

More than a qualifier



**NOW WITH
TOUCHSCREEN**



SignalTEK NT

Copper and Fiber Network Transmission Tester

SignalTEK NT

Network Transmission Tester

More than a qualifier

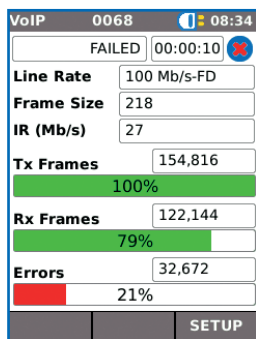
If you install, maintain or troubleshoot data cabling and Ethernet networks, SignalTEK NT allows you to prove the performance up to Gigabit Ethernet transmission rates.

By simulating actual network traffic users are able to test and document network and data cable performance to Gigabit Ethernet standards.

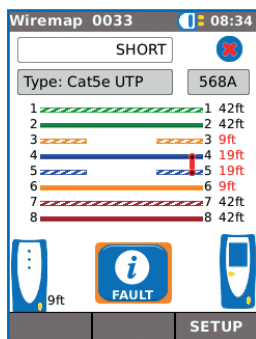
Where system warranties are not required the SignalTEK NT is a cost effective way of proving your copper and fiber networks provide error-free performance.



No calibration required plus replaceable RJ45 contacts



VoIP fail - 21% packet loss



Wiremap test displaying open and short

Transmission testing proves real performance

There is no industry standard defining the testing requirements of cable qualifiers, consequently passing a qualification test does not prove that the installed structured cabling will provide flawless data transmission.

Uniquely, SignalTEK NT utilizes a test method known in wide area networks as transmission testing to prove the performance of a network by sending real Ethernet data frames through the cabling and/or network devices to compare the error rate against the IEEE802.3ab Gigabit Ethernet standard. This provides a clear standards based Pass/Fail of the link being tested.

SignalTEK NT requires no configuration from the user as the two handsets automatically pair ready for testing; just select a usage scenario to simulate the appropriate service, from VoIP to CCTV, Video and web traffic.

Installation testing

Cabling:

- Network traffic performance test on copper and fiber to IEEE802.3ab standard
- Wiremap test for open, shorts, miswires and split pairs to TIA-568 standard
- Gigabit link verification for copper and fiber cabling
- Use a list of wiremap templates for common Ethernet cable types including CAT 6A/7A/8, and non-Ethernet cable, such as Profinet and ISDN.

Active network:

- Network load testing through switches simulating CCTV/IPTV/VoIP/Web traffic
- PoE/PoE+ verification that displays available voltage at device location
- Check Ethernet connectivity at device location to 10/100/1000 Mb/s
- Verify network configuration (device IP/gateway address/subnet mask)
- Switch port identification via LLDP/CDP protocols

Troubleshooting/diagnostics

Cabling:

- Distance to fault using TDR technology (copper only)
- Ability to identify and trace cables with a compatible amplifier probe (62-164)
- Optical power indication (with compatible SFP modules)

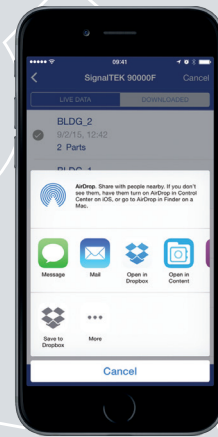
Active network:

- Network load testing through switches simulating CCTV/IPTV/VoIP/Web traffic
- Stress test network before installing bandwidth hungry devices
- Port blink to visually trace cable from work area outlet to network switch
- Displays port ID of LLDP/CDP enabled switches to eliminate manual cable tracing
- Identify network connection problems as hardware, network or configuration faults
- Ping local network devices and Internet URL's
- Count number of hops between network points with traceroute tests
- PoE load testing to confirm available power meets PoE device requirements

Send test reports from anywhere using the free app



TREND
Any**WARE**[®]
APP



Step 1 Test

- Create job folder
- Enter job site information
- Perform autotest on copper/fiber cabling and copper/fiber networks

Step 2 Connect

- Activate SignalTEK NT wireless hotspot
- Connect your mobile phone or tablet with the TREND AnyWARE App
- Transfer test reports to your mobile device
- View test reports

Step 3 Send

- Select reports (PDF or CSV) to send
- Select preferred transfer method - email, ftp, cloud storage etc.
- Send file
- Alternatively save test reports to USB key

