

Echometer TAM 1.6 Release Dated Aug 14, 2017, Bug Fixes, Updates

CBE

- 7/7/2015 CBE elapsed time is now based on clicking the start button rather than when data starts coming across
- 7/7/2015 Added a legend to the CBE module plot
- 9/16/2015 Fixed CBE plot by adding configurable pump
- 1/19/2016 Disabled Show CBE Load annotation in Dyn when not appropriate

Clear Channel Assessment

- 9/16/2015 Changed clear channel assessment logic to suggest better channels
- 9/16/2015 Changed size of LQI warning dialog
- 9/16/2015 Stopped prompting users to run clear channel assessment with unsupported firmware

- 11/30/2015 Created new results dialog for clear channel assessment
- 11/30/2015 Removed error details from channel interference popup
- 11/30/2015 Removed Abort Clear Channel assessment button and updated state of Run button

- 1/19/2016 Added advanced clear channel assessment
- 1/19/2016 Added best practices for sensor communication document
- 3/3/2016 Now uses sensor with worst signal for advanced assessment
- 3/3/2016 Fixed but that was causing test to not finish correctly when one channel was very bad

- 3/3/2016 Disabled CCA (Clear Channel Assessment) for non-compatible firmwares
- 3/3/2016 Changed the workflow of CCA to not make advanced assessment so prominent
- 3/3/2016 Added current channels to CCA views
- 3/3/2016 Advanced CCA now shows errors for individual problem channels
- 3/3/2016 Advanced CCA auto scrolls during assessment
- 3/3/2016 Added time estimate warning before starting advanced CCA
- 3/3/2016 Now Auto start tests if they have not been run yet
- 3/3/2016 Messages are now shown on CCA if assessment cannot run and while Basic is running

- 3/3/2016 Updated Best Practices document for Sensor Communication
- 3/3/2016 Changed result sorting to take peak readings into consideration before average
- 4/1/2016 Fixed RSSI and LQI in slow beacon mode
- 4/15/2016 Updated the message user sees when signal is not good
- 4/15/2016 Added sensor info to CCA advanced view
- 4/29/2016 Clear channel notice for bad signal strength after three consecutive bad readings

Dynamometer

- 7/7/2015 Fixed a crash when running two DYN tests in a row
- 7/7/2015 Added add/delete valve analysis options to the DYN raw view right click menu
- 7/7/2015 Some DYN analyses were still using the well's auto-detect valve test setting rather than the test's auto-detect setting. This has been fixed.

7/7/2015 Stroke selection control (filmstrip) now correctly highlights the replay stroke again

7/7/2015 SPM on the DYN report now shows 3 decimal places of precision

8/5/2015 Fixed updating of stroke details

8/5/2015 Fixed Data Import of FoUp from TWM

8/5/2015 Fixed crash when changing offset units for WPT

8/5/2015 Fixed scaling when only one Y Axis is shown for analysis plots

8/5/2015 Fixed units for stress in DYN report

8/5/2015 Added default stroke length

8/5/2015 Smaller default raw plot time for long Dyn Tests

9/16/2015 Fixed bug causing crash while looking at Overlays in Dyn

9/16/2015 Fixed crank angle and position bug

9/16/2015 Added damping factor notification and adjustment calc

9/16/2015 Moved dot behind curve data on Analysis plot

9/16/2015 Added overlay option to Dyn analysis plots

9/16/2015 Well animation now handles top to top stroke processing

11/30/2015 Fixed KT line plotting

11/30/2015 Fixed crash when reprocessing in Dyn module

11/30/2015 Fixed crank angle and torque factor so they line up correctly

11/30/2015 Fixed cursors not updating in the details view during Dyn live acquisition

11/30/2015 Fixed tubing pressure in Dyn replay adding wrong data to plot

11/30/2015 Turned off Mechanical Torque for Rotoflex units

11/30/2015 Added follow dot to pressure curve in Dyn field view

1/19/2016 Fixed tubing pressure going to zero in some Dyn strokes

1/19/2016 Fixed invalid value in Pump Card Analysis/Tubing Gradient

1/19/2016 Updated the counter weight database

3/3/2016 Fixed crash when looking at Pump Analysis Dialog caused by negative values

