

Battery Analysis System BAS Release Notes 2.13.01

Battery Analysis Software (BAS) Version 2.13.01

- [2639] When opening CDF file with a bad read date, the system will no longer cause data not to be read and it will prompt you to input a valid date.
- [2619] Battery model number on reports has been moved one line down to accommodate all characters.
- [2618] Corrected report user defined general fields to display properly.
- [2587] Read date titles are now updated if the read date is changed on drop down field.
- [2586] Corrected the exporting of multistring data to display correct values and number of strings.
- [2585] Improved on printout of the excel spreadsheet export function.
- [2581] Added option to include battery information on the export function.
- [2580] Resistance values can have any values between them and the graph will be created without crashing with a "floating point division by zero" error message.
- [2571] Changed text from "BT" to "wireless transfer" when importing data from CRT.

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- [2515] The summary report data set detail graph now correctly shows the lowest voltage even if it is less than 0.5 volts.
- [2492] Enhanced the import feature by adding CDF with multiple CDF and ADF files support.
- [2533] BAS software now handles ADF files with more than 256 cells without crashing.
- [2525] Added sorting capability to configurator editor location names to sort by entered order or alphabetical order.
- [2490] Added checkbox under general graph titles menu to include location name, battery name, string name, model number, and install date.
- [2487] Editing the thresholds can now be changed just by clicking in the field without the need to remove the previous values.
- [2486] Added checkbox on reports setup to include footer with file name on all reports.
- [2485] Reworked reports to include titles and prefixes for battery names, string names, model numbers, install dates, and location names.
- [2189] Old ADF files that are opened with newer versions will convert the old comments to the General format and display a message confirming the change.
- [2192] Threshold analysis checkbox is disabled for Dataset detail comparison graph by default.
- [2491] Redesigned Read Dates under file properties to create new dates properly.

- [2482] The first page on a trend report is no longer blank.
- [2358] User defined data for read date is included on the bottom of the combined report.
- [2188] Rearranged user-defined filed information on the reports previewer to fit within the page.

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- [2196] Abbreviated graph text to avoid overlapping when using single graph mode.
- [2195] Cell trend reports displays text and graphs on different pages.
- [2178] Improved download timing from cellcorder using IR/BT when opting to include configuration.
- [2176] In multi-string battery reports, all the strings will be checked to be included by default for reports.
- [2175] Multi-strings check box will be checked by default under properties when using more than one string.
- [2174] Changed default titles on reports to be blank.
- [2173] Added text to capture data from IR to include "Strings X Cells."
- [2172] No file will open when canceling the command to open a new file.
- [2156] Added general battery information window after clicking the BAS data download button.
- [2154] Heading dates correspond with data and graphs on the threshold report graph.
- [2153] Cell average report displays the corresponding header.
- [1817] Text changes from "number of cells" to "cell/jars per string."
- [2108] Hydrometer data logger data collection window can accommodate multi-string selection from preferences.
- [2071] Correct threshold colors correspond with setting chosen when in multi-string mode.
- [2069] Instructions windows for CRT data transfer have been made more specific.
- [2068] Hydrometer data logger window instructions improved.
- [2043] Multi-string setting is checked in file properties and it remains checked until user un-checks it.
- [2042] Battery dataset detail report accommodates multi-string information for multiple dates.
- [2036] Battery dataset detail report summaries correspond with individual datasets.
- [2030] Handheld devices are no longer supported; therefore, .zdf files are not supported.
- [2011] Reports show only the page number on the bottom right of the report.
- [1978] Temperature conversions and matching have been improved for more accurate readings.

- [1935] IR calibration restore/capture is no longer supported.
- [1867] A select all button has been added to the cell trend report setup window. The dataset detail report (menu/button) now corresponds exactly with the cell average trend report data.
- [1860] When creating a report with read date related comments, these comments show up at the end of the report with the date.
- [1823] String names' header on report will change name based on string selected.
- [1766] BAS now checks on configuration that the Number of strings multiplied by the number of cells will not be more than 256.
- [1692] Reports, Print to PDF button is not shown if the PDF writer is not installed.

