

## BMDM SQL Software Release Notes 6.29

[ ] = internal reference number

### Version 6.29

- [2418] Improved the calculation for marking cells as out of range and enhanced the Intercell graph color code to display the out of range cells more accurately.

### Version 6.28

- [2416] Added support for installation of USB drivers on Windows Vista and Windows 7.
- [2415] The last float value is recorded on the MPM discharge report.

### Version 6.27

- [2405] Added new field for Test Current Shunt on ASCOM.
- [2406] Added Reports and Upgrade folder upon installation.
- [2407] Added support for displaying DCM firmware versions later than 4.00.
- [2412] Standardized characters on the pre-power checklist.
- [2413] Upgraded modem initialization for broader modem support.

### Version 6.26

- [2395] Enhanced login screen for better performance.
- [2382] Names of databases now appear on the dropdown menu when using Windows authentication.
- [2381] Improved backup and restore for SQL databases.
- [2374] ASCOMP report now shows float current for MPMs.
- [2373] Sorting on the Alarm name displays more accurately in the alarm window.
- [2370] The alarm detail now includes the intertier number.
- [2369] Multiple strings have been included in the reporting function, for MPM.
- [2367] Set default printer within the registry to fix "cannot draw canvas" error message when printer was not available.
- [1454] Improved MPM intertier alarm creation.

### Version 6.25

- [2272] On check settings general tab, frequency now displays N/A.
- [2286] Added protection to stop endless resistance testing if wrong values are entered in battery setup.
- [2288] Added registry permissions for non-admin users.
- [2291] Added check for default printer on startup.
- [2294] Added more digits for float calibration.
- [2296] Improved uploading and updating calibration constants.
- [2308] Added preventive maintenance report.
- [2313] Modem disconnection opens battery setup progress window so modem connection and battery setup can be recommenced.
- [2314] Enhanced timing in calibration to accommodate larger systems.
- [2325] Added date checking when saving base line cell voltage in ASCOMP.
- [2326] BMDM will change modem settings to be compatible if not set by default.
- [2336] Added 1X24X12 configuration.
- [2343] Added Check List to PM report.
- [2346] Added new feature to auto send emails with backup database.
- [2353] Improved new database creation to support PM reports.
- [2356] Added lower limit of 32 degrees to temperature thresholds.
- [2357] Calibration button on ASCOMP is always enabled.

- [2344] Improved timing when exiting from calibration.
- [2337] Added choices to check for load test mode or exit ASCOMP.
- [2357] Enabled calibration button when ADD value is within range.
- [2361] Added Multimeter, IR Temp Source, and Martel mV Source fields to ASCOMP.
- [2363] Added new "local" option on SQL Backup.
- [2296] Improved uploading and updating calibration constants.\*

### Version 6.24

- [2246] Bar graph color will show proper threshold colors when stepping through historical datasets.
- [2241] In graph mode, when switching between multiple strings that have a different number of total cells, e.g. from 40 to 80 to 40, graph is now refreshed accordingly.
- [2240] Improved graph and report on screen previewing by using a temporary file to store the data. The software will not display the error message, "Cannot open clipboard."
- [2239] BMDM now applies violation threshold color when value is equal to the set value.
- [2238] Enabled Load button for diagnostics in MPMs.
- [2237] Improved graph scaling display when a resistance cell is too large and supersedes the graph on top by using the color maroon/dark red to indicate higher value.
- [2236] Alber's new logo added to the alarm reporting printout.
- [2234] Added display to show what dataset is used to apply the individual thresholds.
- [2233] Added display in ASCOMP to show the calculated current based on the shunt value.
- [2227] Added capability under diagnostics to detect if internal load bank is used on BDS series monitors.
- [2226] Improved Cell Resistance graph by using the average of the resistance values.
- [2222] Commissioning Reports can now be sent via email.
- [2218] Added new black color to bars to reflect when cells are negative.
- [2216] Individual resistance threshold settings are now permanently saved after clicking OK button.
- [2215] Improved individual resistance alarm thresholds to accommodate more than 100 cells.
- [2214] Added support for 16V batteries on Battery Setup.
- [2212] When default Battery Setup values are set in Celsius, then the values will reflect accordingly.
- [2211] Added Battery Setup, Diagnostics, and Calibration logging to the commissioning log file.
- [2210] Added more information about the battery to the commissioning report; Mfg. name, model number, install date, battery capacity, and avg Cell resistance.
- [2207] Added support for Windows Authentication logins.
- [2202] Added double checking when sending calibration factors.
- [2199] Perfected the XML code for the BMDM Java Applet; no typos.
- [2198] Trend screen now remembers previous trending settings.
- [2181] Alarm threshold values for individual resistance alarms reflect actual setting value.
- [2180] Removed global threshold line when using individual resistance thresholds since each has their own threshold line.
- [2179] Added ability to detect if DCM is running from the flash or prom.
- [2171] Improved the scaling on the Intercell resistance graph to a 20 ohms minimum.
- [2040] Added more explanatory text to the commissioning assistance pre-power check list.

