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Net Protocol Suite™ 1.85 - Release Notes

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1. Overview

This Read Me file contains last-minute product information for the Net Protocol Suite™ software for Microsoft Windows. For full instructions on using the Net Protocol Suite™ please see the User's Manual and other documents provided with this product.

2. System Requirements

For optimal performance, it is recommended that the software is installed and operated on a host machine that is of a recent generation of personal computers architecture, and that at least the minimum requirements for memory, storage and display requirement are kept. However, the software could operate on some machines that are below the minimum requirements specified here, at the cost of slower performance of the system and limited usability of the software.

2.1. Software

Operating System:

- Windows 7, Windows 8.1, Windows 10, Windows Server 2008 (R2) and Windows Server 2012.
- The latest Service Pack available for the Windows OS in use is required.
- It is recommended that the 64-bit Windows version of the Operating Systems is installed, as these allow using more RAM than the 32-bit ones.

Required applications:

Microsoft Internet Explorer, version 6 or newer. To view the manuals, datasheets and other documents, you would need to install 'Adobe Acrobat Reader' (<http://get.adobe.com/reader>).

2.2. Hardware

Memory (RAM):

For improved performance of the software, it is recommended that 16GB of RAM is installed on the host machine. Memory as little as 2GB would still allow the software to function, but would impair its performance.

Non-volatile Storage (SDD or Hard Disk):

Storage space of 200MB is required for installing the Net Protocol Suite™ software on the host machine. Additional storage space is needed for the operation of the software application and for storing

recorded data in files. Please remember that storing large captured traces can result in multiple gigabytes of file sizes and can quickly fill your available storage space.

Display:

To take full advantage of the rich visualization and analysis of Teledyne LeCroy software it is recommended that the display is set to at least **1050** lines of vertical resolution with at least 24-bit color depth.

The minimum requirement for the display is a resolution of 1024x768 with at least 16-bit color depth.

Connectivity:

It is recommended that a Gigabit (1000Mbps) Ethernet link is used for the connection with the SierraNet analyzers. At minimum the host machine should have either a 100/100Mbps Ethernet connection to the network or a USB 2.0 port.

For optimal reliability of the Ethernet connection to the Analyzer, the controlling PC and the Analyzer should reside on the same subnet. In cases where multiple subnets must be crossed to reach the analyzer, a dedicated controlling PC should be placed on the same subnet as the analyzer. That PC can then be remotely accessed via remote desktop or VNC by the user.

If multiple analyzers are daisy chained and connected to the same host machine, one Ethernet connection or one USB port is required for each analyzer.

Please note that there is no connectivity requirement if the analysis application is used to only view pre-recorded traces.

For tips as for how to improve on the performance of the Teledyne LeCroy analysis system and more specifically on the performance of the software, please refer to the User Manual.

3. Installation

Please refer to the "Installing your Analyzer" chapter of the User's Manual for the details of Net Protocol Suite™ software installation.

3.1. DVD-ROM Installation

- Insert the DVD ROM with the Analyzer software in the DVD ROM drive.
- The installation will automatically start unless the Autorun is turned off. In this case select the DVD ROM from "My Computer" and double-click Autorun.exe
- From the DVD ROM Autorun program, choose the Install Software menu item and then choose Net Software.
- Follow the on-screen instructions to complete the installation.

3.2. Web Installation

- Run the setup and follow on-screen instructions to complete the installation.

3.3. USB Driver Installation

- USB driver files are automatically installed with the Net Protocol Suite™ software installation. Users must have administrator privileges to install the required device drivers.
- **Do not connect the analyzer to the USB port until the software installation is complete.** In case it is required to manually reinstall the device drivers, they are located in the Net Protocol Suite™ program folder. For example: C:\Program Files (x86)\LeCroy\Net Protocol Suite\Windows\Drivers\x64

4. Release Notes

4.1. What's New

- This is version 1.85 of the Net Protocol Suite™ software.
- This release contains the following components:
 - Net Protocol Suite™ Version 1.85.
- This release includes the following features and enhancements:
 - ST16802 Depth of Decode not present in SS View
 - ST12137 FE: Support disconnecting software from analyzer while analyzer is running, and reconnecting at later time without losing recording or trace
 - ST12906 Bus Utilization graphs/charts
 - ST14059 Timing calculator specifically for markers.
 - ST14250 Enhancement: iSER decodes
 - ST15003 FE: remember the project opened/created when NetPS closed/crashed
 - ST15283 In-place editing feature of State labels in jammer scenarios and analyzer sequencer behaves in unexpected manner
 - ST15295 right clicking on state does not invoke copy option
 - ST15726 Extend port colorization to entire row of the trace
 - ST16643 Jammer pattern and decode: FCGS command
 - ST16380 FE: Infusion - FC Capture-Frame and Pre-Capture Frame
 - ST16760 Add support for 40GE training seq capture, trigger, and decode

