

DTX Series Network Service Module

*Certify cabling and verify network availability
using one handheld tool.*



As users demand increasingly reliable network services, the requirements for network testing become ever more strenuous. Whether you're activating a new service, installing Power over Ethernet or performing moves, adds and changes, best practice demands verifying service availability after certifying the cabling link. If you both and document all test results in a consolidated report you will assure end-users that the network infrastructure was delivered in good working order. The DTX Network Service Module in conjunction with the DTX Series CableAnalyzer™ is the fastest way to do just that.

Increase the value of your services

The industry's leading tool for certifying twisted-pair cabling and fiber can also verify the delivery of network services over copper. The Network Service Module is an add-on to the DTX Cable Analyzer that quickly tells a technician if IP-level services and/or Power over Ethernet are available. By coupling service testing with cable certification, the DTX delivers important information that proves an installation conforms to standards and best practices. In addition, LinkWare Cable Management software documents test results and displays them in professional, easy-to-read reports.

The best practice approach

What is the best practice for testing a cable installation?

The three key elements are:

1. Certifying that the cabling infrastructure meets TIA/EIA standards
2. Verifying network service availability
3. Documenting test results

Following this approach:

- Provides the highest level of assurance
- Avoids callbacks
- Reduces network downtime

Verifying Network Services

The Network Service Module tests link connectivity, network services and Power over Ethernet to verify network services.

Link connectivity

The Network Service Module uses the IP Ping function to bounce packets off key network devices including servers and gateways, and then measure the response time. Successful execution of a Ping establishes that the link supports communication on the network. Where a DHCP (Dynamic Host Configuration Protocol) server is active on the network, the Network Service Module will obtain its IP address from the DHCP server and then ascertain the IP addresses of other devices on the network.

Network service availability

The Network Service Module measures the utilization of the link under test as a percentage of total available bandwidth. The Network Service Module can blink the activity light of the port to which it is connected to verify proper port connection. The Network Service Module will report the characteristics and capabilities of the hub or switch. In troubleshooting mode this lets a technician quickly determine whether a work area outlet is connected to the desired device and port, and which services are available.

Power over Ethernet (PoE)

A growing number of products rely on Power over Ethernet (PoE) over twisted-pair cable for operating current. Voice over Internet Protocol (VoIP) telephones and 802.11 Wireless Access Points are the two most common. The Network Service Module verifies that the Power Supply Equipment (PSE) is delivering current in compliance with the IEEE 802.3af standard. Furthermore, the DTX can create Wiremaps of cable links that support PoE, even if they are powered by Midspan PoE supplies.

