

# Vertiv™ Albér™ Battery Xplorer Enterprise (BXE) Software

## Release Notes (VERSION 4.13.5)

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### 1. Updates for This Release (Version 4.13.5)

#### Enhancements

- Restored BDSU-50 individual thresholds setup
- Enhanced functionality so that discharge reports now scale and start time/end time fields are now working
- Enhanced HPL monitoring so it is now backward compatible with older HPL firmware versions
- Enhanced functionality so that BDSU-50 intercell and intertier baseline values are now shown correctly
- Improved Samsung driver to poll shelf 15 measurements properly

## 2. Version 4.13.2 Update Information

### New Features

This release added support for the latest HPL firmware (version 1.0.8.1) with BXE.

### Enhancements

- Improved the BDSU-50 resistance snapshots capturing technique
- Adjusted the string average resistance trend line label to now show “string average”
- Resolved the duplicate cell voltage snapshots issue with UXIME devices
- Changed functionality so the BXE admin account cannot be deleted or deactivated from the server user interface

### Known Issues

The following known issues are firmware defects and write services from BXE are impacted.

- Write commands to certain BDSU-50 units are failing. The workaround at this time is to use the BX configurator and USB to configure the unit.
- Changing thresholds on the UXIME devices over Modbus is blocked. The workaround at this time is to use the UXIME configurator tool to connect to the unit (either via Ethernet or a USB connection) to change the thresholds.

## 3. Version 4.12.3 Update Information

### New Features

- Added support for UXIME history auto import through the UXIME driver
- Added the ability to configure the BXE Server View page to show all strings from different BXE servers on a single page
- Added an option to show the resistance bar graphs from zero

### Enhancements

- Enhanced the UXIME/UXTM resistance test historical data capture
- Added the average string resistance trend on the String View page Resistance tab
- Optimized Samsung Liion alarm processing
- Resolved issues with importing BMDM SQL historical data

## 4. Version 4.11.0 Update Information

### New Features

- Added alarm latch function support for Lithium ion batteries
- Added option to select resistance bar graphs to show zero on y-axis
- Added a thermal runaway alarm section to the string alarms page for BDSU systems
- Added additional display information for BDSU-50 devices in the BXE software:
  - Alarm information and settings now display
  - Resistance test and historical data collection schedules now display

### Enhancements

- Improved alarm processing for Samsung devices
- Added Executive overview to the scheduled reports
- Improved other functionality:

- UXIME resistance test historical snapshots are now captured (no longer missing)
- DIM screen no longer freezes during long imports for BDSU-50

## 5. Version 4.10.1 Update Information

### New Features

- Added support for Samsung 24 strings (Chloride UPS)
- Added option to choose ELS level alarms notification email delivery when 10% of the cells in the system are in alarm
- BXE now offers on-demand snapshots from string view page

### Enhancements

- Improved Samsung lithium ion driver performance
- Improved BDSU driver nightly snapshot of historical data
- User can now use BXE application even with database incompatibility (it will be displayed as a warning)
- Improved WAM to better find web.config on any drive

### Known Issues

- When installing or upgrading the BXE software, the BX Enterprise Watchdog may not install properly. The workaround at this time is to manually install this service. See the BXE FAQ technical note for more information.

## 6. Version 4.9.7 Update Information

### New Features

- When installing the BXE software, the SQL 2014 Express edition is the new default database version.
- The BXE software now updates all install files.

### Known Issues

- When installing or upgrading the BXE software, the BX Enterprise Watchdog may not install properly. The workaround at this time is to manually install this service. See the BXE FAQ technical note for more information.

