

# D9010ETHC Ethernet Compliance Test Application Software

Keysight D9010ETHC Software Version 2.75.0.0

Release Date:	November, 2023
Operating System	Microsoft Windows 10
Minimum Instrument Software Version	11.50.00601 (UXR/UXR-B Series) 06.74.00402 (9000 Series, S-Series, 90000 Series, 90000 X -Series, 90000 Q-Series, Z-Series) 11.50.00601 (MXR Series) 11.50.00601 (EXR Series)
File Name:	SetupInfEthernetTest02750000.exe
License:	Please see the product data sheet on <a href="https://www.keysight.com">Keysight.com</a>

## Enhancement

- Improved 1000BT Template Mask Test time.

## Bug Fixes

- Fixed 100Base-T: Transmit Jitter Test reports incorrect value of Total UI Measured in the Test Report.
- Fixed 1000Base-T EEE: Quiet Time test result reported differently between Infiniium versions.

## Known Issues

- An error – “Please select at least one type of Ethernet speed.” will be thrown out while loading EEE speed-related saved projects.
- An unwanted “Â” symbol will appear when the results are represented in micro prefix after exporting to html single/multiple formats.

- For 10Base-T EEE: MAU Template test will show an error message when the auto mask alignment fails instead of requesting the user to take action.
- For 1000BT: Template Point H test will fail where the signal is not triggered by using Disturbing Signal Source 33612A and 33250A in the UXR scope.
- For 1000BT: Jitter with TXTCLK tests abort when Sample Rate is set more than 16GSa/s.
- For 1000BT: Transmit Distortion test will abort with Bandwidth Limit setting is set ON and #Avgs (TM4 Distortion Test) is set to 300, due to the memory depth is insufficient in the Infiniium.
  - o Workaround: This issue can be resolved by upgrading the memory option (72Mpts and above) that is available in the oscilloscope.
- For 100Base-T EEE: Transmitter Timing Jitter test is unable to generate results when there is a saving image error occurs intermittently.
- For 10BT and 10BT EEE: Jitter with/without TPM test, signal acquisition will get reset in every click on the Infiniium screen.

## Keysight D9010ETHC Software Version 2.74.1.0

Release Date:	March, 2023
Operating System	Microsoft Windows 10
Minimum Instrument Software Version	11.50.00401 (UXR/UXR-B Series) 06.73.00102 (9000 Series, S-Series, 90000 Series, 90000 X-Series, 90000 Q-Series, Z-Series) 11.50.00402 (MXR Series) 11.50.00402 (EXR Series)
File Name:	SetupInfEthernetTest02740001.exe
License:	Please see the product data sheet on Keysight.com

### New Feature

- Support UXR-B and MXR-B Series oscilloscope.

### Modification

- Update Keysight License Manager 5.

## Keysight D9010ETHC Software Version 2.74.0.0

Release Date:	February 10, 2023
Operating System	Microsoft Windows 10
Minimum Instrument Software Version	11.40.00202 (UXR Series) 06.73.00102 (9000 Series, S-Series, 90000 Series, 90000 X-Series, 90000 Q-Series, Z-Series) 11.40.00202 (MXR Series) 11.40.00202 (EXR Series)
File Name:	SetupInfEthernetTest02740000.exe
License:	Please see the product data sheet on Keysight.com

### New Features

- 1000Base-T: Added a new configuration setting Bandwidth Limit with a default value of OFF in the Configure tab which is used by Transmitter Distortion test. After the Bandwidth Limit setting has set to ON, bandwidth limit of 1GHz will be applied while running Transmitter Distortion test.

### Bug Fixes

- Fixed an issue where incorrect Start/Stop Frequency settings while running a group test of different return loss test from different data rates in a single run.
- Fixed an issue inconsistent sweep power setting across different Network Analyzers used for Return Loss tests.
- Fixed an MOI issue where the MDI Common Mode Output Voltage test mentioned that “this test does not use a high pass filter.” while applying a high pass filter during this test.
- For 10GBase-T EEE: Peak Differential Voltage test will get stuck intermittently while using the Legacy scope.
- For 1000BT-EEE: Wake Tests will abort as the Wake signal cannot be triggered.

### Known Issues

- An error – “Please select at least one type of Ethernet speed.” will be thrown out while loading EEE speed-related saved projects.
- An unwanted “Â” symbol will appear when the results are represented in micro prefix after exporting to html single/multiple formats.
- For 10Base-T EEE: MAU Template test will show an error message when the auto mask alignment fails instead of requesting the user to take action.

