

# D9020USBC USB3.2 Compliance Test Application

Keysight D9020USBC Software Version 3.54.1.0

Release Date:	April 25, 2023
Requirements Category (e.g., operating system):	Microsoft Windows 10
Requirements Category (e.g., instrument software version):	11.50.00601 (UXR/ UXR-B) 6.74.00402 (90000 Series for 5G tests) (90000 X-Series, 90000 V-Series, 90000 Q-Series, and 90000 Z-Series for 10G tests) 8.0.280.26 (M8070B (M8020A))
File Name:	SetupD9020USBC_USB3_3.54.1.0.exe

## Modification / Change

- Updated app to support latest version (5.5.1.81) of Keysight License Manager 5.
- Supports UXR-B Series oscilloscope.

## Keysight D9020USBC Software Version 3.54.0.0

Release Date:	Oct 21, 2022
Requirements Category (e.g., operating system):	Microsoft Windows 10
Requirements Category (e.g., instrument software version):	11.30.00503 (UXR-Series) 6.73.00003 (90000 Series for 5G tests) (90000 X-Series, 90000 V-Series, 90000 Q-Series, and 90000 Z-Series for 10G tests) 8.0.280.26 (M8070B (M8020A))
File Name:	SetupD9020USBC_USB3_3.54.0.0.exe

### Modifications / Changes

- Renamed the **Set Up** tab option “Enable Automation” to “Enable PDO DUT Test”.
- Renamed the test “TSSC-Freq-Dev-Min” to “TSSC-Freq-Dev-Trough”.
- Renamed the test “TSSC-Freq-Dev-Max” to “TSSC-Freq-Dev-Peak”.
- “10G SCD and LBPS Tests” made visible only for **Tx Near End (TP1)** compliance mode.
- For **Tethered** or **Captive Device** options in the **Transfer Function Setup**, the Transmitter Eye Short Channel Tests will not appear.
- Changed measurement analysis method for BLR clock switch test. Please refer to the online help for configuration related to the test.  
Path: Online Help > **Setting Up the Test Environment** page > **Setting Up Test Information** page > **Setup Retimer** section

### Recommendations/Notes

- This application supports only the current Infiniium baseline versions as mentioned in the table above, it is not recommended to run this application on any earlier versions.

## Known Issues

- The LFPS Rise/Fall Time Test is not able to measure the signal correctly due to baseline algorithm change.
- In offline mode, by default 10G Deemphasis Test fails during trial 1 and should not be considered for compliance related testing.

Workaround: This test will provide valid results from trial 2 onwards.

## Keysight D9020USBC USB3.2 Software Version 3.53.0.0

Release Date:	July 29, 2022
Requirements Category (e.g., operating system):	Microsoft Windows 10
Requirements Category (e.g., instrument software version):	11.30.00202 (UXR-Series) 6.72.00302 (90000 Series for 5G tests) (90000 X-Series, 90000 V-Series, 90000 Q-Series, and 90000 Z-Series for 10G tests) 8.0.280.26 (M8070B (M8020A))
File Name:	SetupInfUSB303530000.exe

### Modifications / Changes

- Changed LFPS burst interval measurement due to the change in baseline burst width measurement. This change is applicable to baseline 11.30.00202 (UXR-Series) and 6.72.00302.

### Recommendations/Notes

- This application supports only the current Infiniium baseline versions as mentioned in the table above, it's not recommended to run this application on any earlier versions.

### Known Issues

- The LFPS Rise/Fall Time Test is not able to measure the signal correctly due to baseline algorithm change.

