



NetXpert XG2 10G Tester

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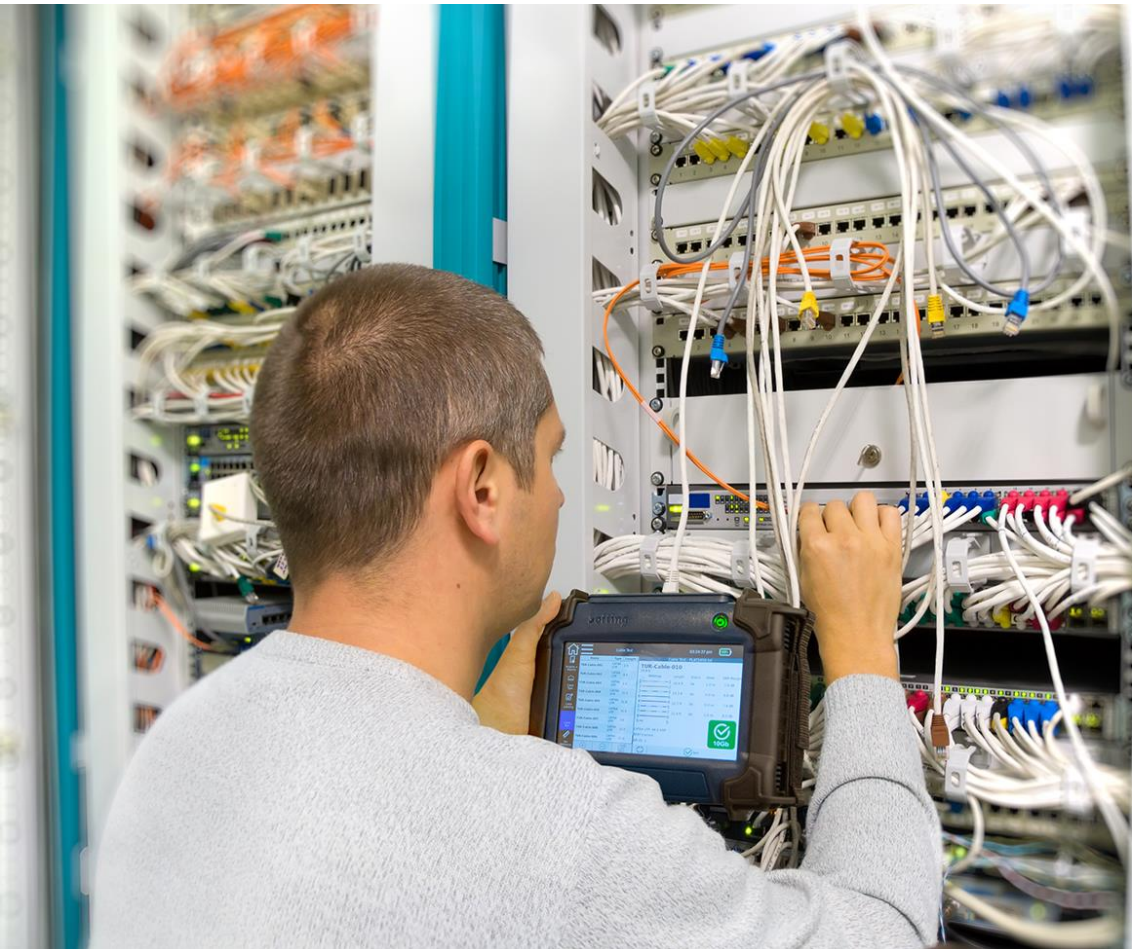
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Multi-gig Ethernet is Here



Demand for bandwidth keeps increasing, and networks will have to operate at ever higher speeds in order to keep up. Clients want to know that systems they are having installed today can support these higher speeds. There are also thousands of miles of previously installed cable that MAY work at higher speeds, but must be tested to make sure there are no bottlenecks.

One Tester for All the Tests



The NetXpert XG2 offers:

- Speed certification of copper and fiber systems to 1/2.5/5/10Gb/s
- Complete active network testing over copper, fiber, and Wi-Fi
- Cable qualification to IEEE standards
- TDR & fiber cable length measurement
- PoE testing up to 90W (PoE++)
- Test reports in PDF, CSV and XML formats



Designed for Everyday Use in the Field



Full color 7" touchscreen is easy to read in all lighting conditions

Convenient form factor with safety hand straps and built-in kickstand

Rechargeable lithium/ion battery pack with optional high-energy upgrade available



Easy software updates over Wi-Fi or cable for future feature expansion

Unit is lightweight and easy to carry at just over 2 ½ lbs and features a rubber-armored case



Multiple Connection Options



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XG2 interface options include a field-replaceable RJ45 port, dual SFP+ ports, and a USB A port for easy use of thumb drives for report storage and transfer or even specialty networking dongles.

One Kit or Two

One kit to do copper speed testing

Two kits at a great price for fiber

- Few options and no licenses to buy – XG2 tests at 10Gb speed out of the case
- Kit includes an active remote, dual chargers and shielded patch cables
- Fiber kit is two complete cases as shown – save 30% off the reg. price

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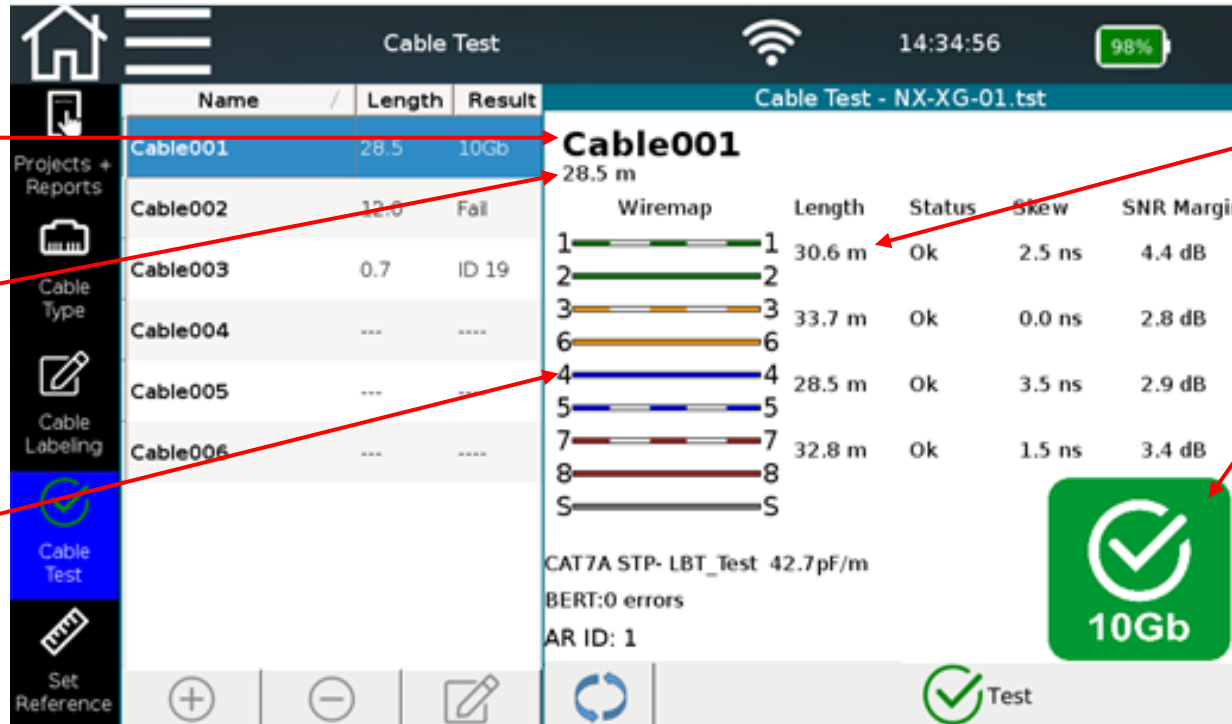
Copper Cable Testing