- The following issues were fixed in this release:
 - ST13797 Unable to copy iSCSI command from trace view
 - ST15040 iSCSI decodes do not appear
 - ST15058 Data: 0 = Any?
 - ST15195 Exclude icons in advanced triggering mode
 - ST15293 Allow events to be viewed in decimal also
 - ST15801 Spreadsheet view rows clipped at 125% system display scaling.
 - ST16146 Problem with automatic refresh of device status in Device Management dialog
 - ST16154 Not all packets could be "right-click" -> "quick search" able
 - ST16177 Conflicting message on the analyzers LED display and the directive from the software
 - ST16332 Infusion Direction drop down
 - ST16337 Infusion: timer used for GE but greyed out for FC
 - ST16499 Add FC SW commands patterns to the Pattern Library
 - ST16500 Add FC GS commands patterns to the Pattern Library
 - ST16669 RoCE: MAD decode
 - ST16670 Unable to trigger on RoCE MAD (Op Code 0x04)
 - ST16726 Issues with Global Variable with IP Src/Dest address
 - ST16733 Net Protocol suite crashed under CrossSync
 - ST16736 Visiting the Decoding assignment page will throw a invalid path warning when exited
 - ST16751 Jammer - SBC Event does not show any SBC commands under "Operation Code"
 - ST16752 Jammer - Editing the data for an event changes the data in the dword above it.
 - ST16756 Jammer intermittently truncates data frames when placed on Brocade 8G ISL member
 - ST16758 columns in Spreadsheet View missing (only packet number column visible) and blank trace after crash
 - ST16803 Incorrect Decode in Frame Inspector view for RoCE packets
 - ST16805 RoCE MAD Trigger correction required
 - ST16826 Upload Manager shows no packets in buffer when it actually does
 - ST16831 RTS protocol error could not be detected and presented in graph
 - ST16841 Net viewer shows only port column when trying to sync trace between other protocol suites in crosssync
 - ST16992 Dragging a "trigger on" preset item from lower left (list) to upper left (user collection), results in renaming of item
 - ST17038 Crash when chaining two analyzers in AJA
 - ST17045 [API] Function GetTriggerDateTime() and GetEndDateTime() returns invalid value 0
 - ST17072 IP IGMPv2 Membership Query
 - ST17162 crashed when closing 2nd NetPS instance

4.2. Known Issues

- Auto calibration is not functional.
- When using CrossSync, multiple monitors are recommended.
- 10G Ethernet HBAs that use Clause 72 might prevent the Jammer from bringing up the link (40G Jammer works and all Analyzer configurations work). For a possible work around on Mellanox HBAs, please contact Teledyne Support.
- In 40G Ethernet AJ port configuration, the FC CRC Error detection does not work. FC CRC errors will not trigger the analyzer and will not show up in the trace. Please use the 40GE Analyzer-only port configuration to trigger / detect this error.
- The SierraFC and SierraNet hardware has industry standard SFP+ cages, and is compatible with all industry standard SFP and SFP+ modules. Specifically, the SierraFC M8-4™ has been tested and found compatible with the following brands and models:
 - Finisar FTLF8528P2BNV
 - Finisar FTLF8524P2BNV
 - Finisar FTLF8528P2BCV
 - Finisar GBC-3000 (1Gb/s)
 - PicoLight PL-XPL-VE-SG4-26
 - Infineon V23849-R35-C55
 - Infineon E429 V23849-R35-CS5
 - Tyco Electronics 2032237-2 D (copper cable)
- Likewise, the SierraFC M164™ and SierraNet hardware has been tested and found compatible with the following brands and models:
 - Finisar FTLF8529P3BCV
 - Brocade 57-000088-01
- The SierraFC M164™ requires a minor hardware change in order to work properly with Avago 16G SFP+ modules; please contact support if you plan to use such a configuration. This limitation does NOT apply to the SierraNet platforms.
- After changing the TCP/UDP port assignments in Decoding Assignments, you must save a trace to a new file in order to apply the change to that trace.

