



Product Update: AeroPro™ Software Release Version 6.77

Product: AeroPro Software version 6.77 has been released. This Product Update describes the new features, enhancements and resolved issues for this version of software.

Action: All new installations of AeroPro Software should use version 6.77. Upgrade of older versions to 6.77 is recommended.

Date: May 25, 2014

Reference Number: UPDT_2014-001AERO

Technical Contact: For technical support, please contact aero.support@mts.com

Eligibility: Customers with current ME&S subscriptions are eligible to install this upgrade.

The purpose of this Product Update is to inform MTS customers of new or updated product availability. Please review the information in this document to determine if any of your MTS systems may be affected. For additional information or technical assistance, please contact your local MTS representative <http://www.mts.com/en/about/global/index.htm>.

New Features

Asynchronous Profile Execution

AeroPro now supports the ability to command control channels in an asynchronous manner. Each channel can command a unique wave shape, load condition, ramp time, cycle frequency, and initial delay time. Channels can be grouped in order to command common parameters. Changing the settings for one channel in the group will automatically update the settings for all others in the group. One scenario for asynchronous profile execution is the slow ramping of a pressure channel while a group of channels are cycling at one frequency and other channels are cycling at a different frequency.

Enable or Disable Optimization Per Profile Row

Null Pacing and Peak-Valley-Phase command optimization can now be enabled/disabled on each profile row. This allows the test operator to define exactly when to apply the command optimization.

Action Groups On Procedure Rows

AeroPro now allows the test operator to define a group of actions to execute at the start and end of each procedure row. Previously, this feature was only available on profile rows. This enhancement provides a clean and easy way to do things like count flights or trigger actions on asynchronous profiles.

Support for Encoder and Digital Temposonics

AeroPro now supports encoders and digital Temposonics. MTS FlexTest controllers offer two input cards, the 494.47 card which supports two encoder inputs, and the 494.49 card, which supports four encoder inputs. These cards support the following transducers:

- Temposonics G
- Temposonics R
- Incremental/velocity encoder

Enhancements

The following enhancements have been added to the AeroPro Software for the 6.70 release.

