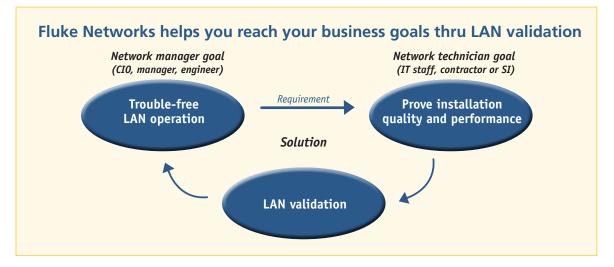
Network Technician Toolkits Install, validate, and troubleshoot LANs fast

-LUKE networks

For many companies today, the local area network (LAN) is business-critical. If the network is down, the business is down. Therefore, network managers demand trouble-free network operation – or else their reputations or jobs could be at risk.

A business is a dynamic environment – employees are added or moved, client devices are upgraded or replaced, and new technologies are rolled out. The LAN supporting the business needs to adapt accordingly. When planning a network infrastructure expansion or upgrade project, the network manager expects new or upgraded LAN segments to exhibit the same trouble-free performance as the rest of his network. A smart manager requires that the network technician tasked with completing these projects prove that the new infrastructure was installed and configured correctly, and will perform as expected. LAN validation is that proof.



LAN validation maximizes network performance and minimizes network downtime by identifying and correcting problems at the conclusion of a LAN infrastructure installation project. The alternative is to skip validation and let employees find the installation-related problems in the course of normal business operations. When problems are found this way, costs are high as effected employees are unproductive and IT resources are needed to troubleshoot problems. It is more cost effective to proactively identify and fix problems via LAN validation – and since a validated LAN exhibits significantly fewer problems, employees are happier too.

E	Best practice:	Step 1: Install LAN	₽	Step 2: Validate LAN	₽	Step 3: LAN goes live. Result few LAN problems, happy users
-	Alternative:	Step 1: Install LAN	₽	Step 2: LAN goes live	₽	Step 3: Users find problems. Result: user complaints, high costs

LAN validation is a two-step practice that occurs just after the infrastructure installation and prior to the network going live with employees. It consists of (1) datacom cable certification and (2) LAN performance assessment.

- Cable certification guarantees that the installed and terminated twisted pair copper and fiber optic cabling complies with TIA/ISO standards. Standards-based certification is important to ensure that the cabling infrastructure will reliability support higher-layer network functionality.
- Performance assessment guarantees that the installed and configured LAN infrastructure devices, including network interface cards, switches, access points and routers (OSI layers 1 -3), are working together correctly to deliver network traffic with the desired speed (throughput) and quality (latency, jitter). Performance assessment also guarantees the availability and responsiveness of critical network services (OSI layers 4 -7). These services include successfully connect-ing clients to the LAN (DHCP), transferring files (FTP), browsing the web (HTTP), and URL-to-IP address translation (DNS).

Cable certification + Performance assessment = LAN validation

N E T W O R K S U P E R V I S I O N



Fluke Networks offers best in class solutions for cable certification and performance assessment. The DTX CableAnalyzer[™] significantly reduces the total time to certify network cabling by improving every aspect of the testing process. The EtherScope[™] Network Assistant significantly reduces the time to measure Ethernet performance and validate LAN services through proprietary algorithms that automate testing processes.



New DTX CableAnalyzer and EtherScope kits maximize value and cut expenses

Save 25%

off list

price when

purchasing a

DTX and ES2

together

in a kit!

The PRO Technician Kit includes everything needed for copper and fiber cable certification, Ethernet performance assessment, and wired and wireless LAN troubleshooting.

PRO Technician Kit

ES2-DTX-PRO-KIT = DTX-1800-M and ES2-PRO-SX/I-KIT

- 10 Mbps to 10 Gig copper cable certification
- Multimode fiber certification (Tier I)
- 10/100/Gig Ethernet troubleshooting
- 802.11 wireless LAN troubleshooting
- Gigabit Ethernet performance measurement with LinkRunner Pro Reflector (included)
- Service performance assessment

The LAN Technician Kit includes the basics for

copper cable certification and wired LAN troubleshooting.

LAN Technician Kit

ES2-DTX-LAN-KIT = DTX-1800 and ES2-LAN-SX

- 10 Mbps to 10 Gig copper cable certification
- 10/100/Gig Ethernet troubleshooting

Contact your local Fluke Networks sales representative to learn more about Fluke Networks network test solutions or to schedule an on-site product evaluation. www.flukenetworks.com/contact

LAN infrastructure installation and 20 projects/year upgrade projects Project size 200 cable drops/project 4000 cable drops/year Network problems identified by 24 problems/project employees 480 problems/year Cost of not validating Employee hours/problem 1 new LAN downtime cost installations hours/year 480 and upgrades \$16,800 /year @ \$35/hr IT staff hours/problem 1 troubleshooting cost 480 hours/year \$12,000 /year @ \$25/hr Cost of not validating and letting employees \$28,800 /year find problems Labor hours to validate project 5 min/drop quality using Fluke LAN Networks PRO Toolkit validation cost 333 hrs/year Cost of LAN \$/year at \$25/hr \$ 8,333 validation LAN validation \$20,467 /year ROI \$17,995 cost of PRO Toolkit Savings 11 months

LAN Validation ROI Example

Example based on U.S. dollars.

N E T W O R K S U P E R V I S I O N

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