- In a 40G Ethernet jammer configuration, the Connect and Disconnect actions are not supported.
- When upgrading to 1.70 or later from a pre-1.70 release, the software updates your user preferences file to include new Spreadsheet column settings; this update overwrites existing Spreadsheet column settings, but all other settings will be preserved.
- In Batch Mode, on SierraFC M164, the Wait for Stop Jammer command might be missed if the analyzer is busy uploading a trace.
- The real-time throughput measurements on the SierraNet M408/M168 apply only to incoming traffic pre-jam.
- During Batch scenario operation, do not close the Batch window while a running scenario is uploading a recorded trace. Doing so may corrupt that trace and cause unpredictable behavior.
- The controlling PC's Ethernet connectivity to the Analyzer could be unstable when crossing multiple subnets, resulting in unexpected application behavior, such as I/O errors.
- Connecting both the USB and Ethernet host interfaces of the Analyzer at the same time is not supported. Doing so may cause unexpected behavior.
- On Windows Server 2012 R2 with certain USB 3.0 host controllers, if you power-cycle the Analyzer while it is connected to the software via USB 3.0, the software may not detect the Analyzer automatically after it finishes booting. If this occurs, switch the Analyzer to a different USB 3.0 port on your host system.
- On Windows Server 2012 R2, when dragging/dropping items in the GUI, you may not see any "shadow" of the item being dragged.
- When the SierraNet M408 is setup in a jammer configuration, 40G Ethernet DUTs may have a problem linking up through the M408 QSFP ports. Analyzer-only configurations are not affected by this limitation.
- On Windows OSES, incomplete Windows Updates have been known to cause intermittent instability in the Net Protocol Suite application. If you experience intermittent application crashes or hangs, please reboot your host system to ensure that all Windows Updates have completed, then relaunch the Net Protocol Suite application.
- The Jammer needs some periodic idles on the link it is monitoring in order to maintain the link properly. If there are not sufficient idles, you may encounter CRC and/or delimiter errors.
- When running a Batch Mode Scenario continuously on an analyzer connected via USB, you may see a "MAL error", which indicates a communication problem with the analyzer. This problem does not occur when connected via Ethernet.
- iWARP command triggers configured without a port number may falsely trigger on certain traffic patterns.
- In daisy-chained setups with SierraNet M408/M168, under certain conditions, the Uploader Manager may incorrectly represent the state of the recording memory buffer. However, it is still possible to successfully upload trace data.
- After running a batch mode scenario, the Project recording settings will retain the settings of the last-executed Start Analyzer command.
- If running Hammerhead and Net Protocol Suite concurrently, one of them may not be able to automatically discover Ethernet-connect analyzers on your network. If this happens, close both applications, then just run one of them.
- In some traffic scenarios with relatively large FC data sequences, if the entire sequence is not captured in the trace, the Link Utilization graph may not accurately present utilization during that sequence.

5. Previous Releases

5.1. Version 1.80

- This is version 1.80 of the Net Protocol Suite™ software.
- This release contains the following components:
 - Net Protocol Suite™ Version 1.80.
- This release includes the following features and enhancements:
 - ST10912 Add Real Time Traffic Profile
 - ST11124 additional templates for triggering
 - ST11749 FR - Adding "Abort Session" for cancelling the capture in early state (buffer filling)
 - ST12512 FR - add Repeat Upload functionality
 - ST12520 [FR] Make a dedicated separate Event and Action box in Infusion
 - ST13199 FR - add "Don't ask me again" checkbox for SFP polling message
 - ST13274 FR - Enhance the Project file to contain a notes entry
 - ST13474 Add "Wait for Start Analyzer" as an Event in the batch Scenario Manage
 - ST13916 Tool tips for performance measurements in Traffic Summary
 - ST14322 Make the right-click context menus for Global Library and Project Library more uniform.
 - ST14334 Make saving/loading Spreadsheet column preferences more intuitive
 - ST14341 FR: log jammer sequencer, state, timer, counter etc.
 - ST14601 Ability to inject Ordered sets (NOS, OLS, LR) at 8G
 - ST14844 FE: option to update mismatched versions
 - ST15022 Add Exchange View with hierarchical transaction display
 - ST15035 Enable changing Project device assignment via right-click menu on device image in Project GUI.
 - ST15587 Update all documentation to change "CD-ROM" references to DVD.
 - ST15611 Back channel adaptation support for 10GBASE-KR
 - ST15666 Creation of Passive Cable support matrix for inclusion in v1.75 SW release

