Keysight D3000NFCA/D4000NFCA NFC InfiniiVision Compliance Application Software Release Notes

Keysight D3000NFCA/D4000NFCA Software Version 1.30.1

Released Date:	8 September 2021
Requirements category	Microsoft Windows 7, Microsoft Window 10
Requirements category	1. 3000T X-Series oscilloscope with the "DSOXT3NFC or D3000NFCA" license OR 4000 X-Series oscilloscope with the "DSOX4NFC or D4000NFCA" license. 2. Keysight I/O Libraries version 17.2 or greater. 3. Keysight Host Processor Platform 5.2.25313.11426. (included in NFC Test Application install package, requires .NET Framework 4.6). 4. Keysight License Service 5.1.20822.10730 (included in NFC Test Application install package). 5. Keysight License Manager 5.3 (included in NFC Test Application install package). 6. .NET Framework 4.5.2. (included in NFC Test Application install package). 7. MATLAB Compiler Runtime 9.1. (included in NFC Test Application install package). 8. NFC Test Application software.
File Name:	SetupInfNFC01300001.exe

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Miscellaneous Notes

- Fixed installation issue on version 1.30.0000.

Keysight D3000NFCA/D4000NFCA Software Version 1.30.0

Released Date:	24 MAR 2021
Requirements category	Microsoft Windows 7, Microsoft Window 10
Requirements category	9. 3000T X-Series oscilloscope with the "DSOXT3NFC or D3000NFCA" license OR 4000 X-Series oscilloscope with the "DSOX4NFC or D4000NFCA" license.
	10. Keysight I/O Libraries version 17.2 or greater.
	11. Keysight Host Processor Platform 5.2.25313.11426. (included in NFC Test Application install package, requires .NET Framework 4.6).
	12. Keysight License Service 5.1.20822.10730 (included in NFC Test Application install package).
	13. Keysight License Manager 5.3 (included in NFC Test Application install package).
	14. .NET Framework 4.5.2. (included in NFC Test Application install package).
	15. MATLAB Compiler Runtime 9.1. (included in NFC Test Application install package).
	16. NFC Test Application software.
File Name:	SetupInfNFC01300000.exe

Miscellaneous Notes

- NA

Keysight D3000NFCA/D4000NFCA Software Version 1.20.0

Released Date:	19 OCT 2020
Requirements category	Microsoft Windows 7, Microsoft Window 10
Requirements category	17. 3000T X-Series oscilloscope with the "DSOXT3NFC or D3000NFCA" license OR 4000 X-Series oscilloscope with the "DSOX4NFC or D4000NFCA" license.
	18. Keysight I/O Libraries version 17.2 or greater.
	19. Keysight Host Processor Platform 5.2.25313.11426. (included in NFC Test Application install package, requires .NET

Framework 4.6).

20. Keysight License Service 5.1.20822.10730 (included in NFC Test Application install package).

21. Keysight License Manager 5.3 (included in NFC Test Application install package).

22. .NET Framework 4.5.2. (included in NFC Test Application install package).

23. MATLAB Compiler Runtime 9.1. (included in NFC Test Application install package).
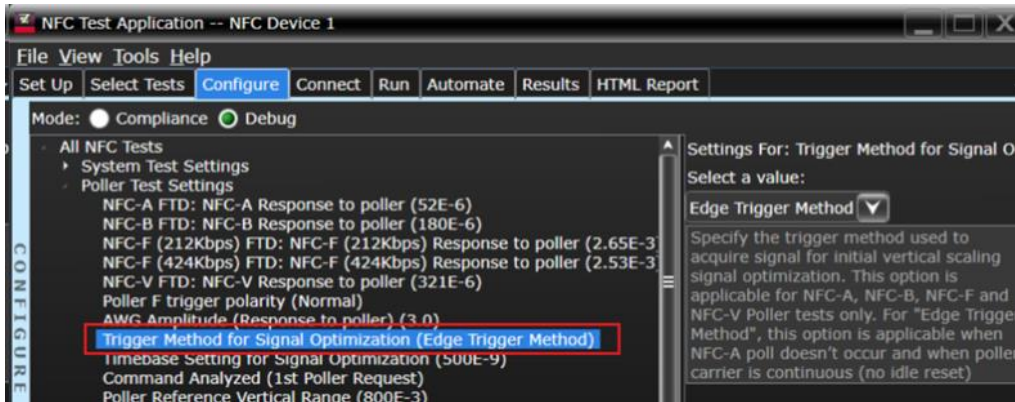
24. NFC Test Application software.

