

NetScanTools® Pro



Monthly Newsletter

www.netscantools.com

November 2018

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News...

From the Editor...

Like October, we had many releases in November. The NetScanTools Pro changes were minor, but still important while the Managed Switch Port Mapper changes were more extensive. Check out the new NetScanTools Pro Tip.

Holidays are rapidly approaching!

-Kirk

SSL Certificate Scanner Standalone Version 2.62.1 Released Nov 20, 2018

This is a minor release to bring it up to the same level as the version included as part of NetScanTools Pro. Exporting to CSV files now exports with commas instead of semicolons. The automatic update check was improved and SQLite was updated to the current version 3.25.3.

Start the software and answer yes to get the latest version or visit this web page and install over the top of your current version.

<https://netscantools.com/ssl-certificate-scanner-standalone.html>

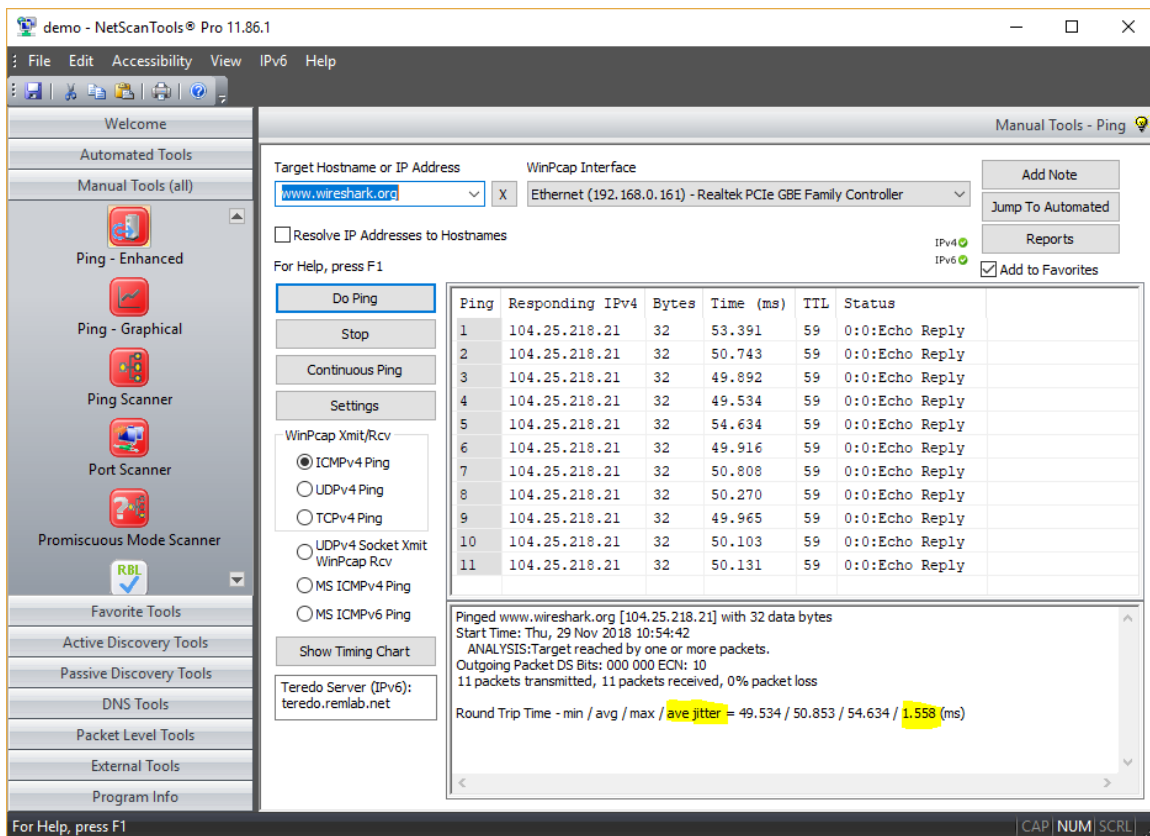
IPv4 or Hostname	Port	Valid?	Connection Bits	SSLv2	SSLv3	TLS1	TLS1.1	TLS1.2	Public Key	Valid From	Valid To	Signature
1 switchportmapper.com	443	Yes	256	No	No	Yes	Yes	Yes	ECC (384 Bits)	10/19/18 04:36:00	01/17/19 04:36:00	SHA256R
2 nwpsw.com	443	Yes	256	No	No	Yes	Yes	Yes	ECC (384 Bits)	10/30/18 11:36:17	01/28/19 11:36:17	SHA256R
3 lineagemanager.com	443	Yes	256	No	No	Yes	Yes	Yes	ECC (384 Bits)	11/19/18 11:15:06	02/17/19 11:15:06	SHA256R
4 netscantools.com	443	Yes	256	No	No	Yes	Yes	Yes	RSA (2048 ...)	10/03/18 16:00:00	01/02/19 15:59:59	SHA256R
5 www.fastspring.com	443	Yes	256	No	No	Yes	Yes	Yes	RSA (2048 ...)	05/05/17 07:09:01	05/05/19 06:19:01	SHA256R