## Keysight D9020USBC USB3.2 Software Version 3.52.0.0

Release Date:	October 04, 2021
Requirements Category (e.g., operating system):	Microsoft Windows 10 and Windows 7
Requirements Category (e.g., instrument software version):	11.15.00201 (UXR-Series) 6.60.00802 (90000 Series for 5G tests) (90000 X-Series, 90000 V-Series, 90000 Q-Series, and 90000 Z-Series for 10G tests) 8.0.280.26 (M8070B (M8020A))
File Name:	SetupInfUSB303520000.exe

### Modifications / Changes

- Supports bundled subscription license.
- Modified BLR sequence to support new sequence definition from M8070B (version 8.0.280.26)
- Updated the de-emphasis (10G Deemphasis and Preshoot Tests) spec limit to Min 2.1 dB to Max 7.0 dB according to following ECN:
  - o USB 3.2 Engineering Change Notice (ECN), Title: TxEQ Equalization Settings; Form 20170922-ECN

## Keysight D9020USBC USB3.2 Software Version 3.51.1.0

Release Date:	20 April 2021
Requirements category (e.g., operating system):	Microsoft Windows 7/ 10
Requirements category (e.g., instrument software version):	10.25.00902 (UXR-Series) 6.55.00504 (90000 Series for 5G) (90000 X-Series, 90000 V-Series, 90000 Q-Series, 90000 Z-Series for 10G test)
File Name:	SetupInfUSB303510001.exe

### Changes:

- Turn off Infiniisim Graph on UXR scope for enhanced scope performance.

## Keysight D9020USBC USB3.2 Software Version 3.51.0.0

Release Date:	12 March 2021
Requirements category (e.g., operating system):	Microsoft Windows 7/ 10
Requirements category (e.g., instrument software version):	10.25.00902 (UXR-Series) 6.55.00504 (90000 Series for 5G) (90000 X-Series, 90000 V-Series, 90000 Q-Series,90000 Z-Series for 10G test)
File Name:	SetupInfUSB303510000.exe

### Defect Fixes:

- Fixed the issue - 10G clean clock measurement always returns 0.
- Updated to SigTest 4.0.23.2
- Updated to SigTest 3.2.11.4

### Changes:

- Implemented 5G SSC measurement using SigTest.
- Added 5G SSC df/dt measurement.

## Keysight D9020USBC USB3.2 Software Version 3.50.1.0

Release Date:	11 September 2020
Requirements category (e.g., operating system):	Microsoft Windows 7/ 10
Requirements category (e.g., instrument software version):	10.25.00607 (UXR-Series) 6.55.00504 (90000 Series for 5G) (90000 X-Series, 90000 V-Series, 90000 Q-Series, 90000 Z-Series for 10G test)
File Name:	SetupInfUSB303510000.exe

### Defect Fixes:

- Fixed the issue related to CP1 or CP10 embed channel loss
- Fixed the incorrect pass/fail status for SCD/LBPM test
- Fixed the issue - 10G offline tests unable to run
- Fixed the Random Jitter Test related issue in which Lane 1 took the results from Lane 0 when run with actual measurement



## Keysight D9020USBC USB3.2 Software Version 3.50.0.0

Release Date:	20 March 2020
Requirements category (e.g., operating system):	Microsoft Windows 7/ 10
Requirements category (e.g., instrument software version):	10.12.05302 (UXR-Series) 6.50.01104 (90000 Series for 5G) (90000 X-Series, 90000 V-Series, 90000 Q-Series, 90000 Z-Series for 10G test)
File Name:	SetupInfUSB303500000.exe

### Known Issues:

- In the application, references to USB3.2 Revision 1.0 spec are not up to date; as a workaround, MOI (Methods of Implementation) document can be referred for correct details.
- Skew measurement will require protocol decode license. If this test is run without license, error 25 will be returned.
- Skew measurement is a new feature that is triggered on the signal using software trigger. The Protocol search for the occurrence of order set will take time (around 10 seconds), it will prompt user to verify the trigger if no signal is found.
- Test aborts if Dj (Deterministic Jitter) test is run without selecting Random Jitter test. This only happens in characterization mode. As a workaround, please select and run random Jitter test, before running Deterministic Jitter test or Total Jitter test.