## 7. Version 4.9.6 Update Information

### New Features

- Samsung 954A battery support added
- ELS2 reports are now supported when integrated with UXIME
- Charger cable and ground fault readings added to string summary for UXIME/UXTM

### Enhancements

- Executive summary report now shows the system status, along with readings and thresholds
- DIM import now supports 1X24X2, 1X10X12, 1X20X6 UXIME configurations
- Addressed the missing history records issue with UXIME/UXTM devices
- Saved report books in BXE can now be scheduled to run at defined frequency
- DIM delete functionality restored
- Changes to location, customer, address, battery and string names saved directly to BXE DB
- Samsung discharge data now collected at two second intervals

- Resistance test time trigger added for UXIME/UXTM devices
- Resistance test can now be scheduled for day of the week and day of the month for UXTM devices

## 8. Version 4.8 Update Information

### New Features

- Vertiv™ HPL battery support added:
  - Cell and string measurements
  - System status
  - String status
  - Hardware status
  - String and cell alarms
  - Discharge capture
- DIM import now supports Vertiv™ HPL database import

### Enhancements

- Trend graphs (x-axis scale changed from number of days to actual month and date)
- Imported data will be available for setting individual thresholds on the Site manager page
- Individual thresholds bar graphs will be same as String View page
- Resistance threshold setting works for 256 cell system
- Global date select for selected report elements is now supported
- Intelligence to detect any threshold changes from hardware for BDS type of devices, which is presented to the user to accept or reject
- Scheduled reports will now be delivered via email with an attachment containing the report

## 9. Version 4.7 Update Information

### New Features

- Alarm support added for Samsung Liion batteries in the BXE software
- DIM now creates default thresholds for Samsung Lithium devices
- Service user can now tag ID and site ID for Samsung Lithium devices
- BXE software database can now be restored from web page

### Enhancements

- Service user can now view tag ID and site ID for all applicable devices
- Reports now have time stamp, along with date created
- User can now configure and generate scheduled reports
- Scaling improvements were made on the Y-axis on the Intercell resistance graphs to display the thresholds correctly
- Individual location address change is now supported
- WAM connection string improvements were made
- String View Details page now optimized to handle large number of alarms
- All the fields that don't apply for Samsung devices are now grayed out on the Site Manager - Cell and String configuration screens

## 10. Version 4.6 Update Information

### New Features

- ELSi2 monitoring is now supported when integrated with UXIME
  - Electrolyte level indication added
  - Cell temperature readings added
  - Alarm notifications added
- ELSi2 controller monitoring state is now available on the String View page
- Hardware manager now provides all the hardware information related to the ELSi2 controller and sensors along with bootloader and firmware versions
- 1-2 string licensing support added
- Last resistance test time now displays in system status screen
- Report scheduler added to tools menu
- Rebranded BXE to Vertiv style

### Enhancements

- Performance improvements made
- Hardware manager is now added to the Advanced Users menu
- Service user now has access to Advanced Users menu
- MSM now shows current monitoring state
- BDS 40 resistance data retrieval improvements made
- Last Resistance Time and Last Discharge Time is now stored in Strings table
- Samsung discharge reports improvements made
- Intertier baseline threshold setup enhancements made
- DIM and WAM connection menu improvements made

## 11. Version 4.5 Update Information

### New Features

- Extended support added for a large number of Samsung battery racks
- With MSM, users can change the port number in addition to the IP address
- String View now shows last resistance date/time from the historical database
- New Vertiv favicon added to the BXE software
- New tabs open when accessing Report and Site Manager buttons on the String View pages
- New Reports button on the String View page pre-configures the Reports options
- Baseline cell data is now shown on the String Configuration page
- New Hardware Manager page is available in the Administration Access tab

### Enhancements

- Status and Report page now supports international date/time format
- Added support for status updates and information related to the individual thresholds setting

- MSM updates added to notify users to optimize database
- In Site Manager, added battery and location setting enhancements
- Battery Diagnostic System Universal (BDSU) driver updated to fix missing resistance and missing Intertier tab
- IIS installer fixes added for Local System and Windows Authentication only
- Cell temperature readings on the graphs for the Samsung device are now displayed without spaces
- DIM history imports enhanced to detect pre-existing history
- Session timeout value is now stored in the database rather than in web config file
- Cell individual threshold baseline data is now retrieved from the BXE database even if there are pending changes in the Transaction Manager
- String View Details tab now shows scroll bar when there are more than two graphs
- Battery Diagnostic System (BDS) driver enhancements:
  - Location name change function is revised to no longer occasionally get extraneous letters
  - Changing the installation date is now supported
  - Implemented commands to set individual and intertier threshold of an entire string, and then mark pass or fail on polling
- Discharge temperature bars will now be displayed in red if temperature readings are above the high cell temperature threshold and displayed in green if the readings are below the threshold