- For 100Base-T: Transmit Jitter Test report incorrect value of Total UI Measured in the Test Report.
- For 1000BT: Template Point H test will fail where the signal is not triggered by using Disturbing Signal Source 33612A and 33250A in the UXR scope.
- For 1000BT: Jitter with TXTCLK tests abort when Sample Rate is set more than 16GSa/s.
- For 1000BT: Transmit Distortion test will abort with Bandwidth Limit setting is set ON and #Aves(TM4 Distortion Test) is set to 300, due to the memory depth is insufficient in the Infiniium.
  - o Workaround: This issue can be resolved by upgrading the memory option (72Mpts and above) that is available in the oscilloscope.

## Keysight D9010ETHC Software Version 2.73.0.0

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Release Date:	July 22, 2022
Operating System	Microsoft Windows 7, Microsoft Windows 10
Minimum Instrument Software Version	11.30.00201 (UXR Series) 06.72.00301 (9000 Series, S-Series, 90000 Series, 90000 X-Series, 90000 Q-Series, Z-Series) 11.30.00201 (MXR Series)
File Name:	SetupInfEthernetTest02730000.exe
License:	Please see the product data sheet on Keysight.com

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**Note:** Application will pre-install Matlab Compiler Runtime 7.15 version into the system when Matlab Compiler Runtime 7.15 version is not installed.

### New Features

- 100Base-T: Added a new configuration setting with a default value of 80ns in the Configure tab which is used by Rise/Fall Time Pulse Width tests.
- Support for new VNAs, such as:
  - o E5080B
  - o E5063A

### Bug Fixes

- Fixed an issue where the 10Base-T Jitter without TPM was not running on channels 2, 3, and 4.
- Fixed an issue where the 100Base-T Transmitter Jitter test was not able to run in the Infiniium 6.72 version.
- Fixed an issue where the 100Base-T AOI Overall Rise/Fall symmetry test result was not consistent compared to the older versions of the application.
- Fixed an issue where the 1000Base-T EEE Refresh Time (Master) test was showing incorrect test limits.
- Fixed an issue where the 1000Base-T Template Tests reported an incorrect image.
- Fixed an issue where the 1000Base-T Template Point A test was aborted.
- Fixed the 10Base-T EEE Link Test Pulse test's error prompt while taking a screenshot.

- Fixed an issue where the Overall Test Result (Pass or Fail) in the HTML tab differs from the Overall Test Result exported to PDF file using the Export Results > PDF option.

## Known Issues

- An error – “Please select at least one type of Ethernet speed.” will be thrown out while loading EEE speed-related saved projects.
- An unwanted “Â” symbol will appear when the results are represented in micro prefix after exporting to html single/multiple formats.
- For 10Base-T EEE: MAU Template test will show an error message when the auto mask alignment fails instead of requesting the user to take action.
- For 10Base-T EEE: Peak Differential Voltage test will get stuck intermittently while using the Legacy scope.
- For 1000BT: Template Point H test will fail where the signal is not triggered by using Disturbing Signal Source 33612A and 33250A in the UXR scope.
- For 1000BT-EEE: Wake Tests will abort as the Wake signal cannot be triggered.

## Keysight D9010ETHC Software Version 2.72.0.0

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Release Date:	June 25, 2021
Operating System	Microsoft Windows 7
Minimum Instrument Software Version	11.10.00105 (UXR Series) 06.60.00802 (9000 Series, S-Series, 90000 Series, 90000 X-Series, 90000 Q-Series, Z-Series) 11.10.00105 (MXR Series)
File Name:	SetupInfEthernetTest02720000.exe
License:	Please see the product data sheet on <a href="https://www.keysight.com">Keysight.com</a>

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### Bug Fixes

- Fixed incorrect 10Base-Te Harmonic Content config.
- Fixed device information does not publish in test report issue.
- Fixed correction off issue when running return loss test.

### Known Issues

- An error – “Please select at least one type of Ethernet speed.” will be thrown while loading EEE speed related saved projects.
- An unwanted “Â” symbol will appear when the results are represented in micro prefix after exporting to html single/multiple formats.
- For 10GBase-T EEE: MAU Template test will show error message when the auto mask alignment fails instead of requesting user to take action.
- MXR Series: 1000GBase-T EEE: For Refresh WaketxTime tests will produce unable to generate result with value as infinity.

