

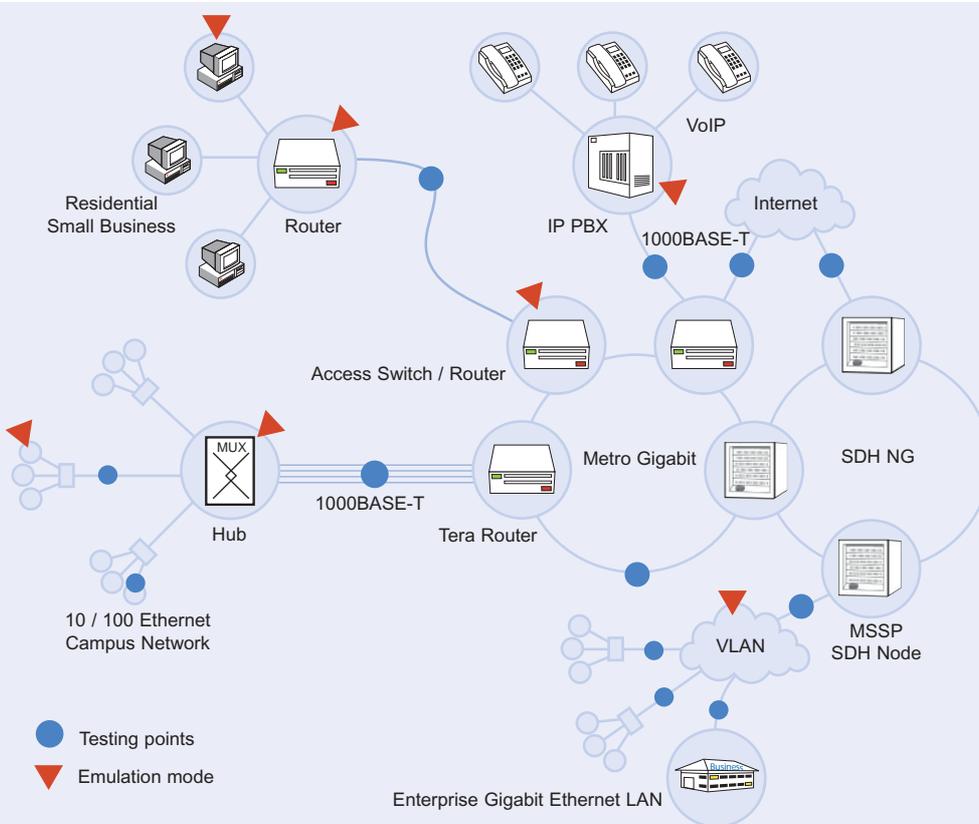


Aurora Tango Gigabit Ethernet



'Networking is moving towards Ethernet' is a frequently heard statement these days, and Ethernet has indeed proved to be a viable, compatible and cost-effective solution.

Trend understands that operators and manufacturers are delivering converged services that will conquer metropolitan and access networks, and this is why we have designed Aurora Tango Gigabit Ethernet, your assistant in the installation, commissioning and troubleshooting of new broadband, datacom and VoIP services.



- RFC-2544 conformance
- Full 10, 100, 1000 Mbit/s support
- Comprehensive traffic generator
- Terminate, Through and Monitoring operation modes
- PDA as user interface
- Gigabit Ethernet commissioning
- Service Level Agreement (SLA) verification
- Class of Service (CoS) setup
- Modules for ADSL, SHDSL, ISDN and 2M/Datacom
- One button PASS/FAIL test
- Physical, MAC, IP and VLAN verification
- Access and Metropolitan use

Service Deployment

and SLA Verification

The Ethernet Challenge

The emergence of Ethernet in Metropolitan Networks (MAN) is leading the migration from circuit-oriented to packet-oriented data networks. This means that Ethernet will have to face a variety of new physical-layer multiservice nodes and carry data over longer distances than before.

Furthermore, soon Ethernet will need to support MPLS, RPR, and time-dependent applications such as VoIP and multimedia. These will be big challenges for Ethernet, which was designed as a best-effort technology.

Aurora Tango Gigabit Ethernet is Trend's way to help you to meet these challenges. This modular, extremely light and portable tool will be your personal assistant in service deployment and SLA verification. And what's best; it never gets out of date.



Modularity, portability and ease of use

- Quick and efficient tests
- SLA set up and verification
- Link-to-link and end-to-end analysis
- Auto-tests
- PDA: an advanced, user-friendly touchscreen interface

Installation and Commissioning

Aurora Tango Gigabit Ethernet ensures a quick setup and debug process for Ethernet installation up to 1 Gigabit/s. It has the prime objective of:

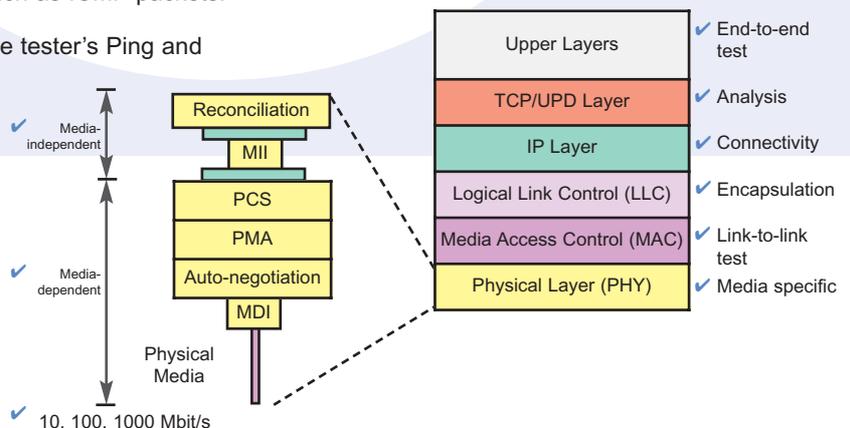
1. Assisting and debugging physical layer installation (copper or fibre), using the optical power meter (fibre only), through continuity test, traffic generator and receiver.
2. Verifying the Ethernet and IP layers against RFC-2544, using IP Ping, trace route and VLAN verification
3. SLA certification, including traffic load, bandwidth, service reliability and latency / round trip delay.

