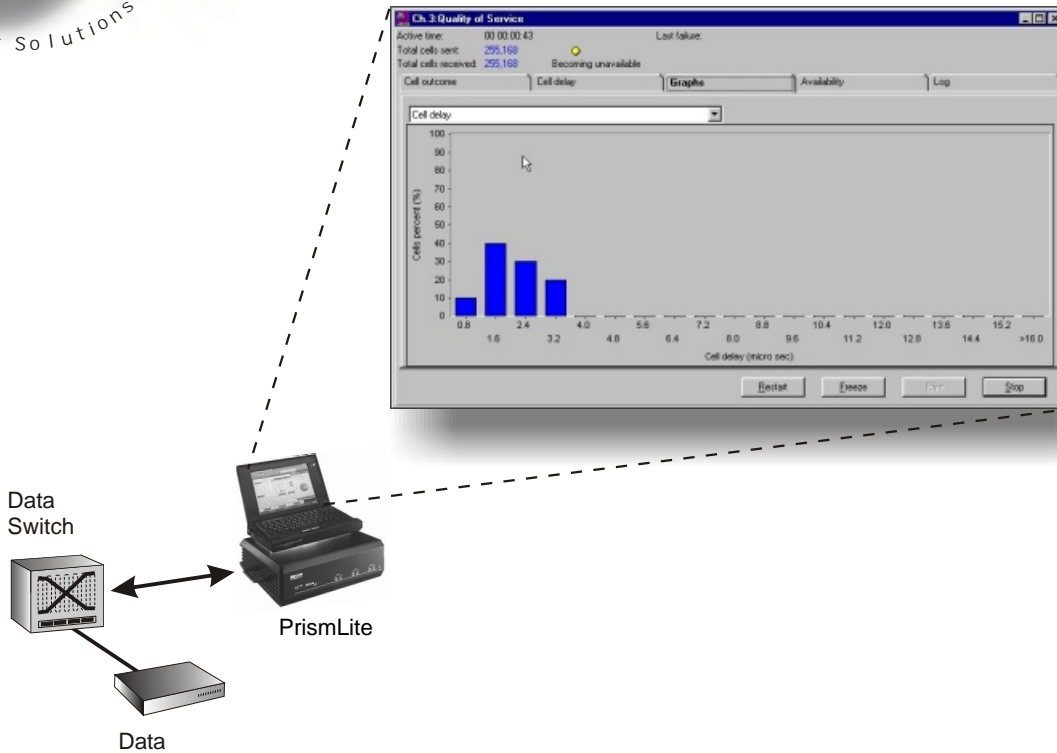




ATM Quality of Service Application



The ATM Quality of Service (QoS) Application is a powerful tool for the installation, troubleshooting and fine-tuning of ATM links. On-line, it calculates and displays all the relevant QoS parameters at the full line rate. The ATM QoS application displays results both numerically and graphically. It provides a detailed log of QoS events for subsequent

inspection, which enables the optimization of QoS sensitive services on ATM links. It is an essential tool for field service engineers, network installers and equipment manufacturers because it allows the definition of various thresholds to test different QoS parameters and automatically notifies users when parameters do not meet the user-defined criteria.

High lights

- Measures all QoS parameters at up to full line rate.
- Fully conforms to ITU-T standards I.356 and I.357.
- Background traffic can be produced alongside the measured traffic to simulate real network conditions.
- Pass/Fail criteria (user defined) provide immediate indication of problems.
- On-line, graphic display of test results, including cell delay, cell delay variation (CDV) and distribution of cell outcome.
- Prints reports which can be exported to other MS-Windows applications.
- Supports OC-3c multi and single mode, UTP5, E1, E3, DS-1, DS-3 and 25 Mbps interfaces.
- Timing measurements of 0.8 microsecond resolution.
- Windows-based user interface.
- Recording of test results for later off-line analysis.

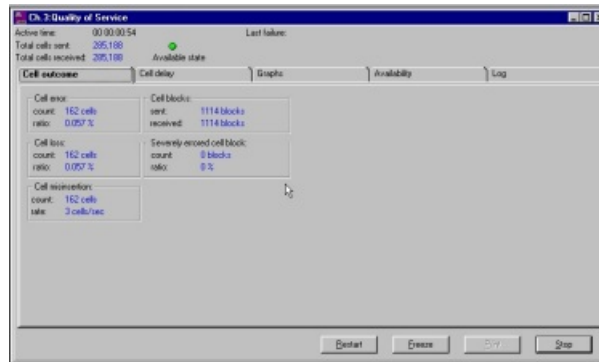
Applications

Developers need to know how their devices affect an ATM traffic profile. In particular, switch developers can use this application to determine whether a switch induces delay on a cell stream or to establish the delay variance.

ISPs provide services and applications which may be sensitive to QoS parameters (e.g., voice is sensitive to Cell Delay, data to Cell Loss). ISP personnel can use this application to verify that connections are suitable for the services they provide.

Network managers of large organizations such as phone companies or large institutions incorporating ATM networks can use the QoS application to select the vendor for their switches and to test the performance of their network during installation and operation.

End-Users who have requested and pay for a specific Quality of Service (particularly in wide area networks) can use this application to verify that they are actually receiving the requested service.



Specifications

Supported Analyzers

PrismLite WAN/LAN/ATM analyzer using the ComboFEP

Supported Physical Interfaces

OC-3c/STM1 multi-mode, single-mode, UTP-5, DS-3, DS-1, E3, E1, 25 Mbps

Compliance to Standards and Specifications

I.356, I.357

Available On-line Graphs

- ▶ Cell delay
- ▶ Cell delay variation
- ▶ Cell outcome
- ▶ Cell outcome statistics
- ▶ Cell inter-arrival time

Measured Parameters

- ▶ Cell loss count
- ▶ Cell loss ratio (CLR)
- ▶ Cell misinsertion count
- ▶ Misinsertion rate
- ▶ Cell delay
- ▶ Cell delay variation (CDV)
- ▶ Inter-arrival time (IAT)
- ▶ Severely errored cell block
- ▶ Severely errored cell block ratio
- ▶ Availability ratio
- ▶ Mean time between outages

Timestamp

0.8 micro second accuracy

Ordering Information

AT-SW-QoS (requires AT-FEP-Combo).

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respective companies.*