ST15675 Ability to rename/alias subnets to user names
 ST15750 FE: TCP ports describe in software
 ST15781 Automatic detection of iWarp RDMA commands
 ST15811 add additional specific templates in trigger/filter in analyzer and jammer
 ST15871 FC-DATA return by the REPORT TARGET PORT GROUPS command
 ST15910 FE: option to display HH:MM:SS time stamp units
 ST15941 FR: search in Traffic Summary
 ST15946 FR: manual trigger
 ST15960 Additional InFusion port configurations
 ST16144 TraceExpert reports

- The following issues were fixed in this release:

ST12371 No clear indication on project what is the intent of the buffer size in project
 ST12396 FR - no shortcuts for Save and Print in Traffic Summary
 ST12494 Capturing trace with only Inspector view enabled will result in blank capture
 ST13288 'Most Recent' User Patterns keep accumulating
 ST13469 Various filter items on toolbar stop working
 ST13470 Ports are AJAJ in both directions, not AJJA
 ST13681 Need Save As for project
 ST13739 Inappropriate Error when closing project after ethernet cable disconnected
 ST13766 warning message when CATC Sync Expansion Card not installed?
 ST13859 different subnet add device failed with more than one network adapter
 ST14252 Add format option to Frame Inspector IP address fields to display them in decoded IP Address format
 ST14321 Double-click on a scenario in the Global Library doesn't do anything
 ST14324 Should not allow drag-drop copy from Project Library to itself
 ST14678 Could not use batch mode short cut when actively selected in other than Spread Sheet View
 ST15232 FR: Infusion Stop Scenario warning
 ST15329 Trigger position resets between snapshot and trigger mode recording
 ST15549 Error: There is no analyzer feature for this device
 ST15572 Priority Enable Vector: ms & ls octet swapped
 ST15607 Traffic Summary View link to "unknown" traffic inoperable
 ST15637 Add Column Naming convention needs to be corrected for IP addresses
 ST15682 Internal Trigger number mismatch between documentaion and software
 ST15712 BATCH MODE: prevent Record due to existing unsaved trace
 ST15866 Question pop up in Snashot mode with Trigger defined does not remember do not ask checkbox
 ST15947 Infusion rule error message incomplete displayed
 ST15953 Receive ROD Token Info decode
 ST16060 CRC error on high throughput traffic with 10G Jammer Mode
 ST16085 Status LED blinks while no activity
 ST16284 error updating trace file from old to 1.75b665
 ST16462 File version and product version do not match for GIGE.exe
 ST16505 crashes due while trace update or viewing updated traces
 ST16506 search ELS Command == 61: RSCN not found

5.2. Version 1.75

- This is version 1.75 of the Net Protocol Suite™ software.
- This release contains the following components:
 - Net Protocol Suite™ Version 1.75.
- This release includes the following features and enhancements:
 - ST15670 Show Task Manager descriptions by default in Spreadsheet view
 - ST15619 Notify user in case a Timer event with "symbol" units set is added to a Jammer scenario and the units are automatically changed.
 - ST15331 tool tip: Force add/connect attempt
 - ST15177 FE: Trigger Position pre/post trigger % display
 - ST15176 Ordered Set distinction in Infusion
 - ST15039 Additional Port Configurations
 - ST15036 Support Probe EQ settings for passive copper cables
 - ST15035 Enable changing Project device assignment via right-click menu on device image in Project GUI.

ST15024 LLDP subtype decodes
 ST15002 FE: FC export to Wireshark
 ST14844 FE: option to update mismatched versions
 ST14597 Review all instances of "Unexpected Data" fields in Frame Inspector
 ST14590 FE: FIP VLAN decode
 ST14385 Add NVGRE Decodes and Triggers for SierraNet
 ST14313 FR: Save jam scenarios in Global Libraries in a file for sharing
 ST14293 FE: search up/down arrow shade/coloring
 ST14144 FE: pop up message after IOHub BE update
 ST14060 Log measurements. Export to .CSV and then create a graph.
 ST13947 During FW update the front panel should read Updating Firmware
 ST13932 Enhancement: RoCE v2 decodes
 ST13756 Option to turn off warning when removing a condition from a jam scenario
 ST13755 Jammer - Modify Packet - does not change until change packet length (grayed-out fields have no effect)
 ST13754 Need a Save all segments option
 ST13620 Uninstall of software does not remove settings / preferences
 ST13508 Port alias should be updated when port configuration changes ("Before Jam / After Jam")
 ST13505 Saving a range should allow bookmarks and/or packet numbers to define the range
 ST13495 No bagel or hourglass to indicate that app is busy
 ST13473 Quick Searches start from beginning / end of Trace -- not from highlighted line
 ST12635 Add trace update options to error message
 ST12305 Make Port aliasing follow (included in) the trace
 ST10913 Discard trace when trace is pending is not obvious
 ST9139 Trying to rerun back a segmented memory capture is problematic