Download the FREE App today



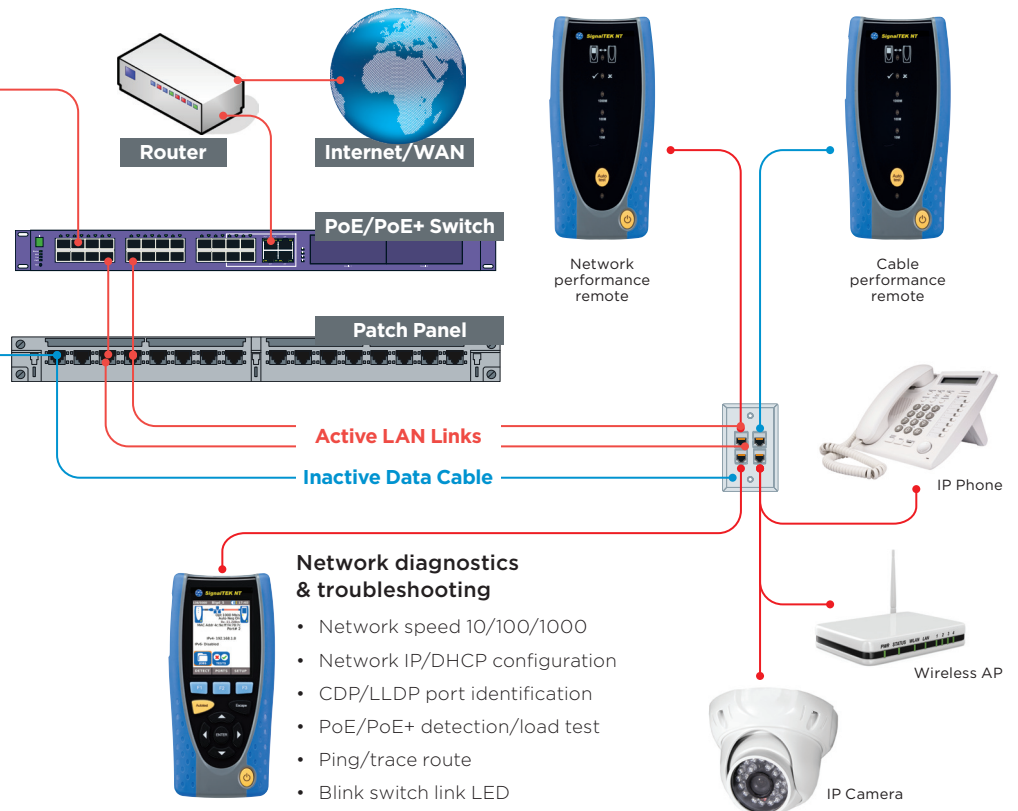
Network Performance Test

- Port speed 10/100/1000
- PoE/PoE+ detection
- Web data performance
- IP video performance
- IP CCTV performance
- VoIP performance



Cable Performance Test

- TDR wiremap
- IEEE 802.3ab Gigabit data
- Custom wiremap for non-Ethernet cabling such as Profinet



Network diagnostics & troubleshooting

- Network speed 10/100/1000
- Network IP/DHCP configuration
- CDP/LLDP port identification
- PoE/PoE+ detection/load test
- Ping/trace route
- Blink switch link LED

SignalTEK NT

Network Transmission Tester

More than a qualifier

Test Reporting

SignalTEK NT automatically generates test reports in PDF or CSV format.

The summary page of each report can be customized to include logo, company and operator details. Choose between 3 different reports that can show either passed, failed or all test reports in each report:

- Summary
- Brief
- Full (see example on the right side)



Ordering Information

| Part No. | Kit Contents |
|----------|--|
| R156005 | SignalTEK NT - Network Transmission Tester. Includes 1 x display with touchscreen, 1 x remote, 2 x NiMH batteries, 2 x patch cables - 12 inch, Cat 5e STP, 2 x power supply with EU/UK/US adapters, 1 x USB Wi-Fi adapter, 1 x quick reference guide, 1 x carry case |

For the copper only version without network troubleshooting, please check out our SignalTEK CT.

