

# NetScanTools® Pro



## Monthly Newsletter

www.netscantools.com

April/May 2015



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## News...

### From the Editor...

I missed doing the April newsletter....more below.

-Kirk

### What happened to the April Newsletter?

We had technical difficulties with the old Dell Dimension 8200 computer that has MS Office on it. The power supply died. Unbelievably, it was only 170W. It was replaced with a 250W supply and as a bonus; the computer started operating faster than it had for years. Fascinating – I had no idea that computer speed could be affected that much by a stressed power supply.

## Windows 10 build 10061 and 10074 restored WinPcap 4.1.3 Operational Capability

**Beginning with build Windows 10 build 10061 and continuing through build 10074, WinPcap 4.1.3 began operating normally after failing to operating in builds 10041 and 10049.**

When WinPcap failed to operate in those two builds, Wireshark, NetScanTools Pro and NMAP failed to work properly. Maybe Microsoft heard about this and decided to fix it. I suspect it the problem was in the NDIS functionality. WinPcap 4.1.3 was built using NDIS 5 and NDIS 6 was introduced in Windows Vista, so you can see just how far behind WinPcap is. There is talk of updating WinPcap soon.

Even if WinPcap gets updated to NDIS 6, there is another issue. Beginning with Windows 10, all x64 kernel drivers (like WinPcap) will need to be code signed with a special EV certificate and be registered with Microsoft or they will not be allowed to run. Read about that here:

<https://www.osr.com/blog/2015/3/18/microsoft-signatures-required-km-drivers-windows-10/>

I have updated this blog post about the WinPcap issue here.

<http://netscantools.blogspot.com/2015/03/winpcap-and-wireshark-problems-on.html>

## Managed Switch Port Mapping Tool v2.52 Released May 11, 2015

**Version 2.52 was the third release in three weeks and it addressed ongoing 'strange' characters that appeared in CDP and LLDP.** These strange characters were not frequent, but when they appeared it was possible that the characters would make the SQL command strings fail giving the user a SQLite error message. This was particularly true if one of the characters was a single or double quote. Other problems in LLDP included algorithm issues where the LLDP information did not always get parsed and displayed. There were also user interface responsiveness issues with CDP and LLDP on large populated switches where the software appeared hung (but it was not) – those were addressed.

Version 2.50 added many improvements to help users operate the software more quickly like selection of previously used community names from the database. You can now import lists of devices along with their SNMP v1/v2c parameters from a text file.

**Download version 2.52 from here:**

<http://www.switchportmapper.com/>

*Here is the full revision history for the three releases from April and May:*

### **2.52 May 11, 2015**

- This release addresses problems in LLDP and CDP parsers that occasionally presented unreadable characters which, in turn might cause an SQLite error.
- LLDP: fixed MAC address and Network address to always show hex output.

- CDP: fixed 'Port (ifName)' and 'Device ID' to show either text (if printable) or hex representation.
- Changed LLDP and CDP retrieval phases to be more responsive to user input.
- Improved LLDP parser so it now works for more switch models.
- SNMP Walk Tool: fixed output parser to show hex instead of non-printable characters. Problem was normally seen while showing MAC addresses.
- Removed an 'are you sure?' popup question for deleting a switch group from a Switch List in the Switch List Editor.
- Improved switch information in final Switch List Results Analysis Report.
- Changed unused ethernet ports section of browser reports to show only if no MAC addresses are on the port and the port is down.
- Fixed formatting on Upstream or Downstream Directly Connected Devices Reported by LLDP and/or CDP in final Switch List Results Analysis Report.
- Updated SQLite to version 3.8.10.1
- Updated MAC address/Manufacturer database.

### **2.51 April 29, 2015**

- Fixed problem where simply moving mouse over Column Order and Visibility Editor listboxes would cause program crash.
- Updated MAC address/Manufacturer database.

### **2.50 April 21, 2015**

- Added Bulk Import of SNMPv1/v2c Device Settings from a text file. See Switch Lists/Device Settings Editor/Import Devices.
- Added Unused Ports Table to Switch Report and improved the same table in the Switch List Results Analysis Report.
- Added new checkbox to Global Settings to control display of Ping Sweep List Empty message.
- Added new checkbox to Global Settings to control display of Duplicate Hostname Warning message.
- Added new checkbox and box to Global Settings for removing stale IP to Hostname resolver entries from the IP/Hostname table. Default is to remove entries older than 3600 seconds (1 hour).
- Added method in Review History to change to or create a new history database.
- Added a SNMP Community Name selection button into Device Settings. It brings up a window showing the currently used read or write SNMP v1/v2c community names for quick selection.
- Corrected problems with Database Protection.
- Database Maintenance/Import ARP Table can now accept comma separated fields in addition to tab separated fields.
- Updated SQLite to version 3.8.9
- Updated MAC address/Manufacturer database.

