

# NetScanTools® Pro



## Monthly Newsletter

www.netscantools.com

May 2017

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#### News

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## News...

### From the Editor...

What happened to May?

-Kirk

### **Managed Switch Port Mapping Tool v2.75, 2.74.1, 2.74 released**

**Managed Switch Port Mapping Tool v2.74 introduced 4 new optional columns and made changes to Link Aggregation.** And it maps faster. Some things slowing the mapping process were removed and the way the history database gets written to was changed speeding up everything.

Two of the new columns are generic – Assigned VLAN and Partner Port Id (for Link Aggregation, LACP LAG and PAGP) and two are currently Cisco IOS/NXOS only – Trunking (as in VLAN trunking) and Port Security. Many important fixes were done including better parsing of LLDP and we added two new CDP fields – Duplex Mode and Native VLAN. See Settings and Tools menu/Column Order and Visibility Editor.

2.74 has a huge set of changes with many minor fixes and improvements. The list below is extensive and in some cases fixes are for nagging issues that have gone on for a long time.

Versions 2.74.1 and 2.75 were minor fixes to things introduced in 2.74.

2.75 May 26, 2017

- Fixed problem where certain columns like Mode might show what appears to be an empty cell.
- Updated SQLite to version 3.19.2
- Updated MAC address/Manufacturer database.

2.74.1 May 19, 2017

- Fixed problem in Switch List operation where if switch did not respond auto-closing of warning window stopped list mapping sequence.

2.74 May 16, 2017

Additions:

- 4 new columns with associated history database additions: Assigned VLAN, Partner Port Id (for LACP/LAG/ieee8023adLag(161) and PAGP), Trunking (Cisco only), Port Security (Cisco only).
- Added a method of canceling/stopping a Switch List in progress if there is an SNMP communications timeout error.
- Added a new table to the individual switch mapping web page report showing the interface manufacturer of devices attached to 'used' ports.
- Minor wording changes to web page reports in the titles of LACP/LAG and PAGP sections.
- Added retrieval of assigned VLANs for ports. Improved algorithm for getting currently used VLANs from qBridge.
- Added parsing of duplex mode and native VLAN to CDP.
- Added cell width presets so that if VLAN, IP address, Hostname, Assigned VLAN, LLDP and CDP exceed a basic width, they wrap around rather than span a huge amount of lateral space.

Fixes and other changes:

- Fixed problem importing switch lists where an improperly formatted import text file would cause a database error message on attempts to re-import.
- Improved parsing of LLDP and now LLDP data appears for Cisco LACP/LAG and PAGP member ports if being sent by the remote switch or server.
- Fixed LLDP processing of IPv4 data so they are displayed in IPv4 format.
- LLDP Capabilities now shows Capabilities Enabled instead of Capabilities Supported.

- Suppressed communication error messages in LLDP and CDP which confused users and slowed down mapping process.
- Fixed problem displaying LLDP data in LAG member ports. In prior versions, LLDP was being retrieved from the switch but not always displayed in the cells.
- Retrieves switch, server/router 1 or 2 chassis MAC address from remote device LLDP for adding to Combined Arp Table.
- Marked LACP/LAG aggregator ports as Interface Type ieee8023adLag(161) even if they are not that way by default.
- Marked Cisco PAGP aggregator port as Interface Type PAGP -> propVirtual(53): with the member ports listed following.
- MAC addresses of LACP/LAG and PAGP remote port members are now shown.
- Fixed problem with web page report showing Cisco last packet times on a port.
- Fixed problem reporting Cisco IOS duplex mode in duplex column.
- Improved color contrasting when a cell does not have a white background.
- Changed instances of "Not Available" in cells to "N/A" for consistency.
- Fixed bug in XML save where sheet name field was allowing characters that Excel will not allow in the name field.
- Speeded up writing to history database by not writing empty columns.
- Speeded up loading data from history database back into results grid.
- Added max width adjustments for certain columns after loading from history database.
- If FF:FF:FF:FF:FF:FF mac address is seen in local computer arp table, it is now ignored and not used in Combined ARP Table.
- Fixed longstanding problem where a mac address would have more than one IP address due to a variable not being cleared.
- Speed up by not retrieving incoming/outgoing bytes tables if the associated columns are hidden.
- Speed up mapping process by not doing all spanning tree protocol queries if STP column is hidden.
- Removed locate and mark next hop (router). Removed marking known switches. It was causing confusion with users.
- Temporarily removed JSON export due to ongoing technical issues.
- Changed SNMP DLL to non-mib loading version.
- Moved several tables to working (scratchpad) database.
- Updated SQLite to version 3.18.0
- Updated MAC address/Manufacturer database.