### Version 6.23

#### Bug Fixes

- | #      | Information   |
|--------|---|
| [2170] | Diagnostics self test will display "n/a" for code space if controller 3.26 and DCM 3.27 or older are present. |

- [2169] Step 2 under float current calibration text change in ASCOMP.
- [2164] BMDM now parses the java applet XML file for special characters.
- [2161] Changed default values for MPM discharge storage deviation under battery setup.
- [2160] Added average resistance test to battery setup.
- [2159] Improved diagnostics exit procedure.
- [2158] Extended intertier average test check box is now disabled under battery setup when intercells are present.
- [2157] Controller is sent all intercell settings.
- [2155] Total cell count value has been included in the ASCOM acceptance report.
- [2151] Saving changes in the string system information right after opening and viewing the ASCOM report now commits these changes to the database immediately.
- [2150] Cell memo notes can now be fully deleted.
- [2148] The ASCOM report now reflects if the CT polarity check is skipped and will display the word, "skipped."
- [2147] Increased "Save Baseline and Thresholds" window size within ASCOMP to accommodate the save button.
- [2146] ASCOM base data cell resistance window now shows the correct resistance average value.
- [2145] The ASCOM report now indicates the location where the report is saved.
- [2144] ASCOM report shows individual intertier and cell resistance values on page 5.
- [2143] User is now able to see the entire Cell Resistance Thresholds values in ASCOMP under check settings.
- [2142] Individual Resistance Settings can be set and the cell number can be viewed fully when setting a cell to a different value.
- [2137] Disabled Remote the reporting option until Resistance Base data is sent in ASCOM.
- [2136] Added a black bar to indicate where intertiers are assigned.
- [2126] Individual intertier values are set correctly under battery setup.
- [2057] SQL will run for 30 days only until registered.
- [2034] Improved diagnostics r-test in DCM to work when intercells are enabled.
- [1949] SQL connection timeout has been increased.

## Version 6.22

### Bug Fixes

- [2024] Intercell setting is kept after check setting upload.
- [2023] Trending cell resistance when individual resistance threshold enable will not cause access violation anymore.
- [2017] DCM Serial number now has ability to be changed.
- [2016] Added RTM serial number in commissioning report.
- [2003] Location now appears with string name for emailing capabilities.
- [2002] Added CT polarity check to load module dialog.
- [2001] BMDM will disable the day interval feature for controller versions lower than 3.16.
- [2000] Added intercell capability to the ASCOMP.
- [1999] When using the ASCOMP on databases that were created with software pre-ASCOMP, credit for the pre-power checks will be given.
- [1990] Changed text to "cells per string" field heading on system setup and battery setup.
- [1971] Added a print function to the historical events screen.
- [1970] Added location to string selection under historical events filter selection
- [1982] All database fields i.e. location, battery, and customer are correctly displayed with a new empty database.
- [1981] Fixed battery setup from ASCOMP when you send battery setup from thresholds.
- [1976] Added global alarm reset to main status screen.
- [1975] DCM firmware version on self test is now displayed with the dot to indicate release version.
- [1974] DCM firmware now upgrades without errors; 5.73.16 contained errors on upgrade.
- [1973] Default sort on the historical events now shows most recent events at the top of the list.
- [1972] BMDM no longer keeps polling for check settings after it has been closed.
- [1969] The user will not be able to exit the screen until done polling when resetting alarms.
- [1968] Added message notifying that there are no new resistance readings.
- [1967] Added ability to send zeros on calibration screen.
- [1960] Added new configuration 1X86X1 for MPM.
- [1959] Added ripple frequency to check settings screen.
- [1951] Added date picker for all dates.

