Keysight N4917B Optical Receiver Stress Test Solution

The N4917B optical receiver stress test software is required to control the various instrument configurations that make up the N4917B solution.

Software licensing

If no license is installed the SW will run in demo mode.

For controlling the hardware you can choose between a transportable, perpetual licenses (N4917B-0TP, N4917B-1TP, N4917B-2TP) or network, perpetual licenses (N4917B-0NP, N4917B-1NP, N4917B-2NP). The network license is only recommended when using multiple N4917B setups within one company.

For further important information see

– N4917B Solution Brochure
– N4917B User Guide
– N4917B Post Installation Notes

Release 2.0.0.1

Released Date:	13 April 2018
Operating System:	Microsoft Windows 7 (64 bit)
Controller requirements:	8 GB RAM (minimum) USB, LAN, GPIB interfaces
Display resolution:	Minimum requirement 1449 x 900
Software pre-requisites:	Keysight IO Library rev. 17.2 or above M8070A System Software rev 4.5.70.2 or later N1010A FlexDCA SW ver A.05.71.22 or later
File Name:	N4917B_Setup_2.0.0.1.exe

Updating "Parameter" and "Results" folders

If you have previously installed an earlier version the N4917B software on your PC, upgrading to a newer version will rename the original Parameter and Result folders to Parameter_V1.x_files and Result_V1.x_files respectively. Note that the earlier version parameter and result files are not compatible with version 2.0.

The path to the renamed folders is:
C:\Users\Documents\Public Documents\Keysight\N4917B\Parameter_V1.x_files
C:\Users\Documents\Public Documents\Keysight\N4917B\Result_V1.x_files

New versions of the Parameter and Result folders will be created and populated with files compatible with version 2.0.
The path to these folders is:
C:\Users\Documents\Public Documents\Keysight\N4917B\Parameter
C:\Users\Documents\Public Documents\Keysight\N4917B\Result

Breaking changes
Added support for 100G MSAs – CLR4, CWDM4, 4WDM

Fixed defects
n/a

Known defects
After a stressed eye calibration run, if the mode selection is changed (e.g. from LR4/ER4 to SR4) or an equipment configuration in System Connections is changed (e.g. from DCA-X to DCA-M) then it is required to close the N4917B SW window, then re-start it and perform the System Connections again, then load the required Parameter file.

Release 1.5.0.4

Released Date:	6 April 2017
Operating System:	Microsoft Windows 7 (64 bit)
Controller requirements:	8 GB RAM (minimum)
	USB, LAN interfaces
Display resolution:	Minimum requirement 1449 x 900
Software pre-requisites:	Keysight IO Library rev. 17.2 or above
	M8070A System Software rev 3.5.100.2 or later
	N1010A FlexDCA SW ver A.05.51 or later
File Name:	N4917B_Setup_1.5.0.0.exe

Updating "Parameter" and "Results" folders
If you have previously installed version 1.0 of the N4917B software on your PC, upgrading to a newer version will rename the original Parameter and Result folder to Parameter_V1.0_files and Result_V1.0_files respectively. Note that the version 1.0 parameter and result files are not compatible with version 1.5.

The path to the renamed folders is:
C:\Users\Documents\Public Documents\Keysight\N4917B\Parameter_V1.0_files
C:\Users\Documents\Public Documents\Keysight\N4917B\Result_V1.0_files

New versions of the Paramter and Result folders will be created and populated with files compatible with version 1.5.
The path to these folders is:
C:\Users\Documents\Public Documents\Keysight\N4917B\Parameter
C:\Users\Documents\Public Documents\Keysight\N4917B\Result

Breaking changes
Added support for 100GBASE-SR4
New system connections and system performance check included in the SW GUI
Added support for DCA-M family of Sampling Oscilloscopes

Fixed defects
n/a

Known defects

After a stressed eye calibration run, if the mode selection is changed (e.g. from LR4/ER4 to SR4) or an equipment configuration in System Connections is changed (e.g. from DCA-X to DCA-M) then it is required to close the N4917B SW window, then re-start it and perform the System Connections again, then load the required Parameter file.

Release 1.0.2.0

Released Date:	8, August 2016
Operating System:	Microsoft Windows 7 (64 bit)
Controller requirements:	8 GB RAM (minimum)
	USB, LAN interfaces
Display resolution:	Minimum requirement 1449 x 900
Software pre-requisites:	Keysight IO Library rev. 17.2 or above
	M8070A System Software rev 3.1.52.10 or later
File Name:	N4917B_Setup_1.0.2.0.exe

Breaking changes

Initial release for 100GBASE-LR4 and 100GBASE-ER4

Known defects

n/a