

MCS AccessCT™ Network Test Appliance

AccessCT – Turn-key appliance automates connection testing from remote customer sites and data centers, simply plug the device in the remote network and go!

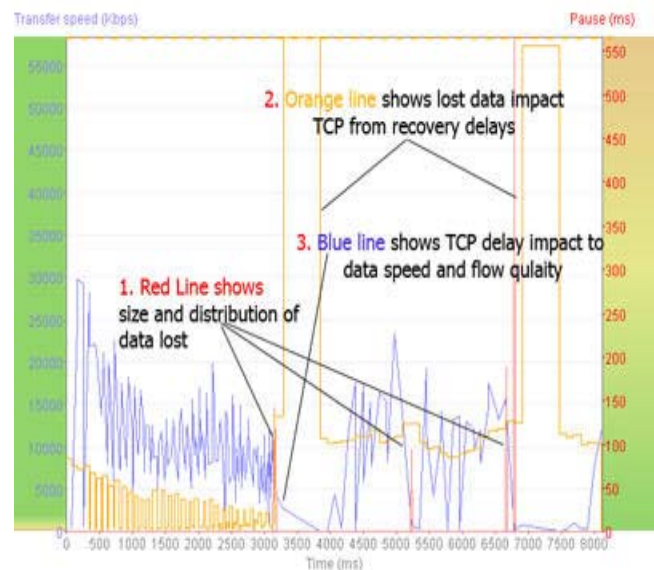
AccessCT is a small (3"x4") fully automated appliance that supports active connection testing and passive monitoring, which enables the AccessCT appliance to analyze the test traffic during the connection test process. The AccessCT platform provides a cost effective solution that does not entail the use of a PC platform, reducing administration costs and eliminating resource contention that can otherwise impact connection performance.

The AccessCT solution is unique as it has its own fully integrated TCP stack which provides visibility to a wide range of valuable network performance measures. By combining integrated TCP analysis within the test process, the AccessCT device delivers detailed reporting of connection test results such as the throughput, speed and quality of the connection in addition to:

- **Dropped data** on the WAN route, in packets as well as bytes
- **Lost data due to buffer overrun** situations caused by network delays resulting from dropped packets
- **Duplicate re-transmitted data** caused by traffic delays as a result of dropped packets
- **Out-of-order data** caused by lost data recovery
- **Partial data** packets as a result of data recovery requests

Integration with a functional TCP stack enables AccessCT to detect local network (LAN) problems that may affect WAN performance such as CRC errors and frame errors. As an example, the graph on the right is of a typical connection that clearly shows the impact of lost data on the quality and throughput of a connection being tested.

An integrated route testing engine analyzes the route(s) between the origin and destination(s) to help identify and resolve connection problems. The AccessCT traceroute testing engine, if configured, can also be used seamlessly from MyConnection Server online users. This provides the benefit of being able to test connections from multiple points of presence (POPs), this flexibility also allows engineers in the support office to work directly with engineers using AccessCT devices in the field.



MyConnection Server[®]

AccessCT operates seamlessly with MyConnection Server allowing connections to be monitored and tested over long or short periods of time. The combined solution supports a centralized or distributed data model delivering detailed results for problem resolution, network planning and overall monitoring.

The MyConnection Server framework includes several key network testing modules to perform specialized measurement and analysis of today's web-delivered applications:

- **MyCapacity[™]** – Bandwidth capacity, max throughput, UDP speed testing with variable testing payload
- **MyIPTV[™]** – Network real-time IPTV performance and quality testing
- **MyRoute[™]** – Network route performance testing and analysis with IP locations
- **MySpeed[®]** – Bandwidth speed testing with connection quality analysis and end to end route performance
- **MyVideo[™]** – Network real-time streaming video performance and quality testing
- **MyVoIP[™]** – Digital phone service Voice-over-IP quality testing and analysis

Satellite Servers

Satellite Servers add significant power and flexibility to MCS as they simplify the problem of testing connectivity between two remote locations. Satellite Servers act as target testing servers for the AccessCT appliance, providing a quick and easy means to perform on-going or ad-hoc testing from one remote location to another remote location, with test results immediately visible to the MCS Support Technician anywhere in the world.

AlertAdvisor

AlertAdvisor provides instant notification of connections that violate critical application thresholds. Set threshold values on key performance metrics, receive an email whenever a connection performs below critical application service levels.

- **View real-time alert status** anytime, anywhere with real-time browser-based reports
- **Define Alert levels** with Warning, Information, or Critical status
- **View past alerts** summarized by Last Hour, Last Day, Last 30 Days

MCS AccessCT Requirements

- Power: USB, PoE (Power over Ethernet), or mains power adapter
- Ethernet connection
- MyConnection Server application with remote testing enabled