## Version 6.21

### Bug Fixes

- [1942] High string current alarm now shows on alarm screens.
- [1911] OV on BDS-40 is always configured to be enabled now. Previously it was possible to disable it.

## Version 6.10

### Bug Fixes

- [1730] Fixed intermittent auto extraction problem. (SQL)
- [1896] When switching between the SQL and Access program version, the program now requires a restart. (SQL)
- [1864] When resistance readings are deleted, they no longer remain in the list.
- [1859] Added a date picker for all date entry fields.
- [1629] In Trend reports for V and R violations summary, the cell number is no longer off by +1.
- \*[1598] When changing temp units to Celsius, the unit no longer is indicated as (F) on the float alarm tabs and calibration screen.
- [1840] All history records can now be deleted. Included milliseconds to SQL time stamps so records can be deleted. (SQL)
- [1815] When in User mode, users are no longer duplicated on login.
- [1776] SMTP settings are now global for all users. Now, when a different user logs in, the SMTP settings will not have to be reentered for that user.

- [1770] Improved Restore and Browse functions. (SQL)
- [1765] When manually saving a history record, it would force a -50ma value for the float current. The float current now displays the correct value.
- [1742] After deleting history or resistance records, the screens showing the records are now refreshed to show the deleted items.
- [1727] Discharges that have been corrupted and do not show an end time will no longer lock up the PC. Limited the number of data points to 8000 points.
- [1723] MPM Check Settings with firmware 2.11 now works correctly.
- [1698] When an alarm occurs on the digital I/O's, the name programmed under Battery Setup shows up on the Current Alarm list.
- [1685] When Remote Reporting is disabled, Report Option now shows "N/A" in Check Settings dialog.
- [1620] If a DCM upgrade fails, the menu items Upgrade Firmware and Upgrade DCM Firmware are no longer disabled.
- [1616] When connected to the SQL database, "Delete All" in Alarm View no longer causes a general SQL error. (SQL)
- [1603] Users can now change their password without having Admin rights.
- [1578] Increased the length of the memo field in the .SQL scripts on installation. (SQL)
- [1592] Calibration status is checked when connecting to a string from another computer. This grays out calibration on the computer and limits calibration to one computer.
- [1502] When in User's mode, the Login screen is no longer hidden in the background. The login screen is now drawn after the Status screen.
- [1495] Program now checks to see if a temporary folder for database backup is present. If not, one is created.

#### **Enhancements**

- [1877] Under Diagnostics, the warning message for clearing memory now reads, "All recorded battery data that is stored in hardware memory, including History, Resistance, Discharge and Alarm data, will be erased."
- [1876] If Admin is selected under User Rights, the program automatically selects all items for access.
- [1875] On SQL Backup Setup screen, "disk" now reads "enable." (SQL)
- [1874] On the top of Trend screens that show the cell number, the title is "Cell # of "string name." Now displays "Cell # in string 'string name'."
- [1873] Added some details on Battery Setup when using a BDS-40.
- [1872] Changed title in Trend graph from "Discharge Current" to "String Current."
- [1870] Workstations can refresh the String Status screen without polling hardware. (SQL)
- [1855] Suppressed message "No workstation assigned" when running as a service.
- [1848] Added an "All Strings" selection for string selection for control outputs.
- [1820] Added a confirmation message when upgrading DCM or MPM firmware.
- [1669] Added temperature reading to discharge reports and playback.
- \*[1301] BMDM now displays a warning message when sending calibration if any assigned parameters has a cal constant of zero.
- [1790] Intercells are disabled on the Calibration screen when not present in the system.
- [1768] The user is now prompted to enter a password when upgrading firmware.
- [1762] BMDM is only allowed to run one instance at a time.
- [1731] Changed wording from "discharge current" to "string current" on the Location View screen.
- [1724] Added check boxes for the DCM selection for Overall Volts, Float Current, and Discharge Current under battery setup.
- [1712] Added the ability to include cell memos on detail reports.
- [1710] Added the database path to the title bar of the Status screen.
- [1707] All columns are displayed by default on the Status screen for new installs.