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NetXpert XG2 Copper Cable Testing

Ethernet speed certification to 1/2.5/5/10Gb

IEEE cable qualification to 1/2.5/5/10Gb



Custom cable labels

TDR cable length measurement

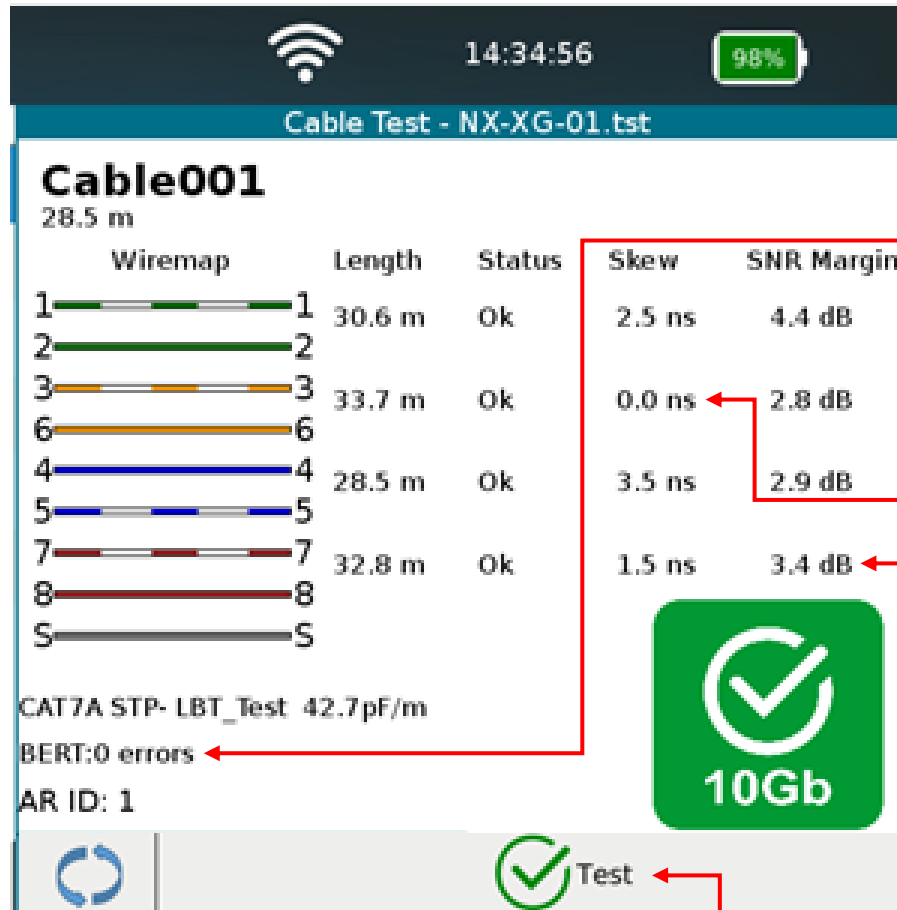
TIA 568A/B wiremap testing

Distance to opens or shorts

Easy to understand pass/fail test results

Tone generation built in for cable tracing

NetXpert XG2 Copper Cable Testing



Ethernet speed certification is done through three separate processes

Bit Error Rate Test (BERT) pushes actual ethernet data packets over the cable to test for transmission speed and error rate

Skew compares propagation delay between the pairs – under 25ns is optimal

Signal-to-Noise Ratio (SNR) Margin displays the cable's ability to handle additional noise without generating a high bit error rate