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New Features

- [1658] Added ability to generate reports to a PDF file.
- [1657] Added support for multiple strings per ADF file.
- [1654] Added enable/disable feature to each of the resistance alarm thresholds.
- [1652] Added a threshold warning level to resistance.
- [1583] Added a drop-down menu for user to specify temperature units coming from the specific gravity (S.G.) data logger.
- [1421] Files can now be merged if one has one set of information and the other has the remaining information.

Enhancements

- [1740] Increased the number of COM ports from 4 to 16.
- [1718] Changed text for better wording on searching for dates.
- [1715] The Data Set Detail report, showing bar graphs, is spaced better vertically and text prints more clearly.
- [1713] Added ability to change baseline curve color.
- [1691] Printer stays selected.
- [1653] Colors on the bar graphs no longer change for cells that violate the baseline threshold.
- [1645] CDF comments no longer imported as General comments in ADF. They now import as date related comments with no character length limitation.
- [1617] If a value passes the threshold, its text color in the report is now the same color in the graph.
- [1361] If the install date is left blank, it no longer appears on the report.

Bug Fixes

- [1716] The Summary portion showed only Summary: High, Avg, Low, but did not show the values on screen. Now it shows the actual values.
- [1714] Comparison and thresholds reports no longer create duplicate graphs.
- [1581] All the reported data in the search results of the search tool are now placed in the correct columns.
- [1474] Fixed the problem of counting locations when adding and deleting sites or saving multiple locations on the Configuration Editor.

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- [1591] User now has the option of including a logo on the report.
- [1541] When opening files now, the path is now remembered in the registry and the CDF's paths will be independent of the ADF paths.
- [1540] Imports now imports comments also.
- [1473] When exporting to Excel or to other permitted application software, the minimum, the maximum, and the average are now exported.
- [1463] User now has the option of specifying the temperature units in the Configuration Editor.
- [1453] Added drop down list for selecting the nominal test voltage under the configuration editor and the battery configuration.
- [1397] Now have new buttons on tool bar for opening CDF or ADF files.
- [1390] The summary heading and summary report are now printed on the same page.
- [1376] General Comments now appear on the correct page.
- [1174] There is a new "clear list" button that clears the list of searches.
- [883] General information is now included on the reports.

Battery Analysis Software (BAS) Version 1.8.0.25 Release Notes

Bug Fixes

- When opening a CDF file for the first time, a new selection appears on the Properties screen for Enable Threshold Analysis. Also, on the Configuration Info to be Imported screen, the selection is now "Enable Threshold Analysis" instead of "Enable Threshold Display."
- The total cell number is now properly set with a CDF file. It no longer defaults to 256.
- When a CDF file with temperature and S.G is appended to an ADF file with the same date, the data are now correctly appended. Voltage and resistance readings are no longer overwritten.
- Temperature no longer defaults to 32F if no temperature readings are in the CDF file.

Battery Analysis Software (BAS) Version 1.8.0.19 Release Notes

New Features

- The BAS program now has a new help file, accessible by clicking the (?) question mark. question mark over an item or by pressing the F1 key. The Help button was removed from the screens.

Battery Analysis Software (BAS) Version 1.8.0.13 Release Notes

New Features

- The BAS program now accesses the computer registry to use default regional settings.
- When Save is selected under the Configuration Editor, a message appears "Configuration file CLC300.CCF has been saved to >path<. Would you like to save to the memory card so the CRT-300 can access you new configurations? Yes/No." If Yes is selected, a File Save box lets the user navigate to the memory card, but the file name cannot be changed.
- Added ability to merge CCF file functions and put multiple CCF files in one file. Duplicate names prompt for change.
- Under a new tab in the Configuration Editor, added six Intercell Type selections:
 - Single – Two readings per cell: internal resistance reading of the cell and one strap reading per cell
 - Dual – Three readings per cell: internal resistance reading of the cell and two strap reading per cell
 - Triple – Three readings per cell: internal resistance reading of the cell and three strap readings per cell
 - Quad – Four readings per cell: internal resistance reading of the cell and four strap readings per cell
 - Combined – One reading per cell that includes internal resistance of cell and strap. Used with spike probes only.
 - Computed – Two readings per cell with internal resistance of the cell and one strap reading. Used with spike probes only.
- Added a drop down list for model number under the Configuration Editor. When a new model is added, it is added to the list. This allows selection of a model that has been set up. When selected, all values on the threshold page and the Amp Hour and Intercell Type settings are automatically filled in.
- After importing a CDF file, a new General Battery Information dialog box shows settings that may be changed. Only for new ADF files.