## Keysight D9010ETHC Software Version 2.71.1.0

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Release Date:	July 31, 2020
Operating System	Microsoft Windows 7
Minimum Instrument Software Version	10.20.00703 (UXR Series) 06.55.00702 (9000 Series, S-Series, 90000 Series, 90000 X-Series, 90000 Q-Series, Z-Series) 11.05.00514 (MXR Series)
File Name:	SetupInfEthernetTest02710001.exe
License:	Please see the product data sheet on <a href="https://www.keysight.com">Keysight.com</a>

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### New Features

- Support Myst

### Bug Fixes

- Fixed the issue does not wait the large average factor to complete using N99xx FieldFox Handheld RF analyzer.



## Keysight D9010ETHC Software Version 02.70.0000

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Release Date:	February 07, 2020
Operating System	Microsoft Windows 7
Minimum Instrument Software Version	10.12.05208 (UXR Series) 6.50.01004 (9000 Series, S-Series, 90000 Series, 90000 X-Series, 90000 Q-Series, Z-Series)
File Name:	SetupInfEthernetTest02700000.exe
License:	Please see the product data sheet on Keysight.com

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### New Features

- Support N99xx FieldFox Handheld RF analyzer.

### Bug Fixes

#### 100 Base-TX

- Fixed unable to differentiate between CDO and CD1 in TPL template test

#### 1000 Base-TX

- UXR Series: Fixed Incorrect Mask generated for 1000Base-T Template Point F
- VRex: Fixed 1000Base-T Peak Voltage tests abort.

### Known Issues:

- Incorrect trial number is shown if run with multiple trials.
- UXR series: Debug Test--> Refresh Waketx Time test gets aborted
- The app does not wait the large average factor to complete using N99xx FieldFox Handheld RF analyzer.

## Keysight D9010ETHC Software Version 02.62.0002

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Release Date:	September 19, 2019
Operating System	Microsoft Windows 7
Minimum Instrument Software Version	10.11.04711 (UXR Series) 6.40.01001 (9000 Series, S-Series, 90000 Series, 90000 X-Series, 90000 Q-Series, Z-Series)
File Name:	SetupInfEthernetTest02620002.exe
License:	Please see the product data sheet on <a href="http://Keysight.com">Keysight.com</a>

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### Bug Fixes

#### General

- Fixed 875x NA connection issue.

#### 100 Base-TX

- Fixed the UTP AOI Template test aborted issue when disturbing source was configured before executing the test.

#### 1000 Base-TX

- Fixed wrong trigger channel of the Jitter with TX-TCLK (Slave mode) tests.

## Keysight D9010ETHC Software Version 02.62.0000

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Release Date:	May 30, 2019
Operating System	Microsoft Windows 7
Minimum Instrument Software Version	10.10.04513 (UXR Series) 64.00.00806 (9000 Series, S-Series, 90000 Series, 90000 X-Series, 90000 Q-Series, Z-Series)
File Name:	SetupInfEthernetTest02620000.exe
License:	Please see the product data sheet on <a href="http://Keysight.com">Keysight.com</a>

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### Bug Fixes

#### General

- Set the maximum trials of run to 64.
- Fixed license issue.
- Allow user to set Average Factor for Return Loss test.

#### 1000 Base-T

- Fixed Common Mode Voltage Test connection diagram.
- Fixed the formula to calculate difference A,B in peak output voltage.

### Known Issues

- There is no license found message when user clicks on Tools>Infiniium>InfiniSim or Precision Prob if InfiniSim & Precision Prob are unavailable in the scope.
- UXR Series: Incorrect Mask generated for 1000Base-T Template Point F
- UXR Series: ADC clipping message is shown for certain Ethernet speed.

## Keysight N5392B/N5392C Software Version 02.61.0000

Release Date:	October 26, 2018
Operating System:	Microsoft Windows 7
Minimum Instrument Software Version:	10.00.03801 (UXR Series) 6.30.00609 (9000 Series, S-Series, 90000 Series, 90000 X-Series, 90000 Q-Series, Z-Series)
File Name:	SetupInfEthernetTest02610000.exe
License:	Please see the product data sheet on <a href="http://Keysight.com">Keysight.com</a>

### New Features

- Supports Infiniium Oscilloscope Software version 10.00.03801 for UXR-Series Oscilloscope.

### Bug Fixes

#### 1000 Base-T

- Fixed 81150A/33612A calibration abort issue.

## Keysight N5392B/N5392C Software Version 02.60.0000

Release Date:	October 8, 2018
Operating System:	Microsoft Windows 7
Minimum Instrument Software Version:	6.30.00609 (9000 Series, S-Series, 90000 Series, 90000 X-Series, 90000 Q-Series, Z-Series)
File Name:	SetupInfEthernetTest02600000.exe
License:	Please see the product data sheet on <a href="http://Keysight.com">Keysight.com</a>

## New Features

- Added support for Infiniium Oscilloscope Software version 6.30.
- Support Cygnet.