One click starts all 3 tests

NetXpert XG2 Copper Cable Testing

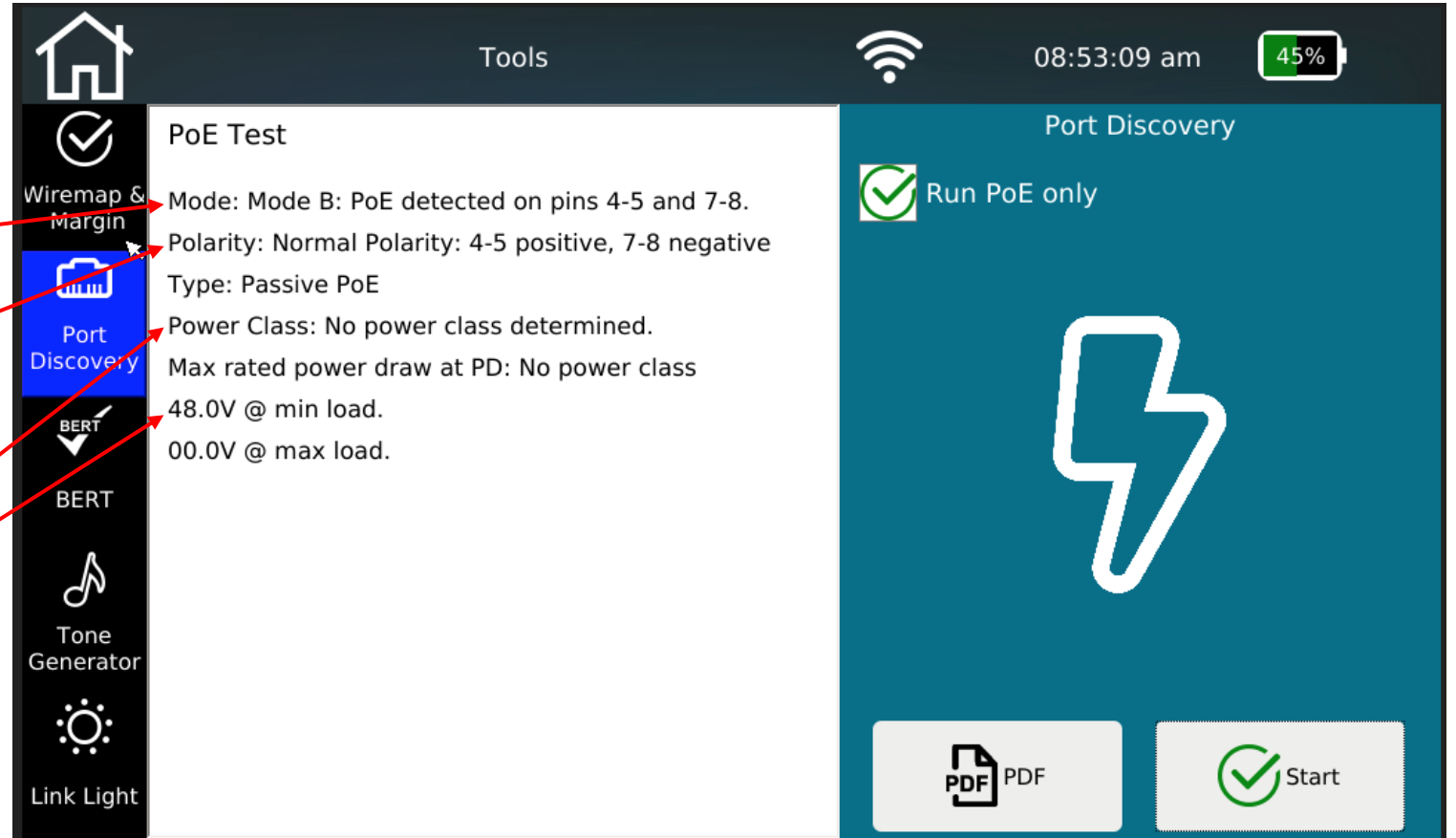
PoE Testing

Displays mode and cable pairs in use for PoE

Clearly displays polarity

PSE and PD class detection

Sustained load testing to determine PSE limits



The screenshot shows the 'Tools' application interface. The top status bar displays 'Tools', signal strength, Wi-Fi, time '08:53:09 am', and battery level '45%'. A vertical sidebar on the left contains icons for Home, Wiremap & Margin, Port Discovery (highlighted in blue), BERT, Tone Generator, and Link Light. The main content area is split into two panels. The left panel, titled 'PoE Test', displays the following information: Mode: Mode B: PoE detected on pins 4-5 and 7-8; Polarity: Normal Polarity: 4-5 positive, 7-8 negative; Type: Passive PoE; Power Class: No power class determined; Max rated power draw at PD: No power class; 48.0V @ min load; 00.0V @ max load. The right panel, titled 'Port Discovery', shows a green checkmark and the text 'Run PoE only' above a large white lightning bolt icon. At the bottom of the right panel are two buttons: 'PDF' and 'Start'.



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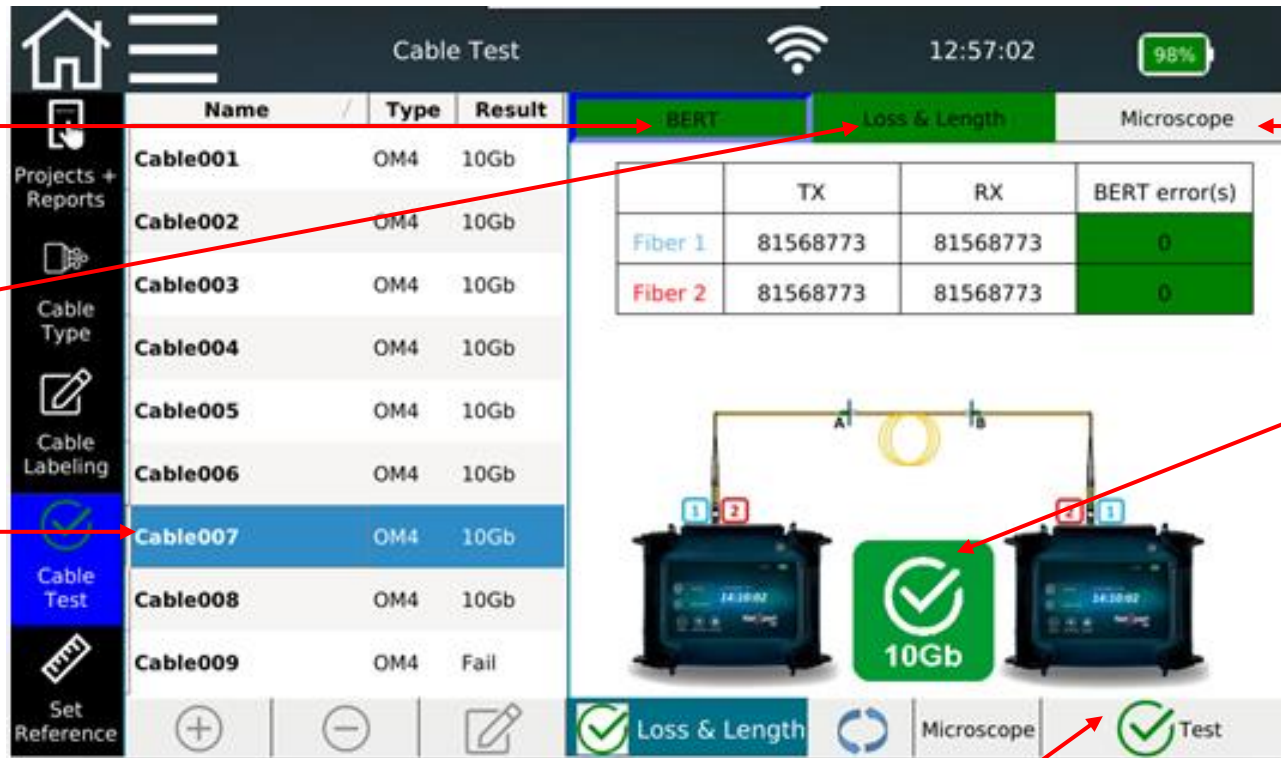
Fiber Optic Cable Testing

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NetXpert XG2 Fiber Optic Cable Testing



Ethernet speed certification to 1/2.5/5/10Gb
Cable qualification to 1/2.5/5/10Gb



Bit Error Rate Test

Loss and length measurement

Custom cable labels

Optional microscope image testing *(planned future feature)*

Easy to understand pass/fail test results

Fiber testing requires two XG2 units

One click starts testing

NetXpert XG2 Fiber Optic Cable Testing



Exclusive “LiveLight” Real Time Attenuation Testing



Graph displays optical signal attenuation in real time as a fiber cable is installed, allowing performance degrading bends and twists to be eliminated

LiveLight testing requires the XG2 Fiber Optic Kit



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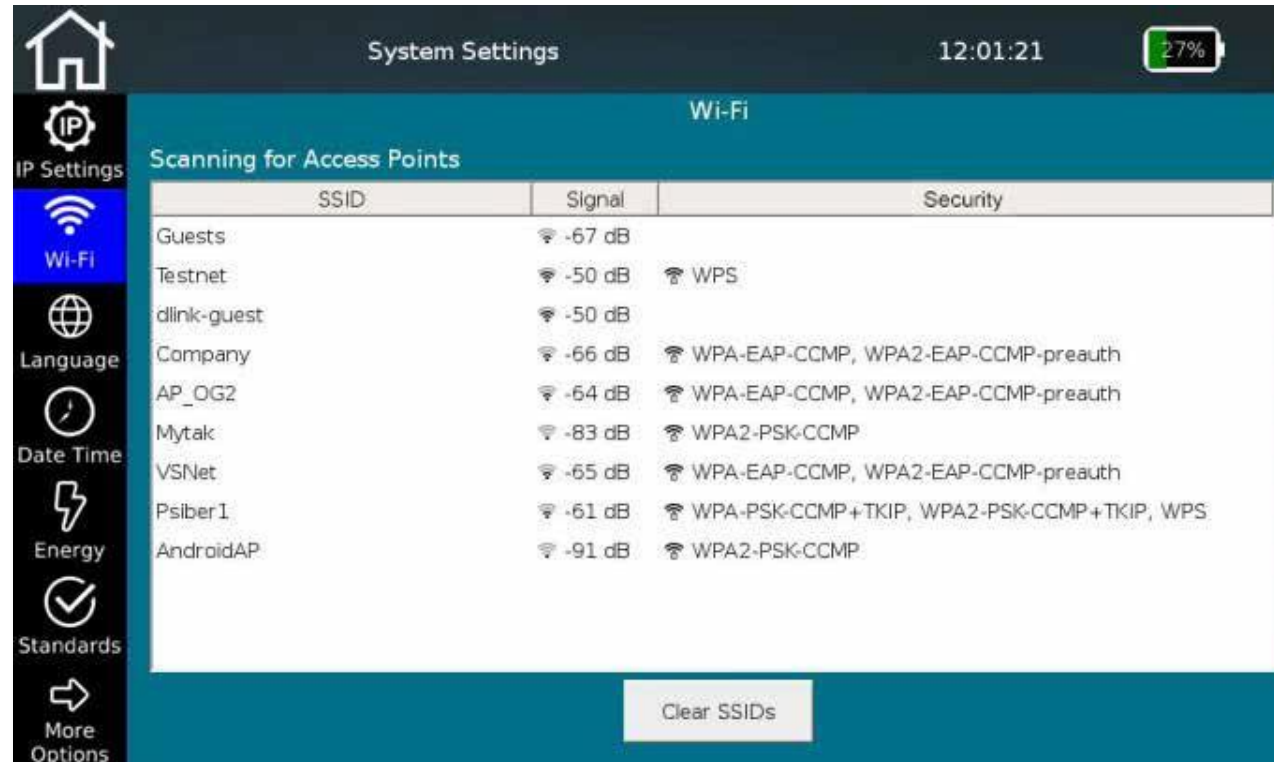
Wi-Fi Testing

