

Combined Endeavor '05

The Mini Accelerator Enables Mission Success

Customer

Combined Endeavor, sponsored by U.S. European Command (EUCOM), is a 13-day exercise involving over 43 nations and 1,200 military and civilian personnel. Combined Endeavor began in 1995 as a simple effort to bring NATO and former Warsaw-pact countries together under the auspices of NATO's Partnership for Peace, and has since taken place annually.

Mission

The Joint Inter-Operability Test Command (JITC) documents the interoperability test results in a system called CEPTR. Since the first Combined Endeavor exercise in 1995, over 15,000 interoperability tests have been completed with an additional 1,400 tests being conducted this year.

Obstacles

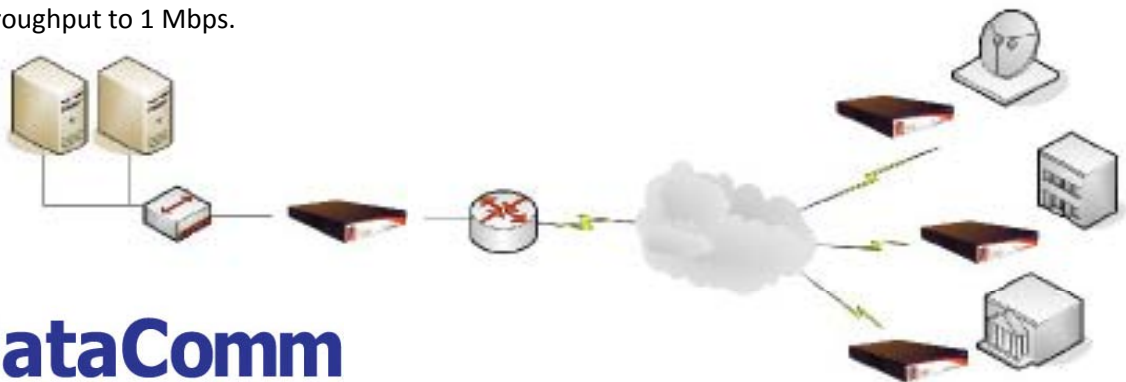
As an Enterprise Application, CEPTR was designed to function in a 10 Mbps network environment. Due to operational constraints, only a 2 Mbps satellite path was available between the Network Operations Center and forward deployed units. The insufficient data path was further degraded by 550 msec of latency. The combined effect of inadequate bandwidth and high latency not only prevented CEPTR from functioning, but reduced effective data throughput to 1 Mbps.

Solution

For the second time, LTI DataComm was selected to support Combined Endeavor due to its expertise in network application performance and bandwidth optimization. LTI's **Mini Accelerator 3000E** was the perfect solution to the exercise's insufficient satellite bandwidth problem. Through the use of Caching, Compression, Quality of Service (QOS) and Space Communications Protocol Standard (SCPS), a DISA standard for resizing Transport Control Protocol (TCP) window size, the Mini Accelerator is able to increase effective throughput while combating the effects of latency.

“Without LTI DataComm, our central database would not have been accessible from our forward operation. We are very appreciative of their efforts in supporting the exercise this year.”

-LtCol Jerry Schlabach



Features:

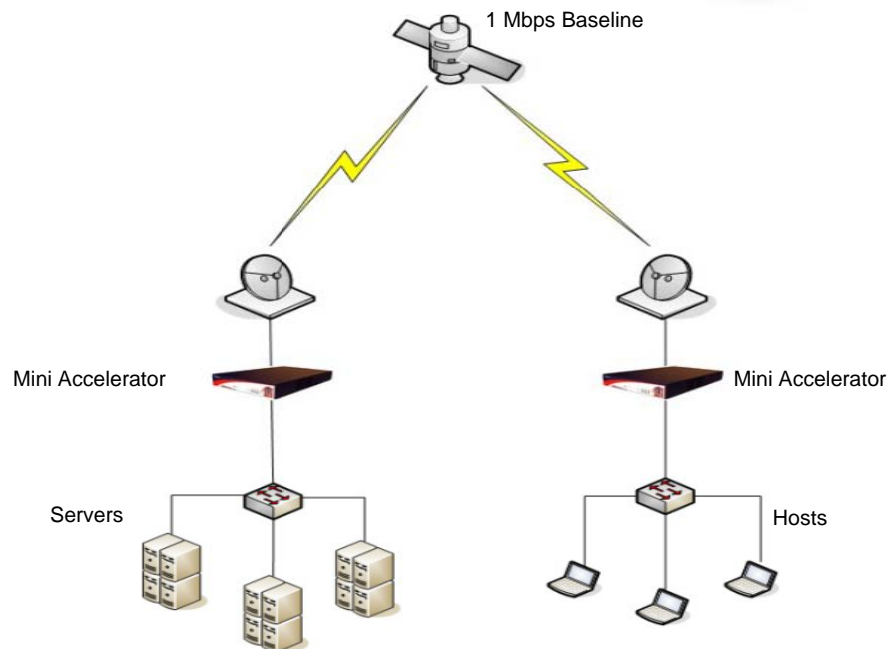
- Improves Network and Application Performance by 100-400% with Peaks of 1,000%
- Utilizes SCPS Protocol to Reduce the Effects of Latency
- Scales from 256 Kbps to 6 Mbps WAN Speeds
- Interfaces to KIV/KG and Other Encryption Devices
- Rapid Deployment, Instant Results
- Robust Remote Monitoring and Management
- Compatible with all Existing Expand Networks Accelerator Devices

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Results

The Mini Accelerator 3000E enabled CEPTR to successfully operate by providing up to 1750% acceleration over the satellite link. The end result was effective throughput at peaks of 17 Mbps over a 1 Mbps pipe and mission success in extending the CEPTR database to forward deployed elements. The use of caching and compression optimized the data path while SCPS mitigated the effects of latency. LTI DataComm also provided full on-site technical support. LTI's Technical Services team configured and deployed the Mini Accelerators while troubleshooting other segments of the network.



“LTI DataComm allowed us to project services from our test management application (CEPTR) to our forward operating site in Romania.”

LtCol Jerry Schlabach

Solutions to Serve, Solutions for Service