## 12. Version 4.4 Update Information

### New Features

- Samsung Liion and Liion, LLC:
  - String Detail and Trend SOH added to reports
  - State of Charge Detail and Trend reports added for lithium strings
  - Discharge Low State of Charge and Discharge High Cell Temperature added to Site Manager to view-only scaling on the graph
  - Site Manager - String Alarms has fields to set alarms/thresholds for Low State of Charge and Low State of Health
- String View page:
  - Discharge details tab - confirmation added when deleting discharges

### Enhancements

- Web:
  - String View – Intertier charts display x-axis numbers only where there are values
  - Resistance Test Manager String View has 75 and 100 added to the strings per page select box
  - Discharge tab - Discharge graph is now twice the height, like the graphs on the other tabs
- BDS/MPM (battery monitoring systems):
  - Introduced Periodic Memory Clear Command to clear the memory full condition
  - BDS/MPM driver now detects when system loses commissioning and reports via string status
  - String Name now allows 20 characters
  - BDS driver updates intertier and inter-cell reading date times with value from Modbus
  - Historical log period and resistance test period command enhancements added to allow a device to store data in persistent storage

- BDSU 50:
  - Thermal runaway for (cell to cell) alarm is now available
  - Nightly snapshots enhanced
- Administration Access:
  - Permission Manager user view now shows all users
  - In the System Manager, session timeout issues are resolved
  - Within User Management, any Active Directory user search error messages are now displayed in a pop-up window
- Site Manager:
  - Cell Alarms - Individual Thresholds page for High Intertier Resistance only shows intertier cells
  - Critical and Maintenance checkboxes toggle on the String and Cell Alarm Setup page
- Reports:
  - String Trend Reports improved
  - Discharge Report start time at top-left of summary now displays the offset from the beginning of the discharge, instead of 00:00
  - Cell Voltage Details Report data is now in sync with historic data

## 13. Version 4.3.14 Update Information

### New Features

Samsung Lithium Ion discharge support:

- System Status and Navigation:
  - User will be able to see all battery systems with string status showing discharge/charging status with links to navigate to battery (system) or string (rack) level
- String View Discharge details:
  - Discharge Summary with:
    - Start date
    - Duration
    - State of Charge (SOC) Lowest
    - Overall Voltage (OV) Lowest
    - String Current (SI) Highest
    - Cell Voltage (CV) Lowest
    - Cell Temperature (CT) Highest
- Discharge playback with trending of graphs for Cell Voltage and Cell Temperature
- String Summary with trending on the following fields:
  - Overall Voltage
  - Current
  - SOC
- String View Trending Real Time View:
  - Cell Voltage and Cell Temperature bar graphs with trending

## Enhancements

- BDS monitor improvements for Memory and Performance enhancements
- Universal Xplorer Cell Temperature (UXCT) support for BDSU 50/ BDSUi-50:
  - Cell Temperature
  - UXCT status
- “Historical data view” improved for Active Directory users
- DIM enhancements added for string removal from a device
- MSM enhancements added to shut down BXE processes

## 14. Version 4.2.0 Update Information

### New Features

Lithium ion battery monitoring support:

- System Navigation/Status:
  - User will be able to see all battery systems at top level with links to navigate to battery (system) or string (rack) level
- Battery View:
  - System Status:
    - Battery Status
    - Monitor Status
    - Hardware Status
  - Battery Summary:
    - String Overall Voltage
    - String Current (actual)
    - Cell Voltage Average
    - Cell Temperature Average
    - SOC
    - SOH
  - String Summary:
    - Overall voltage
    - Current (Actual)
    - Current (Average)
    - SOC
    - SOH
    - Cell Summary(Average, lowest and highest)
  - Cell Voltages
  - Cell Temperatures
- String View:
  - String Summary:
    - Overall voltage
    - Current (Actual)



- Current (Average)
- SOC
- SOH
- Cell Summary (Average, lowest and highest)
- Cell Voltages
- Cell Voltage Balancing
- Cell Temperatures
- System Parameter Trends
- String and Cell Level Trends:
  - SOH
  - SOC
  - Cell Voltage
  - Cell Temperature