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NetXpert XG2 Wi-Fi Testing

Comprehensive Overview of All Access Points

Wi-Fi menu displays actual signal attenuation to all access points in range to aid in deployment and ensure acceptable signal coverage





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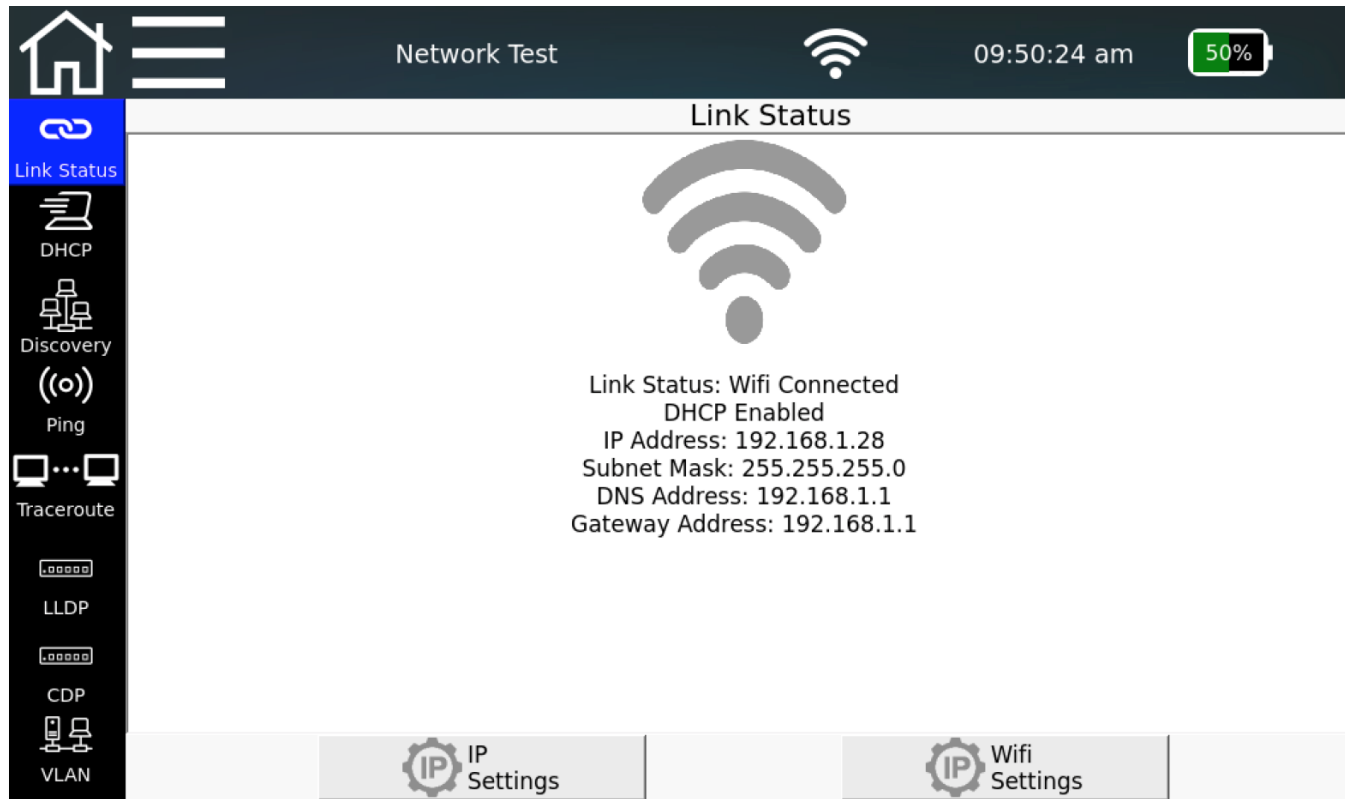
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Active Network Testing

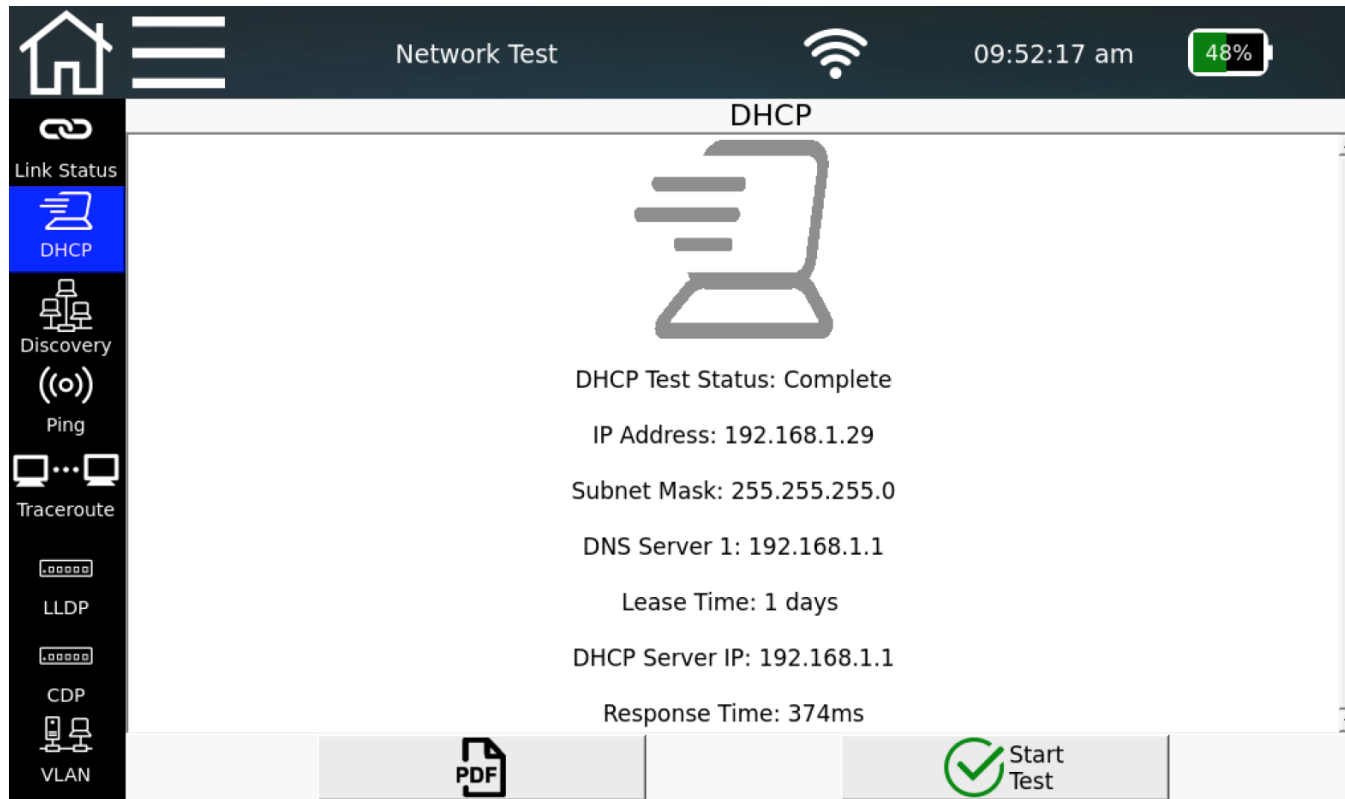
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Active Network – Link Status