## Keysight N5392B/N5392C Software Version 02.50.0000

Release Date:	March 29, 2017
Operating System:	Microsoft Windows 7
Minimum Instrument Software Version:	6.00 (9000 Series, S-Series, 90000 Series, 90000 X-Series, 90000 Q-Series, Z-Series)
File Name:	SetupInfEthernetTest02500000.exe
License:	Please see the product data sheet on Keysight.com

### New Features

- Added support for Infiniium Oscilloscope Software version 6.00.

### Enhancements

- Exposed number of average for Peak A, B tests.
- 81180A is supported as disturbing source in Ethernet Application.

### Bug Fixes

#### General

- Changed AWG brands from Agilent to Keysight.

#### 10 Base-T

- Fixed measurement issue with 10M TP\_IDL when using Mask align 'Automatic'.
- Fixed slow mask align issue with 10Base-T Link Test Pulse, with TPM test.
- Fixed timeout issue with 10Base-T Link Test Pulse, with TPM test.
- Fixed Master Jitter diagram is incorrect for pair D connection.
- Fixed 10Base-T Harmonic test without TPM running into triggering issues.

#### 100 Base-TX

- Fixed measurement issue with 100BaseT Template tests.

## Keysight N5392B/N5392C Software Version 02.44.0000

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Release Date:	December 14, 2015
Operating System:	Microsoft Windows 7
Minimum Instrument Software Version:	5.00 (9000 Series, S-Series, 90000 Series, 90000 X-Series, 90000 Q-Series, Z-Series)
File Name:	SetupInfEthernetTest02440000.exe
License:	Please see the product data sheet on Keysight.com

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## New Features

### 1000 Base-T

- Added support for 33600 series function generator to act as a disturbing signal source.

## Enhancements

### 10 Base-T

- Harmonic test now supports testing using continuous all ones data signal or data packets with no headers.

## Bug Fixes

### General

- Fixed random failure of tests that was caused by features not being turned on correctly.
- Fixed an issue that was causing permutation order of tests to be computed incorrectly.
- Fixed bandwidth limiting not working on 9k scopes. Will require updating baseline. Min version 5.51.

### 1000 Base-T

- Fixed problem that was causing peak measurements to provide wrong results when offset removal was applied.
- Updated recommended connection setup for Master TX\_TCLK jitter (filtered and unfiltered) test. The connection no longer recommends using a jitter test channel.

### 100 Base-TX

- Fixed issue where AOI templates is failing on 9k scopes.

## Keysight N5392B/N5392C Software Version 02.43.0000

Release Date:	April 17, 2015
Operating System:	Microsoft Windows 7
Minimum Instrument Software Version:	4.60 (9000 Series, S-Series, 90000 Series, 90000 X-Series, 90000 Q-Series, Z-Series)
File Name:	SetupInfEthernetTest02430000.exe
License:	Please see the product data sheet on <a href="http://Keysight.com">Keysight.com</a>

### Enhancement

#### General

- Added support for Infiniium Oscilloscope Software version 5.50.

### Bug Fix

#### 1000 Base-T

- Fixed “Index out of range” error that occurs when all 1000 Base-T jitter tests are selected.



## Agilent N5392B/N5392C Software Version 02.42.0000

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Release Date:	October 22, 2014
Operating System:	Microsoft Windows 7
Minimum Instrument Software Version:	4.60 (9000 Series, S-Series, 90000 Series, 90000 X-Series, 90000 Q-Series, Z-Series)
File Name:	SetupInfEthernetTest02420000.exe
License:	Please see the product data sheet on Keysight.com

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## New Feature

**10 Base-T**

- Added bandwidth limiting to TP\_IDL and LTP tests.

## Enhancements

**10 Base-T**

- Changed TP\_IDL and LTP test permutation order.
- Increased the default trigger level for LTP.

## Bug Fixes

**1000 Base-T**

- Fixed disturbing signal tests not prompting pair change.
- Can continue with Common Mode test even if scope does not detect a valid signal.

**100 Base-TX**

- Fixed issue with rise/fall time tests not running.
- Fixed bottom eye not showing in EEE jitter test.

## Agilent N5392B/N5392C Software Version 02.41.0000

Release Date:	June 26, 2014
Operating System:	Microsoft Windows 7
Minimum Instrument Software Version:	4.60 (9000 Series, S-Series, 90000 Series, 90000 X-Series, 90000 Q-Series, Z-Series)
File Name:	SetupInfEthernetTest02410000.exe
License:	Please see the product data sheet on Keysight.com

### Bug Fix

#### General

- Fixed errors on Z-series scope.