## Enhancements

- Resistance warning alarm added for BDS/MPM
- BXE Password Reset option added for Admin account
- Added Database Backup Now button and Refresh button to see the new backup files
- Additional configuration parameters added for Active Directory
- Additional details were added to the error message on the Email Server Configuration page
- Battery View High/Low/Avg corrected
- Last reading value now displays correctly on the String View
- BDS/MPM polling revised to reduce the communication overhead

## 15. Version 4.1.5 Update Information

### New Features

- Administration-Permission Manager:
  - Admin can now configure user permissions/ access rights
  - Admin can now assign the batteries/strings to the users
  - Users will now have access only to the assigned systems
  - Regular users will now only have access to battery systems, battery alarms and portable devices
  - Advanced users now have access to Site Manager in addition to the regular user access
- Site Manager-String Configuration:
  - Delete History now available for cell or for strings
  - Base line functionality is introduced
  - Units to the corresponding measurement fields were added
- Site Manager- Cell Alarms:
  - Baseline resistance values are now configurable on the Individual Thresholds page at the cell level and string level

- DIM / MSM:
  - Added ability to import memos, location and baselines
  - Device IP address can now be changed from MSM

## Enhancements

- Resistance:
  - BXE BDS/MPM Driver Resistance Snapshot now uses time of last resistance test reported from the device
  - Multiple snapshots of resistance for MPM systems are resolved
  - BDS/MPM intertier resistance is now stored in historical data
  - Location information added to the Resistance Test Manager
- Site Management:
  - Location information being sent directly to the database rather than to the device for MPM systems
  - Only single battery/string selection available for Site Manager parameters
- Performance/Display:
  - Access to Battery Historical View has been restored
  - Left side String Readings on String View Details tabs now change when a bar is clicked in the chart
  - Intertier trending on string live view resolved
  - BDSU driver nightly snapshots timer enhanced to prevent multiple snapshots
  - String name is now truncated to show seven characters in Battery View
  - String summary now has a date range selection
- Report:
  - Report now shows a gap in case of missing cells in the String View detail/graph
  - Scaling on trend graphs is enhanced to better display measurement data
- DIM imports:
  - Installation date, manufacturer, model and capacity information is retrieved from imported database
  - Location data information is retrieved from imported database
  - Memos information is retrieved from imported database
- Alarm:
  - Alarm history data is available for the next page selection
  - Alarm count on the system status page shows correctly for all MPM strings

## 16. Version 4.0.4 Update Information

### New Features

- Memos for string and cells now available on String View page and Site Manager
- Historical event capture added for BDS, MPM, UXTM and the Alber Universal Xplorer Industrial Monitor (UXIM)
- Site Manager is added with limited device update capabilities
- Graphical analysis added for alarms and reports

- Memos for string and cells added to reports

## Enhancements

- Changing the cell alarms and string alarms on the first string will now be reflected on the other strings for MPMs (with multiple strings)
- String Capacity is now shown on the String View Page
- Memos navigation and count has been enabled
- Author name is pre-populated on memos and is also editable
- Individual alarms setup is enabled for MPM systems on the Site Manager String Alarms screen
- Site Manager Log and Test Schedules are now supported for the Alber Universal Xplorer Telcom Monitor (UXTM), UXTMs, UXIM, UXIMs, UXBM/5, UXBM/50, UXDM/62, BDS-40, BDSi, BDS-256 and MPM-100
- Auto scaling of Y-axis values added for String View Trending Graphs
- Event Times column header on the Alarm details page now has date format "(MM/DD/YYYY)"
- BXE DB and BDS driver enhancements added for enable/disable commands for historical log and resistance test scheduling
- DIM import enhanced for MPM system with multiple string data
- Duplicate string cell voltages on battery view issue resolved
- WAM configurations file support added for installation on non-standard default folder
- Reports X-axis now displayed correctly on more than ten cells
- Removed string and cell ID information from Alarms Details page
- Active Directory server setting now available on System Manager page
- Active Directory groups now displayed on User Management page
- BDS Trending graphs corrected for zero offset
- Administration and advanced access checked against current user privileges
- Site Manager now handles special characters to prevent site summary report issue
- Arrows added on String Historical View to step through charts
- String View historical pull-down menu now displays the correct reading
- System Status page now allows selection of location pull-down independent of customer selection
- Actual installation date now shown in String View
- Historical bar chart colors are applied according to current threshold values
- Ambient temperature will now display N/A when measurement not available
- Session timeout is now user-configurable
- Display value on system status page now has an "all" option
- Sorting and column resizing now available on System Status page
- Optimized loading of String View historical charts
- DIM deletion of a single device now allowed in a multiple device configuration
- Discharge playback enhanced to view relative to start point and duration
- Resistance test command operation restored