## Changes:

- Added SRIS 2 lanes testing; user can select Lane 0, Lane 1, or both in Retimer Setup dialog box.
- Supports two channel scope
- Revised to not run far end tests during CP1/CP10 capture
- Disabled lane 2 and Port 2 for two channel scope support
- Switch Matrix is not supported in case of two channel scope
- Removed skew calibration test
- Added check box to enable 2 channel configurations for M8020A, 81150/60A, and 81134A
- Updated to use AUX Trig In as trigger channel for clock switch
- Increased the default memory for JTF testing
- Added TIE filter for RjDj measurement in JTF testing
- Updated USB3.1 to USB3.2
- Added message to prompt user to connect with hardware channel if transfer function is selected as "none"
- Updated transfer function file for 5G std A - std B device and host loss
- Updated USB3.2 retimer connection diagram
- Removed retimer connection diagram from Retimer Setup control dialog box
- Updated connection diagram on clock switch and JTF test
- Loop a Pj (Periodic Jitter) measurement if it returns invalid output or Pj value that returns 0; possible result being trimmed from TIE filter.
- Removed 5G & 10G LFPS, replaced with general LFPS measurement
- Added config option to select USB3 Gen 1 DUT or Gen 2 DUT; this will affect LFPS measurement method.

## Keysight D9020USBC Software Version 03.41.0000

Released Date:	4 Oct 2019
Requirements category (e.g., operating system):	Microsoft Windows 7
Requirements category (e.g., instrument software version):	10.11.04711 (UXR-Series) 6.40.01101 (90000 Series for 5G) (90000 X-Series, 90000 V-Series, 90000 Q-Series, 90000 Z-Series for 10G test)
File Name:	SetupInfUSB303410000.exe

### Changes:

- Fixed Gen2 TxEQ test return error 221 due to FUNC channel not turn on.
- Updated TypeC Functionality
  - o Changed the saving path for the config to "app" folder so that the setting file will copy over properly during project load.
- Fixed setting not loaded correctly during project load
- Use Break to toggle signal instead of restart sequence (Applicable to M8020A only)
- Migrated to FW6.03 to fixed "Skip Completed" in permutation not loaded correctly
- Removed auto toggle on CP14 or CP15 if user select manual mode
- Fixed test not run on Port 2 when run with testplan.
- Reset Testplan if user change control on Port1 or Port 2

## Known Issue:

- 10G TxEQ test in offline mode will report false fail.
- Testplan will not work in condition below:
  - o 5G Voltage level test will only run Port 1.
  - o For SDA test mode and voltage level test. Some of the test result icon not updated in “Select Tests” tab, but not affected in Result and HTML report.
  - o The worsts case status not reflected correctly in “Select Tests” tab, but not affected in Result and HTML report.

## Keysight D9020USBC Software Version 03.40.0000

Released Date:	14 June 2019
Requirements category (e.g., operating system):	Microsoft Windows 7
Requirements category (e.g., instrument software version):	10.10.004514 (UXR-Series) 6.40.00 (90000 Series for 5G) (90000 X-Series, 90000 V-Series, 90000 Q-Series, 90000 Z-Series for 10G test)
File Name:	SetupInfUSB303400000.exe

### Know Issue:

- Under “Tools” => “Infiniisim” will not show any prompt if Infiniisim license is not available.
- Cause error 221 when run 10G de-emphasis and preshoot test with baseline 10.10.004514.

### Changes:

- Added note in connection diagram, USB3.1 Gen2 Host required HSETT tool to enable compliance pattern.
- Revised all the connection diagram to update the fixture and connection.
- Added connection diagram to perform channel deskew.
- Added retimer test that included:
  - o Clock switch test
  - o Jitter transfer function test
- Added df/dt plot.
- Added df/dt interval to 0.2us for clock switch test
- Added retimer trigger channel as configuration
- Allowed user to load customized JTF sequence during test.

