

# NetScanTools® Pro



## Monthly Newsletter

www.netscantools.com

January 2019

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## News...

### From the Editor...

I did not do a newsletter in December. The holidays and the extensive website work made it too difficult to get a newsletter out. That said, I do want to wish everyone a Happy New Year (late). Thank you for your support in 2018.

-Kirk

## NetScanTools Basic 2.43 Released Jan 18, 2019

**This is a minor release – please visit [netscantools-le.com](https://www.netscantools-le.com) or click on Help menu/Check for New Version. Changes:**

- Internal changes to improve DNS queries.
- Changed text on some of the NetScanTools Pro information buttons.
- Updated SQLite to v3.26.0.0
- Changed date to 2019.

## NetScanTools.com Website Updated

**An effort started a couple years ago is now 99% complete. NetScanTools.com has been converted from an old style Frontpage with Flash site to one based on Bootstrap.** Whether you visit the site from a desktop machine or a phone, the site will automatically scale to your device.

There are still some video pages that need to be converted away from Flash, but they need to be reviewed and revised as necessary.

All our websites now use templates based on Bootstrap and it will provide visitors with a consistent experience across all site.

Visit <https://www.netscantools.com/> and have a look around.

## 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.

The next release will fix some issues with DNS queries and will also offer a solution to a problem where WinPcap (or Npcap) is disabled during Windows 10 twice yearly version upgrades. Also an improvement to DHCP is in work and being tested.

A new rapid repetition ping tool with logging is in work but will probably not be complete for the next minor release. The purpose of it is to send ping packets rapidly (approx. 5ms repetition rate or slower), save the response for analysis after sending is complete.

**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.

We will be removing all references to 10SCAPE since they went out of business at the end of 2018.

## NetScanTools® Pro Tip

**Database Maintenance.** Did you know that many results of tools like Ping, ARP Scanner, SNMP are automatically saved to a results database? This database is used to produce reports in your web browser when you press the Reports button on the upper right of the tool.

The Database Maintenance window is accessed through the Program Info left panel or through the Accessibility menu. There are tools for erasing data by date, changing the results database currently in use and going directly to folders (directories) used by the software. You can see how many records are in the results database and the age of the records. Use that to determine if you need to erase older records.

If you think the database is getting too big or has old stale records in it, you can erase them from this window. It is especially important to consider doing this if you have the USB version where all folder locations are on the USB drive itself.

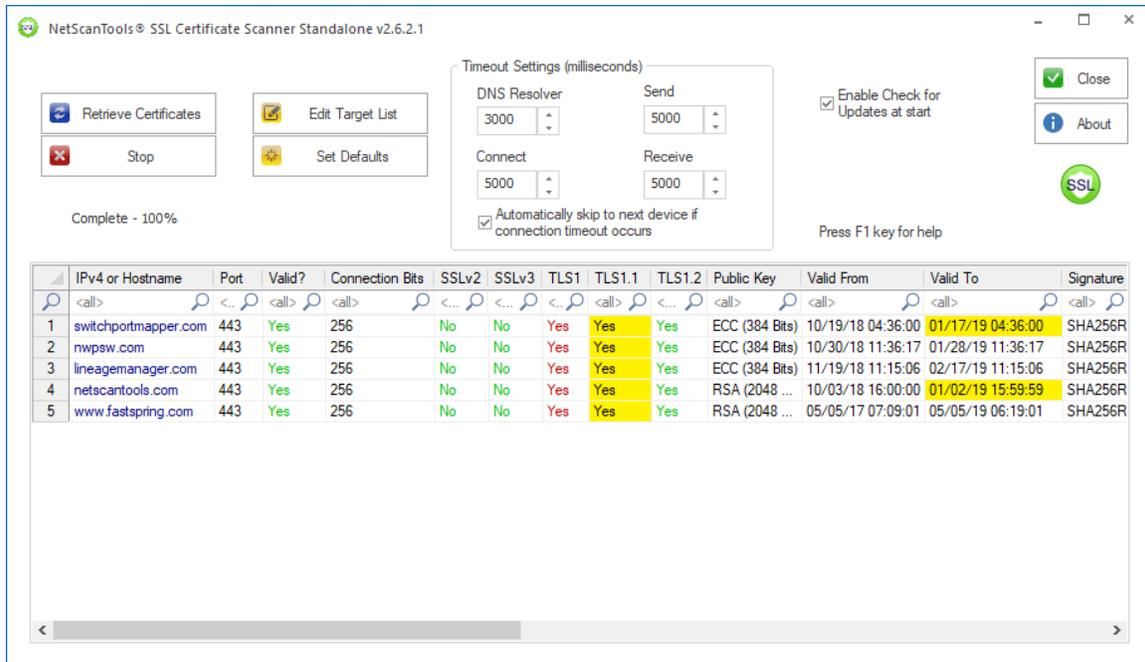
Another button is to note is the Clear All Favorites button. This clears out the list of tools found in left control panel Favorite Tools.

