

Release Notes

Keysight N1012A OIF CEI 3.1 Compliance And Debug Application Release Notes

A.04.12 Release Notes, July 2018

(Differences from Release A.04.11)

- General Comments

- Defects Fixed
 - Fixed Total Jitter test do not give correct result when run with Waveform Tests.
 - Fixed Common Mode Voltage issue.
 - Fixed issue unable to upload results on Cygnet.
 - Fixed Differential Voltage Pk- Pk tests run with other patterns.
 - Fixed run error in Total Jitter for 11G-SR when RemoveCable/Fixture S-Parameter is set to ON.
 - Fixed Crosstalk 28G-VSR H2M test run with non- compliant pattern when run in group.
 - Fixed UBHPJ test asks for PRBS9 pattern which is not required for calculating its results.
 - Fixed issue unable to detect pattern if it is changed during the test run.
 - Fixed invalid trail issue in Total Jitter test.
 - Fixed Total Jitter test gets aborted if run with different tests.
 - Fixed J2 and J9 Jitter tests are failing in giving results.
- Enhancements
 - Add N1046A support.
 - Add DCA-M support.
 - Add N1060A support.
 - Add Cygnet support.
 - Add N1076/77A support.

- Changed Configure Tab Settings
 - Added Channels for N109x.
 - Added Variable Equalization Level.

A.04.11 Release Notes, October, 2016

(Differences from Release A.04.00)

- General Comments
 - Defects Fixed
 - Fixed a defect that would occasionally failed at EW test.
 - Fixed a defect that caused config settings unable to restore when the saved project is re-opened.
 - Fixed a defect that caused the Baud Rate unable to report correctly when using N1045A/55A.
 - Fixed a defect that caused Eye Opening tests failed when using IPTB.
 - Fixed a defect that prevents “De-embedded” operator to turn on in 11G-MR/LR TJ measurement when “Remove Cable/Fixture S-Parameter” is ON.
 - Fixed a defect in Adjust True-Complement Skew, Cables utility.
 - Fixed a defect that caused Jitter Tests 25G-LR –FIR off/on fail when results are appended to previous trials.
 - Fixed a defect that caused Output Differential Voltage, 25G-LR measurement crashes when run standalone or in group.
 - Fixed a defect that caused Adjust True-Complement Skew, Manually Enter Values utility runs even 86108B is installed.
 - Fixed a defect that caused Jitter Transfer Bandwidth/Peaking, 11G-SR issue three setup prompts when tests are run individually.
 - Enhancements

- Provided debug option to use PRBS9 instead of PRBS31 for differential voltage pk-pk.
 - Allowed user to enter fixed RJ for 25G-LR UBHPJ measurement.
 - Added ability for user to increase number of waveforms used for EW and EH measurements in Normal and Debug mode.
 - Allowed De-skew utilities performed at different bandwidth.
 - Added user defined S-Parameter filenames and path.
- Changed Configure Tab Settings
- Added User Defined S-Parameter for S2P Channel A
 - Added User Defined S-Parameter for S2P Channel B
 - Added User Defined S-Parameter for S4P Channel A and B
 - Added Auto Adjust Pattern Number of Jitter
 - Added Channel Bandwidth Setting
 - Added Type of Pattern
 - Added Fixed RJ Value
 - Renamed *CTLE Peaking Value Maximum* to *CTLE Peaking Value, maximum for user selected range*
 - Renamed *CTLE Peaking Value Minimum* to *CTLE Peaking Value, minimum for user selected range.*
 - Renamed *JSA Peaking* to *JSA Peaking for Second Order*
 - Added SIRC Functionality on 86108B and N1045A
 - Added SIRC Channel Response
 - Added SIRC Channel BW
 - Added Source for Return Loss tests

A.04.00 Release Notes, August, 2014

(Differences from Release A.02.00)

- General Comments
 - Added support for IA #OIF-CEI 3.1
 - Removed the ability to run all tests from the Set Up tab.
 - Changed all UBHPJ tests to query BUJ in Jitter Mode to report results.
 - Reduced the number of waveforms for CM noise test from 100 to 30.
 - For VSR eye opening tests, report the equivalent number of hits measured.
 - Added support for N1055A module to perform all waveform, eye, and jitter measurements.