NetScanTools Pro 11.86.1 Released Nov 15, 2018

This release focusses on improvements in three areas:

- 1. Fixing the SMB Scanner shares retrieval so that when the remarks/comments from the remote host include single or double quotes. If those quotes were seen it would cause an SQLite exception because those are reserved characters in SQL.**
- 2. Added a jitter calculation to the Ping – Enhanced Tool results.**
- 3. Finished updating all the left control panel icon tooltips and status bar text.**

Ping – Enhanced showing a jitter calculation



The screenshot displays the NetScanTools Pro 11.86.1 interface. The 'Manual Tools - Ping' window is active, showing the target 'www.wireshark.org' and the interface 'Ethernet (192.168.0.161) - Realtek PCIe GBE Family Controller'. The 'Do Ping' button is highlighted. The results table shows 11 successful ping attempts with a jitter of 1.558 ms.

Ping	Responding	IPv4	Bytes	Time (ms)	TTL	Status
1	104.25.218.21	32	53.391	59	0:0:Echo Reply	
2	104.25.218.21	32	50.743	59	0:0:Echo Reply	
3	104.25.218.21	32	49.892	59	0:0:Echo Reply	
4	104.25.218.21	32	49.534	59	0:0:Echo Reply	
5	104.25.218.21	32	54.634	59	0:0:Echo Reply	
6	104.25.218.21	32	49.916	59	0:0:Echo Reply	
7	104.25.218.21	32	50.808	59	0:0:Echo Reply	
8	104.25.218.21	32	50.270	59	0:0:Echo Reply	
9	104.25.218.21	32	49.965	59	0:0:Echo Reply	
10	104.25.218.21	32	50.103	59	0:0:Echo Reply	
11	104.25.218.21	32	50.131	59	0:0:Echo Reply	

Pinged www.wireshark.org [104.25.218.21] with 32 data bytes
Start Time: Thu, 29 Nov 2018 10:54:42
ANALYSIS: Target reached by one or more packets.
Outgoing Packet DS Bits: 000 000 ECN: 10
11 packets transmitted, 11 packets received, 0% packet loss
Round Trip Time - min / avg / max / **ave jitter = 49.534 / 50.853 / 54.634 / 1.558 (ms)**

Here are the full list of changes in v11.86.1:

- -Fixed SMB Scanner shares retrieval so it can accommodate shared resource remarks containing single and double quote marks.
- -Added jitter calculation to Ping - Enhanced results.
- -Updated left control panel icon tooltip and status bar text.
- -Updated SQLite to version 3.25.3
- -Updated MAC address/Manufacturer database.
- -Updated IP to Country database.

Click on Help menu/Check for Update to get the latest version – however, you must have an active maintenance plan to get this new version. USB version users will be downloading a patch – follow the directions carefully. Installed version users will be installing over the top of their current installed version.

Managed Switch Port Mapping Tool 2.82 Released Nov 9, 2018

This release has several important changes. Parsing of MAC addresses and to a certain extent IPv4 addresses in certain LLDP and CDP fields has been an ongoing problem. It has been solved – at least for all the test cases and customer test cases we could find. As part of that effort, we added a new command line option 'supportmode' which activates support mode so the support.db3 file is created. This

gives us a way to follow the algorithm and see on a high level what responses we are getting from the switch.

The Review History window now has a button for exporting the lower right window contents to a text file. This is most useful after doing a search as shown below.

Review and Search Historical Switch Mapping Results

Use this tool to retrieve for review a previous switch mapping from the history database. Do a text search in fields of the history database.

Current History Database Size:
15589376 bytes. (14.87MB)

Click on a test from the Mappings list below, then select the individual test to view in the Available Results list.

Export Selected Switch List to 10SCAPE
Export Selected Switch List to XML
Export Sel Switch List Port Usage to XML
View Report on Selected Switch List

Switch Lists or Manual Mappings

Switch List Mappings
Manual Switch Mappings

Text Search - see Available Results below after pressing Search

Search for... 00:

Select one... Search

Switch IP Address
 IP Address (attached devices only)
 MAC Address
 Hostname
 Port #Alias
 I/F Manuf
 VLAN

LLDP
 CDP

Begins with
 Ends with
 Contains

Export Results to Text File

Mappings retrieved are displayed in the main results grid.