## Agilent N5392B/N5392C Software Version 02.40.0000

Release Date:	June 04, 2014
Operating System:	Microsoft Windows 7
Minimum Instrument Software Version:	4.60 (9000 Series, S-Series, 90000 Series, 90000 X-Series, 90000 Q-Series, Z-Series)
File Name:	SetupInfEthernetTest02400000.exe
License:	Please see the product data sheet on Keysight.com

### Enhancements

#### General

- Supports for Infiniium Oscilloscope Software version 5.00.

## Agilent N5392B Software Version 02.30.0000

Release Date:	April 25, 2014
Operating System:	Microsoft Windows XP, Microsoft Windows 7
Minimum Instrument Software Version:	3.00 (9000 Series, S-Series, 90000 Series, 90000 X-Series, 90000 Q-Series, Z-Series)
File Name:	SetupInfEthernetTest02300000.exe
License:	Please see the product data sheet on Keysight.com

### New Features

#### 1000 Base-T

- Added offset removal for peak measurements.
- Added auto scaling to Peak A/Peak B measurements.
- Added support for droop G/J tests to measure peaks that exceed 1V.

#### 10 Base-T

- Added reporting of peak-to-peak jitter in 10BT jitter tests.

### Bug Fixes

#### 1000 Base-T

- Fixed "worst" tag showing on test results that are for information only.

**Note:** This will be the last version to support Infiniium Oscilloscope Baseline Version 4.20.

## Agilent N5392B Software Version 02.21.0000

Release Date:	July 04, 2013
Operating System:	Microsoft Windows XP, Microsoft Windows 7
Minimum Instrument Software Version:	5.71 (54830, 54850, 8000 and 80000 Series), 3.00 (9000 Series, S-Series, 90000 Series, 90000 X-Series, 90000 Q-Series)
File Name:	SetupInfEthernetTest02210000.exe
License:	Please see the product data sheet on Keysight.com

### New Feature

#### General

- Added support for automatic calibration of disturbing signal for 81150A.

### Bug Fix

#### 1000 Base-T

- Fixed jitter histogram not showing on report.

## Agilent N5392B Software Version 02.20.0000

Release Date:	July 04, 2013
Operating System:	Microsoft Windows XP, Microsoft Windows 7
Minimum Instrument Software Version:	5.71 (54830, 54850, 8000 and 80000 Series), 3.00 (9000 Series, S-Series, 90000 Series, 90000 X-Series, 90000 Q-Series)
File Name:	SetupInfEthernetTest02200000.exe
License:	Please see the product data sheet on Keysight.com

### New Feature

#### General

- Added EEE tests.

### Enhancements

#### 100 Base-TX

- Improved performance of AOI template test.

#### 10 Base-T

- Split the 10Base-T TP\_IDL test to two tests to support 2 TP\_IDL lengths.

## Agilent N5392A Software Version 02.19.0000

Release Date:	September 04, 2012
Operating System:	Microsoft Windows XP, Microsoft Windows 7
Minimum Instrument Software Version:	5.71 (54830, 54850, 8000 and 80000 Series), 3.00 (9000 Series, S-Series, 90000 Series, 90000 X-Series)
File Name:	SetupInfEthernetTest02190000.exe
License:	Please see the product data sheet on Keysight.com

### New Feature

#### General

- Added option to manually align mask when mask test fails.

### Enhancements

#### 100 Base-TX

- Changed AOI template test to single pass.

#### 10 Base-T

- Enabled color grade on MAU template.

### Bug Fixes

#### General

- Fixed trial deletion issue.
- Fixed mask test failing when channel 2-4 is used.

## Agilent N5392A Software Version 02.18.0001

Release Date:	April 26, 2012
Operating System:	Microsoft Windows XP, Microsoft Windows 7
Minimum Instrument Software Version:	5.71 (54830, 54850, 8000 and 80000 Series), 3.00 (9000 Series, S-Series, 90000 Series, 90000 X-Series)
File Name:	SetupInfEthernetTest02180001.exe
License:	Please see the product data sheet on Keysight.com

### New Feature

#### 10 Base-T

- Added option to increase vertical range for the second part (End) of TP\_IDL mask test.

### Enhancement

#### 10 Base-T

- Modified triggering for the TP\_IDL template test.

### Bug Fixes

#### General

- Fixed “unable to find entry point” in returnloss.dll error.

#### 1000 Base-T

- Fixed template-H better vertical alignment.
- Fixed calibration of function generators (disturbing signal) for 80k scopes.
- Fixed mask not appearing in non-disturbing signal template test in new baseline (>=3.22.0004).