- Allowed user to load clock switch sequence during test
- Code cleanup for De-emphasis test
- Revised toggle methodology for BLR mode, user required to configure DUT using retimer setup dialog so that it will send 2 skip order for toggle in compliance test.
- Added support for PPKS licensing scheme.
- Added JTF jitter amplitude to configure tab.
- Added Jitter amplitude in configure option
- Changed to PPKS model number.
- Added 10G LFPS scaling and change methodology to use segmented trigger.
- Removed invalid config to setup EZJIT Plus.
- Added description to show ISI Lead and Lag setting is just for Arbitrary setup.
- Removed min and max for LFPS trigger level so that customer can customized their own setting.
- Added memory depth used for JTF testing
- Added logic setting on Channel 3 while setup pattern trigger in LFPS test
- Fixed 5G Channel setting didn't reflect the changes when user change from Device to Host.
- Removed the word "TP0" / "TP1" in connection diagram due to all connections were done at near end.(Embed channel while doing far end test, no embed while doing near end)
- Fixed 5G clean clock Unit interval test unable to run
- Revised GUI behavior, delete result upon changing test point under product under test.
- GUI behavior change, only allow user to either select far end or near end test, but not allow to uncheck both of them
- Removed config variable for "TestPattern", user no longer able to run only CP0 for Rj and Dj test, or used CP1 to run both Rj and Dj. According to CTS, CP1 will be used for Rj and CP0 to run Dj test.

## Keysight U7243C Software Version 03.32.0001

Released Date:	25 October 2018
Requirements category (e.g., operating system):	Microsoft Windows 7
Requirements category (e.g., instrument software version):	10.00.03708 (UXR-Series) 6.30.00609 (90000 Series for 5G) (90000 X-Series, 90000 V-Series, 90000 Q-Series, 90000 Z-Series for 10G test)
File Name:	SetupInfUSB303320001.exe

### New Features:

- Supports Infiniium Oscilloscope Software version 6.30.00609

### Changes:

- Fixed SCD and LFPS test remote app automation.
- Scope throw error 25 while run de-emphasis test. “:Single” acquisition will not wait for the scope to complete the trigger action, the following Vpp measurement will become invalid command. Changed “:Single” to “:Dig.

## Keysight U7243C Software Version 03.32.0000

Released Date:	28 September 2018
Requirements category (e.g., operating system):	Microsoft Windows 7
Requirements category (e.g., instrument software version):	10.00.03708 (UXR-Series) 6.10.00709 (90000 Series for 5G) (90000 X-Series, 90000 V-Series, 90000 Q-Series, 90000 Z-Series for 10G test)
File Name:	SetupInfUSB303320000.exe

### New Features:

- Supports Infiniium Oscilloscope Software version 10.00.03705 for UXR-Series oscilloscope.

### Know Issue:

- User will experience the increase in the test time when running the TP3EQ in UXR-Series oscilloscope. (Only applicable if your application using the DFE)
- GMAX timeout while turn on Infiniisim even with timeout 60 seconds. The app already extend timeout to 3 minutes due to UXR scope take much more time to process infinisim.

### Changes:

- Fixed SCD test fail to run due to format problem. (In new GUI)
- If automate power supply is checked, power cycle the DUT automatically after LFPS test.
- Skip bandwidth setting if ran with Magneto offline.
- Fixed no prompt to connect the DUT when run LFPS test with On power reset.
- Removed Acquisition control if run in Infiniium offline.
- Added sampling rate changes if run in GMax.
- Modify the test sequence, for testing using CP9 , it will find CP1 pattern then CP9 to avoid taking CP12 into measurement.
- Solved defect 553766 change Min Eye width + Tj = 1UI.



- Indicate lead/lag setting in user configuration is just for Dj test only.
- Updated FW and SL to 0591.

## Keysight U7243C Software Version 03.31.0000

Released Date:	20 April 2018
Requirements category (e.g., operating system):	Microsoft Windows 7
Requirements category (e.g., instrument software version):	6.10.00709 (90000 Series for 5G)  (90000 X-Series, 90000 V-Series, 90000 Q-Series, 90000 Z-Series for 10G test)
File Name:	SetupInfUSB303310000.exe

### Changes:

- Remove De-embed and embed reporting for random jitter test.
- Exposed toggle feature in the instruction dialog box.
- Added checkbox to enable PDC setup button, this will be allowing non-PD device to use with N7018A.
- Set offline child dialog window to resizable
- Fixed connection prompt stuck in the background
- Integrated SigTest version 4.0.23.2 and 3.2.11.3
- Modified 81134A connection diagram to connect channel 1 Rx+/Rx- only.
- Fixed 5G and 10G checkbox being reset after IDN query on instrument.
- Added Gen1 captive device
- Modified the external instrument control, user longer no need to press enter after key in the ip address.
- Removed the optional license message prompt behavior, only show note on Setup Tab.
- Updated N7016A connection diagram with N7018A
- Disable app version check on app sequencer
- Avoid turn off N7018A if run without automation.

