



COMPANY PROFILE

20TH ANNIVERSARY

1993

In Chicago, 1993, NTest (then called NetTest) deployed the first fiber monitoring system (FMS) in telecommunication history.

**TODAY,
WE ARE THE ONLY COMPANY
EXCLUSIVELY FOCUSED ON FMS.**

1994

NTest (then NetTest) made its first international shipping to Europe, 1994. Those exact units - running 24 hours a day, 7 days a week - monitored several customers networks using the latest software updates for nearly two decades.

**TODAY,
WE DO OUR UTMOST TO KEEP
YOUR SYSTEMS RUNNING DAY
AND NIGHT FOR YEARS ON END.**

2007

Telecommunication veterans Cano and Veitenheimer acquired the FMS product line from Anritsu. By 2008 they had added integrated mapping and redesigned the user interface for increased usability and efficiency.

WE PROVIDE YOU WITH A SIMPLE BUT POWERFUL FIBER MONITORING EXPERIENCE .

TO DAY

NTest has also take big steps to make our units small, durable, and energy-efficient. We take pride in our history of innovation.

WE ARE EXCITED TO PROVIDE YOU WITH AN EXCELLENT SERVICE.

NTEST HAS AN IMPRESSIVE RECORD AS THE INDUSTRY-LEADING FIBER MONITORING SYSTEM PROVIDER.

It was the first such system developed in the world with more than 25 years of history. Today, the FiberWatch™ system monitors over 1,000,000 km of fiber with 1,000s of Test Units installed in over 60 countries. With a worldwide customer base and an experienced team focused exclusively on fiber optic monitoring, NTest is ready to meet and exceed your expectations.

FiberWatch™ Systems are currently installed and operating on many large-scale fiber networks around the world. We have high profile customers with large national backbone networks as well as small local fiber networks. These customers monitor dark and active fibers running 100 Gb/s DWDM systems like Deutsche Telekom, Portugal Telecom, and many others.

In Deutsche Telekom over 100 people/users use the system on a daily basis to manage over 180 RTUs. Cable & Wireless uses FiberWatch to monitor over 25,000 km of undersea cables in the Caribbean and South American regions.

Some other customers are, Oman Broadband, Iberdrola of Spain, Energinet in Denmark, Altice and C&W (Liberty) in the US, Uganda Electricity (UETCL), and Visionstream of Australia. A key FiberWatch™ deployment in Australia is the NextGen Regional Backbone Blackspots Network where we provided a full turnkey solution consisting of 40 RTU's for monitoring their fiber optic network.

As a company, NTest is exclusively focused on the Remote Test Market. We are heavily committed to the research and development of new solutions that will meet the Telecommunications industry's needs.

WE ARE CONSTANTLY INNOVATING AND IMPROVING ON OUR TECHNOLOGIES WITH THE FEEDBACK WE GET FROM OUR CUSTOMERS.

PON monitoring is an example of such innovation. This year we have brought to market the only PON monitoring system that does not need reflectors at the customer sites.

With RTUs in the African rain forest, the Australian outback, the mountains of Peru, and the concrete jungle of New York City, NTest Inc. provides worldwide technical support and maintenance service for customers of the FiberWatch™ system in all time zones.

Our support includes RTU and server software upgrades, technical phone/e-mail/ticket-system/remote-access support and extended Hardware Warranty. The customer can choose from different support models to fit their needs.

Together with our partners, we have a team dedicated to supporting our customers from our factory in Minneapolis and in the field. From our HELP Line support, to our team of direct NTest employees and local representatives, we are committed to providing with the best possible solution for the remote fiber monitoring of our customer's networks.



WHAT THE COMPANY DOES

NTest develops the fiber monitoring system, FiberWatch™, utilizing optical time-domain-reflectometer (OTDR) technology. OTDR technology identifies fiber faults and their position in the network. The fault data can then be correlated with the Geographical Information System (GIS) to isolate the fault and pin point the problem location on a map, as shown below.

Once a network is in operation, a carrier can permanently place a remote OTDR in a rack mount configuration at a centralized location, which can be programmed to routinely test critical fibers, for early detection of degradation that may impair the signals transmitting through those fibers. FiberWatch™ combines low cost, ease-of-use, scalability and high performance for complete, economical monitoring of large fiber networks.

FiberWatch™ is designed to continuously monitor optical networks to identify and prevent problems.

In the event of fiber degradation or a cable fault, FiberWatch™ will determine the probable cause, pinpoint the exact location and generate an alarm that can automatically dispatch repair personnel with a full trouble report.

FIBERWATCH™

MAIN FUNCTIONALITY

- 24/7 automatic monitoring of the network with fast fault isolation and identification.
- On-demand fiber tests—like having an OTDR available right from the desktop.
- Long Term Analysis of fiber health trends—receive notifications for preventive maintenance.
- Mapping module capable of creating, importing, and displaying fiber routes on a map.
- OTDR Fiber Trace display, analysis, and management.
- Smart Network Schematic view.
- Integration with OSS via an SNMP interface.
- Integration with 3rd party documentation and GIS systems via REST Web Services.
- Integration of clients with smart phones and other devices.



DESCRIPTION OF EQUIPMENT

REMOTE TEST UNITS (RTUS)

The RTUs are autonomous units that monitor the network and connect to the Server via an Ethernet network to report alarms or perform other system functions.

- > FiberWatch™ RTU.
- > OTDR modules.
- > Optical Switch (OTAU) configured with the required port count for each site.
- > Wave Division Multiplexers to accommodate active fiber monitoring links.

SERVER

The server manages the entire system. The following main components are included:

- > FiberWatch™ Server Software.
- > Mapping solution with street level maps.
- > Unlimited concurrent client licenses.
- > The Server can be virtualized.



OUR VALUE PROPOSITION

We take pride in our history of innovation, and we are excited to create, to refine, and to provide you with an excellent service.

Our value proposition to our customers is high quality and higher customer satisfaction.

OPERATIONS SAVINGS

- › Automated test and trouble identification – *Reduced labor and MTTR*
- › Dispatch to Fault – Avoid multiple dispatches – *Fewer truck rolls*
- › Minimize fiber connection handling – *Fewer multiple dispatches*
- › Service performance monitoring – *Reduced trouble reporting*
- › Record database maintenance – *Automated, accurate record keeping*
- › Capacity Planning – *Real-time PON physical inventory*

IMPROVED TOP LINE AND PROFITABILITY

- › Accelerated roll out of services – *Early Revenue*
- › Higher level of customer care and quality of service – *Reduced Churn*
- › Manage SLAs with advanced reporting features
- › RFTS used as differentiator over competitors
- › Provides network security personnel with a full trouble report.
- › 24/7 automatic monitoring of the network with fast fault isolation and identification.

- › On-demand fiber tests—like having an OTDR available right from the desktop.
- › Long Term Analysis of fiber health trends—receive notifications for preventive maintenance.
- › Mapping module capable of creating, importing, and displaying fiber routes on a map.
- › OTDR Fiber Trace display, analysis, and management.
- › Smart Network Schematic view.
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- › Integration with 3rd party documentation and GIS systems via REST Web Services.
- › Integration of clients with smart phones and other devices.

OTHER SERVICES

- › Professional Server Installation and Configuration by NTest Engineers
- › Professional RTU Installation and Configuration by NTest Engineers
- › On-site Administrator and User Training
- › Complete System Commissioning
- › SLA support contract that includes software upgrades, phone/email software support, and 24-hour spare replacement



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