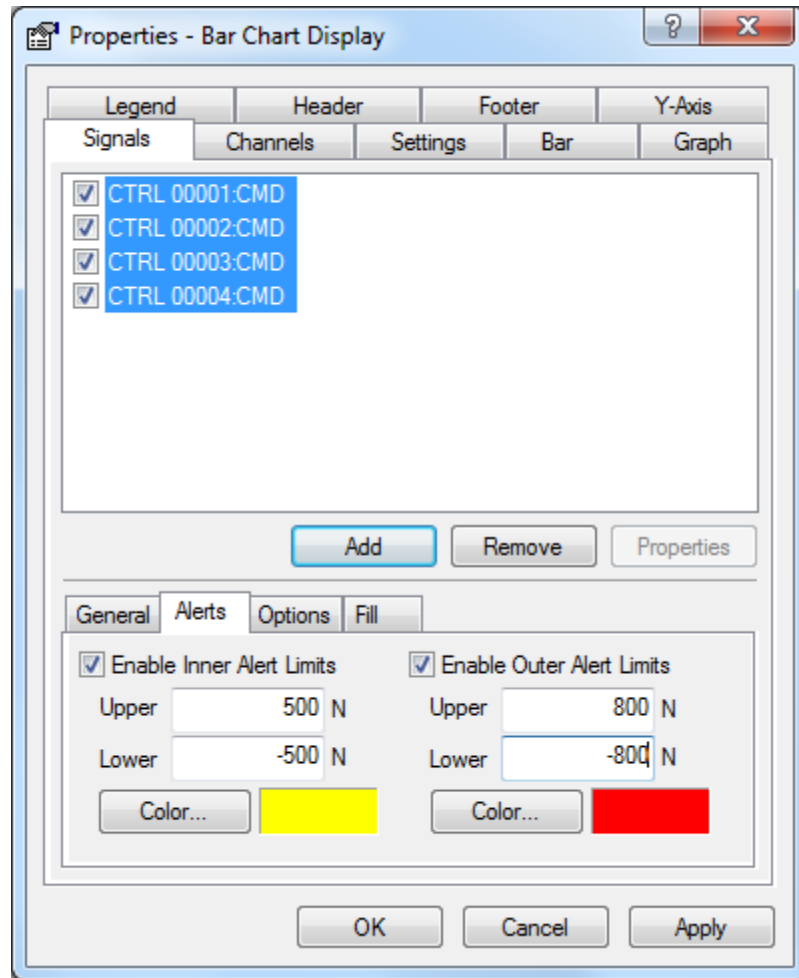
Change AC Frequency

The ability was added to change the AC frequency on 494 hardware in the AC mode to better support a wide range of transducers. Previously, the user had no choice of frequency. Currently, the user can select a frequency from an available frequency list.

Improved Limit Recognition in Data Display

A new setting was added to alert the user when the reading for a signal exceeds the user programmed inner and outer limits. The user can select different colors for the different limits. The units of measure can come from three sources:

- Test setup
- General tab
- Alerts tab itself (a new tab)



Other Important Information

End of Windows XP Support

Microsoft has announced the end of support for Windows XP. Because of this, we will not be able to guarantee compatibility of AeroPro with Windows XP going forward. AeroPro version 6.70 is the last version that will support Windows XP. If you are running Windows XP, please consider budgeting for Windows 7 machines to remain current with AeroPro.

Notable Bug Fixes

The following issues were addressed in AeroPro 6.75.

Issue ID	Problem	Description
24900	Digital Output States not being set correctly in Action Groups	In an action group with 4 digital outputs, when the digital outputs were set high in one group and low in another group, the outputs would not change states while running the test. When the set state was changed from high\low to toggle, it worked as expected. This now works as expected when the set state is high/low.
5591	Log History unavailable for export from Data Reprocessor.	The Data Reprocessor Log History can now be saved to an AeroPro log file for viewing.
6871	Data Display buffer size lost when opening a saved workspace.	After creating and saving a Data Display workspace, the value for Samples in History Buffer was not recalled after being closed and reopened. The Samples in History Buffer now persists when reopening a saved workspace.
8449	Disc monitoring is only available on C:\ drive.	Customers requested the ability to monitor a disc other than C:\ and set events and actions based on available disc space remaining. To better support this, it is now possible to monitor other local drives.
9049	Data Display shows "Parameter incorrect" message when opening a saved workspace.	After creating and saving a Data Display workspace, a "Parameter incorrect" message was displayed when the workspace was opened. The workspace validation has been improved and only true validation errors are presented.
9050	Data Display bar chart size lost when opening a saved workspace	After creating and saving a Data Display workspace, the bar chart size was not recalled after being closed and reopened. The bar chart size now persists when reopening a saved workspace.
9144	Data Display crashed when setting a fixed axis from the Data Display Manager	When editing the Data Display properties, setting an axis to fixed and selecting Apply or OK, the Data Display would crash. This problem has been resolved.
11210	Custom load condition names not persisting	After renaming load conditions in a load table, opening and closing the load condition table sometimes caused the custom names to be lost. Custom load condition names now persist through closing and opening load condition tables.
11455	Importing Control Channel information disabled control modes	Importing Control Channel information into a test with mode switching could inadvertently disable one of the control modes. Importing now leaves the control modes as it is.

Notable Bug Fixes in 6.76

After the release of 6.75, the following issues were found and corrected in version 6.76

Issue ID	Problem	Description
38128	Unable to load an MTS FlexDAC 20 test to station 2	For systems with a multi-box controller, multiple stations and MTS FlexDAC 20, it was not possible to load a test to stations two through four. These tests can now load on any station.
39104	After variables are created in a Wizard, they cannot be saved if they are edited	Hidden variables can now be edited and saved.
40071	Removing samples from an XY plot causes AeroPro to crash	

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Issue ID	Problem	Description
39040	793 software fails to run after installing AeroPro	The AeroPro installer was updated so that both software packages can be run on the same PC.
39914	Status bits displayed incorrectly	When displaying status bits grouped by channel, they became unreadable. The old look has been restored.
40045	Trend monitoring changed	The behavior of autoscaling and user defined limits was inadvertently changed after 6.50. The previous functionality has been restored.

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