- The following issues were fixed in this release:

ST16025 QuickSearch and QuickFilter UI: Clicking AND/OR with second parameter results in crashes for the software
 ST15907 Crash after add/delete columns then scroll to the end of trace
 ST15902 SW crash when scrolling to bottom of trace
 ST15677 missing jammer marker in trace
 ST15676 inconsistent use of triple dots and hot keys on the menus
 ST15452 Problem with SCSI performance metrics in Traffic Summary (FCP and iSCSI)
 ST15420 Edit DWORD Matcher - no response
 ST15199 Trigger: IP Frame (IPv4)
 ST15019 Truncate payload does not work correctly
 ST15007 FE: popup to add marker when no marker in the list
 ST15004 difference between SAVE and SAVE AS
 ST14616 missing traffic when manual or event (timer) trigger mode
 ST14557 "Truncate Payload" actually truncates CRC and EOFx as well
 ST14553 Sometimes get "PCI configuration Failed (Configure Virtex)" error attempting to Activate newly connected unit
 ST14527 Entering IP address to discover analyzers cumbersome
 ST14376 Goto event should go to nearest visible event when event is filtered
 ST14375 user should be prompted to automatically change to Event trigger mode if a Trigger has been defined
 ST14260 some Spreadsheet view column edit functions don't work
 ST14137 file save as clears filter selection
 ST14132 Analyzer setting bar: up/down arrow
 ST13951 warning message with JDSU SFP+
 ST13934 "Qualifier" and "Compare" values in new LBA quick search filter do not show up in default search bar
 ST13762 Idles captured on ports that are supposed to be filtered
 ST13701 QuickView: Speed up uploading trace from analyzer (after trace finishes) – currently too slow, even with no filters - and Speed up saving the trace – currently too slow, even with no filters
 ST13696 "Insert Here" Tick" is misleading – scenario being dropped always ends up at bottom of list
 ST13680 use of Term 'uploading' post capture and pre trace save is in appropriate
 ST13486 Device manager status message is unclear between Ready and Ready to connect
 ST13470 Ports are AJAJ in both directions, not AJJA
 ST13468 QuickSearch and QuickFilter UI: Clicking AND/OR gadget disables bottom line dropdown control
 ST13431 Columns cannot be added to spread sheet view in live trace
 ST13311 close trace is greyed out - very difficult for user to discard trace and record again
 ST12905 Net Protocol Suite No Response While Uploading over USB 3.0
 ST12302 Cascaded analyzers limit trace size to 16 gig