Optional Accessories

| Part No. | Description |
|----------|--|
| MGKSX1 | 1 x 1000BASE-SX Fiber kit. Includes 850nm SFP (Small Form factor Pluggable) SX transceiver, LC/LC and LC/SC duplex multimode cables and SC/SC duplex adapter. 2 required for Gigabit transmission testing. |
| MGKLX2 | 1 x 1000BASE-LX Fiber kit. Includes 1310nm SFP (Small Form factor Pluggable) LX transceiver, LC/LC and LC/SC duplex singlemode cables and SC/SC duplex adapter. 2 required for Gigabit transmission testing. |
| MGKZX3 | 1x 1000BASE-ZX Fiber kit. Includes 1550nm SFP (Small Form factor Pluggable) ZX transceiver, LC/LC and LC/SC duplex singlemode cables and SC/SC duplex adapter. 2 required for Gigabit transmission testing. |
| 62-164 | 1 x TREND amplifier probe |
| 150058 | 1 x RJ45 insert extraction tool, 10 x lifejack RJ45 inserts |

For more accessories including numbered wiremap remotes please visit our website.

Basic Specifications

| Max. No. of Jobs | Max. No. of Stored Test | Max. Measured Length | Battery Life | Dimensions per handset in inches | Weight per handset |
|------------------|-------------------------|----------------------|--------------|----------------------------------|--------------------|
| 50 | 5000 | 593 ft. | 5 hours | 6.9 x 3.2 x 1.6 | 0.88 lbs |

For detailed specifications, please visit our website.