3/3/2016 Fixed weight of rod calculation in last taper of deviated wells

4/1/2016 Fixed DYN not selecting stroke or valve test when reprocessing

4/1/2016 Fixed bubbles missing in DYN movie generations

4/1/2016 Fixed bottom plot not showing pressure while acquiring DYN

4/1/2016 Added comment clarifying stroke length calculations in DYN

4/15/2016 Better handling of preferred DYN view to prevent crashes

4/15/2016 Information during DYN animation and movies now better matches static view

4/29/2016 Warn users if they try to set DYN sensor acq rates above 60Hz

4/29/2016 Screen no longer freezes when acquiring in DYN with power probe

6/16/2016 Revision due to recent feedback regarding acquisition bugs and crashes in DYN

6/16/2016 DYN Acq - new tool that creates a copy of data user is acquiring. Data can be used to reproduce and test problems much more easily and effectively

6/16/2016 Re-calibration of the PRT is no longer prompted before a second acquisition

7/5/2016 Reworded stroke reprocessing method options

7/5/2016 Changed default reprocessing filter to box from low pass to match acquisition

7/5/2016 Fixed crash after valve tests during DYN ACQ

7/5/2016 Fixed a bug causing TAM to not switch to the valve test screen during DYN ACQ

7/5/2016 Fixed a bug causing TAM to not detect strokes

7/14/2016 Fixed an issue causing TAM to not detect strokes when a DYN test is started while the pump is off

8/5/2016 DYN reprocessing performance improvements
9/2/2016 Updated the Counter Weight Database
9/2/2016 Added new units to Pumping Unit Database
9/2/2016 Pump animation was not working on Details tab in DYN during ACQ
9/26/2016 Updated the Pumping Unit Library
9/26/2016 Stroke details appearing in cases when they should not
9/26/2016 Fixed Crash in DYN due to stroke selection and position controls
10/26/2016 Fixed Crash when switching to DYN
10/26/2016 Fixed Crash when starting ACQ while running replay
10/26/2016 Fixed Stroke number not updating correctly in DYN analysis plots movies
10/26/2016 Fixed Counter Weight library improperly categorizing elements due to commas
10/26/2016 Improved error messages regarding saving a movie over a file already in use
10/28/2016 DYN's data export for PIP now uses last selected stroke, not average
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12/6/2016 Fixed Crash when viewing PumpAnalysisCard
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12/6/2016 Fixed Crash when viewing PumpAnalysisCard
12/6/2016 Fixed Crash in DYN when ACQ is aborted
12/22/2016 Improved handling of Pumping Unit API when a letter represents the model
12/22/2016 Fixed crash if Install button is pressed before WPRT is picked up by DYN module

- 12/22/2016 Updates to Echometer Pumping Unit Library
- 3/2/2017 Damping Factor Updates when Importing from TWM
- 2/16/2017 Updated the counterweight database.
- 2/16/2017 Fixed Torque Calculations - selected CBE was not being used.

Liquid Level

- 8/5/2015 Fixed pressure buildup overlay on plot
- 8/5/2015 Fixed Pressure Axis showing when there is not data
- 8/5/2015 Fixed production data sometimes not showing in ACU tests
- 8/5/2015 Added high pass filter to ACU fine tune dialog
- 8/5/2015 Changed defaults on shot selection dialog
- 9/16/2015 Fixed bug seen reading pressure in some workflows after updating to latest firmware

- 9/16/2015 Fixed temperature reading on W5KG
- 9/16/2015 Fixed W5KG details bug that caused crash
- 9/16/2015 Modified liquid column measurement for wells without tubing
- 9/16/2015 Hid shot path and type with WRFG now only shown with W5KG
- 9/16/2015 Fixed warning annotation and option layout for LL analysis
- 11/30/2015 Fixed Liquid Level warning that was not going away properly
- 11/30/2015 Fixed Static bottom hole pressure calculation when there is no tubing or pump
- 11/30/2015 Removed data shift from high pass filter
- 1/19/2016 Fixed the drawing of the liquid in the well diagram
- 3/3/2016 Fixed Oil Height calculation for certain well configurations
- 4/1/2016 Fixed shot detection marker getting stuck on right
- 4/1/2016 Fixed wellbore overlay always appearing when LL is below wellbore
- 4/1/2016 Added MD and TVD to LL analysis, well deviation, and reports
- 4/1/2016 Both depth and time axes now appear when using show overlays in LL
- 4/15/2016 Pressure buildup now averages over a second instead of half a second
- 4/29/2016 Pressure buildup duration corrected
- 7/5/2016 Changed error text when the LL is below the tubing
- 7/14/2016 Fixed a crash when running an acoustic test for a well with no selected template

