to the Monitor's system clock every second.
- Automatic strap resistance calibration can now be managed from the web interface.
 - As a result, the "old" experimental strap resistance offset page has been removed.
- Various changes to NERC reports:
 - Added a new summary table that provides the battery voltage, ground fault state and battery current.
 - Added a connection data table that provides the intertier and cable interconnection resistances.
 - Modified the old "Data" table to be "Battery Data" and removed the intertier and cable interconnections
 - Added the capability to download a csv version of the NERC report data
 - Report generated section now shows time as well as date
 - Changed some report headings to be more in line with EE preferences
- Various changes to the discharge system:
 - Some summary information is provided at the top of the page (discharge start, discharge end & duration)
 - The summary page now provides a link to the current discharge's page (if under discharge)
 - The Vigilant now records data as it reads it, no longer averaging every 5 readings together when in slope acquisition mode
 - Discharges are now listed from newest to oldest, rather than the converse.
 - If a current step was encountered during discharge, this was averaged into a 15 minute average if it occurred outside of slope acquisition mode. The system will now attempt to reduce the data aggregation around a current step change event
 - The system will enter slope acquisition mode when an end to the discharge event is detected
 - Data should appear much more quickly in the web interface
 - The page should load more quickly
 - When a discharge is underway:
 - A clickable link is provided in the title bar
 - The link will slowly pulse to attract the user's attention

- Discharge title should now use the admin timezone for storing the date/time information for the discharge
- More ways to pull out debug information from the web interface without needing a support engineer to remote in.
 - Be able to query the web UI for the monitor serial number.
- The Monitor will enable/disable help mode when starting/finishing an update to reduce the chance of total lock-out.
- The Monitor will be less zealous about blocking further update attempts after a failed update. The Monitor is now better at rolling back failed updates automatically without intervention.
- Made a change to the web interface to provide a more consistent method of displaying feedback that will be used in future updates.
- As per customer request, the NERC report no longer shows a "pass" state if there are no ELM configured for the system. It will display "N/A" instead, in both the web view and the docx report.
- The subnet mask can now be set from the web interface via CIDR notation.
- Data export now includes the battery current.
- Ambient temperature data is also available in its own data export file.
- Battery data tables on the web UI can now be filtered & sorted.
- Any data collected during a system reboot will no longer be discarded.
- Numerous minor page speed ups.
- Future software updates should complete more quickly.
- Users can now adjust the discharge activation thresholds.
- User can adjust a sensor's string post-install.
- The web UI provides better feedback when it cannot perform an on-demand resistance request.
- Unexpected restarts are now cleared with a system reset.

Fixes

- Monitor should now properly read the time from the real-time clock when it cannot access NTP servers rather than falling back to the rolling clock.
- Updating the Monitor time from the web interface should be timezone agnostic.
 - If the clock is set backwards, the web interface will notify the user that they may need to press a button to fix the system schedule.
- The top bar on the web interface will no longer clip (on the right hand side of the screen) with certain screen sizes.
- Data in the Modbus server will now be updated in a more timely manner.
- Fixed an issue where the Battery Alarm LED was used instead of the ELM level and ELM temperature LEDs.
- Resolved a number of issues with the export feature:
 - Strap resistance should properly be output in all cases

- When the Vigilant database reached a certain size, the web interface would time out before the system could start sending the data. We have hopefully reduced the likelihood of this happening for the meantime (still being tested)
- Fixed an issue with the unit voltage snapshot screen where it would sometimes miscalculate the y-axis scale and would set the upper limit to around 70V.
- Various NERC report fixes:
 - The correct state of the ELM electrolyte alarms is displayed.
 - If the software version was missing, the user was prevented from downloading the NERC report.
 - Resolved a rounding issue for bloc voltages in the battery data table
 - Resolved an issue when displaying the minimum strap resistance
- When the system was in discharge and a low voltage discharge alarm was activated - if it was not deactivated before the end of the discharge event, it would be possible for the alarm to persist until the next discharge event.
- Under certain conditions, a discharge event could defer pulse tests to a long time in the future. The Vigilant will now wait at least 24 hours until it performs another pulse reading.
- Prevent the user from adjusting the time during a discharge - will introduce an issue if the schedules are "sent back in time".
- Under certain circumstances, changing the bloc resistance too many times on the web UI would result in an internal server error.
- Fixed a typo in the battery information screen - "A/h" changed to "Ah" for nominal bloc capacity.
- Fixed an issue where monitors with a certain version of deployment code would not register unexpected restarts correctly.
- Various stability fixes for web interface updater.