- Added new CEI 28G-MR Medium Reach Tests
 - Baud Rate, 28G-MR
 - Common Mode Noise, 28G-MR
 - Differential Return Loss, 28G-MR
 - Differential Resistance, 28G-MR
 - Differential Termination Mismatch, 28G-MR
 - Even Odd Jitter, 28G-MR
 - Output Common Mode Voltage, 28G-MR
 - Output Differential Voltage, 28G-MR
 - Output Fall Time, 28G-MR
 - Output Rise Time, 28G-MR
 - Single Ended Output Voltage, 28G-MR
 - Total Jitter, 28G-MR
 - Uncorrelated Bounded High Probability Jitter, 28G-MR

- Uncorrelated Bounded Gaussian Jitter, 28G-MR

- Added new CEI-28G Very Short Reach Host to Module at TP1a Tests
 - Crosstalk Diff Voltage, pk- pk, 28G- VSR H2M
 - Crosstalk Transition Time (rise), 28G-VSR H2M
 - Crosstalk Transition Time (fall), 28G-VSR H2M

- Added new CEI- 28G Very Short Reach Module to Host at TP4 Tests
 - Crosstalk Diff Voltage, pk- pk, 28G- VSR M2H
 - Crosstalk Transition Time (rise), 28G-VSR M2H
 - Crosstalk Transition Time (fall), 28G-VSR M2H

- Added new Utility
 - Adjust True-Complement Skew, Manually Enter Values

- Changed Configure Tab Settings
 - Added Measurement Time, Jitter on Long Patterns
 - Added Manual Baud Rate
 - Added Config for S- parameter 4- port numbering
 - Renamed *CTLE State for VSR Waveform Tests* to *CTLE Applied for VSR Waveform*
 - Renamed *Channels* to *Channels for N1045/55ATests*
 - Renamed *Pattern for TJ in 6G/11G Interfaces* to *Pattern for UUGJ/TJ in 6G/11G Interfaces*
 - Renamed *CTLE Peaking for VSR* to *CTLE Peaking Value for VSR Test*

- Removed Source for UUGJ and TJ

A.03.00 Release Notes

- Revision number A.03.00 was never used. Version A.02.00 was directly followed by A.04.00.

A.02.00 Release Notes, May, 2013

(Differences from Release A.01.00)

- General Comments
- Added the following new features:
 - Support for OIF CEI Draft 9
 - Expanded capabilities for use of CTLE with VSR interface.
 - Remove effect of measurement channel
 - Support for N1045A 60 GHz Remote Sampling Head module
 - Support for 54754A TDR/TDT module (For electrical channel input only. TDR/TDT capability is not used.)
- Added two new CEI 28G-VSR Host to Module at TP1a tests:
 - Diff to CM Conversion Loss, 28G-VSR H2M
 - Common Mode Return Loss, 28G-VSR H2M
- Added two new CEI 28G-VSR Module to Host at TP4 tests:
 - Diff to CM Conversion Loss, 28G-VSR M2H
 - Common Mode Return Loss, 28G-VSR M2H
- Added three new utilities:
 - Adjust True-Complement Skew, N1045A

- Optimize Eye Opening for VSR M2H Using CTLE, automated
- Optimize Eye Opening for VSR, user selected range of values
- Added the following Configure tab settings:
 - Channel for N1045A
 - CDR State
 - Trigger Divide Ratio
 - CTLE State for VSR Waveform Tests
 - CTLE Peaking Value, minimum for user selected range
 - CTLE Peaking Value, maximum for user selected range
 - Samples Taken for Eye Mode
 - Source for UUGJ and TJ
 - Verify Pattern Length, Jitter
 - Fixed Pattern Length
 - Remove Cable/Fixture S-parameters
 - S-parameter Bandwidth Limit
 - S-parameter Filter Type
- Renamed the following Configure tab settings:
 - *From* CTLE Peaking for VSR *to* CTLE Peaking Value for VSR Tests
 - *From* JSA Peaking *to* JSA Peaking for Second Order
- Removed the following Configure tab settings:
 - Channel
 - Samples Taken
 - Samples for VSR Eye Opening
 - JSA Bandwidth

A.01.10 Release Notes, March, 2013

(Differences from Release A.01.00)

General Comments

- N1012A updated to work with FlexDCA version A.02.00.
- N1012A A.01.10 is compatible with FlexDCA version A.02.00 and is not compatible with FlexDCA version A.01.81.
- Fixed minor problem that affected pattern detection in jitter measurements.

A.01.00 Release Notes, July, 2012

General Comments

- First version of N1012A.
- Software version A.01.00 requires FlexDCA version A.01.81 and is not compatible with any other FlexDCA version.