- 10/26/2016 Default Production LL depth is now the Pump Intake Depth for Static LL Calculations

- 10/26/2016 TWM well not importing SBHP correctly
- 10/28/2016 Fixed Default Production LL depth to be at the Pump Intake Depth for Static LL Calculations
- 10/28/2016 Improved error messages regarding saving a movie over a file already in use
- 10/28/2016 Fixed TWM well not importing SBHP correctly
- 12/22/2016 Corrected LL export values related to Manual Producing LL

Miscellaneous

- 7/7/2015 The sensor offset digital units on the offset tab are no longer change units throughout the app
- 7/7/2015 Removed "file in use" pop-up

7/7/2015 Fixed crash when switching to well conditions tab after viewing counterweights dialog

8/5/2015 Fixed crash when opening some files
8/5/2015 Fixed plot notes window to expand
8/5/2015 Fixed Monobore well showing irrelevant error message
8/5/2015 Improved handling of slow beacon mode
8/5/2015 Changed default hardware channels to 11 and 26
8/5/2015 Hid Firmware version for wired sensors
8/5/2015 Changed slow beacon time to 10 min from 5 min
8/5/2015 Added the ability to set well analyzer sensor coefficients when "creating" the sensor

9/16/2015 Fixed file importing bug
9/16/2015 Changed expand and restore buttons to be consistent across modules
9/16/2015 Well names and groups are now sorted naturally
9/16/2015 Added sensor name to update firmware dialog
9/16/2015 Updated base and sensor firmware
9/16/2015 Well export will now export wells with no tests
9/16/2015 Added more export options to more closely match TWM

11/30/2015 Fixed some errors with batch print
11/30/2015 Fixed unit conversion for lb/ft, kg/m
11/30/2015 Fixed PT sensors auto filling into the optional slot with 5K gun
11/30/2015 Updated sensor and base firmware to 2015-11-19
11/30/2015 Added more error handling during printing
11/30/2015 Improved version checking and error reporting to work for more user system configurations
11/30/2015 Allowed tests that are skipped during import to be loaded from the import dialog

1/19/2016 Fixed crash when looking at deviated well icon, also support different units in popup

1/19/2016 Fixed crash during batch print workflow
1/19/2016 Fixed crashes when importing large files
1/19/2016 Added tool-tip style popup to sensor icons
1/19/2016 Improved description of Data Export fields in "Other" group.
1/19/2016 Replaced "Other" with General Test Info and moved some fields to more appropriate groups
1/19/2016 Added Pump Run Data and API Pump Designation to Data Export
1/19/2016 No longer allow users to select the configuration channel for acquisition (channel 20)

3/3/2016 Stopped popup for updating base when Wired Well Analyzer is connected
3/3/2016 Fixed Echometer's phone number
3/3/2016 Changed the units category for structural load
4/1/2016 Fixed TWM import appearing to get stuck in some cases
4/1/2016 Fixed UI elements staying on screen when switching between test types
4/1/2016 Fixed inconsistency between times shown with tests and well versions
4/1/2016 Added 120,240,480 Hz sample rates
4/1/2016 Added forced firmware updates and preventing acquisition
4/1/2016 Hardware and TAM timeout changed from 3 to 5 seconds during acquisition

4/1/2016 Help document PDFs can be opened with any PDF reader, not just Adobe Reader

4/1/2016 Data interference dialog will only appear once during acquisition

4/15/2016 Corrected issue causing some tests to re-import (duplicates)

4/15/2016 Sample rates (preferences too) for wired and wireless sensors have been updated

4/15/2016 Added "About" button to Help dialog

4/29/2016 Updated Sensor and Base firmware to 4-29-2016 version

5/6/2016 Firmware process update - Base update first, then sensors

5/6/2016 During firmware update sensors will no longer received multiple update notices

5/10/2016 Changed Firmware update process - Firmware updates are no longer "required"

5/10/2016 Users will not be able to acq new tests without updating the base and sensors used in that test

5/13/2016 Firmware update logic modified to prompt users if a sensor goes offline and comes back online