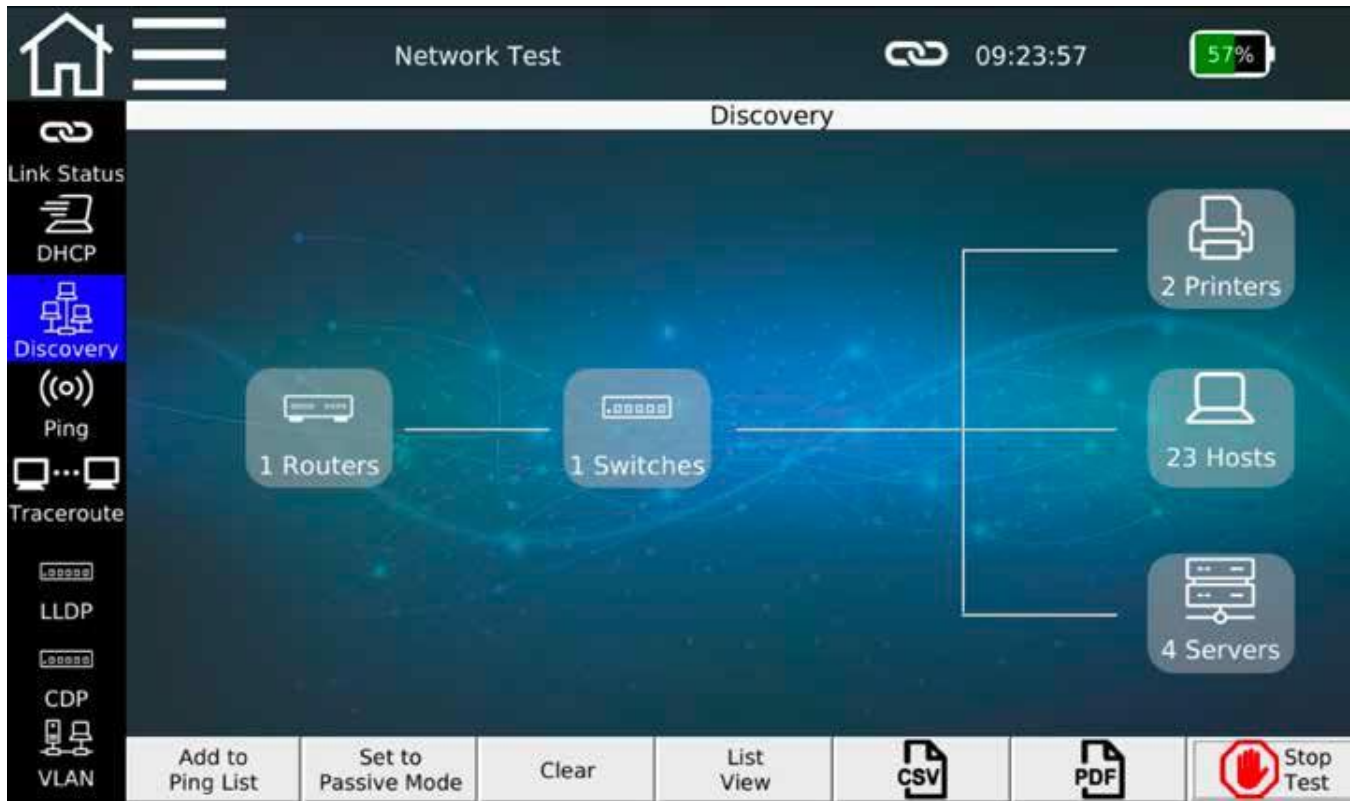
Displays port services being provided by an active switch, router or NIC on the chosen connection – copper, fiber or Wi-Fi.

Active Network – DHCP



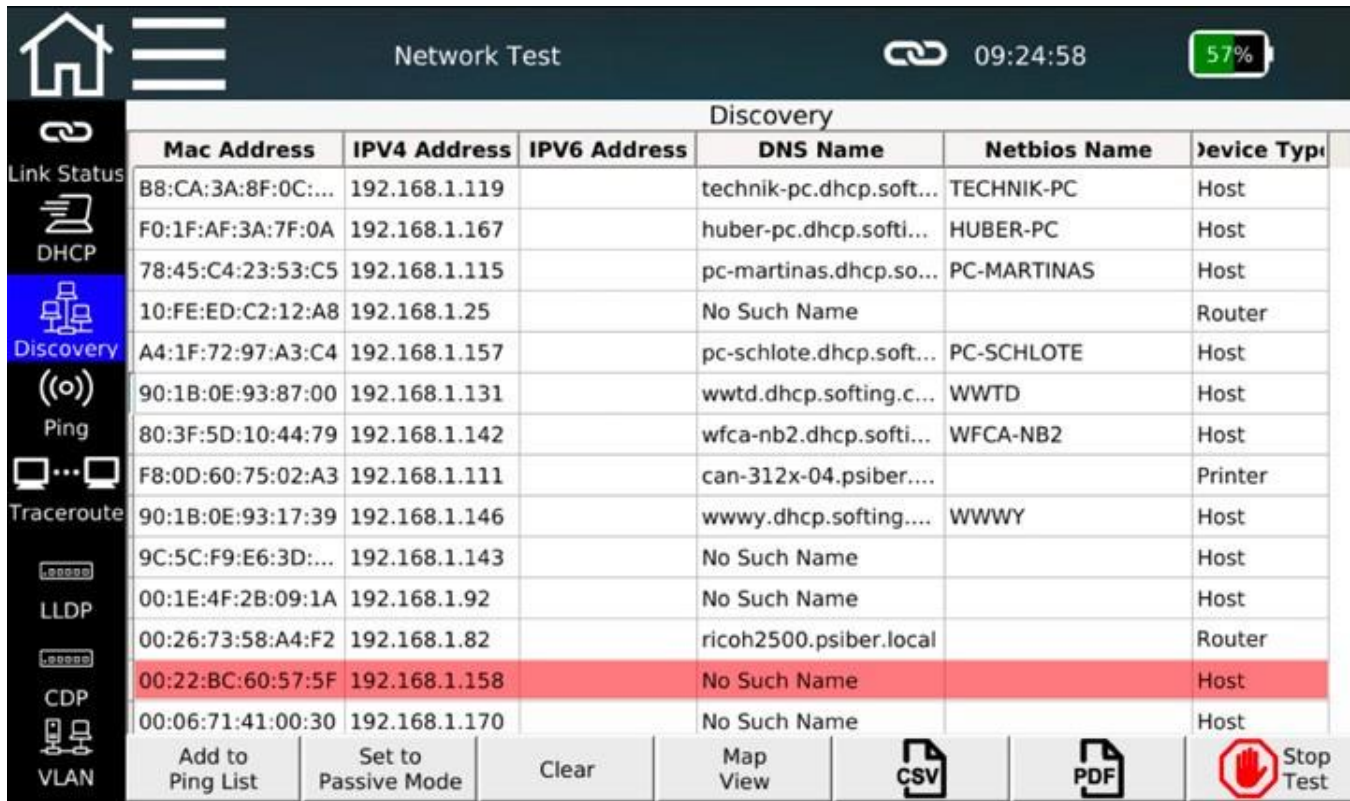
Verifies that DHCP is enabled and displays IP addresses for the server, gateway, Submask, DNS server and router.

