LDS-Dactron Shaker Control Version 6.0

Enhancements
1. User Interface Enhancements

New Start-Up page
The start up page provides direct access to a wide range of application functions and administrative actions including the following items:
- Open a saved project
- Create a new project
- Program/Execute a Project Sequence
- Set Global Parameters
- Administration of password security and license key
- Set Global Application Style
- Start-Up page can be customized by the user

Global Parameters
This capability allows parameter sets to be defined and used for every application. The parameter tables that can be set for global use are as shown below:
- Input Channel Settings
- Shaker Parameters
- Global Display Settings
- Engineering Units
- E-Mail Setup

Improved Profile Setup Dialogs
- Simplified setup table with a more intuitive table format
- Resizable profile window
- User selected font size
- Profile graph updates as table is entered; highlighting of table point on the plot
- Better crossover calculation technique

Simplified Control Parameter dialogs
- Reduced parameter settings
- Added "auto" setting for the frequency range in Random to automatically set Fmax based on the profile Fmax
- Deleted redundant parameters

Simplified data saves and recalls
- Direct access to the Recall function from a new icon on the toolbar
- Simplified activation of signals to save by frequency domain or time domain categories
- Save selections activated by default when user enables input channels
- Simplified directory explorer default level display
- Automatic replay "video" display of recalled data with user controls
- Drag and drop of recalled, saved or cached signals into a display pane

Improved Test Sequence
- Test Sequence log added
- Interruptible sequence with the possibility an abort a test to run a different application and then resume the aborted test

General
- TEDS interface updated to support V1.0 TEDS specification

2. Application Enhancements

Random
- Hinv abort tolerance capability added. This new feature provides and automatic abort of a test if there is a change to the Hinv function during the test.

Sine
- Loop check function added to the test schedule
- Minimum frequency start frequency lowered from 0.4 Hz to 0.1 Hz
- Compression rate programmable as function of frequency
- Disable control signal loss abort for multi-channel control (for complex structures with deep anti-resonances)
- Integer dwell and sweep event added to the schedule
- Selection for Log or Linear averaging added to the Control Parameters

Waveform Editor
- Capability to read ASCII files in European format (using comma instead of decimal point)
- Improved display of large data sets with new display tools and zooming to all the way down to individual data points
- Enhanced displacement compensation method for large data files

Long Time History
- Improved display of large data sets with new display tools and zooming to sample by sample level
- Loop function added to profile table
- Advanced Abort tolerance setting that allows a breakpoint table of times and abort levels

Shock SRS
- Inverse pulse added as a test schedule event and a control choice on the control panel

NET-Integrator
- Compatibility to LabView added with several new function additions

Other Enhancements and Bug Fixes
Random
2497   In the Quick Report plot legend the values for PSD RMS were off by a factor of 10

Random on Random

2465   The Demand RMS value displayed in the Control Panel was incorrect

Sine

2072   Multi-channel control option added in Advanced setting for Control Parameters to change the abort criteria to allow temporary signal loss sweeping through a sharp anti-resonance

1837   RESPONSE channel problems with reported amplitudes of DC signals

2016   Loop check function added for sine as a Schedule function

Long Time History

1962   Import of ASCII data with a comma instead of a decimal point as decimal field delimiter is now possible

2036   Total Remaining time showed negative time for multi-profile schedule setups

2087   Profile Event "Run at Level" wasn't tied to the EU Level Setting

2308   Profile Abort limits did not change when EU units changed from g to m/s^2

2309   Start-up overshoot related to using level units of dB

2105   Spectrum Signal amplitudes different when imported into LTH Pre-Test Profile

Waveform Editor

2040   Import Data Quantity Unit is not retained for any setting

2041   Added an icon for Apply Compensation to Toolbar

2042   Histogram engineering units did not match Import Data Quantity setting

2043   Previously the import units were defined in both in Preferences and the Import Profile from File dialog

2019   Displacement display amplitudes were not correct when displacement was set as the Import Data Quantity

2020   Software crashed sometimes using Graphical Editing Operations (Delete, Paste to)

2088   Non-acceleration profiles generated in Waveform Editor shows different amplitudes in LTH

2101   Acceleration data saved in gn's was high by a 9.81 factor when imported as m/sec^2

NET-Integrator

1884   Added NET-Integrator commands "Proceed" and "Stop" commands for Pre-Test Report

1885   Added NET-Integrator commands "50%", "100%", "Stop" for Drive Ramp-up dialog

General
1705	Added notching active message to the run log
1982	Email on abort does not work if Resume on Abort is active
2204	Limit Profile disabled without warning when recalling channel table with Monitor channel changed to Response channel
2412	Project Sequence function now works for LTH projects also
2097	Chamber Interface - Chamber Event "Actions by Shaker Controller" problems
2110	Project Sequence - added an option to turn off continue prompt following a test abort
2111	Abort Actions don't work when Enable resume from abort is active

Reports
A number of bugs were fixed for the template report function.