Enhancements

- Removed "Unknown" from the Temperature Scale in File|Properties|Utilities.
- Fixed redundant Cancel and Done buttons on the File Search screen. Removed the Done button; changed Cancel to Close.
- The "Select which parameters appear in graph" button now is tied throughout graphs. No longer have to reselect which parameters appear on the graph when opening a trend graph.
- Cell number more closely correlates to the graph and table when printing a report. Had unusual page breaks previously.
- An error message no longer appears when the user attempts to open multiple sessions of the BAS program. Reverts to the actively open session.
- Added a new tab under Configuration Editor and added Amp Hour Rating selections: "Less than 1000 Ahrs" or "Greater than 1000 Ahrs."
- Removed Temp Units and Date Format from the Configuration Editor.

- Added a filter to "File Open" for CDF. Opening now shows all ADF and CDF files. No change when opening an ADF file. When opening a CDF file, do the following: If an ADF file is open, ask if you want to import into the open battery (ADF) file or create a new ADF file. If an ADF file is not open, ask if you want to create a new ADF file or import into an existing ADF file. If import to an existing ADF file is selected, file dialog opens to select the file.
- Store the File Open, Save, Save As, Calibration, Reports, and Export Path to the registry on the Program, Reports and Export functions.
- Removed hard coded paths so program can be installed to any location.
- Tables in reports no longer include cells with 0 value for data.
- Printing a Threshold report now includes only cells that violate thresholds.
- Tables in reports no longer include columns for data that does not exist. Optionally, user can select what columns to print.
- Added an identifier to the graphs section of the reports for intercells.
- Intercell readings now have summary information on the graphs and reports.
- Added a check box on the Select Cellcorder dialog box, "Remember my selection and don't ask again." Also added a setting under Preferences.
- Single bar graphs now print narrower to save ink/toner.
- Temperature units (C) or (F) now are in the report header next to Temp.
- Reports with an odd number of graphs no longer print a separate last page that says "End of report."
- On reports, the install date is now above the Location Name on the top right of the page.
- After importing a CDF file, now automatically sets the total cell number by checking the data, not the number in the CDF file. Only does this when importing to a new ADF file. Existing ADF files have the total cell number set. Also, ignored if the number is entered in the new General Battery Information dialog box. Assumes 256 as the default.
- Added the ability to save a report in text format.
- Added a Manual Scale setting on the Parameter Display Properties dialog box for all graphs. Can use tabs, one for thresholds and one for scaling. An Enable button resumes auto scaling if desired.

Bug Fixes

- The check boxes on the Preferences screen now stay checked.
- No longer get an error when printing from the Details window.
- In Set Thresholds, the Up/Down arrows now change the correct spin boxes. Arrows for Baseline were changing the numbers on High Thresholds.
- Certain cell configurations no longer create printing problems.

- Corrected the C/F display problem when importing CDF files with C temp values.

Battery Analysis Software (BAS) Version 1.7.0.35 Release Notes

Enhancements

- Updated online help files.

Battery Analysis System (BAS) Version 1.7.0.29 Release Notes

Bug Fixes

- Improved IR communications with the CRT-300 and hydrometer memory module.
- Implemented specific IR drivers for Windows XP and 2000 that need to be installed separately. These drivers are on the software installation CD under the IR driver directory.
- Added a delete function for templates for Comments and User-Defined fields.
- Improved the calibration backup function. The cal constants now display properly.
- Will now accept CDF files that have an install date not defined.
- Added an hourglass during the final stages of importing CDF files to indicate the program is still busy and won't give the feeling the software is locked up.
- Limited the CDF import function to one CDF file at a time.
- Saved reports can now be opened using the archive reader.
- Now save file location to the registry when saving ADF files.
- Total cell number now automatically adjusts to the proper number of cells when capturing data into a new ADF file.
- Removed the baud rate selection for the communication settings.

