

D90100NFC ONFI Compliance Test Application Software

Keysight D90100NFC Software Version 01.30.6.0

Release Date:	April, 2023
Requirements Category (e.g., operating system):	Microsoft Windows 10
Requirements Category (e.g., instrument software version):	06.74.00402 (90000 Series, 90000 X-Series, 90000 Q-Series, Z-Series, S-Series, V-Series), 11.50.00601 (UXR-Series, UXR-B Series)
File Name:	SetupInfONFI01300006.exe
License:	Please see the product data sheet on Keysight.com

New Features

- Supports UXR-B Series oscilloscope.

Modification

- Update Keysight License Manager 5.

Keysight D90100NFC Software Version 01.30.0.0

Release Date:	October, 2021
Requirements category (e.g., operating system):	Microsoft Windows 7, Microsoft Windows 10
Requirements category (e.g., minimum instrument software version):	06.55.00504 (90000 Series, 90000 X-Series, 90000 Q-Series, Z-Series, S-Series, V-Series), 10.20.00501 (UXR-Series)
File Name:	SetupInfONFI01300000.exe
License:	Please see the product data sheet on Keysight.com

New Features

- Add algorithm to search first edge after preamble with a config value instead of hardcoded value.
- Update test limit according ONFI 4.2 specification.

Defect fixes

- Fixed issue where VSEH(AC) tests using VCC instead of VCCQ.
- Fixed issue where the 'No. of Measurements' display with wrong unit.
- Fixed issue where the Read Eye Diagram will produce invalid Eye Height.
- Fixed issue where the Timing Mode does not get update properly.
- Fixed issue where the VOX RE Test did not produce correct result and screenshot.
- Fixed issue where the VIX for Strobe test aborted with error ":WMEMory1:DISPLAY ON Error: 41".
- Fixed issue where the App aborted test runs during Automation, whenever the user suppressed those message prompts, which required manual input.

Known Defects/Missing Features

- tDBS_Compliance reported value does not match with the Worst value when NVDDR2 is selected.
 - o Workaround—Use Worst value instead of tDBS_Compliance value.
- During NVDDR3 test mode, project loading does not show selected tests at Select Test

tab.

- Workaround - Select Tests Tab-> Right Click -> Uncheck All -> Select the intended test to run

Keysight D90100NFC Software Version 01.20.3.0

Release Date:	March, 2020
Requirements category (e.g., operating system):	Microsoft Windows 7, Microsoft Windows 10
Requirements category (e.g., minimum instrument software version):	06.55.00504 (90000 Series, 90000 X-Series, 90000 Q-Series, Z-Series, S-Series, V-Series), 10.20.00501 (UXR-Series)
File Name:	SetupInfONFI01200003.exe
License:	Please see the product data sheet on Keysight.com

New Features

- Added support for Single-Ended Data Strobe (DQS) signal for existing tests that utilize Differential Data Strobe (DQS) signal.

Defect fixes

- Fixed issue where the WFM file was not loading into the App for test runs using Automation.
- Fixed issue where the App aborted test runs during Automation, whenever the user suppressed those message prompts, which required manual input.

Known Defects/Missing Features

- Reference markers for tDQSH, tDQSL, tDS_tight, tDS_relaxed, tDH_tight, tDH_relaxed and tDSC(abs) are modified internally, if these tests are run along with VIH(AC) for DQ test.
 - o Workaround—Skip 'VIH(AC) for DQ' test when running the mentioned tests.
- Intermittent error “windows script host permission denied” pops-up during software installation.
 - o Workaround—Abort installation process and reinstall the software.

Keysight D90100NFC Software Version 01.20.1.0

Release Date:	January, 2020
Requirements category (e.g., operating system):	Microsoft Windows 7, Microsoft Windows 10
Requirements category (e.g., minimum instrument software version):	06.40.01101 (90000 Series, 90000 X-Series, 90000 Q-Series, Z-Series, S-Series, V-Series), 10.11.04711 (UXR-Series)
File Name:	SetupInfONFI01200001.exe
License:	Please see the product data sheet on Keysight.com

Defect fixes

- Fixed issue regarding the WFM file loading failure observed when using new WFM format from the Infiniium baseline version 10.20 and above.