- [1701] Removed "Start at Cell#" and "Multiple String Setup" under System Setup and added "Start at String#".
- [1680] Auto send time is checked by default for new strings.
- [1664] Maximum value for intertier threshold is now 31999, not 32767.
- [1663] Graph text for Location View and all reports has clearer text on the vertical axis of the graph.
- [1650] Moved the default tab to the General tab when entering Battery Setup.
- [1644] Reduced the number of bad data / communication time outs when connecting to a string.
- [1638] When maximizing the Status or Location View windows, the window now covers the entire viewable portion of the screen. String status on the bottom of the screen is no longer clipped.
- [1619] When the message "String needs to be set up" appears, the Check Settings screen no longer pops up.
- [1618] For BDS-40 configurations, intercell selections under Battery Setup are no longer shown.
- [1612] Previously, if another computer made changes to setup the new settings would not be reflected on another computer. Settings are refreshed when entering System Setup, Battery Setup, and Calibration. (SQL)
- [1604] Login now shows the last user as the default login the next time someone logs in.
- [1602] When selecting the resistance tab and no new data is available from the hardware, "Open the last dataset from the database" is displayed instead of the "No new resistance data is available" message.
- [1601] For BDS-40 systems, the tabs under Battery Setup and Check Settings for digital inputs or control outputs are now hidden.
- [1600] When connected to a BDS-40 in the Calibration screen, the Overall Voltage and Intercell Connection are now disabled.
- [1573] On monitor connection type dialog under configuration station, text help fields are no longer editable.

### **Features**

- [1871] Added high discharge current event for alarms.
- [1853] Added 1X23X2, 2X23X2, 3X23X2 and 4X23X2 configurations.
- [1851] Digital Output added for MPM.
- [1850] Added high discharge current alarm threshold.
- [1743] Status color threshold is now adjustable.
- \*[1738] Data extraction is now time adjustable.
- [1812] Added 1x29x4v to MPM configurations.
- [1811] Added the ability to alternately view the Status screen by customer, location, battery, and string by pressing F3.
- [1804] Added a selection on the trend graph screens that activates a rolling average.
- [1802] Added the float current reading to the history record so it shows on the detail voltage report.
- [1761] Added restore ability on SQL databases. (SQL)
- [1737] Added the ability to set the resistance test and historical test to either an absolute date or an interval for both the MPM and BDS series monitors.
- [1738] Data extraction can now be set to a specific time of day rather than being fixed at midnight for the central PC or 10:00PM for a Local PC.
- [1704] Added a function under Memory diagnostics to clear configuration data. This is equivalent to cycling power while holding the Controller internal reset button.
  
- [1700] Added digital I/O alarm selection to reports.
- [1699] When defining names for the digital I/O's, they appear on the drop-down list for the Triggers selections for the Control outputs.
- [1670] Added a button to select the ripple frequency of the system.

- [1647] BMDM shows all SQL servers in drop-down list when creating a new connection. (SQL)
- [1614] Pressing F5 key when in String View toggles the color of the cells that have memos.
- [1605] Administrator can force user to change password on next login.
- [1599] A new date picker has been added for installation date.
- [1597] Placed a "Lock Scale" button on the Trend graphs so the scaling of the graph can be locked to a min/max value.
- [1574] Added the ability to back up SQL databases. (SQL)
- [1562] Implemented a new resistance trend alarm feature. A new input screen was added to battery setup / float alarms /cell resistance.