File Name:	SetupInfNFC01200000.exe

Miscellaneous Notes

- NA

New Features

- Added new trigger method for "Trigger Method for Signal Optimization". This trigger option is applicable for when polling doesn't begin with an NFC-A poll and when the polling carrier is continuous (no idle)."

Keysight D3000NFCA/D4000NFCA Software Version 01.10.0000

Released Date:	29 May 2019
Requirements category	Microsoft Windows 7, Microsoft Window 10
Requirements category	25. 3000T X-Series oscilloscope with the DSOXT3NFC license OR 4000 X-Series oscilloscope with the DSOX4NFC license. 26. Keysight I/O Libraries version 17.2 or greater. 27. Keysight License Service 5.1.20822.10730 (included in NFC Test Application install package). 28. Keysight License Manager 5.3 (included in NFC Test Application install package). 29. .NET Framework 4.5.2. (included in NFC Test Application install package). 30. MATLAB Compiler Runtime 9.1. (included in NFC Test Application install package). 31. NFC Test Application software.
File Name:	SetupInfNFC01100000.exe

Miscellaneous Notes

- Updated the product number from "DS0XT3NFC/DSOX4NFC" to "D3000NFCA/D4000NFCA" to support PPKS licenses.

New Features

- Added support for new export to repository feature where user can export test results to a repository (such as a database). [File->Export Results...->Repository]

- Added device ID and comment selections in Set Up tab.

Enhancements

- Migrated application to use new graphics user interface environment.

- Removed support for "TCI-II" antenna testing.

- Updated option of "Reference Antenna" type in Set Up tab from "Reference" to "NFC-Forum".

- Updated test limit file name from "Specification 2.00 (official)" to "NFC Analog Technical Specification 2.1"

Bug Fixes

- Fixed connection diagram not shown for NFC-F (424 Kbps) test group.

- Fixed report captions in HTML test report.

- Fixed app not responding when connecting instrument.

Keysight DS0XT3NFC/DSOX4NFC Software Version 01.06.0000

Released Date:	24 January 2019
Requirements category	Microsoft Windows 7, Microsoft Window 10
Requirements category	32. 3000T X-Series oscilloscope with the DSOXT3NFC license OR 4000 X-Series oscilloscope with the DSOX4NFC license. 33. Keysight I/O Libraries version 17.2 or greater. 34. Keysight License Service 5.1.20822.10730 (included in NFC Test Application install package). 35. Keysight License Manager 5.3 (included in NFC Test Application install package). 36. .NET Framework 4.5.2. (included in NFC Test Application install package). 37. MATLAB Compiler Runtime 9.1. (included in NFC Test Application install package). 38. NFC Test Application software.
File Name:	SetupInfNFC01060000.exe

New Features

- Added the following new tests to support NFC-V Listener Tests:

    o Test ID: 10401 - Listener: NFC-V, Parameter: FDT

    o Test ID: 10403 - Listener: NFC-V, Parameter: Response Data

    o Test ID: 10404 - Listener: NFC-V, Parameter: Number of capture attempts

    o Test ID: 10405 - Listener: NFC-V, Parameter: Screen capture

    o Test ID: 10406 - Listener: NFC-V, Parameter: LMA (Specification Version 2.0)

- Added the following new tests to support NFC-V Poller Tests:

    o Test ID: 20402 - Poller: NFC-V, Parameter: Vov

    o Test ID: 20403 - Poller: NFC-V, Parameter: Fc

    o Test ID: 20404 - Poller: NFC-V, Parameter: t1

    o Test ID: 20405 - Poller: NFC-V, Parameter: t2

    o Test ID: 20406 - Poller: NFC-V, Parameter: t3

    o Test ID: 20407 - Poller: NFC-V, Parameter: t4

    o Test ID: 20408 - Poller: NFC-V, Parameter: t5

    o Test ID: 20409 - Poller: NFC-V, Parameter: Modulation Depth

    o Test ID: 20410 - Poller: NFC-V, Parameter: Modulation Index

    o Test ID: 20411 - Poller: NFC-V, Parameter: Overshoot

    o Test ID: 20412 - Poller: NFC-V, Parameter: Response Data

    o Test ID: 20414 - Poller: NFC-V, Parameter: Data Rate

    o Test ID: 20413 - Poller: NFC-V, Parameter: Number of capture attempts

    o Test ID: 20415 - Poller: NFC-V, Parameter: Screen capture

- Added configurable option of "Trigger Method for Signal Optimization" (with remote name of "TriggerMethodSignalOptimization") in Configure tab. This configurable option is used to specify the trigger method used to acquire signal for initial vertical scaling signal optimization. This option is applicable for NFC-A, NFC-B, NFC-F and NFC-V Poller tests only.

