Release Notes

NX System Release 7
October, 2006

Component Versions

NX System Release 7 consists of the following component versions:

- NX Editor Version: 1.0.7.111
- NX Tester Firmware Version: 2.1.103

Dependencies

- Test programs created with NX Editor Version 1.0.5.84 or later can only be executed on NX Testers equipped with Firmware Version 1.4.50 (issued in Release 2) or later.
- Programs created in the NX Editor prior to Version 1.0.3.62 must be loaded and resaved in a later version of the NX Editor before the program will run on Firmware Version 2.0.77 or later.

It is strongly recommended that the upgrade be applied to the NX Testers and the NX Editor simultaneously

New Features and Enhancements

NX System Release 7 contains the following new features and enhancements:

- **Enhanced Network Capabilities:** NX Testers now support full networking capabilities, including sending detailed wire harness data to Dynalab's NX Server Enterprise Edition for archiving and reporting.
- **Enhanced Autolearn:** NX Testers now support the use of a template file with the Autolearn function. This feature provides additional flexibility when automatically 'learning' a wire harness. The Autolearn template file allows for customization of the workflow, definition of variables, wire colors, or other program properties, custom naming of fixture blocks/pins, and specification of additional connection phases.
- **Calibration Verification:** NX Testers have always performed automatic internal calibration tests upon startup to ensure accurate measurements. Now, the Calibration Verification Tool is available from Dynalab to verify that the NX Tester is performing in accordance with its published accuracy specifications.
- **Enhanced Control Port Module:** New NX Testers support an enhanced Control Port Module that consists of two independently controllable outputs. This is useful for wire harness testing applications that require independent control of two electrically-operated devices such as a fixture clamp release solenoid, a marking device, etc. (This capability is only available with new NX Testers whose Control Port is specially labeled indicating support of the dual output Control Port Module.)
- **Flexible Testing Modes:** To support reliable testing in applications with high levels of wire capacitance or high levels of electrical noise, the TEST Display Workflow Item provides a choice of Threshold or Actual testing modes. Threshold testing is the default mode. It provides the fastest performance and is suitable for most testing situations. Actual mode testing is available for situations where actual resistance measurements are to be reported; however, this mode may not be suitable in testing environments with high wire capacitance or high levels of electrical noise.

- **Enhanced Probe Capability:** The probe is now active during testing. While a test is executing, if any point on the fixture is probed, the NX Tester will display information about the probed point.

- **Enhanced NXI File Importation:** The NXI File import capability has been enhanced to support multiple part numbers.

- **Network-Enabled Automatic Program Selection:** If a NX Tester is network-enabled and is registered with a NX Server, use of a scanner for automatic program selection will include the network drive when searching for programs.

- **Improved Power-Up Diagnostics:** If a test point is shorted to ground, the power-up diagnostics now provides identification of the shorted test point.

IMPORTANT NOTE:
Before updating your NX Testers to Release 7, please make sure that all programs are backed up. This upgrade will delete all programs stored on the tester.

Bug Fixes and Improvements

NX System Release 7 includes fixes for the following problems:

- In previous versions, the NX Tester would not properly Autolearn a wire harness containing diodes with spliced cathodes. This problem has been fixed in this release.
- In previous versions, the NX Tester would not always recognize the presence of a Supervisor Key or Operator Key when executing a User Interface cell that was configured to wait for the key to be present before continuing. If the key was already present, the operator had to remove the key, and then re-insert the key. Now, the NX Tester correctly senses the presence of the required key.
- In previous versions, the $SEC variable (represents seconds) did not have a leading ‘0’ when the value was less than 10. It now is padded with a leading 0 for the values 1-9.
- In previous versions, the NX Tester would not see a short between test points that are 8 points apart above test point 1-64.
- Several improvements to the NX Editor.