#### 10 Base-T

- Fixed “object reference not set to an instance” error when loading a project with 10 Base-T Harmonic Content test result.
- Fixed 10BT Harmonic Content test for the case when selecting 0 harmonic averages.

- Fixed double waveforms appearing in TP\_IDL mask tests.
- Fixed infinite loop in Harmonic Content test when using non-periodic waveform.
- Fixed TP\_IDL mask test with TPM.
- Fixed Harmonic Content test acquiring wrong result.

## Agilent N5392A Software Version 02.17.0000

Release Date:	October 01, 2011
Operating System:	Microsoft Windows XP, Microsoft Windows 7
Minimum Instrument Software Version:	5.71 (54830, 54850, 8000 and 80000 Series), 3.00 (9000 Series, S-Series, 90000 Series, 90000 X-Series)
File Name:	SetupInfEthernetTest02170000.exe
License:	Please see the product data sheet on Keysight.com

## New Features

### General

- Added support for Windows 7.

### 10 Base-T

- Added support for various burst gap length in harmonic tests.

## Enhancements

### General

- Better support for connection to network analyzer for return loss tests.

### 10 Base-T

- Better support for 8000 and 9000 series triggering.
- Better support for all channels other than channel 1 in jitter tests.



## Agilent N5392A Software Version 02.16.0000

Release Date:	April 22, 2011
Operating System:	Microsoft Windows XP
Minimum Instrument Software Version:	5.70 (54830, 54850, 8000 and 80000 Series), 3.00 (9000 Series, S-Series, 90000 Series, 90000 X-Series)
File Name:	SetupInfEthernetTest02160000.exe
License:	Please see the product data sheet on Keysight.com

## New Features

### General

- Added MSO8000 Series as one of the supported oscilloscopes.
- Added Jitter Test without TX\_TCLK to suit for DUT which does not provide access to TX\_TCLK.

### 1000 Base-T

- Added more accurate trigger method (Glitch Trigger) for Point H.

## Enhancements

### 1000 Base-T

- Changed template mask alignment method.
- Updated new formula for difference between Point A and Point B which is:

$$100 * \frac{\text{abs}(|\text{PeakA}| - |\text{PeakB}|)}{\frac{|\text{PeakA}| + |\text{PeakB}|}{2}}$$

- Displayed pair used on the captured images.

### 100 Base-TX

- Automated the amount of memory depth required for template test.
- Added 1 more zone region in Duty Cycle Distortion to enhance the test to search for a valid waveform.

### 10 Base-T

- Changed the way to capture a valid waveform for Harmonic Content Test.
- Altered Mask Y2 scale for MAU template test to prevent signal clipped off.

- Modified the triggering method for TP\_IDL template test.

**Note:** When you open legacy projects created by older versions of this application, they will be loaded read-only mode and you will not be able to append new results to them. Versions that will be affected are from Version 02.15 and below.

## Agilent N5392A Software Version 02.15.0000

Release Date:	October 01, 2010
Operating System:	Microsoft Windows XP
Minimum Instrument Software Version:	5.70 (80000 Series), 2.00 (9000 Series, 90000 Series) 3.00 (90000 X-Series)
File Name:	SetupInfEthernetTest02150000.exe
License:	Please see the product data sheet on Keysight.com

## New Features

### General

- Added support for 90000X series. Will require Microsoft .Net Framework 3.5.

### 1000 Base-T

- Added more value for Point H trigger level configuration to suite for different DUT.
- Added Test Mode 1 Trigger Hold Off configuration to suit for different DUT.
- Added Number of Segment for disturbing signal removal configuration to let user can fine tune disturbing signal removal algorithm.

## Enhancements

### 1000 Base-T

- Changed template for B, D and H. Mask coordinates are flipped rather than using the scale to flip.
- Updated the reference to IEEE 802.3-2008.
- Changed TestMode4 Distortion test where all phases will be analyze but 0.6UI phase will be used for determining pass fail. This is based on IEEE 802.3-2008.
- Updated connection diagram.

## 100 Base-TX

- Change trigger for Transmitter Jitter and Duty Cycle Distortion tests to accommodate more pseudo random patterns.

## Agilent N5392A Software Version 02.14.0000

Release Date:	June 29, 2009
Operating System:	Microsoft Windows XP
Minimum Instrument Software Version:	5.70 (80000 Series), 1.40 (90000 Series) 2.00 (9000 Series)
File Name:	SetupInfEthernetTest0214.exe
License:	Please see the product data sheet on Keysight.com

## New Features

### General

- Supports different languages in Windows Operating System.