- Turn off N7018A and Power Supply at trial end only if enable Automation check box is checked.
- Fixed E3634A power supply automation problem when run LFPS test.
- LFPS test only run on Gen1. Removed TypeOfDut setting.

## Keysight U7243C Software Version 03.30.0000

Released Date:	1 December 2017
Requirements category (e.g., operating system):	Microsoft Windows 7
Requirements category (e.g., instrument software version):	6.10.00709 (90000 Series for 5G) (90000 X-Series, 90000 V-Series, 90000 Q-Series, 90000 Z-Series for 10G test)
File Name:	SetupInfUSB303300000.exe

### Changes:

- Upgrade to framework 5.64.
- Support baseline 6.10.0709.
- Support N7018A controller
- Added testplan to test both Tx pair and Power Profile.
- Added Switch Matrix support for Type-C enabled application.

### Modifications:

- Changed the BER for 10G Far end testing (SDA) from E-12 to E-6.
- Changed the Test description for 10G far end testing from E-12 to E-6.
- Fixed the config variable for Loop bandwidth and damping factor in clock recover does not setup correctly in 10G SDA test.
- Fixed apps unable to launch in Infiniium Offline.
- CTLE Index is inverted. Issue fixed
- Removed fixture selection on Setup page
- Set default toggle type to Probe comp due to double pulse and Trigger out are not available in DSO90000.
- Fixed issue where test being cancel if select channel 2 and channel 4.

## Keysight U7243B Software Version 03.20.0001

Released Date:	30 June 2017
Requirements category (e.g., operating system):	Microsoft Windows 7
Requirements category (e.g., instrument software version):	6.00.0537 (90000 Series for 5G)  (90000 X-Series, 90000 V-Series, 90000 Q-Series, 90000 Z-Series for 10G test)
File Name:	SetupInfUSB303200001.exe

### Modifications:

- Update MOI.

## Keysight U7243B Software Version 03.20.0000

Released Date:	27 March 2017
Requirements category (e.g., operating system):	Microsoft Windows 7
Requirements category (e.g., instrument software version):	6.00.0537 (90000 Series for 5G) (90000 X-Series, 90000 V-Series, 90000 Q-Series, 90000 Z-Series for 10G test)
File Name:	SetupInfUSB303200000.exe

### Modifications:

- Add 10G Short Channel test
- Change template file reference to SigTest5G and SigTest10G folder
- Random jitter test report Rj\_rms instead of Rj\_Total.
- Reporting unit for Rj,Dj and Tj in ps instead of mUI.
- Changed limit from mUI to ps.
- Modify transfer function GUI and update the changes using S4p files from USBIF.
- Remove "Keysight" from the selection of "Fixture to de-embed", replace with U7242A and N7015A.
- Remove "No de-embed" from the selection of "Fixture to de-embed"
- Update the selection choices in 10G de-embed option.
- Add offline feature for TxEQ test.
- Revised Offline template
- Create Type of DUT selection. If select Gen 1 DUT, it will only run 5G LFPS test. For Gen 2 DUT, it will only run 10G LFPS test.
- Name the transfer function file for Gen1 as "SSGen1\_TxComp12p7dB\_Embedding" and Gen 2 as "SSGen2\_TxComp12p2dB\_Embedding" to match USB-IF naming convention.
- Reset the test mode for SigTest 5G, version 3.2.11 so that the test mode default to "CEM" instead of "Base"

