

Proactive fiber-network monitoring and management

Smarter
network
in sight

Integrate EXFO fiber monitoring solutions with industry leading external inventory and geographic information systems for a cost-effective approach to proactive fiber monitoring.

Hybrid fiber-coax network (CATV)

PRIOR SOLUTION

- › Legacy remote fiber test system (RFTS) typically monitored four dark fibers per 400 fiber optic sheaths
- › Single node, hybrid fiber coax (HFC) cable utilized

TECHNOLOGY SHIFT

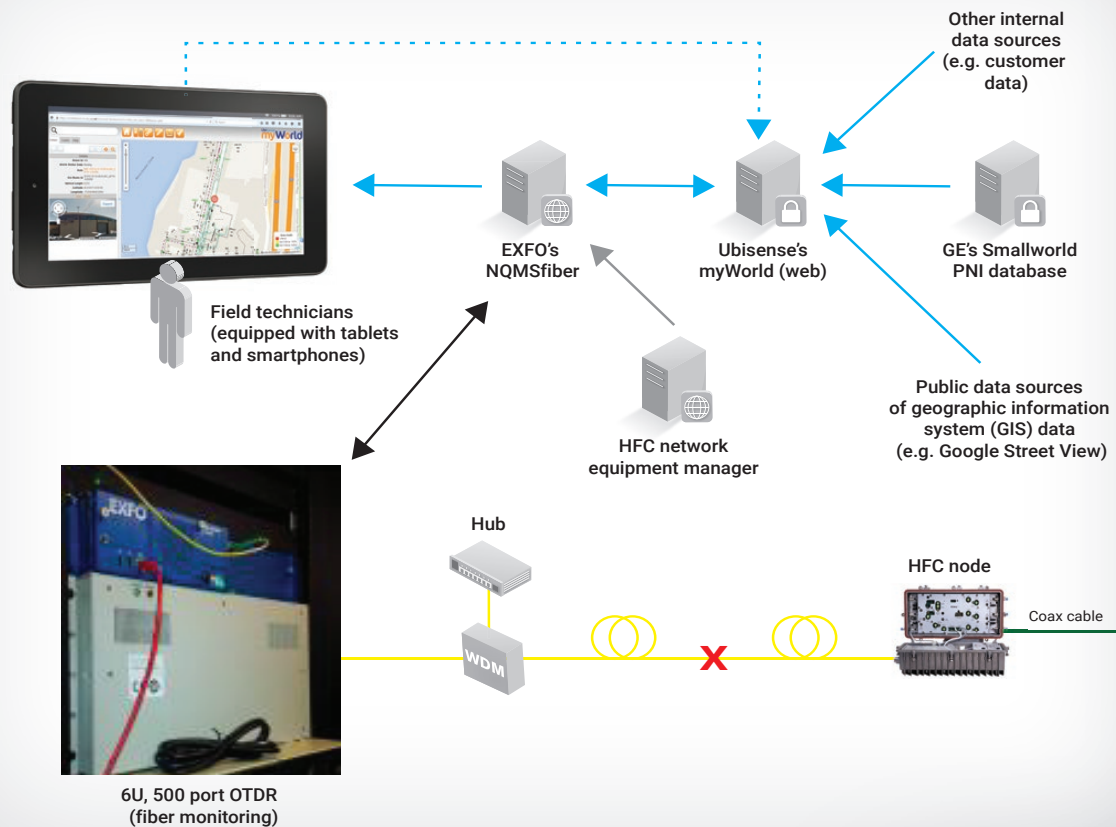
- › Shift to C-band DWDM, $4\lambda_{up} + 4\lambda_{down}$ per fiber
- › Each fiber handles 4x more traffic
- › Addition of Ubisense's myWorld solution—already pulling in cable paths from physical network inventory (PNI)



NEW SOLUTION

- › Live monitoring of all fibers
- › 200 fibers on largest hubs
- › Automatic on-demand testing
- › Proactive monitoring
- › Cost-effective solution

NEW SOLUTION



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	Fiber Guardian + Node Optical Test Access Unit (OTAU)	OTDR test module (OTM)	Mapping tool	Management layer
Solution building blocks	<ul style="list-style-type: none"> › FG-750ST (1 port) › Node OTAU (576 ports) 	<ul style="list-style-type: none"> › Filtered Node OTDR › OTM-700-Node 	<ul style="list-style-type: none"> › Integration with GE's Smallworld PNI and Ubisense's myWorld 	<ul style="list-style-type: none"> › EXFO's NQMSfiber and HFC element management system (EMS)
Key features	<ul style="list-style-type: none"> › MTP®¹ connectors on an optical switch › 6U rackmount size › 576 test ports 	<ul style="list-style-type: none"> › High performance on small or medium pulses › 1625/1650 nm circuits 	<ul style="list-style-type: none"> › Custom JSON API from Ubisense › On-line fault tracing over an API 	<ul style="list-style-type: none"> › NQMSfiber: On-demand test API (SOAP/XML) › HFC SNMP events on circuit alarms
Benefits and competitive advantages	<ul style="list-style-type: none"> › Lowest cost per port 	<ul style="list-style-type: none"> › Seamlessly move to 1650 nm if traffic expansion occurs in the C and L bands 	<ul style="list-style-type: none"> › Field technicians can link to faults on network maps › Mobile tools for field technicians › Smallworld delivers cable (length) data improvements 	<ul style="list-style-type: none"> › Automated diagnosis with on-demand fiber fault analysis triggered by SNMP alerts from HFC nodes

¹ MTP is a registered trademark of US Conec Ltd.

Visit our website or contact us today to learn more about the FG-750 Fiber Guardian Series: isales@exfo.com