5.3. Version 1.70

- This is version 1.70 of the Net Protocol Suite™ software.
- This release contains the following components:
 - Net Protocol Suite™ Version 1.70.
- This release includes the following features and enhancements:
 - ST12106 FR - Adding Training Sequence in Traffic Summary
 - ST12361 Dual port batch mode
 - ST13184 Add VXLAN Decodes and Triggers for SierraNet
 - ST13390 can't drag an event between states
 - ST13509 User wants greater distinction between SCSI commands like in the SAS CATC view
 - ST13522 File Save as dialog needs to be resizable
 - ST13663 Allow multiple Triggers or Marks to be inserted by Jammer into Trace
 - ST13697 "Copy Batch Scenario" feature requested
 - ST13698 "Copy Entire State" from one scenario (or sequence, or batch) to another – alternate would be "save/load state"
 - ST13700 "Select Multiple" within Library (using Ctrl or Shift key)
 - ST13759 Batch script timers default to the last entered value
 - ST13760 Condition - "any ordered set"
 - ST13809 Device Management: add host PC name & IP
 - ST13862 SierraNet LCD: add host PC name & IP
 - ST13898 Search for Data Pattern
 - ST14006 Enhancement: export/import Infusion Scenarios in Project Library
 - ST14022 Enhancement: iWARP decodes
 - ST14039 Would like the Jammer disconnect ability to include disconnect one side only
 - ST14044 ability for jam scenario on one port to trigger an event on a different port
 - ST14116 Traffic Summary: add Orderset
 - ST14126 SCSI SBC, SPC commands and responses should be decoded
 - ST14139 Ordered sets cannot be filtered in HW
 - ST14225 FE: iSCSI Login Response Data
 - ST14226 FE: "Unknown" for unassigned port numbers
 - ST14296 Enable "0_AJA 0_AJA" port configuration
 - ST14323 Add user confirmation prompt to Delete action in Global Library.
 - ST14340 FE: Scenario name in Project bar
 - ST14366 Support bi-directional jammer
 - ST15149 FR: IBM 3490 tape command decodes
 - ST5896 FR - "Capture Data Dword": Cannot reuse the value in an event, only in another jam action.
- The following issues were fixed in this release:
 - ST11741 Delete "New User Group" in FlexPort configuration on one side removes "New User Group" on both sides FC and GigE ports
 - ST11797 Index' numbering in Frame Inspector are not consistent across Spec, Field, and Raw Data views, and important Frame information (delimiters) is missing
 - ST12058 Can't copy or easily view Marker data
 - ST12732 Customer has connectivity issues when connecting to the M408 when connected on a different subnet from the host computer
 - ST13006 Frame view does not remember user sizing of columns
 - ST13248 user needs a way to remotely reboot the box
 - ST13470 Ports are AJAJ in both directions, not AJJA
 - ST13475 Recent files shows duplicate entries: one with back slashes, other with forward slashes
 - ST13501 Allow to specify type of delimiter for every specific frame
 - ST13502 When "connect automatically" is chosen, SW should attempt to connect to "Added" analyzers (across subnets)
 - ST13580 Scenarios copied from a project to global library can't be copied back to a project
 - ST13603 Infusion - 40G - Inject Order Set Error is not functional
 - ST13651 save/load for advanced search and advanced filter not working
 - ST13681 Need Save As for project
 - ST13687 Mouse-over/Tooltip and logged name of Scenario Event don't update if event is modified (e.g. change read to write)
 - ST13689 Simple Filters: Can't rename filters / edited filters have no names
 - ST13691 Issues with Output logs not being saved while Batching Scenarios
 - ST13761 "Edit Filter" does not edit current filter
 - ST13778 Device in other subnet connects automatically but is not activated

ST13786	throughput value incorrect on specific port configuration
ST13811	FCPCDB Length field not decoded correctly
ST13815	Inject in Frame does not work properly in high throughput traffic (40G)
ST13817	Jammer against high throughput 40G traffic introduces protocol errors in the lane.
ST13876	Daisy chain of M408 and M168 is not possible if both is set to 40G speed
ST13878	GS command decode not match between traffic summary and spec inspector / spread sheet
ST14041	Timestamps are display in nonsensical notation
ST14089	ALT key does not toggle back Menu Bar
ST14102	device with 2nd IP address cannot be added/connect (SUBNETS)
ST14141	Ping on add device doesn't work (across SUBNETs)
ST14157	M168 hung
ST14202	Duplicate RPS Triggering for FC Projects
ST14262	Need to see the Scenario jam direction in the project for the selected scenario
ST14337	software crashed (navigate between multiple instances)
ST14399	Save project from a trace
ST14555	Must manually Activate, Deactivate, and then reactivate analyzer to recover from software crash
ST14588	FE: FICON Status and Control Function fields decode
ST14677	Copy paste content from column view into batch global variable will be shown as XML
ST14802	Cannot customize pattern for FC search/filter
ST14887	40G Speed LEDs on for FC port configuration
ST14923	SierraNet does not display Fibre Channel primitives
ST14924	Unable to view Trace Information detail in SierraNET SW
ST14931	Missing API header files required to compile example projects
ST14934	ELS Command 7E not decoded
ST14998	Auto update mechanism in software not fully working as described.
ST15113	Crash on clicking Stop button in analyzer session
ST15159	Non reproducible crash after trace open
ST15326	Throughput windows
ST15330	Add Device: Ping
ST9876	Port Name field, the first 4 bits is the identifier, not part of port name

5.4. Version 1.61

- This is version 1.61 of the Net Protocol Suite™ software.
- This release contains the following components:
 - Net Protocol Suite™ Version 1.61.
- The following issues were fixed in this release:
 - ST14946 – No documentation for the new Batch Global Variables feature.
 - ST14931 – Missing API header files.
 - ST14923 – FC primitives not displayed in spreadsheet