- Added configurable option of "Timebase Setting for Signal Optimization" (with remote name of "TimebaseScaleSignalOptimization") in Configure tab. This configurable option is used to specify the timebase scale(s/div) used to acquire signal for initial vertical scaling signal optimization. This option is applicable for NFC-A, NFC-B, NFC-F and NFC-V Poller tests only.

- Added configurable option of "NFC-V Smoothing Points for Envelope Waveform" (with remote name of "SmoothingNFCVPoller") in Configure tab. This configurable option is used to specify the smoothing points for the envelope waveform. This config is only applicable to NFC-V Poller tests.

Enhancements

- Removed configurable option of "Resonance Frequency Channel" (with remote name of "ResFreqChan") from Configure tab. It is now replaced with "Poller J2/RX and Resonance Frequency Channel" (with remote name of "PolJ2Chan").

- Renamed configurable option of "Poller J2/RX Channel" to "Poller J2/RX and Resonance Frequency Channel".

- Regrouping configurable options in Configure tab. Updated all configurable options to debug mode only except the following:

    o   Poller J2/RX and Resonance Frequency Channel

    o   Listener J1/Vr Channel

    o   Listener J4/Sense Channel

    o   Poller F trigger polarity

- Updated "Listener DUT Antenna Category" selection in Set Up tab. Changed default value to "Tag".

- Updated the zoom timebase for NFC-A and NFC-B poller tests during screenshot.

- Updated options of "Smoothing Points for Envelope Waveform" (with remote name of "Smoothing") configurable option in Configure tab. The default value is updated to "51".

- Updated to display "Resonant Test Frequency" message at the beginning of Resonant Test Frequency test.

- Added Keysight License Service(KLS) and Keysight License Manager(KLM) requirement checking in NFC installer.

Bug Fixes

- Fixed issue where user needs to click "RUN" twice to execute the "RUN" task at the end of running all tests.

Miscellaneous Notes

- NFC compliance application requires 64-bit Windows operating system with Matlab Runtime version 9.1 installed

Keysight DS0XT3NFC/DSOX4NFC Software Version 01.05.0000

Released Date:	12 January 2018
Requirements category	Microsoft Windows 7
Requirements category	o 3000T X-Series oscilloscope with the DSOXT3NFC license OR 4000 X-Series oscilloscope with the DSOX4NFC license. o Keysight I/O Libraries version 17.2 or greater. o .NET Framework 4.5.2. o MATLAB Compiler Runtime 9.1. o NFC Test Application software.
File Name:	SetupInfNFC01050000.exe

Feature:

1. Added LMA measurement as per NFC Specification 2.0.

2. Updated compliance limit specification to 2.0.

3. "Trigger Delay" settings in the Configure tab is now replaced with "NFC-X FTD: NFC-X Response to poller".

4. Added "Poller F trigger polarity" in the Configure tab to support reserve polarity for NFC-F.

5. "Use Arm and Trigger method" in the Configure tab is now replaced with "Command Analyzed".

6. Added "Poller B and F Trigger Level" in the Configure tab.

7. Added "Listener DUT Antenna Category" selection in the Set Up tab.

8. Minor bug fixes.

Keysight DS0XT3NFC/DSOX4NFC Software Version 01.04.0000

Released Date:	15 July 2016
Requirements category	Microsoft Windows 7
Requirements category	o 3000T X-Series oscilloscope with the DSOXT3NFC license OR 4000 X-Series oscilloscope with the DSOX4NFC license. o Keysight I/O Libraries version 17.2 or greater. o .NET Framework 4.5.2. o MATLAB Compiler Runtime 7.15. o NFC Test Application software.
File Name:	SetupInfNFC01040000.exe

Feature:

New creation