**Download the 'installed' version 2.75 from SwitchPortMapper.com and install it over the top of your current installed version.**

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

**USB version users need to use the Help Menu/Check for Update selection to obtain the upgrade patch.**

## **NetScanTools Pro 11.82 released March 14, 2017**

**This version has significant changes to the SNMP tools and the DHCP Server Discovery Tool.**

Most SNMP tools now accept IPv6 address input – this is big because IPv6 is making significant inroads in networking. If your switch or other device talks SNMP, you can

use either IPv4 or IPv6 to do a 'walk' of an OID or MIB. If you are talking to a switch or printer on a link local address starting with FF80:, you do not need to use percent followed by Scope ID, just use the address like you would a global address. *The SNMP Scanner and SNMP Dictionary Attack Tools continue to only accept IPv4 addresses.*

The changes to DHCP Server Discovery are pretty big. We had users tell us that it was not always displaying every DHCP server on the LAN (DHCP is limited to your local network segment). Eventually we were able to reproduce the issue and came up with a solution similar to other tools in NetScanTools Pro. You now have to select the WinPcap interface of the network interface you are using (if your computer has more than one). It now shows all responding DHCP servers.

Another expanded tool is the 'Get Basic DNS Records' in the DNS Tools - Core. If you see NS or MX record responses, you now also see the IPv4 A records and IPv6 AAAA records for that particular NS or MX record.

There are a number of other smaller changes and fixes.

Please update soon. You will need an active maintenance plan to do so. Click on Help/Check for New Version for the download links to the full installer. USB users are downloading an upgrade patch.

*Speaking of the full installer - save it in a safe place and replace any old versions. We constantly run across users who have reinstalled or moved their software to a new computer and they do so by using an old installer. Sometimes the installer is many, many versions older - so **SAVE** the latest one and discard the old ones!*

## **11.82 Release Notes**

- ARP Scan: Fixed problem where popup messages relating to updating the IP/MAC Address Database due to an IP address change would stop the scanning process. Hostnames are now correctly added if the IP/MAC address does not exist or is changed in the IP/MAC Address Database.
- DHCP Server Discovery: Revised method used for receiving and displaying DHCP Servers. Prior method did not always display every responding DHCP server.
- DNS Tools Core: Get Basic DNS Records now shows the A (IPv4) and AAAA (IPv6) records for any NS and MX responses.
- Network Connection Endpoints and others depending on operating system identification: corrected problems when used on Windows 8.1.
- SNMP Core and Advanced: Both tools now accept IPv6 addresses (do not include scope ID) for the target address. SNMP Scanner and SNMP Dictionary attack continue to only accept IPv4 addresses.
- Whois: DNS entered by user is now used for all DNS queries. Incoming data no longer causes autoscrolling to the end of the data.
- Updated SQLite to version 3.17.0
- Updated MAC address/Manufacturer database.
- Updated IP to Country database.
- Updated dates to 2017

Code signing now uses both SHA256 and SHA1 for maximum operating system portability.

## NetScanTools.com Website Redesign

**As you are probably aware the NetScanTools.com website is very dated and based on Frontpage along with using Flash for ornamentation.** This is changing every day. We are continuing the process of switching to Bootstrap. We are using the Unify template from wrapbootstrap.com. Here are a few examples of pages already changed:

[http://www.netscantools.com/nstpro\\_passive\\_discovery.html](http://www.netscantools.com/nstpro_passive_discovery.html)

[http://www.netscantools.com/nstpro\\_whois.html](http://www.netscantools.com/nstpro_whois.html)

[http://www.netscantools.com/nstpro\\_port\\_scanner.html](http://www.netscantools.com/nstpro_port_scanner.html)

## Switch Port Mapper Column Order and Visibility Editor

**Customers have been surprised when they ask for something in the Managed Switch Port Mapping Tool only to find out it's been in there for years.** Usually it involves the columns that are NOT visible. The default set of visible columns is outnumbered by the not visible set of columns you can show. That set of invisible, available columns will be added to in the next release.

**How to get there.** Click on the Settings and Tools menu item, then on Column Order and Visibility Editor (about 2/3 way down). The left side list are the columns that are available to be shown. The right side list shows the columns that are shown and the order that they are in. You can move a column from the left side to the right side to make it visible and you can change the order of the visible columns. Note that some columns are specific to certain brands like Cisco.

## Contact Information

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

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