| TREND NETWORKS | | SignalTEK NT Test Report | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------------------|--------------------------|--------------------|-------------|---------|--------------------------|--------------------|---------------------|----------------|---------------------|-------------------------|---------------------|--------------|-------------|--------------|------|--------------|----------------------|-----|------|----------|--------|--------|------|------|---|---|---|---|---|---|
| Job Name: CAMPUS_A | Owner: Tester | Company: | FAIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Date Tested: July 20 2015 | Company: | Address 1: Stokencurch | test0001 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Time Tested: 10:53 | Address 2: | City: High Wycombe | ESN: 001606-8B167 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Info 1: st patric uni | State: | Zip: HP14 3SX | ESN: 001606-8B413C | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Info 2: City | Country: UK | Phones: | Port 1: 54V | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Info 3: Building 5 | | | Port 2: | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Info 4: Fl 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Info 5: CAB 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Info 6: DOF 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Info 7: ROOM 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Info 8: PORT 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Port</th> <th>Setup</th> <th>Results</th> <th>Skew (ns)</th> </tr> </thead> <tbody> <tr> <td>Line Rate</td> <td>Auto</td> <td>1000 Mb/s</td> <td>1.2</td> </tr> <tr> <td>Duplex</td> <td>Auto</td> <td>Full Duplex</td> <td>3.6</td> </tr> <tr> <td>IPv4</td> <td>DHCP</td> <td>Assigned 192.168.1.8</td> <td>4.5</td> </tr> <tr> <td>Link</td> <td>Disabled</td> <td></td> <td>7.8</td> </tr> </tbody> </table> | | | | Port | Setup | Results | Skew (ns) | Line Rate | Auto | 1000 Mb/s | 1.2 | Duplex | Auto | Full Duplex | 3.6 | IPv4 | DHCP | Assigned 192.168.1.8 | 4.5 | Link | Disabled | | 7.8 | | | | | | | | |
| Port | Setup | Results | Skew (ns) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Line Rate | Auto | 1000 Mb/s | 1.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Duplex | Auto | Full Duplex | 3.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IPv4 | DHCP | Assigned 192.168.1.8 | 4.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Link | Disabled | | 7.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Setup</th> <th>Results</th> </tr> </thead> <tbody> <tr> <td>Line Rate</td> <td>1000 Mb/s</td> </tr> <tr> <td>Duplex</td> <td>Full Duplex</td> </tr> <tr> <td>IPv4</td> <td>Assigned 192.168.1.8</td> </tr> <tr> <td>Link</td> <td>Disabled</td> </tr> </tbody> </table> | | | | Setup | Results | Line Rate | 1000 Mb/s | Duplex | Full Duplex | IPv4 | Assigned 192.168.1.8 | Link | Disabled | | | | | | | | | | | | | | | | | | |
| Setup | Results | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Line Rate | 1000 Mb/s | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Duplex | Full Duplex | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IPv4 | Assigned 192.168.1.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Link | Disabled | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>VOIP Data</th> <th>Results</th> </tr> </thead> <tbody> <tr> <td>No. of Calls (Frames)</td> <td>309,833 100</td> </tr> <tr> <td>Info Rate (Mb/s)</td> <td>309,833 100</td> </tr> <tr> <td>Frame Size</td> <td>1518 0</td> </tr> <tr> <td>Lost</td> <td>0 0</td> </tr> <tr> <td>Errored</td> <td>0 0</td> </tr> </tbody> </table> | | | | VOIP Data | Results | No. of Calls (Frames) | 309,833 100 | Info Rate (Mb/s) | 309,833 100 | Frame Size | 1518 0 | Lost | 0 0 | Errored | 0 0 | | | | | | | | | | | | | | | | |
| VOIP Data | Results | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No. of Calls (Frames) | 309,833 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Info Rate (Mb/s) | 309,833 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Frame Size | 1518 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lost | 0 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Errored | 0 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Web Data</th> <th>Results</th> </tr> </thead> <tbody> <tr> <td>No. of Sessions (Frames)</td> <td>222,322 100</td> </tr> <tr> <td>Info Rate (Mb/s)</td> <td>222,322 100</td> </tr> <tr> <td>Frame Size</td> <td>1518 0</td> </tr> <tr> <td>Lost</td> <td>0 0</td> </tr> <tr> <td>Errored</td> <td>0 0</td> </tr> </tbody> </table> | | | | Web Data | Results | No. of Sessions (Frames) | 222,322 100 | Info Rate (Mb/s) | 222,322 100 | Frame Size | 1518 0 | Lost | 0 0 | Errored | 0 0 | | | | | | | | | | | | | | | | |
| Web Data | Results | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No. of Sessions (Frames) | 222,322 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Info Rate (Mb/s) | 222,322 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Frame Size | 1518 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lost | 0 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Errored | 0 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Video Data</th> <th>Results</th> </tr> </thead> <tbody> <tr> <td>No. of Streams (Frames)</td> <td>524,328 100</td> </tr> <tr> <td>Info Rate (Mb/s)</td> <td>524,328 100</td> </tr> <tr> <td>Frame Size</td> <td>1518 0</td> </tr> <tr> <td>Lost</td> <td>0 0</td> </tr> <tr> <td>Errored</td> <td>0 0</td> </tr> </tbody> </table> | | | | Video Data | Results | No. of Streams (Frames) | 524,328 100 | Info Rate (Mb/s) | 524,328 100 | Frame Size | 1518 0 | Lost | 0 0 | Errored | 0 0 | | | | | | | | | | | | | | | | |