### 1000 Base-T

- Added the selection option in the configure tab to either use baseline high pass filter or user defined high pass filter Without Disturbing Signal tests.

## Enhancements

### 1000 Base-T

- Removed the cal file requirement in using non-33250A waveform generator.

## Bug Fixes

### General

- Fixed the mask align function of the 1000Base-T template tests.
- Fixed the missing configuration details after comments are added.

## 10 Base-T

- Fixed the Return Loss measurement to meet the specification – 85, 100 and 111 ohms.
- Repaired the graph plotting feature of the Return Loss VNA file tests.
- Fixed the incorrect instructions of 10BASE-T Return Loss tests in the manual.

## Agilent N5392A Software Version 02.12

Release Date:	July 04, 2013
Operating System:	Microsoft Windows XP
Minimum Instrument Software Version:	5.50 (80000 Series), 1.21 (90000 Series)
File Name:	SetupInfEthernetTest0212.exe
License:	Please see the product data sheet on Keysight.com

## New Features

### General

- Added bandwidth reduction option for 1000 Base-T and 100 Base-T tests.

### 1000 Base-T

- Added the calibration checking for TM1 and TM4 tests.

### 100 Base-TX

- Added the ground reference measurement option for the Peak Voltage tests.
- Added scaling value selection for the UTP AOI Template test.

### 10 Base-T

- Added the measurement point option for the Jitter test.

## Enhancements

### 100 Base-TX

- Used the eye folding and clock recovery function for the template test.

### 100 Base-TX

- Modified the trigger mode from Auto to Triggered for the Link Test Pulse tests.

## Bug Fixes

### General

- Fixed the mask align function for the template tests (1000 Base-T and 10 Base-T).
- Fixed the View Waveform function in the connection diagram windows.
- Fixed the graph plotting feature of the return loss tests.

### 1000 Base-T

- Fixed the error message that occurs due to low memory depth (8000/54830 oscilloscope).

## Agilent N5392A Software Version 02.11

Release Date:	Feb 05, 2008
Operating System:	Microsoft Windows XP
Minimum Instrument Software Version:	5.20 (80000 Series), 1.00 (90000 Series)
File Name:	SetupInfEthernet0211.exe
License:	Please see the product data sheet on Keysight.com

## New Feature

### General

- Supports UDF function tests in the Infiniium 90000 Series High Performance Oscilloscope.

## Agilent N5392A Software Version 02.10

Release Date:	Jan 10, 2008
Operating System:	Microsoft Windows XP
Minimum Instrument Software Version:	5.20 (80000 Series), 1.00 (90000 Series)
File Name:	SetupInfEthernet0210.exe
License:	Please see the product data sheet on Keysight.com

## New Features

### General

- Supports the Remote Interface Control.
- Supports the Infiniium 90000 Series High Performance Oscilloscope.
- Supports the Multi-trial testing.

## Enhancements

### General

- Support deep memory up to 10M for the Test Mode 4 Signal Tests.

## Agilent N5392A Software Version 02.01

Release Date:	June 28, 2007
Operating System:	Microsoft Windows XP
Minimum Instrument Software Version:	5.20
File Name:	SetupInfEthernetTest0201.exe
License:	Please see the product data sheet on Keysight.com

## Bug Fixes

### General

- Moved the memory checking from the Ethernet test application startup to the start of a test.
- Fixed communication problem between the application and the function generators used as the disturbing signal source.

### 1000 Base-T

- Modified trigger level for the TM1 Template test point F and Droop test point G.
- Modified the TM4 Signal Tests (with Disturbing signal) averaging from “No Averaging” to “150” by default.
- Modified the signal display scaling for the TM1 Droop tests to get an accurate measurement.

## Agilent N5392A Software Version 02.00

Release Date:	April 30, 2006
Operating System:	Microsoft Windows XP
Minimum Instrument Software Version:	5.20
File Name:	SetupInfEthernetTest0200.exe
License:	Please see the product data sheet on Keysight.com

### New Features

#### 1000 Base-T

- Added the TestMode1 tests with disturbing signal.
- Added the TestMode4 tests with and without disturbing signal.
- Added the MDI Return Loss tests.

#### 100 Base-TX

- Added the Transmitter/Receiver Return Loss tests.

#### 10 Base-T

- Added the Transmitter/Receiver Return Loss tests.

### Enhancements

#### General

- Modified the connection diagrams to reflect the new test fixture.

#### 1000 Base-T

- Modified the jitter test histogram plotting.

#### 10 Base-T

- Modified the range for Link Test Pulse trigger to >35ns and <130ns.