Battery Analysis Software (BAS) Version 1.7.0.8 Release Notes

Bug Fixes

- The modified average calculation for the internal resistance readings no longer includes values of 0 in the calculations. This was allowing the modified average to equal 0 if readings of 0 existed in the data.
- Temperature graphs no longer hug the top of the scale when all temperature values are the same value.
- The internal resistance scaling algorithm was changed so the internal resistance graphs no longer hug the bottom of the scale.
- Comparison graph scaling no longer crashes on reports.
- Negative bars are no longer displayed in report bar graphs.

Enhancements

- Added threshold settings for intercells 2-4.
- Tabs were added to the comments screen to allow proper alignment of text during printing.
- A configuration editor has been added to allow entry of site setup data that can be loaded into the CRT-300 via the memory card. Allows for quick setup of instrument when moving from site to site.
- Added an Excel export to - Data Set Detail- Cell Trend- Average Trend and Comparison graphs.
- Add support for interfacing to the new CRT-300 via the memory card and IR port.
- The comments and user defined fields now can be linked to a read date. Existing data within a battery (ADF) file will fall under a category of general on the read date drop down list.
- User's now have the ability to create templates for data entry to the comments filed and user defined fields.

Battery Analysis Software (BAS) Version 1.5.0.3 Release Notes

Bug Fixes

- You can now generate a report on PC's using the Windows 2000 operating system. Previously, an "Access violation of address 00000000. Read of address 00000000" message was displayed. This problem was resolved in version 1.4.0.3; however, it re-appeared in version 1.5.0.2.

Battery Analysis Software (BAS) Version 1.5.0.2 Release Notes

Enhancements

- The scaling for the intercell no longer excludes abnormally large readings from the scaling algorithm. To have these values excluded, they must be assigned as an intertier.

Bug Fixes

- When viewing graphs, the temporary file "TempGraphic.tmp" no longer gets copied to the desktop.
- Trend reports now show starting with Cell 1. Previous versions printed the last cell first and then started with Cell 1 through the last.
- Viewing bar graph readings or including graphs in the reports no longer extend up through other graphs or squash the scaling.
- Under certain conditions, it was possible to have a bar graph display negative when viewing the intercell or internal resistance readings. All the bar graphs now show their proper reading.
- The cal constants are now correctly stored when transferring them from the Cellcorder to the PC for backup. The values for I and IC were reversed. This was previously addressed in version 1.4.0.3, but was not completely resolved.
- The trending function stopped working in the previous release and only showed one data point. This is now resolved.

Battery Analysis Software (BAS) Version 1.4.0.3 Release Notes

Enhancements

- If you open an ADF file as a read only file, make changes, and attempt to save it, an error message is now displayed, indicating the file was opened as read-only and cannot be written to.
- When a file is now opened as a read only, the status field indicates: Read-only.
- After the columns in the Properties|Details tab are sorted by clicking in the column header, the resulting print-out will now reflect the sorting.

Bug Fixes

- You can now generate a report on PC's using the Windows 2000 operating system. Previously, creating a report with more than 27 cells caused an "Access violation of address 00000000. Read of address 00000000" message to be displayed.
- When printing out the Properties|Detail information, the temperature units now show the proper units for temperature. It previously always showed C.
- The calibration constants are now correctly stored when transferring them from the Cellcorder to the PC for backup. The values for I and Ic were reversed.
- Viewing bar graph readings or including graphs in the reports will no longer extend up through other graphs or squash the scaling.

Battery Analysis Software (BAS) Version 1.3.1.20 Release Notes

New Features

- Printed reports now include colored text in the tabular data listings. The text color is based on the previously defined threshold values and colors for each parameter. All analysis reports support this capability. When printed on a color printer, the reports reproduce in the color displayed on screen.

Enhancements

- You can now perform a search on ADF files with the read date as a filter. Previously, this could only be performed on DAT files.
- The method used to display the bar graphs for internal resistance has changed. This improves the scaling if a cell has an abnormally high value. The new algorithm now calculates the average of cells which do not exceed the standard average by more than 25%. Set the graph scaling extents to +60% / -40% of this average value. High values now run into the top of the display while scaling will be performed on good cells.
- Temperatures values can now be set to 0 when manually editing them.