6/16/2016 Well Analyzer acquisition capability has been restored

6/16/2016 60Hz message no longer showing after switch to 30Hz

7/5/2016 Fixed battery voltage display while a sensor is charging

7/5/2016 User will no longer be able to skip firmware update when starting an acoustic test

7/5/2016 TAM will now correctly prompt users when firmware updates are available

7/5/2016 Fixed a bug causing the base firmware version to not appear for tests recovered after a crash

7/14/2016 Updated firmware to fix Battery % during acquisition

7/14/2016 Allow firmware updates for GDA dongles

7/14/2016 Changed fast beacon rate to 0.1 seconds and slow beacon rate to 0.5 seconds. This significantly decreases the time needed before starting ACQ

8/5/2016 Creating and adding dump file to include in crash reports (used to debug at Capsher)

8/5/2016 Better responsiveness when sensors go offline (fixed the slow down that was thought to be caused by a lot of friendlies)

9/2/2016 Allowed Microsoft Edge to be used when it was the default PDF reader for Quick Reference documents

9/2/2016 Removed Ungrammatical comma in Stroke Post Processing dialog

9/2/2016 Crash when importing from TWM

9/26/2016 Updated to 2016-09-22 base and sensor firmware:

9/26/2016 Added details regarding a sensor when updating its firmware

9/26/2016 Fixed Crash when sensor info is requested

10/26/2016 Improved error messages regarding Sensor FW Upgrade with instructions for hard reset

10/26/2016 Improved FWUpdate success rate by lowering sensor beacon rate back down after initial metadata received

10/26/2016 Improved viewing conflicts for one group importing with highlighting

10/26/2016 Improved crash reporting to use hard coded IP address if fails with DNS resolution

10/26/2016 GSINFO queries sent for offline sensors

10/26/2016 HWSetupDlg not refreshing base information when new base connects
10/28/2016 Added 20161026 Firmware for base and sensors
10/28/2016 Improved error messages regarding Sensor FW Upgrade with instructions for hard reset

10/28/2016 Improved FWUpdate success rate by lowering sensor beacon rate back down after initial metadata received
10/28/2016 Improved viewing conflicts for one group importing with highlighting
10/28/2016 Improved crash reporting to use hard coded IP address if fails with DNS resolution

10/28/2016 Eliminated sending GSINFO queries for offline sensors
10/28/2016 Fixed HWSetupDlg not refreshing base information when new base connects
11/18/2016 Added log of call stack for more information upon crash
11/18/2016 Log files are flushed upon crash to give up to date information
11/18/2016 Added stack and heap information to dump file from crash
11/18/2016 Added removal of raw dump file after user is prompted about the crash
11/18/2016 Fixed Crash when looking at WPP or WPRT sensor details before another sensor
12/6/2016 Added functionality to push firmware to base station currently in DFU mode
12/6/2016 Added symbols file to installer, allowing StackWalker to grab TAM function names upon a crash

12/6/2016 Updated base firmware to 2016-11-30 version
12/6/2016 Crash when entering CrashHandler under certain conditions
12/22/2016 Fixed TWM Express Import failure when the TWM folder does not exist
12/22/2016 Fixed crash during Export data

Power

7/7/2015 Default power cost consumption is now 10 c/kwh
8/5/2015 Fixed Help doc error for Power Sensor in Dyn
8/5/2015 Updated default power demand cost
1/19/2016 Fixed some power torque inconsistencies in Dyn
4/29/2016 Removed "Acq Rate" window for power probes

Reports

7/7/2015 Moved the sensor serial number on the LL Report to above the well diagram
7/7/2015 Added text explaining where gas gravity comes from in the LL report
7/7/2015 Resized card plot on the DYN report so units do not wrap to new lines
7/7/2015 Added PBHP/SBHP ratio to the LL report
7/7/2015 The casing pressure plot on the LL report now shows the same scale as the expanded pressure buildup plot
7/7/2015 Added pump depth to the DYN report pump box
7/7/2015 Split damp up/damp down line into separate lines in the DYN report pump box
7/7/2015 Added downstroke/upstroke annotation to the %Loading description in the DYN report Gearbox box
7/7/2015 The LL depth on the DYN report is now displayed below the well diagram
7/7/2015 Fixed zoom factor text cutoff when resizing the DYN report dialog
7/7/2015 Horsepower value precision displayed on the DYN report is now based on the value itself