## 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>

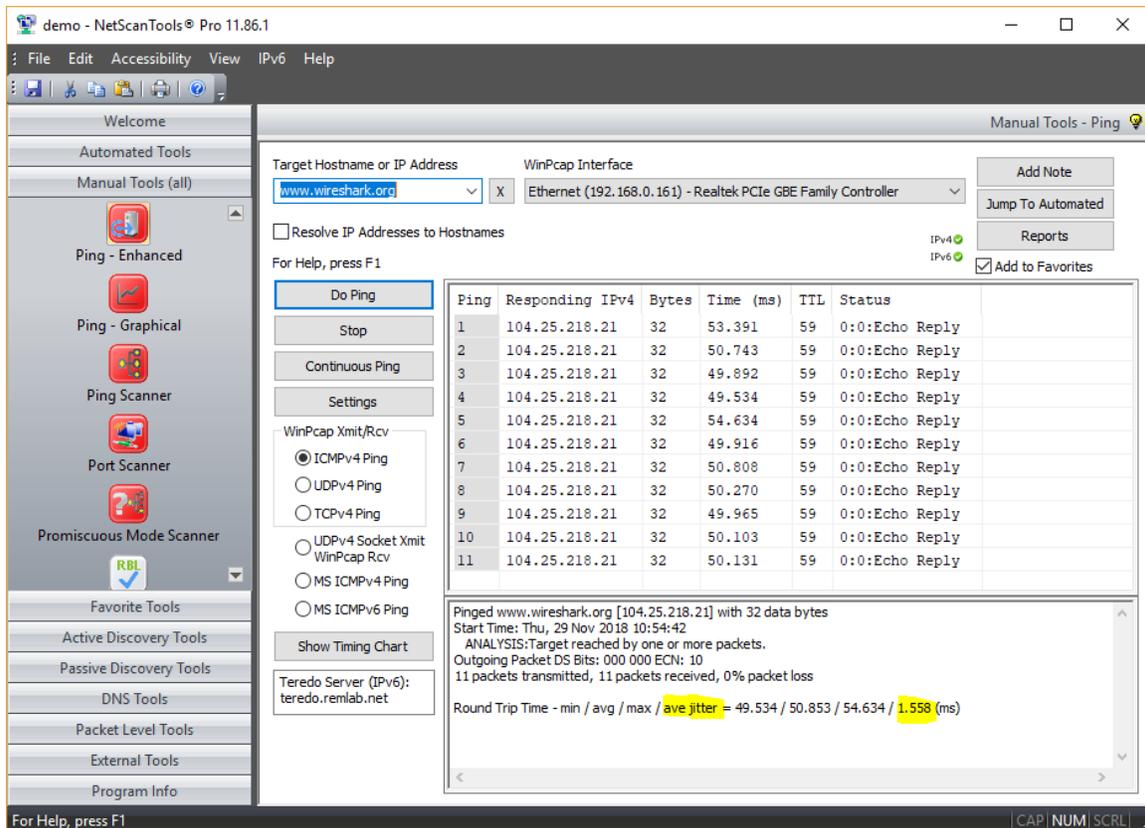


## NetScanTools Pro 11.86.1 Released Nov 15, 2018

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**



### 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

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

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 ifAlias  
 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 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

Open Folder

Delete Selected Results Delete Results by Date Delete All Results Compact Database Change Database 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.

## Contact Information

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

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