## Agilent N5392A Software Version 01.02

Release Date:	Jan 31, 2006
Operating System:	Microsoft Windows XP
Minimum Instrument Software Version:	3.50
File Name:	SetupInfEthernetTest0102.exe
License:	Please see the product data sheet on Keysight.com

### New Features

#### 100 Base-TX

- Added overall Rise/Fall Symmetry measurement to cover the symmetry across +/-Vout.

#### 10 Base-T

- 10BT Jitter Improvements: Added packet block analysis which allows us to deal with arbitrary packet payloads.

### Enhancements

#### General

- Remove deprecated use of \*IDN? for options (4.90 Scope SW), in favor of new \*OPT? query.
- Use HIGH sensitivity trigger for the high performance oscilloscopes, to improve the trigger robustness.

#### 100 Base-TX

- Rise/Falltime: Improved the Trigger flexibility (support more cases).
- Changed +/-Vout and Rise/Fall default # averages to 256.

#### 10 Base-T

- Changed 10BT LTP Mask Scaling to further reduce the quantization error.
- IDL mask: Increased mask align search radius to accommodate marginal signals.



## Bug Fixes

### 100 Base-TX

- Corrected documentation error for the connection with link partner (should use fixture 6 and not 7).
- +/- Vout Meas: Changed scale to 300mV/div to fit the signal onscreen.

## Agilent N5392A Software Version 01.01

Release Date:	Mar 18, 2005
Operating System:	Microsoft Windows XP
Minimum Instrument Software Version:	3.50
File Name:	SetupInfEthernetTest0101.exe
License:	Please see the product data sheet on Keysight.com

## New Features

### General

- Adds Support for Infiniium 80000 Series High Performance Oscilloscopes.

### 1000 Base-T

- Added user-configurable control over channel used for Link Partner Data.
- Added user-configurable sample rate selection for jitter tests.

### 100 Base-TX

- Allow User-specification of the pattern used for DCD tests. Note that this test can be (and is by default) performed on 100 Base-TX Random Data. The software will find the required pattern in the random data signal. However, if the users wish, they may specify the 010101 pattern. In this case, the scope will prompt the user to make the DUT configuration change.

### 10 Base-T

- Added better Auto-Triggering capability for the Jitter tests. This allows the user to run jitter tests on any consistently sized random-data packets.
- Allow user-configurable amount of trigger-holdoff for the manual trigger method for jitter tests (This is a feature for advanced users).
- Allow users to specify the Start/End or Both (default) for the TP\_IDL and LTP template tests.

## Enhancements

### General

- Improved usability of Connection Dialog, making it more intuitive how to continue forward.
- Load Splash screen earlier to provide more feedback during the loading process.

### 1000 Base-T

- Improved support for the multi-channel measurements using 2-channel oscilloscopes.
- Modified the Default (user configurable) Channel assignments for jitter measurements to make better use of 2 or 4 channels, depending on the number of channels available.

### 100 Base-TX

- Relaxed Trigger conditions to accommodate a wider range of signals for various tests. Note that all tests can be performed on the 100Base-TX Random data.
- Changed Test Grouping to reduce depth of the Tree.
- Include alternate connectivity instructions using fixture 6 with a link-partner.

### 10 Base-T

- Improved Algorithms for more practical TP\_IDL tests.
- Isolates Pulse of the same pulse-width so that average can be used.
- Set Default amount of averaging to 512.
- Changed default MAU Type to "Integrated".
- Provide user-configurable control over the min/max scaling used for the MAU Template Tests
- Changed Default Number of Averages for the LTP/TP\_IDL tests to 512.
- Widened acceptable trigger range for TP\_IDL signal to accommodate for the full range of the spec.
- Use math magnify function to expand signal further and improve template testing precision, reducing pixel quantization error.

## Bug Fixes

### General

- Workaround for the problem with WindowsXP Compressed Folders Utility. This Utility is unable to handle "," character in the filenames. Therefore, opening a compressed project folder on a Windows XP computer would not extract/show these files. We no longer use "," character in the filenames generated by the application.

- Fixed view synchronization problem between the Test Tree selection view and Results List view.

## 10 Base-T

- Fixed some typographical errors in the Connection Instructions.
- Fixed the issue with the 10BT Common Mode measurement -- negative CMV < -50mV now FAIL as required by the specification.

## Agilent N5392A Software Version 01.00

Release Date:	Oct 08, 2004
Operating System:	Microsoft Windows XP
Minimum Instrument Software Version:	3.50
File Name:	SetupInfEthernetTest0100.exe
License:	Please see the product data sheet on Keysight.com

## Initial Release