- 7/7/2015 Long comments are now moved to a separate page in reports
- 7/7/2015 Added the ability to modify %Liquid below pump from the LL report
- 7/7/2015 All load and weight values in the DYN report now display with 3 decimal places of precision
- 7/7/2015 Maximum counterweight is no longer displayed in reports when the torque calculation input is CBE and the user has manually entered in counterweight weights

- 7/7/2015 Bubbles on the well diagram now begin at the bottom of the bottommost perforation

- 8/5/2015 Added ability to modify Dyn Report Annotations
- 8/5/2015 Added source of Gas Gravity to LL Report
- 8/5/2015 Updates to Torque report
- 8/5/2015 Adjusted styling of CBE plots in TAM and on Reports for Black/White print
- 9/16/2015 Added report to ACU History dialog
- 9/16/2015 Added analysis plot values to report
- 1/19/2016 Fixed how Dyn Report plots are drawn so that they look more like the UI
- 1/19/2016 Added ability to generate report from history dialog in Dyn and CBE (Like LL)
- 4/1/2016 Moved Well Name to the top level when editing data export templates
- 6/16/2016 Torque Report no longer shows erroneous zeros
- 7/5/2016 Fixed text alignment issues on the acoustic report
- 7/5/2016 Improved look and clarity of plots on reports
- 7/5/2016 Fixed a bug in torque reports incorrectly showing 00000
- 7/5/2016 Data Export now correctly shows units for pressure buildup
- 7/5/2016 Fixed an issue where TAM was not properly including well versions during TAM Export

- 9/26/2016 Fixed Crash when viewing gas lift report
- 10/26/2016 DYN's Data Export for PIP now uses last selected stroke, not average
- 10/26/2016 Fixed Crash on well report when showing production interval table spanning multiple pages
- 10/28/2016 Fixed Crash on well report when showing production interval table spanning multiple pages

Valve Test

- 7/7/2015 The current load is now visible on the VT screen for load cells
- 4/1/2016 Added double-clicking Manual Valve Tests to show the valve test
- 9/2/2016 Fixed Crash with Valve Test when Pump Card Analysis' Tubing Gradient tab is open

- 9/26/2016 Fixed Valve tests not refreshing in some circumstances

Well File

- 7/7/2015 Clarified error message pop-up when invalid values are entered in the tubing/casing tables

- 7/7/2015 Tubing anchors are now centered vertically on their depth
- 7/7/2015 Production casing ID change markers are now differentiated between production casing ID change and liners
- 7/7/2015 Added range check when use manually enters in Gas Gravity

8/5/2015 Fixed TAM freezing while editing tubulars
8/5/2015 Fixed Wellbore update caused by test time changes
8/5/2015 Fixed Well Save dialog to clarify
8/5/2015 Updated Wellbore diagram primarily with Bridge Plug
8/5/2015 Clarified expected format of date entries and added calendar selector
8/5/2015 Added EOT Annotation to survey plots
8/5/2015 Changed well merging to not always delete originals
8/5/2015 Added gas gravity override option in well conditions
8/5/2015 Added lateral type to the production interval grid
8/5/2015 Added option of Plugged Perforation
8/5/2015 Changed text in deviation plot from "Vertical Departure" to "True Vertical Depth"

9/16/2015 Added remaining well data to export options
11/30/2015 Fixed units in deviated well plot
11/30/2015 Fixed label on downhole marker when a production casing id change should be labeled as a liner

3/3/2016 Fixed deviated well icon to show whenever well is deviated
3/3/2016 Fixed Well Diagram when drawing some open hole wells
4/15/2016 Well diagram is now correctly sized when Gas Lift Valves are edited.
4/29/2016 Fixed bug when trying to edit Prime Movers in Well dialog
7/5/2016 Fixed well version deletion when deleting a well created in another time zone
9/2/2016 Fixed Error with validation of Mechanical Wellbore values when using Quick View

9/2/2016 Fixed TAM locking up when getting GPS information
9/2/2016 Fixed Crash when editing a well without a template
11/18/2016 Fixed Imported units not matching what is shown in Pumping Unit Library due to whitespace differences
11/18/2016 Fixed Crash when editing well details after aborting a DYN ACQ
12/6/2016 Fixed Duplicate well files showing up after running installer due to not cleaning up 1.4 files

12/6/2016 Fixed Crash when notifying of well change for corrupt wells
12/6/2016 Fixed Crash when close (GPS) to corrupt well