

NetScanTools® Pro



Monthly Newsletter

www.netscantools.com

March 2015

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News...

From the Editor...

I have been working an issue that came up just last week. A change to Windows 10 has broken the operation of WinPcap. More below.

-Kirk

Windows 10 r10041 change affects WinPcap, Wireshark and NetScanTools

Prior to release 10041, all Windows 10 previews have been non-events; the previous releases allowed all our software to run without an apparent problem – until now.

Whatever was changed between preview 9926 and 10041 was major. I suspect it was a change to the operation of the NDIS layer. If I am not mistaken, WinPcap was built using function calls and libraries based on NDIS 5. NDIS 6 was introduced in Windows Vista and Windows 8.1 supports 6.4. According to Microsoft documents I

found on online, they are supposed to be backwards compatible, but apparently this is not the case.

The effect of whatever Microsoft changed is that while WinPcap installs fine, Wireshark does not recognize the interfaces and cannot capture packets. I know that indentifying WinPcap compatible interfaces rests with pcap_findalldevs_ex, however, the effects are far more reaching. Not only does Wireshark fail to run properly, but also nmap (when sending scan packets) and most important to us, NetScanTools Pro cannot use WinPcap to send and receive packets. Several of our most popular functions like Packet Generator, ARP scanning are dependent entirely on WinPcap for sending packets.

I have begun writing about my findings on our blog, on Twitter and FaceBook to raise awareness of the people at Riverbed who are responsible for both WinPcap driver and Wireshark to hopefully get them to assign some driver experts to get this fixed. This WinPcap problem is big and we need to talk about it.

I have written a blog post about it complete with screenshots here.
<http://netscantools.blogspot.com/2015/03/winpcap-and-wireshark-problems-on.html>

Please write about this, repost, retweet, bring it up at Sharkfest and help raise awareness of this critical problem with WinPcap on Windows 10 r10041. WinPcap needs to be fixed ASAP!

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/>

New Switch Port Mapper Coming Soon

I am finishing up release 2.50 of the Managed Switch Port Mapping Tool. By popular demand I have added a way to bulk import SNMP Device Settings from a text file. Right now it only imports SNMP v1 and v2c, and that should cover many people's needs. SNMPv3 will come later. You access the import through Switch Lists/Device Settings.

I have also added a quick select tool that allows you to select v1/v2c community names already in use in the database.

Look for v2.50 in very early April. If you have suggestions, email them.

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 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/>

Managed Switch Port Mapping Tool 2.42 Released Jan 22, 2014

You may be asking yourself 'did I miss v2.41?' – that's a good question! Version 2.41 was released on January 14 and few days later we found a problem relating to the addition of a new optional column. That problem was quickly fixed and we updated SQLite again at the same time.

Here is what is new in v2.42/1. This is a Cisco switch oriented release. We made significant improvements to the methods used to display the VLAN assignments when a switch port is unused. There is also a new optional column that shows (currently only for Cisco switches) the Voice VLAN assignments (VoIP VLANs) for each port. You have to use Settings and Tools/Column Order and Visibility Editor to activate it. Upgrading to either of these releases from an earlier 2.x version will cause the column order and visibility to be reset to defaults so you will need to set it back to your personal preference. This was required to add the new optional column. Another major fix allows you to map Enterasys switches. Exporting results that contain non-English European characters (manufacturer column) just got better – it now exports them as HTML codes so that they will be better interpreted when importing into spreadsheets.

As with all 2.x releases, this upgrade is free if you have a v2.x license. Visit SwitchPortMapper.com and download the trial. Install it over your current version.

2.42 January 22, 2015

- Fixed problem where if history database was empty, you would see an error message about a problem adding a column.
- Updated SQLite to version 3.8.8.1
- Updated MAC address/Manufacturer database.

2.41 January 14, 2015

- Added new optional Voice VLAN column current supporting Cisco switches only. See Settings and Tools/Column Order and Visibility Editor. The columns will be reset to defaults in order to support adding this new column.
- Improved method used to show VLANs on unused ports in Cisco switches.
- Improved method used to retrieve extended information about Cisco switches.
- Added prompt to copy unprotected database to a safe location prior to protecting certain columns.
- Fixed a problem where Enterasys switches might not map correctly.
- XML exporting: a number of non-English European Language special characters are now translated to their ASCII table numeric equivalents. This will improve the importing process into spreadsheets.
- Updated SQLite to version 3.8.7.4
- Updated MAC address/Manufacturer database.

Get the new release at <http://www.SwitchPortMapper.com/>

NetScanTools Pro 11.63 released December 9, 2014

Changes in this release are primarily in the Packet Generator Tool, the SSL Certificate Scanner and in the SNMP tools. The Packet Generator Tool changes are mostly in the Packet Playback section and in the manual definition of a TCP, UDP, ICMP and RAW packet.

The SSL Certificate Scanner was updated to reflect the 'POODLE' issue that makes SSLv3 connection type vulnerable. The scanner now checks every connection type one by one and shows you which ones are supported.

The changes to the SNMP tools make it easier to move between the two tools and also stop loading the OID selector if required. The OID selector now also has a search function.

11.63 December 9, 2014

- Packet Generator Tool has numerous changes:

1. Tool window layout changes.
 2. Packet Capture Playback now has checkbox to control whether the warning on length of time to send is seen.
 3. Packet Capture Playback now saves and shows the path to previous capture files. It now has a status window and a button to launch your Packet Analysis Tool.
 4. Fix: Packet Capture Playback Use Original Timing Checkbox now works properly. Select Capture File no longer automatically starts at the user's documents directory.
 5. Scripting: Added a dropdown box saving and showing the path to previously used script files.
 6. The length of TCP, UDP, ICMP and RAW packets are now checked against the actual MTU of the interface and you are warned if it is too large. It also shows a similar message if the packet is not sent. Packets larger than the MTU are not sent by WinPcap.
 7. TCP, UDP, ICMP, RAW windows now have a status window showing the length of the file being sent or the length of text being entered as a data payload for the packet.
- SNMP Core and Advanced now each have a button to quickly go to the other SNMP tool.
 - SNMP Core OID Selection now has a way to stop the loading of the MIB tree (helpful if you have a large set of installed MIBs and you accidentally start it) and a Find button to search for a text string in the MIB tree.
 - SNMP Manager now has better feedback if the security DLL is not found or is a 64 bit version instead of a 32 bit version.
 - SSL Certificate Scanner: added columns to show possible connection types including the now compromised SSLv3. It shows each connection type SSLv2 through TLS1.2 and whether or not it is supported by the server you are testing.
 - Updated SQLite to 3.8.7.3
 - Updated database files

Contact Information

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

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