Network Discovery Map



The Network Discovery Map provides a powerful overview of the entire submask and can also display the IP addresses of each attached device.

Network Discovery Map

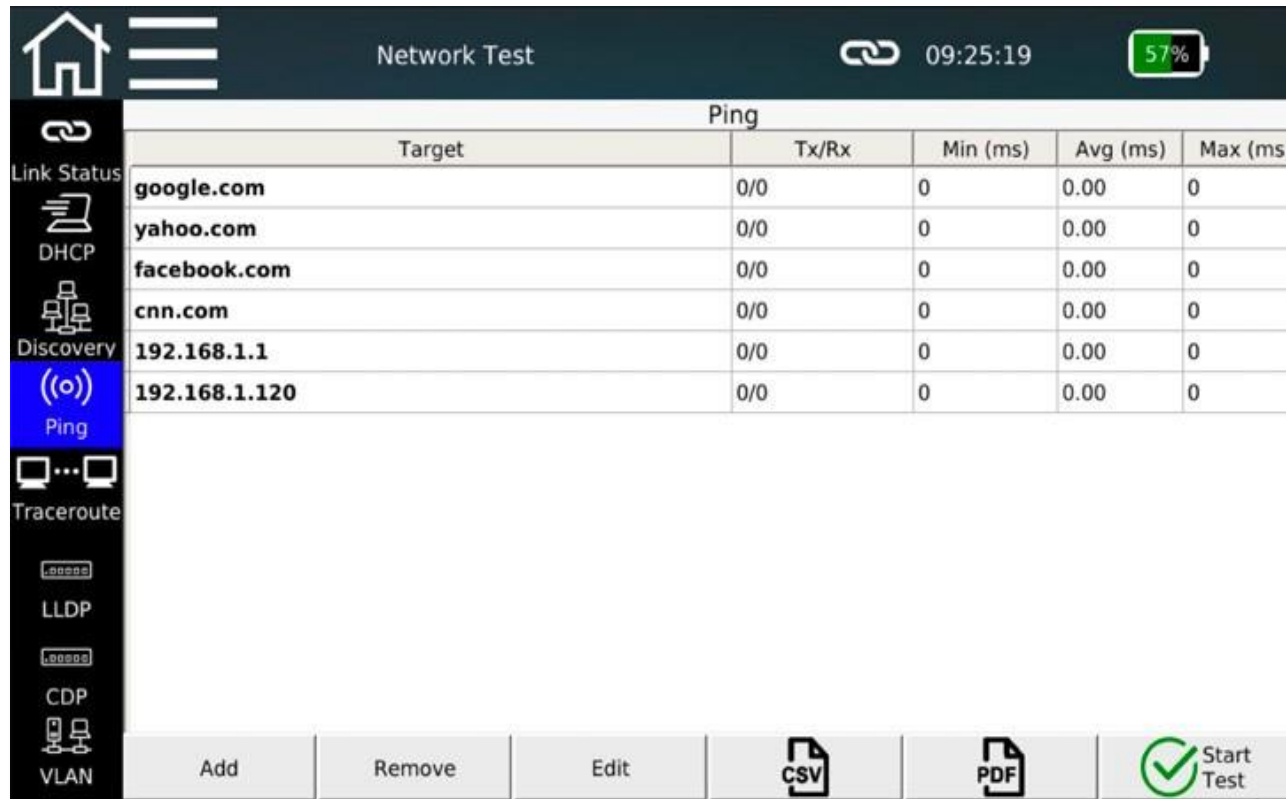


The screenshot shows a mobile application interface for network testing. At the top, it says "Network Test" with a time of 09:24:58 and a battery level of 57%. Below the header is a "Discovery" table with columns for Mac Address, IPv4 Address, IPv6 Address, DNS Name, Netbios Name, and Device Type. The table lists 15 discovered devices. The device with Mac Address 00:22:BC:60:57:5F and IP 192.168.1.158 is highlighted in red. At the bottom, there are several action buttons: "Add to Ping List", "Set to Passive Mode", "Clear", "Map View", "CSV", "PDF", and "Stop Test".

Mac Address	IPv4 Address	IPv6 Address	DNS Name	Netbios Name	Device Type
B8:CA:3A:8F:0C:...	192.168.1.119		technik-pc.dhcp.soft...	TECHNIK-PC	Host
F0:1F:AF:3A:7F:0A	192.168.1.167		huber-pc.dhcp.softi...	HUBER-PC	Host
78:45:C4:23:53:C5	192.168.1.115		pc-martinas.dhcp.so...	PC-MARTINAS	Host
10:FE:ED:C2:12:A8	192.168.1.25		No Such Name		Router
A4:1F:72:97:A3:C4	192.168.1.157		pc-schlote.dhcp.soft...	PC-SCHLOTE	Host
90:1B:0E:93:87:00	192.168.1.131		wwtd.dhcp.softing.c...	WWTD	Host
80:3F:5D:10:44:79	192.168.1.142		wfca-nb2.dhcp.softi...	WFCA-NB2	Host
F8:0D:60:75:02:A3	192.168.1.111		can-312x-04.psiber....		Printer
90:1B:0E:93:17:39	192.168.1.146		wwwy.dhcp.softing....	WWWY	Host
9C:5C:F9:E6:3D:...	192.168.1.143		No Such Name		Host
00:1E:4F:2B:09:1A	192.168.1.92		No Such Name		Host
00:26:73:58:A4:F2	192.168.1.82		ricoh2500.psiber.local		Router
00:22:BC:60:57:5F	192.168.1.158		No Such Name		Host
00:06:71:41:00:30	192.168.1.170		No Such Name		Host

List View provides details about each connected device, and allows any listing to be added to a Ping List for later ping testing to verify connectivity.