Bug Fixes

- The User defined information no longer gets lost.
- Upgrading firmware to a Cellcorder from an NT machine now works properly.

- The year no longer gets corrupted when entering only two digits for the year. For example, entering 01 for 2001 is accepted properly now. This is implemented everywhere there is a place to enter dates.
- If temperature units are set to (F) and you generate a Threshold report, the value for the violation threshold was actually in (C) not (F). It now shows the proper units.
- When switching back and forth between R1 and R2 intercell resistance values, the average/high and low values now is updated as well as the graph label R1, R2, R3 or R4.
- Temperature values now convert properly when changing units from C to F and back to C.
- Threshold lines for intercell readings are now removed from reports and graph displays when disabled.
- The reports now have the same time stamp at the bottom of each printed page.
- Text entered as comments under the Properties dialog now always prints on reports if selected.
- Cells attached to an intertier now display correctly on the bar graphs. This occurs when the cell associated with the intertier is the lowest of all the readings. The bar will go negative on the display and will not be seen.
- The intercell threshold settings now affect all four intercell sets of readings. Previously, changing the settings on other intercell graphs (R2-R4) had no effect.
- Temperature values now get imported properly when importing from an existing DOS file.

Cellcorder (BAS) Version 1.2 Release Notes

New Features

Communication Port configuration

The communication port used for each device can now be selected from within each Device Interface dialog. A different port can be configured for each device. The default communication port can still be set from the main program.

File Open/Create interface provided within the Device Interface dialogs

The user can now start a Device Interface dialog without opening or creating a battery file. In this case, when the user elects to download data from the device, the interface will prompt the user to open or create a new file at that time. Previous version of the Battery Analysis Software required the user to have opened or created a new battery file before starting one of the Device Interface dialogs.

Cellcorder Firmware Update

Allows the user to update the Cellcorder firmware to the latest revision, using an update file supplied by Albercorp. Previously, this capability was provided by a separate DOS program, originally shipped with the DOS version of the analysis software.

Enhanced Cellcorder Calibration backup/restore

The integrity of the calibration files is now protected using special error detection codes and other information built into the calibration data files. This helps the user to avoid accidentally uploading invalid or unintended calibration data to the Cellcorder.

Threshold Color Display Mode in Properties Details window

The Details page of the Properties Dialog can now display values in color, according to programmed threshold values. This feature uses same set of threshold values as configured through the Graph windows, but allows the user to configure a separate set of colors to be used for the text display. This feature also incorporates the ability to indicate Intertier cells by displaying values for those cells in bold.

Intertier Cell Configuration

This feature allows the user to specifically identify Intertier cells within each battery file. Cells that are marked as Intertiers will be given special consideration within certain calculations, and are specially identified in certain Data Analysis windows.

Cell Data Grid Editor

A new editing interface, known as the Cell Data Grid Editor, permits the user to edit all the data within one data set using a spread sheet-like editor. This editor replaces the single-cell editor when editing data from within the Properties dialog. The single-cell editor is still used when editing data from within a Data Analysis window.

User-defined report footer text

All report types now support an optional user-defined footer text which is printed at the bottom of each page of the report. This text is configured from within each report setup dialog, and is saved within the associated battery file.

Bug Fixes

When transferring Specific Gravity into an existing ADF file and the amount of cells transferring from hydrometer is less than that of the ADF setup, it will change the ADF setup to a new value determined by the hydrometer.

The summary header for reports always showed Temperature units as C. This is now corrected.

Corrected Intercell Average on comparison report summary.

Centered heading for Specific gravity on summary report.

Will not default to main paper tray when Alt tray is selected.

Can now print selected pages from report.

Can now print to a network printer.

Correct Divide by 0 error when entering Intercell alarm thresholds.

Correct changing of internal resistance reading when editing inter cell resistance under Properties | Details screen.

When printing reports, on some printers (ink jets) the text at the bottom of the page gets cut off in the middle. All text will now be printed.

User defined entry bug corrected.

Fix "unknown" temperature units problem.