- Detail Overall Voltage Report X-axis now displays correct string number
- Standardized on US format regardless of region set on local operating system
- Resistance test chart now displays scaling enhancements
- DIM fixes for deleting all strings in the system added
- Alarm active bad dates will now be displayed as 1/1/2016
- String Trend Reports now display all graphs per report
- Watermark and date range added for historical charts

## 17. Version 3.2 Update Information

### Enhancements

- DIM imports for UXTMs now display actual string names
- Missing help files added for discharge alarm links in alarm details page
- Spinner added when importing CRT files
- Displaying of large cell count graphs enhanced to avoid overlays of other graphs
- Battery model data imported when doing a CRT import
- Temperature graph can now display in C° or F° on String View after CRT import
- User deleted from contact list when user is deleted from BXE
- Contact user list sorted alphabetically
- BDS driver stores individual thresholds correctly to avoid system to incorrectly stay offline
- Battery view temperature now displays in Celsius
- Conversion of C/F only calculated on temperature tabs to avoid wrong values on all other tabs
- Swapping of hardware device enhancement added to the DIM
- Reset and acknowledge alarm feature now successfully sends commands
- DIM now imports string history data that is only associated with existing strings
- User can now selectively import history for each string configuration imported
- Duplicate MPM string names supported
- MPM history import enhanced when referencing strings that no longer exist
- Active Directory user email can now be modified after user creation
- State field increased to 50 characters on customer address form
- BDSU 50 low cell voltage alarms can now be reset and acknowledged
- String deletion enhanced in the DIM to remove commands previously sent
- Notifications are sent when string status changes from normal to critical or maintenance alarm
- Cell trend and power graphs added to Discharge Reports
- Report page loading performance improved
- String View and Battery View loading performance improved

## 18. Version 3.01 Update Information

### Enhancements

- Added:
  - Active Directory users and groups authentication
  - HTTPS over SSL support
  - BDS discharge data capture
  - From field and ability to clear password on the Email Setup web page
  - Temperature unit selected reflected on all web pages
- Improved:
  - Portable devices import
  - Discharge details web page display
  - String View page refresh (prevents resetting to top of page, string selector)
  - Graphs for trending of data scaling and date
  - Online restored email notifications
  - MSM device signature and HAL device instance assignment
  - UXIM temperature display corrected when not present
- BDS resistance test data now stored in historical database
- Normal operation alarms emails now sent when condition is cleared
- Active and Normalization notification email delay removed
- DIM import of Battery Monitor Data Manager (BMDM) SQL data no longer requires an INI file
- Page size selection now remembered for current web session

## 19. Version 3.00 Update Information

### Enhancements

- Historical View now only available on String View
- FIPS encryption support integration added
- Now automatically update UXTM/UXIM time on driver start, driver connect and every 24 hours
- DIM Historical alarm import enhanced
- Notifications now show correct temperature unit selected on web page
- Custom UPS link option now available on String and Battery Views

## 20. Version 2.05 (Controlled Release) Update Information

### Enhancements

- Support for SMTP server authentication added
- Notification temperature now corresponds to what is set on web page
- Historical data now displayed correctly on Historical View based on date selection

- Cell temperature option added to Discharge Reports
- Offline watermark is now shown when a device is offline
- Individual resistance thresholds now shown correctly in String View summary
- Discharge cell temperature data displayed properly in Discharge Playback View
- Historical data button removed from Battery View

