



Release Notes

NX System Release 4

April 22, 2005

Component Versions

NX System Release 4 consists of the following component versions:

- NX Editor Version: 1.0.5.77
- NX Tester Firmware Version: 2.0.67

Dependencies

- Test programs created with NX Editor Version 1.0.4.67 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 2.0.67 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 4 contains the following new features and enhancements:

- **Reporting:** NX Testers can provide a report of a completed wire harness test. The report can be directed to Dynalab's Report Printer or to a serial port. The report provides detailed data for each circuit tested in the wire harness.
- **Autolearn:** NX Testers are capable of learning from a known-good wire harness. Although Dynalab recommends use of the NX Editor to develop a test program, we recognize that many of our customers prefer to use a tester that "learns" a wire harness configuration. Dynalab offers the best of both approaches - the NX Tester can learn a configuration and the resulting program can be edited and enhanced using the NX Editor.
- **Enhanced Component Testing:** The NX System now allows the user to specify the forward voltage for testing a diode - this allows for greater flexibility in testing a wide range of diodes that may be part of a wire harness. Additionally, the NX System allows the user to specify parameters describing a "Generic" two-port component. This provides significant flexibility in testing a wide variety of wire harness components.
- **Data Import Wizard:** The NX System now provides a Wizard for data importation. Data can be imported from an external file or another Dynalab test program, including PASS programs for XL Series Testers.
- **Copy/Paste of Workflow Cells:** Individual workflow cells can be copied and pasted both within a single instance of the NX Editor and between multiple instances.
- **Duplication of Phases:** A new button has been added to the Phase pane of the connections view for the purpose of creating a new phase the same entries.
- **Fourth Line Display:** In the Test-Display Workflow Item, the 4th line option to display the part number (\$PRT) has been replaced with an option to display the value of a user-defined expression.



- **Default Thresholds:** In the Test-Display Workflow Item, the default threshold value for continuity and shorts testing have been changed to 1000 ohms.
- **New Time Variables:** Two new variables have been added: Timer Tick Count (\$T32) and Week of Year (\$WOY). Timer Tick Count represents the number of elapsed seconds since Jan 1, 1998. It is useful for calculating time intervals. Week of Year represents the week of the year as defined by the ISO 8601 standard
- **Monitor Green Button:** A new workflow item has been added – Monitor Green Button. This workflow item enables continuous monitoring of the Green button, and specifies where the cell to which the workflow jumps when the Green button is pressed.
- **One File Mode:** The NX Tester supports a One File Mode – in this mode only a single program file is stored in memory. This mode is selectable in the RESTRICTIONS menu.
- **NX Editor Splash Screen:** The NX Editor splash screen no longer appears automatically upon startup.
- **Expressions:** Any ASCII character value can be placed in a string literal by using the syntax $\$0nn$ where nn is the two-digit hexadecimal ASCII value of the character.
- **Firmware screen:** The INFO function has been added to the CONFIGURATION menu. This function displays all the firmware versions on the NX Tester.
- **Enhanced error information:** The NX Tester provides meaningful ERROR codes and messages that are documented in the NX Tester User's Guide.

IMPORTANT NOTE: Before updating your NX Testers to Release 4, please make sure that all programs are backed up. This upgrade will reformat the file system on the NX Tester, and all existing programs will be lost. After completing the upgrade, programs must be manually restored to the NX Testers.