| Video Data | Results | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No. of Streams (Frames) | 524,328 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Info Rate (Mb/s) | 524,328 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Frame Size | 1518 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lost | 0 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Errored | 0 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>CCTV Data</th> <th>Results</th> </tr> </thead> <tbody> <tr> <td>No. of Cameras (Frames)</td> <td>285,158 100</td> </tr> <tr> <td>Info Rate (Mb/s)</td> <td>285,158 100</td> </tr> <tr> <td>Frame Size</td> <td>1518 0</td> </tr> <tr> <td>Lost</td> <td>0 0</td> </tr> <tr> <td>Errored</td> <td>0 0</td> </tr> </tbody> </table> | | | | CCTV Data | Results | No. of Cameras (Frames) | 285,158 100 | Info Rate (Mb/s) | 285,158 100 | Frame Size | 1518 0 | Lost | 0 0 | Errored | 0 0 | | | | | | | | | | | | | | | | |
| CCTV Data | Results | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No. of Cameras (Frames) | 285,158 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Info Rate (Mb/s) | 285,158 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Frame Size | 1518 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lost | 0 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Errored | 0 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>POE Load</th> <th>Results</th> </tr> </thead> <tbody> <tr> <td>Port</td> <td>Pair 12-24</td> </tr> <tr> <td>Type</td> <td>Current: Power</td> </tr> <tr> <td>Power</td> <td>Voltage: Current: Power</td> </tr> <tr> <td></td> <td>(V) (mA) (W)</td> </tr> <tr> <td></td> <td>(V) (mA) (W)</td> </tr> <tr> <td></td> <td>(V) (mA) (W)</td> </tr> </tbody> </table> | | | | POE Load | Results | Port | Pair 12-24 | Type | Current: Power | Power | Voltage: Current: Power | | (V) (mA) (W) | | (V) (mA) (W) | | (V) (mA) (W) | | | | | | | | | | | | | | |
| POE Load | Results | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Port | Pair 12-24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Type | Current: Power | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Power | Voltage: Current: Power | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | (V) (mA) (W) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | (V) (mA) (W) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | (V) (mA) (W) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Netscan</th> <th>Results</th> </tr> </thead> <tbody> <tr> <td>Host Address</td> <td>Scan Range</td> </tr> <tr> <td>IPv4 192.168.1.8</td> <td>Class C/24</td> </tr> <tr> <td>Ports Found</td> <td>5</td> </tr> </tbody> </table> | | | | Netscan | Results | Host Address | Scan Range | IPv4 192.168.1.8 | Class C/24 | Ports Found | 5 | | | | | | | | | | | | | | | | | | | | |
| Netscan | Results | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Host Address | Scan Range | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IPv4 192.168.1.8 | Class C/24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ports Found | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Ping</th> <th>Results</th> </tr> </thead> <tbody> <tr> <td>Destination Address</td> <td>Packet Length (ms)</td> </tr> <tr> <td>IPv4 www.google.com</td> <td>1000 64</td> </tr> <tr> <td>IPv4 www.google.com</td> <td>0 0</td> </tr> <tr> <td>IPv4 www.google.com</td> <td>0 0</td> </tr> <tr> <td>Min RTT</td> <td>Avg RTT</td> </tr> <tr> <td>(ms)</td> <td>(ms)</td> </tr> <tr> <td>0</td> <td>0</td> </tr> <tr> <td>0</td> <td>0</td> </tr> <tr> <td>0</td> <td>0</td> </tr> </tbody> </table> | | | | Ping | Results | Destination Address | Packet Length (ms) | IPv4 www.google.com | 1000 64 | IPv4 www.google.com | 0 0 | IPv4 www.google.com | 0 0 | Min RTT | Avg RTT | (ms) | (ms) | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| Ping | Results | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Destination Address | Packet Length (ms) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IPv4 www.google.com | 1000 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IPv4 www.google.com | 0 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IPv4 www.google.com | 0 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Min RTT | Avg RTT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (ms) | (ms) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Trace Route</th> <th>Results</th> </tr> </thead> <tbody> <tr> <td>Destination Address</td> <td>Max Hop</td> </tr> <tr> <td>IPv4 www.yahoo.com</td> <td>30</td> </tr> <tr> <td>IPv4 www.yahoo.com</td> <td>3</td> </tr> <tr> <td>Timeout</td> <td>Total</td> </tr> <tr> <td>(s)</td> <td>Hops</td> </tr> <tr> <td>0</td> <td>0</td> </tr> <tr> <td>0</td> <td>0</td> </tr> <tr> <td>0</td> <td>0</td> </tr> <tr> <td>Time 1</td> <td>Time 2</td> </tr> <tr> <td>(ms)</td> <td>(ms)</td> </tr> <tr> <td>0</td> <td>0</td> </tr> <tr> <td>0</td> <td>0</td> </tr> <tr> <td>0</td> <td>0</td> </tr> </tbody> </table> | | | | Trace Route | Results | Destination Address | Max Hop | IPv4 www.yahoo.com | 30 | IPv4 www.yahoo.com | 3 | Timeout | Total | (s) | Hops | 0 | 0 | 0 | 0 | 0 | 0 | Time 1 | Time 2 | (ms) | (ms) | 0 | 0 | 0 | 0 | 0 | 0 |
| Trace Route | Results | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Destination Address | Max Hop | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IPv4 www.yahoo.com | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IPv4 www.yahoo.com | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Timeout | Total | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (s) | Hops | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Time 1 | Time 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (ms) | (ms) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



Apple and the Apple logo are trademarks of Apple Inc., registered in the U.S. and other countries. App Store is a service mark of Apple Inc.
Android is a trademark of Google Inc.
All Rights Reserved. TREND, TREND NETWORKS, TREND AnyWARE and the SignalTEK logos are trademarks or registered trademarks of TREND NETWORKS.

TREND NETWORKS
300 Roundhill Drive, Suite 1,
Rockaway, NJ 07866, USA

Tel. 973-957-7700
contactus@trend-networks.com

www.trend-networks.com

Specification subject to change without notice. E&OE
Printed in UK. P-5336 08/18
© TREND NETWORKS 2020
Publications no.: 156899, rev. 3