- Turn off interpolation in LFPS test
- Add option for 10G Captive Device
- Revised the connection diagram that using Aux Out or Cal out. DSOX series and above will use Cal out, for DSO 90000 series will use Aux out
- Revised the instruction in pattern check (CP0,CP1,CP10,CP13,CP14,CP15,CP8,CP9), changed from DSO9000 to DSO90000.
- Fixed missing title on CP13 instruction diagram.
- Fixed the toggle type that displayed on the toggle box, it now show the "actual" toggle type instead of config variable.
- Integrated sigTest TxEQ.
- Integrate SigTest 4.0.23
- Set 10G SSC using SigTest as default mode
- Fixed issue for apps stop immediately if user select eye width test only.

## Keysight U7243B Software Version 03.00.0001

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Released Date:	31 May 2016
Requirements category (e.g., operating system):	Microsoft Windows 7
Requirements category (e.g., instrument software version):	5.60.0503 (X90000 series for 10G test, 90000 series for 5G test.)
File Name:	SetupInfUSB303000001.exe

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### Modifications:

- Fixed issue for test unable to run if select “none (HW channel)” when select the transfer function.



## Keysight U7243B Software Version 03.00

Released Date:	6 May 2016
Requirements category (e.g., operating system):	Microsoft Windows 7
Requirements category (e.g., instrument software version):	5.60.0503 (X90000 series for 10G test, 90000 series for 5G test.)
File Name:	SetupInfUSB303000000.exe

### Modifications:

- Supports for Infiniium Oscilloscope Software version 5.60.
- Report Extrapolated eye height and eye width measurement.
- Change de-emphasis and pre-shoot measurement, the histogram should only place on UI number 57 to UI 62 according to the spec.
- Set the toggle type automatically after setup the instrument. User no need to select the toggle type again in configure tab.
- Add type-C transfer function for Gen1 channel loss.
- Implement new transfer function GUI. User can choose to either de-embed Keysight fixture or disable fixture de-embed.
- Remove the config that allow user to choose whether to include 1st burst of LFPS during LFPS signal measurement.
- Default 1M UI for 5G test, 2M UI for 10G test.
- The config "Number of UI" for Gen1 and Gen2 will only available in debug mode.
- Enable the option for " Disable Infiniium User Interface during run" in order to improve infiniium scope performance.
- Change the memory depth in LBPM test to Auto so that it not acquired excessive sample points.
- Remove continuous LFPS ping in 5G LFPS measurement method, this is only required in 10G test so that it force Gen2 DUT to go into LFPS mode.
- Turn off output of the external instrument when reset the scope that possible cause DUT unable to go into compliance mode.

- Add message to prompt user to exit HSETT tools and power cycle DUT if the previous test group is LFPS test or SCD test.
- Fixed the issue for wrong waveform loaded during Hub upstream test.
- Revised test description in pre-shoot test and de-emphasis test.
- Reset 10G channel setting after change the test point. (switch between device or host)
- Revised instruction diagram and screenshot for LFPS,CP7,CP8,CP9,CP10,CP13,CP14 and CP15.
- Revised Test reference in de-emphasis and pre-shoot test. (Change from section 6.7.1 to section 6.7.5)
- Remove Rj spec limit for 5G random jitter test
- Setup the delay after turned on DFE when run template test in SDA mode.
- Change the description of the configuration "Method to power cycle DUT"
- Integrate SigTest version 4.0.19
- Fixed "no waveform loaded into memory" error message when ran both 5G short and long channel test.
- Fixed 10G test fail when run group test that include 5G short and long channel, and 10G long channel.
- Change Dj and Tj test in 10G test to informative only
- Change LBPM measurement algorithm due to pattern decoding is not accurate.
- Fixed problem where Worst case reporting for SCD and LBPM is not working correctly
- Change the measurement method for SSC test to make sure the frequency deviation only measured on a complete SSC cycle.
- Turn off Negative channel on channel 1 when using 81134A to do compliance toggle.
- Fixed issue for "No Connection" error dialog box that hide behind the instruction window.
- Change the warning message for missing equalization license, additional note to explain this change only affect debug mode only.
- Update and add new set of connection diagram that include external instrument.
- On the setup tab, add a fixture selection for U7242A and N7015A
- Remove the toggle and retries button in Instruction window as it is not required in some specific test such as LBPM, SCD and LFPS test.

