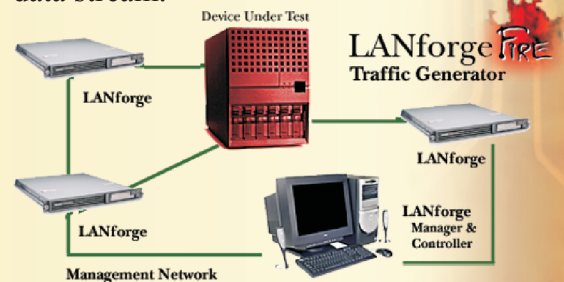


# Network testing and emulation solutions

## LANforge VoIP/RTP Call Generator

- ✔ Supports SIP and H323 VoIP messaging protocol and RTP data stream.
- ✔ Supports direct-dial mode and gateway mode.
- ✔ Supports the following RTP CODECs and more.
  - G.711u: 64kbps data stream at 20ms packetization.
  - G.729: 8kbps data stream at 20ms packetization.
- ✔ Capable of 140+ emulated VoIP phones per machine.
- ✔ LANforge VoIP endpoints can call third party SIP phones like Cisco and Grandstream.
- ✔ Third party SIP phones can call LANforge VoIP endpoints for audible monitoring of streamed WAV file.
- ✔ Comprehensive reporting of Call, RTP and RTCP statistics. Optional PESQ automated voice quality reporting.



## LANforge-FIRE Network Traffic Generator

- ✔ Supports real-world protocols:
  - Layer 2: Ethernet, 802.1Q VLANs, MAC-VLANs, 802.11a/b/g (wireless)
  - Layer 3: Accelerated UDP/IP (999 Mbps on Gigabit, 97Mbps on 100bt)
  - Layer 3: TCP/IP, UDP/IP, UDP Multi-cast, including TOS/QoS
  - Layer 4-7: FTP, HTTP, HTTPS, TELNET, PING, DNS, SMTP
- ✔ Emulates up to 250 unique networked devices per LANforge machine.
- ✔ LANforge WiFIRE 802.11a/b/g wireless client emulator supports up to 31 virtual stations and supports normal LANforge FIRE protocols including VoIP.
- ✔ Comprehensive traffic reports include: Packet Tx/Rx rate, Packet drop, Tx/Rx bytes, Latency, Jitter and Ethernet driver counters.
- ✔ Supports real-time graphical reports as well as text reports ready to be imported into your favorite spread-sheet.
- ✔ Allows packet sniffing and network protocol decoding with the integrated Ethereal protocol sniffer.
- ✔ Java based GUI runs as application on Linux, Solaris and Microsoft Operating Systems and others. LANforge servers run on Linux and MS Windows.
- ✔ Central management application manages multiple units, tests and testers simultaneously.
- ✔ Supports scriptable Telnet command line interface to help automate test scenarios. Perl libraries and example scripts are also provided!