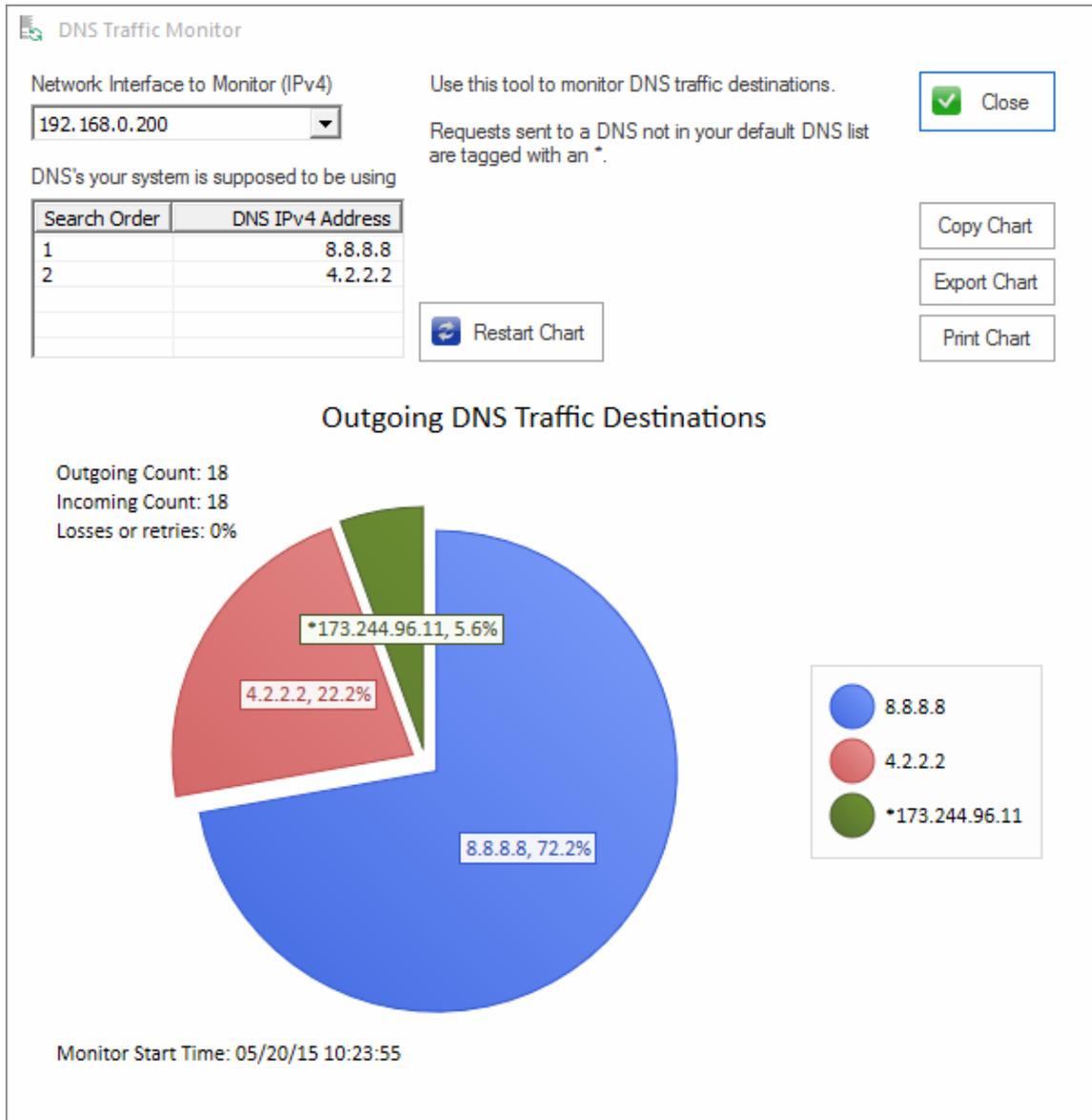
## **NetScanTools Pro 11.70 Status and New Tool Preview**

**NetScanTools Pro 11.70 is being worked on nearly every day.** I am converting it all to a newer compiler and doing bug fixes and improvements as I come to them. I expect to get it done in very early June.

Here is a new tool call the DNS Traffic Monitor. The purpose of the tool is to show the DNS's assigned to your system and show the percentage of traffic going to each

DNS. Any packets sent to a DNS not in the list are shown – this could indicate everything from a program with the ability to query any DNS (like NetScanTools Pro) to a malware.

Check out this image of normal DNS query traffic with a query going to DNS not in the list:



## NetScanTools LE 1.52 Released March 6, 2015

**NetScanTools LE 1.52 was a much needed release.** It slightly changed the operation of the port scanner and also changed the way whois queries are done for IPv6 input. SQLite was updated as were the databases. It also was tested on Windows 10 release 9926 and worked fine, but now does not work properly on release 11041 for the reasons outlined above. A new release will be forthcoming soon to address other issues that came to light with Windows 10 release 10041.

Full info about the release is here:

<http://www.netscantools-le.com/>

## Tech Support Tip: Managed Switch Port Mapping Tool

**Recently we had a couple of tech support problems with v2.41.** The problem the users reported was already fixed in v2.42. The software will tell you when a new release is ready when you start it up. Please obtain the latest release (currently 2.52) as soon as possible and be sure you are on the latest release before reporting a problem.

We are no longer able to provide support for the v1.x series, please upgrade to 2.x.

## SwitchPortMapper.com Website Makeover

**It's been a bit over a year since nwpsw.com was converted to Bootstrap and I spent the greater part of February converting and doing a full makeover of SwitchPortMapper.com.** It now runs on Bootstrap using a template called Unify. The advantage of Bootstrap is one codebase for all site users. In other words, the site is automatically scaled to look great for mobile, tablet and desktop users. NetScanTools.com will also be converted this year and nwpsw.com will get the same Unify template added (much quicker changeover since it is already bootstrap). Bootstrap can be seen at <http://getbootstrap.com/>

Please have a look at the makeover: <http://www.SwitchPortMapper.com/>

## Contact Information

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

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