Maintenance

Once the Gigabit Ethernet network is deployed, you can't just sit back and relax. Poor performance is bound to occur, and when it does, Aurora Tango will be there to help you to diagnose and fix the problem by testing the performance of the link - throughput, link utilisation and MAC errored frames.

Use Aurora Tango to test the IP and higher layers, analysing the packets on the network, for example UDP or TCP. You can also analyse traffic in detail by filtering it to an external analysis application like Trend Observer, to get an accurate diagnosis from other sources of information, such as ICMP packets.

If there is no traffic on the network, take advantage of the tester's Ping and Trace Route features to set up network paths and resolve routing mismatches.



All the Test Applications

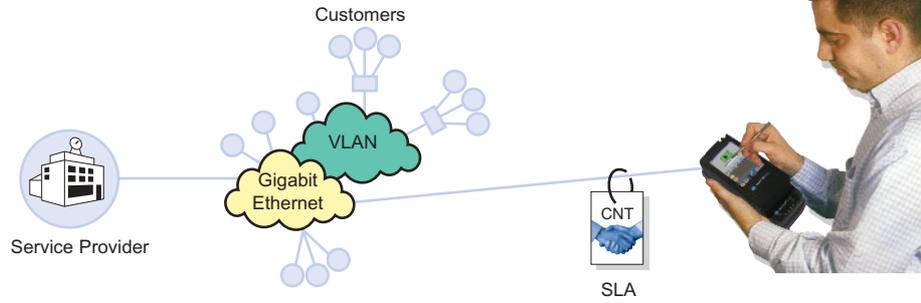
for Installation and SLA Maintenance

Copper/Fibre Installation

Aurora Tango Gigabit Ethernet is the most efficient assistant you can find for physical layer testing, for both copper and fibre.

For copper cables you can measure length, detect pair swap, polarity swap, skew, cable short / open circuit, impedance mismatch, and run a BERT.

If you are working with fibre, you can check continuity, measure optical power, or run a BERT to measure quality.



SLA setup and certification

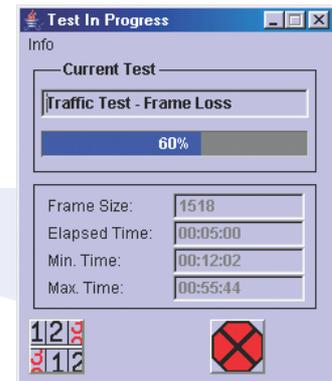
- Simultaneous traffic generation and analysis
- Programmable filters for frame and packet capture
- Physical, MAC, IP and upper layer analysis
- Cable and fibre testing
- Capture filter and packet export testing
- RFC-2819 compliant
- Traffic trace

Capture and Decoding

With Aurora Tango, you can choose between one or two bi-directional ports that you can use to capture traffic on a network. This way you can view the protocol activity and Ethernet layer performance statistics, for example packet counts by size and packet errors.

Thanks to Aurora Tango's capability to filter traffic by address, you can easily spot problems, saving valuable time and resources.

DNS/DHCP support is included, so that you can log in to servers correctly.



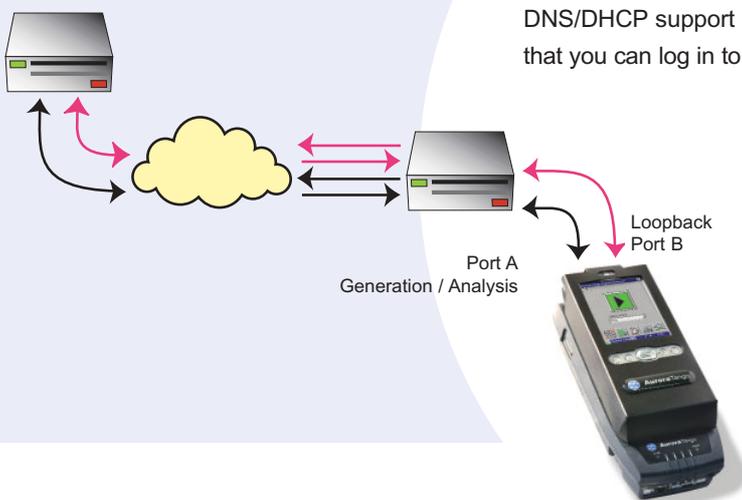
Traffic Generation

Aurora Tango's transmitter can generate traffic at full wire speed, so you can stress network links and nodes with ease.

Set up the traffic stream to include patterns, choose the address, or format the MAC and IP layers.

Carry out Bit Error Testing at line rate on the Physical or IP layers.

Insert errors and alarms to make sure that the far-end point is responding correctly and that the layer is properly managed.



End-to-end verification at Physical, MAC, or IP layer using two ports and loopback terminate mode

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