5.5. Version 1.60

- This is version 1.60 of the Net Protocol Suite™ software.
- This release contains the following components:
 - Net Protocol Suite™ Version 1.60.
- This release includes the following features and enhancements:
 - ST14395 FE: Add "Close project" to File menu
 - ST14088 DCBX decode
 - ST14067 Traffic Summary: add source/destination address columns
 - ST13758 Selecting a new scenario that has Sequence 1 or Sequence 2 content should expand them
 - ST13690 Execution of Batch Scenario limits max number of repeats to 32
 - ST13504 Port alias should be visible/used everywhere, not just in spreadsheet view
 - ST13488 Minimum application width of 1280pixels is too stringent
 - ST13367 Add both FIP VLAN request with 2 and 5 DWord descriptor length to trigger and filter menu
 - ST13366 Add "any FIP" to trigger and filter menu
 - ST12806 Decimal data display format in Frame Inspector View

- ST12617 GigE Filter: enter pattern in Data by type the value (instead of mouse click -> Edit Value)
- ST12615 User defined/proprietary decodes
- ST12516 iSCSI decode not shown in Protocol Suite
- ST9863 Support 8GB DDR3 DIMMs on M408 for a total of 64GB buffer size
- ST13751 User need a way to disable quick view

- The following issues were fixed in this release:

- ST14339 incorrect timestamp in Marker List
- ST14312 jammer generates ELS Request delimiter error
- ST14307 Timestamp roll back to earlier
- ST14302 FCP-DATA without EOF but not flagged as error
- ST14301 Jam: DISCONNECT follow by CONNECT with same time stamp
- ST14264 SierraNet does not detect CRC errors
- ST14159 16G speed detected in 4G devices during speed detection
- ST14136 original trace is lost when using "file/save as" on a trace with filtered items save displayed only - no warnings either
- ST14100 Error message "Invalid APU Program Size" when recording
- ST13893 Running Scenario project first time on 40G link will result in a disconnect
- ST13817 Jammer against high throughput 40G traffic introduces protocol errors in the lane.
- ST13679 When increasing the number of segments the max segment size does not change
- ST13645 TM LUR Frame View is decoded correctly but in the Spreadsheet view is having issues
- ST13632 LISM, LIFA, LISA, etc mis-decoded at "AL REQUEST : TEST"
- ST13606 SierraNet precise time stamps are wrong in multi-protocols captures
- ST13513 Renamed user patterns lose name when inserted into scenario
- ST13487 The question in the file save as dialog should have a yes no answer
- ST13483 Channel filter drop down disappears
- ST12808 minimum window size is too large
- ST12791 "%82" uploading reported in SierraNet uploading progress bar
- ST12713 [CrossSync] - SierraNet prevents other application from successful termination
- ST12443 Network congestion causes device disconnection and eventually Application Crash

5.6. Version 1.50

- This is version 1.50 of the Net Protocol Suite™ software.
- This release contains the following components:
 - Net Protocol Suite™ Version 1.50.
- This release includes the following features and enhancements:
 - Support for FC Jammer on both SierraNet M168 and SierraNet M408 (add USB support)
 - Support for 40G Jammer on SierraNet M408
 - Support Full Flex port (adding a few port configurations for supporting flex port)
 - ST12807 Traffic Summary: add source/destination address columns.
 - ST12782 Add Jammer Batch Scenarios with GUI
 - ST12636 Quick Search and Advanced Filter (Filter on fields)
 - ST12408 Add central library for Jam scenarios in Net Protocol Suite
 - ST12255 Decode iSCSI deeper into the protocol structure
 - ST12246 Layer 2 triggering
 - ST11863 FR - Ability to show packet length in Spreadsheet view
 - ST11862 FR - Closing trace before pressing Record for next trace is nuisance
 - ST11402 Support for RoCE (RDMA over Converged Ethernet)
- The following issues were fixed in this release:
 - ST13004 File information crashes Net protocol suite on sample file
 - ST11820 In FC, our default filters include more than Idles, which is not correct
 - ST12743 Analyzer sending disparity error after jamming FC 8G traffic
 - ST12614 Decode: Ethernet Type, Protocol fields unknown for Length/Type field

5.7. Version 1.40

- This is version 1.40 of the Net Protocol Suite™ software.
- This release contains the following components:
 - Net Protocol Suite™ Version 1.40.