- Integrate SSC Sigtest template and add capabilities to run SSC with SigTest.
- Fixed issue where SSC df/dt was measured after applied first order low pass filter, changed measurement method to use second order low pass filter which already been specified within the spec.
- Fixed SCD tRepeat measurement.
- Add remote capability to setup transfer function after the GUI changes
- Revise app to support SCD, LBPM and 10G LFPS test using one channel only.

This only applicable to:

- o 81150A
  - o N4903B
  - o M8020A
- Fixed the issue for customized transfer function text box not reload correctly from the saved project file.
  - Modify 81150A, N4903B and M8020A connection diagram to use One channel only.
  - Update user Instruction dialog box.
  - Added 10G USBIF Fixture diagram.
  - Add status check for M8020A so that the following steps are executed correctly after M8020A had been programmed.
  - Remove Std A to Std B and Std A to Micro B option for 10G because U7242A not able to support 10G test. Both options still available if select “no fixture de-embed”.
  - Set Repeat Toggle to 1 if run CP14 and CP15, reset the value to 16 (default) after finish preset and de-emphasis test.
  - Enable Auto-scroll on setup page
  - Update application to support both SigTest 3.2.11 (only 5G test and LFPS test) and 4.0.19 (for 10G test only)
  - Enable and disable the text box for instrument’s IP address and SICL address according to the option to setup instrument using IP or SICL.
  - Modify connection diagram for N4903B to make sure it connected with blocking capacitor.
  - Fixed issue for warm reset when using 33250A.

- Reload SICL address and IP address for instrument configuration accordingly when loading a saved project.

## Keysight U7243B Software Version 02.02

Released Date:	1 October 2015
Requirements category (e.g., operating system):	Microsoft Windows 7
Requirements category (e.g., instrument software version):	5.50.0031 (X90000 series for 10G test, 90000 series for 5G test.)
File Name:	SetupInfUSB302020000.exe

### Modifications:

- Keysight Rebranding
- Update SigTest version to 4.0.14
- Update channel loss for 10G.
- Add support for M8020A.

## Agilent U7243B Software Version 02.01

Released Date:	15 April 2015
Requirements category (e.g., operating system):	Microsoft Windows 7
Requirements category (e.g., instrument software version):	04.60.00005 (90000 series, Win7,5G test) 04.60.00005 (X90000 series, Win7,10G test)
File Name:	SetupInfUSB302010000.exe

### Modifications:

- Update on short channel template.

### Additions:

- Add preemphasis and preshoot test.
- Add Micro AB option for host test

### Enhancements:

- Added support for Infiniium Oscilloscope Software version 5.50

## Agilent U7243B Software Version 02.00

Released Date:	20 Aug 2014
Requirements category (e.g., operating system):	Microsoft Windows 7
Requirements category (e.g., instrument software version):	04.60.00005 (90000 series, Win7,5G test) 04.60.00005 (X90000 series, Win7,10G test)
File Name:	SetupInfUSB302000000.exe

### Additions:

- Supports USB3.1.

## Agilent U7243A Software Version 01.50

Released Date:	30 May 2014
Requirements category (e.g., operating system):	Microsoft Windows 7,
Requirements category (e.g., instrument software version):	04.60.00005 (90000 series, Win7)
File Name:	SetupInfUSB301500000.exe

### Modifications:

- Supports for Infiniium Oscilloscope Software version 5.00.

## Agilent U7243A Software Version 01.44

Released Date:	9 May 2014
Requirements category (e.g., operating system):	Microsoft Windows 7, Microsoft Windows XP
Requirements category (e.g., instrument software version):	04.20.00 (90000 series, XP) 04.60.00005 (90000 series, Win7)
File Name:	SetupInfUSB301440000.exe

### Modifications:

- This is the last version for XP Oscilloscope.
- Update the transfer function file for MicroB and Tethered channel.
- Fix saved waveform template.
- Issue description: If user select LFPS pattern in saved waveform template, the option for the signal pattern will reset back to CP1/CP0 option when re-open the saved waveform template.