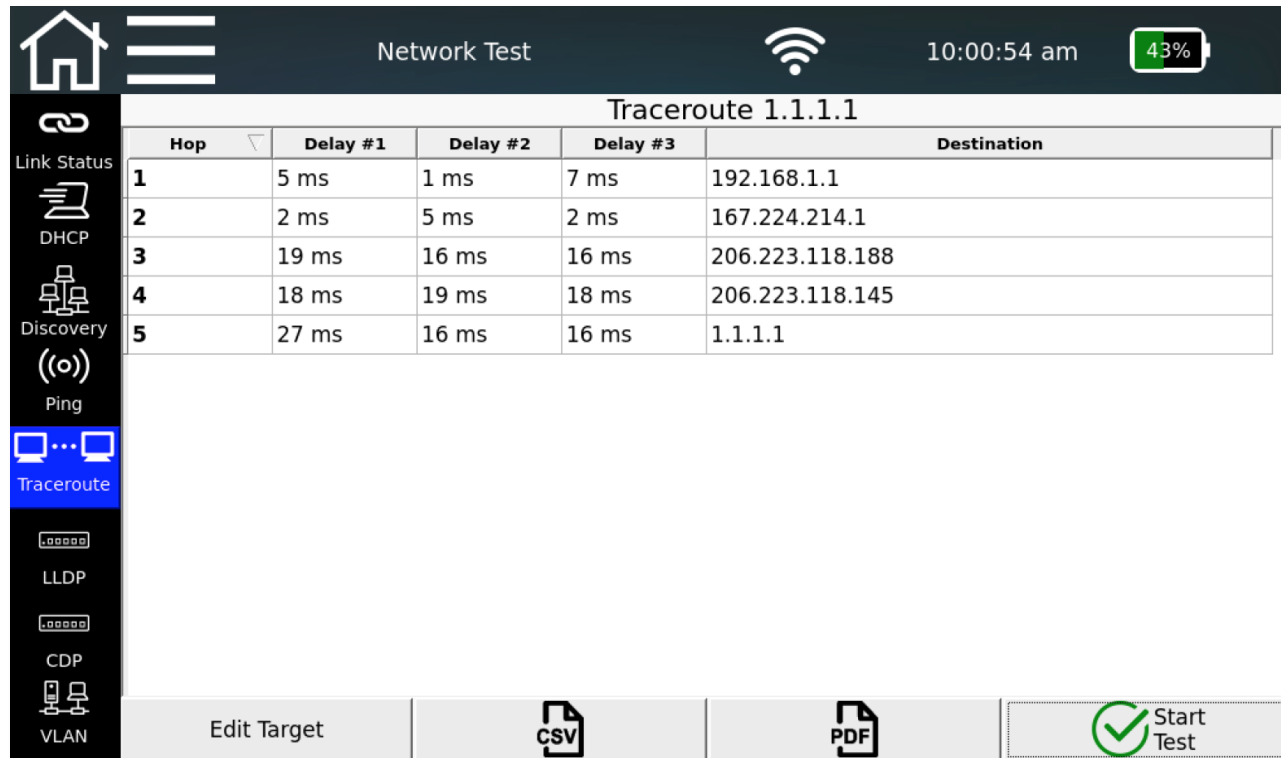
Active Network – Ping Testing



Network Test					
Ping					
Target	Tx/Rx	Min (ms)	Avg (ms)	Max (ms)	
google.com	0/0	0	0.00	0	
yahoo.com	0/0	0	0.00	0	
facebook.com	0/0	0	0.00	0	
cnn.com	0/0	0	0.00	0	
192.168.1.1	0/0	0	0.00	0	
192.168.1.120	0/0	0	0.00	0	

Run ping tests at up to 10Gb speed to verify connectivity to IP Hosts or any URL – runs up to 8 tests simultaneously.

Active Network – Traceroute



The screenshot shows a mobile application interface for network testing. The top status bar displays 'Network Test', a Wi-Fi icon, the time '10:00:54 am', and a battery level of '43%'. The main content area is titled 'Traceroute 1.1.1.1' and contains a table with the following data:

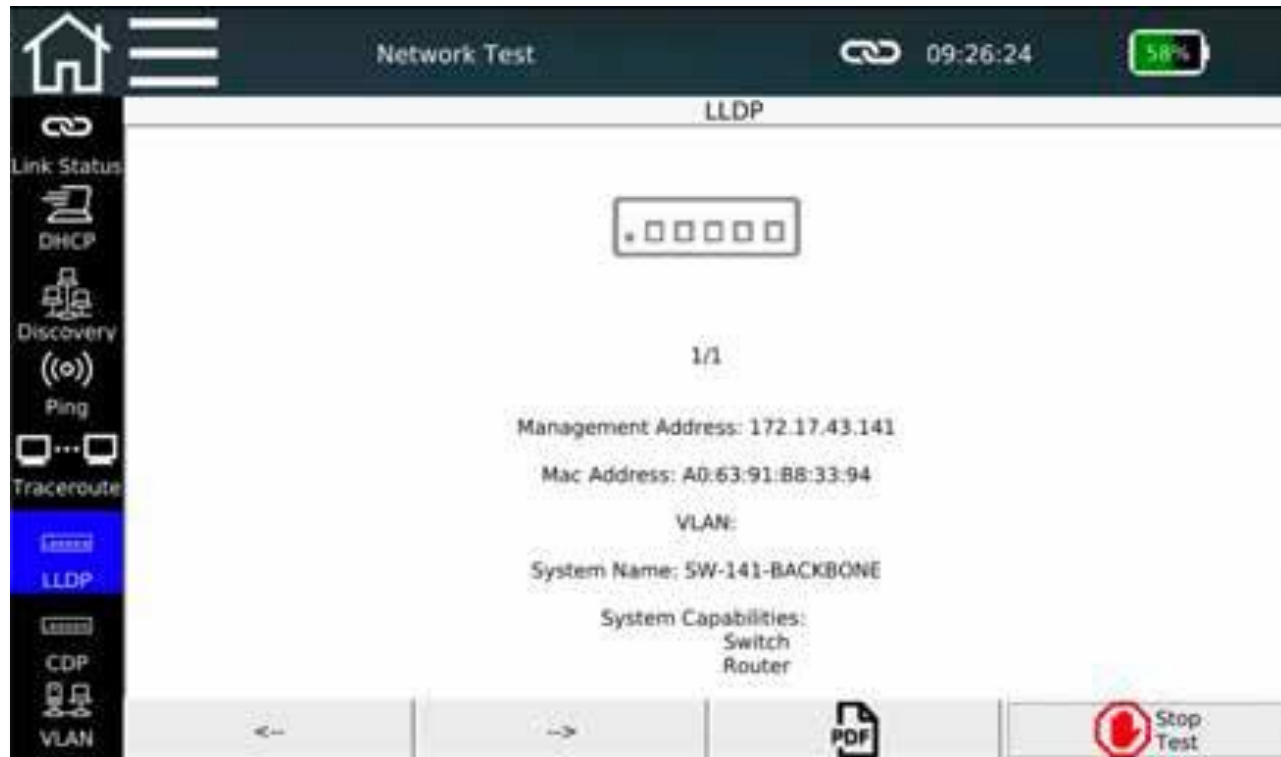
Hop	Delay #1	Delay #2	Delay #3	Destination
1	5 ms	1 ms	7 ms	192.168.1.1
2	2 ms	5 ms	2 ms	167.224.214.1
3	19 ms	16 ms	16 ms	206.223.118.188
4	18 ms	19 ms	18 ms	206.223.118.145
5	27 ms	16 ms	16 ms	1.1.1.1

The interface includes a left sidebar with navigation options: Link Status, DHCP, Discovery, Ping, Traceroute (highlighted), LLDP, CDP, and VLAN. At the bottom, there are buttons for 'Edit Target', 'CSV', 'PDF', and 'Start Test' (with a green checkmark icon).

The Traceroute function displays the path internet packets travelled to reach a specified destination.