Keysight D9010ONFC Software Version 01.20.0000

Release Date:	October, 2019
Requirements category (e.g., operating system):	Microsoft Windows 7, Microsoft Windows 10
Requirements category (e.g., minimum instrument software version):	06.40.01101 (90000 Series, 90000 X-Series, 90000 Q-Series, Z-Series, S-Series, V-Series), 10.11.04711 (UXR-Series)
File Name:	SetupInfONFI01200000.exe
License:	Please see the product data sheet on Keysight.com

Miscellaneous Notes

- Updated the product number from “N6474A” to “D9010ONFC” to support PPKS licenses.

New Features

- Supports Single-Ended Read Enable (RE) signal for existing tests that utilize Differential Read Enable (RE) signal.
- Supports new Read Enable Electrical test: VOX for RE.
- Supports new Command Latch Enable (CLE) timing test: tCSD_CLE.

Known Defects/Missing Features

- Unable to process waveform files saved in *.h5 format (user will have to manually convert *.h5 waveform files into *.wfm waveform files as a workaround).
- Tests availability not updated according to the previous entered saved waveform files in Offline mode when switching between NVDDR2 and NVDDR3 data interfaces. (user will have to launch Saved Waveform Setup and close it to update the tests availability correctly).
- Intermittent inconsistent Eye Diagram Eye Height measurements. (Rerun the test as a workaround).
- Intermittent invalid waveform file data for VOX for RE test. (Rerun the test as a workaround).

Modifications

- Fixed intermittent unable to find area in Overshoot/Undershoot tests.
- Fixed intermittent incorrect placement of measurement markers for tDQSH and tDQSL tests.
- Fixed intermittent incorrect vertical scale for tRC(avg), tRC(abs), tREH(abs), tRP(abs) tests.
- Redefined Timing Mode categorization with respect to Speed Grade.

Keysight N6474A Software Version 01.10.0000

Release Date:	June, 2018
Requirements category (e.g., operating system):	Microsoft Windows 7
Requirements category (e.g., minimum instrument software version):	06.20.00803 (90000 Series, 90000 X-Series, 90000 Q-Series, Z-Series, S-Series, V-Series), 06.20.00803 (9000 Series)
File Name:	SetupInfONFI01100000.exe
License:	Please see the product data sheet on Keysight.com

New Features

- Added support for NV-DDR3 data interface.

Known Defects/Missing Features

- Unable to process waveforms files saved in *.h5 format (user will have to manually convert *.h5 waveform files into *.wfm waveform files as a workaround).
- Tests availability not updated according to the previous entered saved waveforms files in Offline mode when switching between NVDDR2 and NVDDR3 data interfaces. (user will have to launch Saved Waveform Setup and close it to update the tests availability correctly).
- Intermittent incorrect placement of measurement markers for tDQSH and tDQSL tests (Rerun the test as a workaround).
- Intermittent unable to find area in Overshoot/Undershoot tests (Rerun the test as a workaround).
- Intermittent incorrect vertical scale for tRC (avg), tRC (abs), tREH (abs), tRP (abs) tests (Rerun the test as a workaround).

Modifications

- Added new tests:
 - o Write Timing Tests:
tDIPW, tDBS-Write, tCS-Write
 - o Read Timing Tests:
tCR, tDBS-Read, tCS-Read

- Command and Address Timing Tests:
tCSD, tCALS_CLE, tCALS_ALE, tCALH_CLE, tCALH_ALE, tCS, tCH, tCAS, tCAH, tWP
- Electrical Single Ended Overshoot Tests:
ALE Overshoot Amplitude, ALE Overshoot Area, ALE Undershoot Amplitude, ALE Undershoot Area, CLE Overshoot Amplitude, CLE Overshoot Area, CLE Undershoot Amplitude, CLE Undershoot Area, WE Overshoot Amplitude, WE Overshoot Area, WE Undershoot Amplitude, WE Undershoot Area
- Fixed typo in tQSH test pass limit.

Keysight N6474A Software Version 01.00.0000

Release Date:	February, 2018
Requirements category (e.g., operating system):	Microsoft Windows 7
Requirements category (e.g., minimum instrument software version):	06.10.01001 (90000 Series, 90000 X-Series, 90000 Q-Series, Z-Series, S-Series, V-Series), 06.10.01001 (9000 Series)
File Name:	SetupInfONFI01000000.exe
License:	Please see the product data sheet on Keysight.com

Initial Release

Known Defects/Missing Features

- Typo in tQSH test pass limit.
- Unable to process waveforms files saved in *.h5 format (user will have to manually convert *.h5 waveform files into *.wfm waveform files as a workaround).