## 21. Version 2.04 (Controlled Release) Update Information

### Enhancements

- Discharge now updates time on status screen for multiple strings for UXTM/UXIM
- Alarm auto-disabled now shown on UXTM/UXIM status screen
- Cell temperature displayed on Discharge Reports
- Email server settings now stored properly on the database using the web site, preventing a crash in Configuration Manager
- MSM is now properly saving the Historical DB connection string
- Cell temperature units and values for discharge summary playback and report are now shown properly

## 22. Version 2.03 (Controlled Release) Update Information

### Enhancements

- Resistance data is now stored in the historical database for Modbus drivers
- Improved WAM/DIM connection to database when not default password and username settings
- Added machine names under help/about for all modules
- No longer stays in "historical mode" after importing CRT data if device is currently being monitored
- Discharge summary now shows discharges greater than 25 minutes
- Added scroll bar for historical date selection
- Fixed issue where importing CRT data to an existing BDS monitored system would cause a crash
- Notification rules checkboxes now save correctly instead of clearing after save
- No longer duplicating the same date/times on discharge details for UXTM/UXIM
- Enhanced discharge data collection for short discharges that last less than one minute
- Added notifications for system online and device online
- Nightly scheduled resistance data snapshots for UXTM/UXIM and BDSU are now being captured
- Added Home link on Discharge Reports web page
- Alarm times on BDS and BDSU systems are shown on local time now (it was originally off by six hours)
- Added Help/About link to login screen
- Reduced alarm notifications of alarms that are changing state frequently
- Overall voltage and string current are displayed in the Discharge Report summary
- "Report created by" option on report now allows user to enter a custom name

- Time, in addition to date, is now displayed on resistance test pull-down list on Resistance tab
- Resistance test snapshot capture improved to prevent UXTM/UXIM driver crashes
- Discharge playback no longer loops at the end of the discharge playback
- Discharge details are sorted by date/time and discharge ID has been removed
- Multiple drivers running on different computers will not cause multiple instances in Task Manager
- Temperature units (Celsius or Fahrenheit) selection option now provided under tools menu
- String analysis option now available for reports
- Discharge Reports format and performance enhanced
- Foreign language Windows systems installation support added

## 23. Version 2.02 Update Information

### Enhancements

- Improved resistance test button state information and feedback
- Fixed refresh issue when switching between batteries
- Added support for Lithium Ion batteries
- Added capability to generate Discharge Reports
- Enhanced Executive Reports by adding status graphics
- Discharges are now cleared from a device after successful download of discharge data from UXTM/UXIM
- UXTM/UXIM resistance test data now captured to historical database to support trending
- Added enhancements to discharge playback for cell voltages on BDSU

## 24. Version 2.01 Update Information

### Enhancements

- Added ability to create and customize reports (currently supporting Executive Reports)
- All temperatures now display in Fahrenheit
- Improved on notification overall functionality and quality
- Discharge data collection support added for UXTM/UXIM devices
- Database connection enhanced
- Fixed issued of not displaying all historical data
- Improved support security on newer version of Windows
- Corrected display of string current during discharges
- Enhanced logging of the monitor engine
- Added ability to reset user password
- Correction of measurement values on discharge summary

## 25. Version 2.00 Update Information

### New Features

- Added discharge capture with playback and trending capabilities
- Added cell parameter trending

### Enhancements

- Fixes and improvements to notification messages such as improved format and content, added local server time of alarm and improved status information (latch, acknowledged and so on)
- Driver enhancements added to support discharge and resistance test data collection
- Support added for grouping BDSU devices into multiple drivers (new Velocity client support for multiple clients), which allows faster system recovery and less customer impact
- BDSU driver enhancements to recover from interrupted database communication (for instance, Ethernet connection loss)
- Capability to support installation/database migration to a new server
- Improved database connectivity (pooling connections and so on)
- Overall page response and performance improvements

## 26. Version 1.02 Update Information

### Enhancements

- Resistance test improvements for BDSU [046]
- Cellcorder import improvements [080]
- Corrected alarm event times to show local time [122]
- Battery View enhancements [253]
- Modbus drivers communication improvements [274]
- Historical View updates [284] Fixed issue with multiple notification emails [287]
- Added support for Windows Authentication and SQL “sa” account for SQL connections [290]
- 30-day trial activated by default on install [292]
- Fixed problem when importing certain BMDM SQL databases [334]
- Various other internal fixes