Show Mapping Differences
Export Selected Mapping to 10SCAPE

Available Mapping Results*
*Double Click to View in Results Grid

View Selected Mapping in Results Grid

No.	Switch List Name	Start Time
1	missing	08/08/18 08:46:31
2	missing	08/08/18 08:44:53
3	missing	07/05/18 15:15:30
4	missing	06/28/18 16:05:35
5	missing	06/28/18 14:58:46
6	missing	06/28/18 14:52:04
7	today	06/27/18 08:31:51
8	importedFromSwitchListFile	05/18/18 09:17:26
9	test1	05/18/18 09:02:58
10	today	05/11/18 10:20:19

No.	Switch IP Address	Start Time	ifName	String Found
2	192.168.0.195	11/15/18 09:56:04	g2	00:30:48:98:5A:7
3	192.168.0.227	11/09/18 14:58:00	e21	00:18:4D:D5:C7:
4	192.168.0.227	11/09/18 14:58:00	e7	00:E0:2B:00:00:C
5	192.168.0.227	11/09/18 14:58:00	e7	00:64:40:33:8D:C
6	192.168.0.227	11/09/18 14:58:00	e7	00:64:40:33:8D:C
7	192.168.0.227	11/09/18 14:58:00	e7	00:30:48:98:5A:7
8	192.168.0.227	11/09/18 14:58:00	e7	00:16:C8:35:40:C
9	192.168.0.221	11/09/18 14:57:08	CPU Interface: 1/3/1	00:18:4D:D5:C7:
10	192.168.0.221	11/09/18 14:57:08	1/0/12	00:E0:2B:00:00:C

Current History Database: C:\Users\kirk\AppData\Roaming\NWPS\ManagedSwitchPortMapper\history-video.db3

Delete Selected Results Delete Results by Date Delete All Results Compact Database Change Database Open Folder Close

Some important algorithm changes were done. The first is a 'speed up' change – if the hostname column is not visible, it no longer goes through and resolves IP address to hostnames even if the checkbox for doing that in the left control panel is checked.

The second involves command line operation. There was a 'modal' dialog that appeared if the DNS watchdog time was exceeded. This no longer appears so the command line mappings will continue uninterrupted.

Changes in version 2.82:

- Improved processing of MAC addresses in both LLDP PortIdSubtype and CDP Device ID fields. IPv4 addresses appearing as hex in certain CDP fields are now properly identified and formatted as IPv4 addresses.
- Added new command line option "supportmode" for diagnosing the data queries and responses and the algorithm taken during switch mapping. It creates the support.db3 file and does not delete it on exit as happens when it is started from the help menu.
- Added button to Review History for exporting database search results as a tabbed delimited text file.
- Added Revision History link to help menu.

- Expanded error message reporting when automatic check for update has a communication problem with the server.
- Algorithm change: if hostname column is not visible, IP addresses are not resolved.
- Algorithm change: if operating from command line mode, DNS watchdog timer is not used.
- Updated MAC address/Manufacturer database.
- Updated SQLite to version 3.25.3

Click on Help menu/Check for Update to get the latest version. USB version users will be downloading a patch – follow the directions carefully. Installed version users will be installing over the top of their current installed version.

Plans for the next releases of NetScanTools Pro and the Managed Switch Port Mapping Tool

NetScanTools Pro. Add in a jitter calculation and line to the graphical traceroute tool. Create a separate latency and jitter tool that continuously operates with several targets and shows the results in a graph.

Managed Switch Port Mapping Tool. Create an additional method of export to XML of the Switch List results. In addition to exporting each switch to a separate sheet, create an export with all switches on one sheet and a new extra left hand column showing the switch IP.

NetScanTools® Pro Tip

Exporting data for spreadsheets. Periodically we get questions about how to import data into spreadsheets. Recently we had a question about getting the ARP Scan results into a spreadsheet. The easiest way to do that is to right click in the results and select Save Results to Text File. When it is saved, each column is delimited by a tab character. Import the text file into Excel or your preferred spreadsheet using the tab delimiter. This method applies to any grid-based results like ARP Scan, DHCP Server Discovery, Ping Scanner, Traceroute etc.

Contact Information

If you have any questions or suggestions, please feel free to email.

Northwest Performance Software, Inc.
PO Box 1375
Sequim WA 98382
(360) 683-9888
www.netscantools.com
sales [at] netscantools [dot] com

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