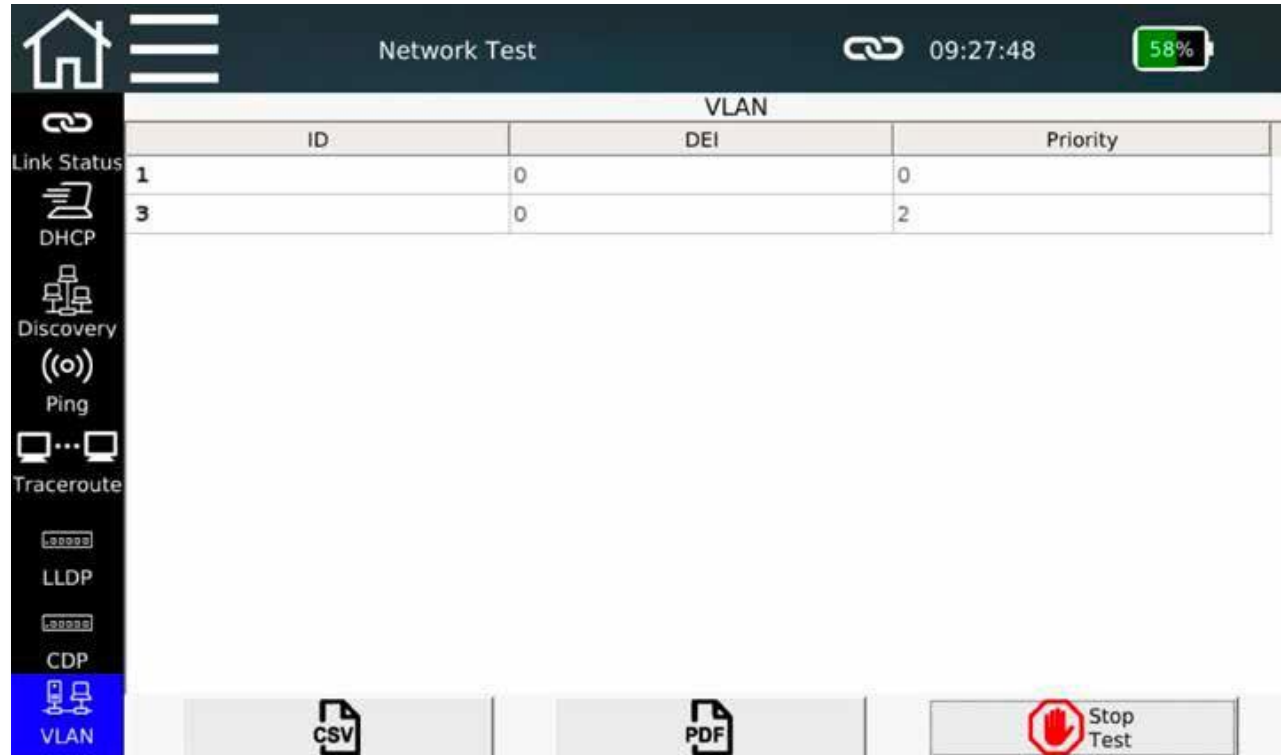
This information can be helpful in tracking down where connection problems or slowdowns are occurring.

Active Network – LLDP/CDP Detection



Detects Cisco Discovery Protocol (CDP) or Link Layer Discovery Protocol (LLDP) and displays information broadcast by the switch.

Active Network – VLAN Discovery



The screenshot shows a mobile application interface for 'Network Test'. The top status bar displays the time as 09:27:48 and a battery level of 58%. The main content area shows a table titled 'VLAN' with the following data:

VLAN		
ID	DEI	Priority
1	0	0
3	0	2

The left sidebar contains navigation options: Link Status, DHCP, Discovery, Ping, Traceroute, LLDP, CDP, and VLAN (highlighted in blue). The bottom navigation bar includes icons for CSV, PDF, and a 'Stop Test' button with a red hand icon.

VLAN discovery displays VLAN ID, Drop Eligible Indicator and Priority settings.

Active Network – Link Light



Accessed from the Tools menu, the Link Light function causes the link light on the switch to blink for easy port ID.



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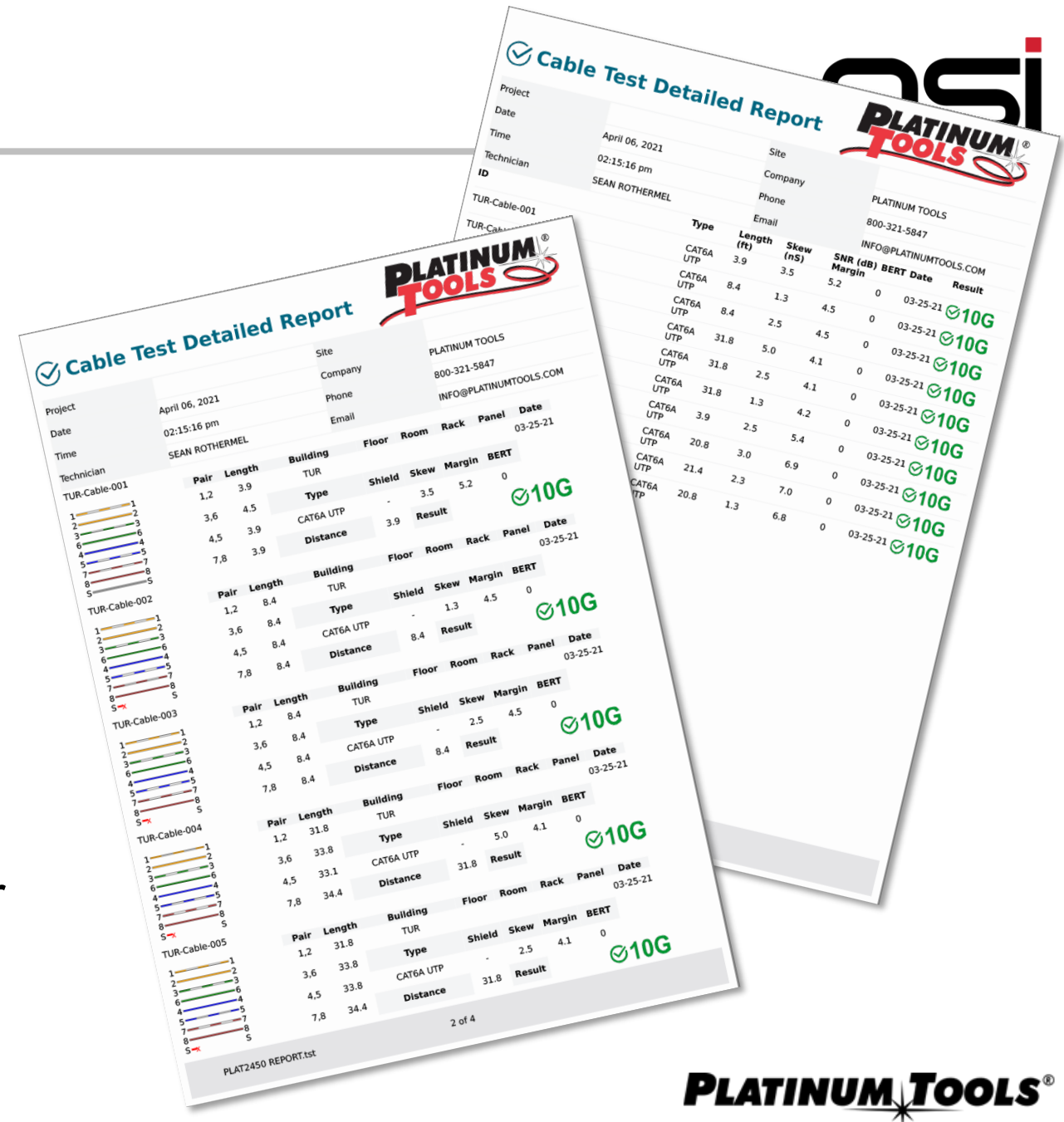
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Reporting

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NetXpert XG2 Reports

- Export complete reports in PDF, CSV or XML format
- Import your company logo and input contact information
- Custom-naming of each cable tested and detailed location info
- Easy export to computer for further formatting or emailing



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Thank You!