## Agilent U7243A Software Version 01.43

Released Date:	28 October 2013
Requirements category (e.g., operating system):	Microsoft Windows 7, Microsoft Windows XP
Requirements category (e.g., instrument software version):	04.20.00 (90000 series, XP) 04.60.00005 (90000 series, Win7)
File Name:	SetupInfUSB301430000.exe

### Additions:

- Include updates for ECN 018, ECN 012 and ECN 019.

### Modifications:

- Fix the issue where no InfiniiSim file loaded when the application was launch for the first time.
- Added support for MSOX90k series oscilloscopes.

## Agilent U7243A Software Version 01.41

Released Date:	25 Sept 2011
Requirements category (e.g., operating system):	Microsoft Windows 7, Microsoft Windows XP
Requirements category (e.g., instrument software version):	03.00.00 (90000 series)
File Name:	SetupInfUSB301410000.exe

### Additions:

- Added ability to automate test pattern change. User may access this feature by setting the “Automate Test Pattern Change” to AUTO. The application will then automatically change the DUT’s test pattern through the AUX OUT of the oscilloscope.

### Modifications:

- No longer supports 80000 series oscilloscopes.
- Upgraded framework to version 3.60 to support Window 7 platform.

## Agilent U7243A Software Version 01.30

Released Date:	4 Oct 2010
Requirements category (e.g., operating system):	Microsoft Windows XP
Requirements category (e.g., instrument software version):	05.71.00 (80000 series) 02.01.00 (90000 series)
File Name:	SetupInfUSB301300000.exe

### Modifications:

- Upgraded framework to version 3.40 to support DSOX90000 series oscilloscopes.

## Agilent U7243A Software Version 01.20

Released Date:	8 June 2010
Requirements category (e.g., operating system):	Microsoft Windows XP
Requirements category (e.g., instrument software version):	05.71.00 (80000 series) 02.01.00 (90000 series)
File Name:	SetupInfUSB301200000.exe

### Additions:

- Added SSC Modulation Rate test.
- Debug mode checkbox to hide non-compliance tests.

### Modifications:

- Apply transfer functions files USB3Dev\_90000\_20100119.tf4 and USB3HOST\_90000\_20100119.tf4 for embed/de-embed for DSO90k scopes.
- Apply S-parameter files USB3Dev\_80000\_20100119.txt and USB3HOST\_80000\_20100119.txt for embed/de-embed for DSO80k scopes.

### Notes:

This will be the last version to support the 80000 series oscilloscope. Following releases will only support 90000 series oscilloscope.

## Agilent U7243A Software Version 01.10

Released Date:	25 Dec 2009
Requirements category (e.g., operating system):	Microsoft Windows XP
Requirements category (e.g., instrument software version):	05.71.00(80000 series) 02.01.00(90000 series)
File Name:	SetupInfUSB301100000.exe

### Additions:

- Added Low Frequency Periodic Signalling Tests.
- Added Transmitter Voltage Level Tests (Informative only).
- Added SSC Deviation test.

### Modifications:

- 90000 series oscilloscopes now use InfiniiSim to perform embed/de-embed while 80000 series oscilloscopes continue to use UDF to perform embed/de-embed
- 90000 series oscilloscopes now use Equalizer CTLE to perform CTLE (for SDA tests) while 80000 series oscilloscopes continue to use UDF to perform CTLE (for SDA tests).
- Manual mode for embed/de-embed setup has been removed.

## Agilent U7243A Software Version 01.00

Released Date:	22 May 2009
Requirements category (e.g., operating system):	Microsoft Windows XP
Requirements category (e.g., instrument software version):	05.71.00(80000 series) 01.40.00(90000 series)
File Name:	SetupInfUSB301000000.exe

Initial Release

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