- This release includes the following features and enhancements:
 - Support for FC Jammer on both M168 and M408 (over Ethernet only)
 - Upload performance improvements for traces that have many IP/MAC addresses.
 - ST11916 Add Support for BB-6 Specification for FCoE – A new settings added to preferences for switch between BB-5 and BB-6
 - ST11892 FR - add Copy/Paste for scenarios in Net Protocol Suite to allow moving scenarios from/to projects
 - ST11865 Capture packets/frames over 16k size is not working. Now “Super Jumbo” frames of up to 31KB can be captured.
 - ST11778 FR- Add Trigger for inter-packet gap (IPG)
 - ST11731 Add OUI Table to Net Protocol Suite Trace Decodes, Triggers, and Filters
 - ST11703 FR - Reset Port Status. Right click on the Port Status indication and select Reset.
 - ST11629 FR - Explicit Local fault and remote fault (and others) ordered sets triggering
 - ST11506 FR - please add UDP ASCII data to software view
 - ST11289 FR - ability to filter Training Sequence based on Control and Status fields
 - ST11265 FC Training sequences do not appear in trace
 - ST11040 Add Filtering on LUN's for FC & ENET analysis cases
 - ST10927 Resetting Filters is not same as other protocol suites - need a Disable Filter button in toolbar.
 - ST10914 Add "Marker" column to Spreadsheet View (on left side)
 - ST10010 Search and Filter on tree libraries - FR - Contextual Search needed in 'Trigger' 'Filter' 'Hide/Show' and 'Search' Menus
 - ST9936 FR - Add Spanning Tree, PVST+ Decodes and Triggers
 - The following issues were fixed in this release:
 - ST12030 Upload hangs when trace has random MAC addresses
- ST11820 In FC, our default filters include more than Idles, which is not correct

5.8. Version 1.30

- This is version 1.30 of the Net Protocol Suite™ software.
- This release contains the following components:
 - Net Protocol Suite™ Version 1.30.
- This release includes the following features and enhancements:
 - Support for new SierraNet M168 platform
 - Support for 10G Jammer on both M168 and M408 (over Ethernet only)
 - Support for native FC analysis on both M168 and M408
 - Auto Calibration on FC16G paths on both M168 and M408 (over Ethernet only)
 - Auto-calibration on 40G (including Splitter) (over Ethernet only)
 - New Auto calibration GUI
 - Search on Fields (Advanced search)
 - Support 2-port based FlexPort Port Configurations (FC + GigE) (analyzer only)
 - New Port configuration dialog
 - 40G Support
- The following issues were fixed in this release:
 - ST11505 Add column to display UDP address doesn't show anything
 - ST10926 command Op codes shown but not decoded

5.9. Version 1.20

- This is version 1.20 of the Net Protocol Suite™ software.
- This release contains the following components:
 - Net Protocol Suite™ Version 1.20.
- This release includes the following features and enhancements:
 - Support for FC InFusion running on SierraFC M8-4 and SierraFC M164
 - Support for 40G Ethernet via the 2 QSFP ports
 - Manual and automatic probe settings for optimizing the 40G front end
 - iSCSI decodes with reassembly (triggering on iSCSI assumes no reassembly is required)
 - CrossSync support to allow daisy chaining with LeCroy analyzers of other technologies
 - Increased timestamp resolution to 1 ns (addresses ST10546)
- The following issues were fixed in this release:
 - ST11175 Synchronization between Header and Block Payload
 - ST11010 Source and Destination IP address columns are swapped.

5.10. Version 1.10

- This is version 1.10 of the Net Protocol Suite™ software.
- This release contains the following components:
 - Net Protocol Suite™ Version 1.10.
- This release includes the following features and enhancements:
 - Support for SierraFC M8-4 and SierraFC M164
 - Quick Filter
 - Quick Search
 - iSCSI triggers and decodes (without reassembly)
 - Complete support for daisy chaining multiple SierraNet systems, as well as intermixing with SierraFC M8-4 and/or SierraFC M164.
 - Timing calculations
- The following issues were fixed in this release:
 - ST9772 TCP Packets Corrupted (when recording back-to-back short frames).
 - ST9539 incorrect SCSI command find list for Test Unit Ready

5.11. Version 1.01Beta

- This is version 1.01 Beta of the Net Protocol Suite™ software, and contains the following components:
 - Net Protocol Suite™ Version 1.01 Beta.
- Issues that were fixed:
 - ST9772 TCP Packets Corrupted (when recording back-to-back short frames).

5.12. Version 1.00

- This is the first release of the Net Protocol Suite™ software and contains the following components:
 - Net Protocol Suite™ Version 1.00.

6. Support

Online Download

Please enable automatic checking for software updates by using 'Help' → 'Check for Updates' from the software menu. You can also check LeCroy Protocol Solutions Group's web site for software updates and other support related to this product. Software updates are available to those users with current Maintenance Agreements.

Online Support

Web: teledynelecroy.com/support/contact/
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