



Network and Service Companion Software Release Notes

**NSC-100 / NSC-100
Version 4.4.4**

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Release v4.4.4

This release is currently available in StrataSync and applies to all NSC-100 and NSC-200 meters. This release adds new features and major improvements to various modes. It also adds other minor improvements and bug-fixes as requested by various customers. It is ok to directly upgrade to this release from any previous released version.

New Features, Options and Packages

1. **Job related features.**
 - i. Add template match and deploy capability for NSC in StrataSync
 - ii. Show test order of NSC jobs shown in the Job View as they are shown on MTA in the Job Manager.
 - iii. Enable TPA templates for inputting, assigning and deploying PON emulation parameter for generic ONT's. Before this had to be done via customer file.
 - iv. Jobs can be created with an Ookla server list and sent to an NSC for user selection.
 - v. Sync up to latest Job Manager/Stratasync/MobileTech versions.
2. **Speed test related features.**
 - i. Improved Iperf Speed Test performance for higher speed test, 2.5g and greater, with default settings when zero TCP Window size is selected.
 - ii. Display of advertised TCP window size of the server NSC result in Iperf3 at 1g rate and below instead of the NSC configured TCP window size.
 - iii. Fusion/TrueSpeed release update to match Fusion release.
3. **PON related features.**
 - i. Modified default Serial Number configuration in OneCheck GPON and XGSPON tests to inhibit kicking real ONTs offline.
 - i. The NSC now sets a default Serial Number when nothing is entered in the Serial Number configuration field. This default Serial Number is VIAV##### where ##### is the last eight digits of the NSC box serial number.
 - ii. After a test is run the Serial Number configuration is blanked out. To run another PON test the Serial Number must be reentered if the user wants to use a Serial Number other than the default as defined previously in i.
 - ii. Allow ONT parameter configuration in a profile for generic ONU models. This added Vendor, Model, SN, SW Version to profile so they are saved.
 - iii. Added new customer specific ONTs.

Bug Fixes.

1. Fix TPA file naming convention issue with / and # not showing files
2. For detect power only test when XGSPON is selected in profile but the SFP inserted is a GPON no error message was displayed.
3. When running an iperf3 test at 10g and the default number of streams is used or only 1 stream is selected then the UI does not show any results.
4. NSC-200 sends 53 http requests with HTTP-Head-Method before Speedcheck file download. Changed to only 15 http requests so servers do not reject it.
5. NSC-200 to MAP-2100 Client TrueSpeed: Test aborted during upstream test fixed.
6. NSC has an option for 10G Speed Test but trying to run it gets the error message Iperf 1G Option is missing.
7. NSC did not provide the correct IP info at first Ethernet connection to MTA/SAA via remote control option.
8. NSC TPA jobs did not run with the configurations.
9. NSC syncing template list to SS every minute - should be only when changed.
10. Detect power only test spins forever when fiber is disconnected. A 70 second timeout was added.

Previous Releases

Release v4.3.16

1. NSC-200 PPPoE w/VLAN support up to 10Gbps
 - a. Previous versions of firmware only supported PPPoE up to 1Gbps. Version 4.3 supports up to 10Gbps PPPoE w/VLAN support
2. NSC-200 PPPoE w/VLAN over XGSPON up to 8.5Gbps.
 - a. Previous versions of firmware only supported PPPoE up to 1Gbps on either Ethernet or over GPON/XGSPON emulation. Version 4.3 will now support full rate over XGSPON (8.5Gbps is approximate throughput speed due to XGPSON overhead)
3. Test Location added to save test file name:
 - a. Test files have location tag added to file name. This is similar to other VIAVI instruments and assists in identifying specific files and locations
4. Ability to add customer defined file prefix to file name"
 - a. Customer have the ability within a job to add a custom prefix that will be appended to the beginning of the file name. This provides easier file location identification for specific workorders.
5. Update for FUSION client to support latest Fusion deployments
6. NSC-200 - Eliminate the need to deploy or enable 1G testing when adding new field upgrades to 2G/5G or 10G throughput testing
 - a. In previous version a user would have to deploy both the 1G testing when they added a higher speed test. For example when doing a field upgrade to NSC-SPEEDCHECK-10G-1Y the user would also have to deploy NSC-SPEEDCHECK-1G-1Y
7. New passive mode optical power only test capability in OneCheck GPON or OneCheck XGSPON

- a. Previous versions of firmware assumed OneCheck GPON or XGSPON would be ran in active mode and the instrument would look for PON-ID information. This lengthened the test for users who wanted to use OneCheck PON or OneCheck XGSPON as an optical power meter only.
- 8. StrataSync viewing of OneCheck GPON and OneCheck XGSPON
 - a. Previously, the OneCheck GPON and OneCheck XGSPON results were saved in StrataSync but were not viewable by the user. StrataSync now supports user viewing of those files.
- 9. Support on for disabling Auto Negotiation for 10M, 100M, and 1G Electrical Ethernet when running throughput testing and TrueSPEED on VIAVI's NSC-SFP-ELEC-AUTO-1G-10G

Bug Fixes

Various bug fixes and customer specific enhancements

Contact Information

For help, please consult the User's Guide or contact VIAVI Support

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