

CTX 600 VoIP ACCELERATOR

INTELLIGENT, AFFORDABLE TRAFFIC MANAGER DELIVERS TOLL-QUALITY VOIP PERFORMANCE FOR SMB AND REMOTE OFFICES

Experiencing voice distortion, word loss, echo, talker overlap or dropped calls on your VoIP network?

Solve your VoIP problems quickly and easily with the application-aware CTX 600 VoIP Accelerator. The CTX 600 ensures toll quality performance with robust traffic management to protect VoIP traffic and ensure optimum use of broadband bandwidth at the lowest possible cost. Applications are classified at wire-speed on a per flow basis so VoIP gets top priority and guaranteed bandwidth. Other data applications like e-mail and browsing are given best effort service.



MAKE VOIP WORK AS ADVERTISED WITH THE CTX 600 VOIP ACCELERATOR

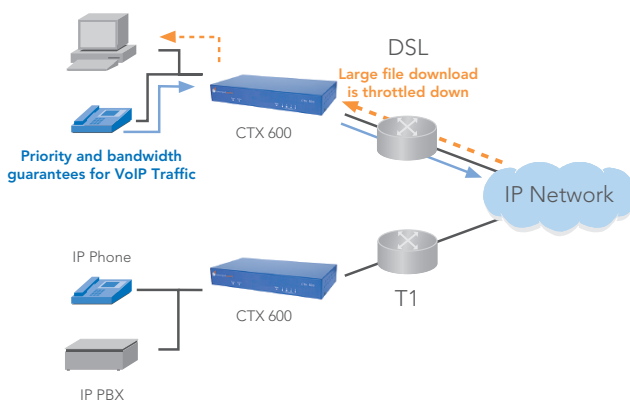


Figure 1: CTX 600 guarantees bandwidth for critical applications, while throttling back other less important applications. It provides QoS for all broadband services.

> APPLICATIONS

- Delivers affordable toll-quality VoIP for IP PBX solutions to SMBs and Remote/Branch Offices
- Protects VoIP quality and enables premium business application guarantees as part of a hosted VoIP or managed converged service

> FEATURES

- Fast and easy to install GUI
- Industry-leading traffic management
- SIP application layer traffic classification
- Accurate bandwidth guarantees using Class-based Queuing
- Flow optimization with TCP rate shaping
- Packet size optimization
- Highly efficient use of bandwidth protects VoIP while dynamically allocating available bandwidth to other applications
- 4 port LAN switch

> BENEFITS

- Enhances your VoIP experience over the IP WAN by intelligently prioritizing and protecting latency-sensitive traffic
- Reduces user complaints and support costs caused by poor quality VoIP or slow response times for critical applications
- Eliminates the need to purchase additional bandwidth
- Integrates seamlessly into your existing IP network without any changes to your router or application configuration

CTX 600 Highlights

CTX 600 VOIP ACCELERATOR INSTANTLY INCREASES QUALITY OF EXPERIENCE WHILE REDUCING OPERATING COSTS

BANDWIDTH USAGE BEFORE CTX 600

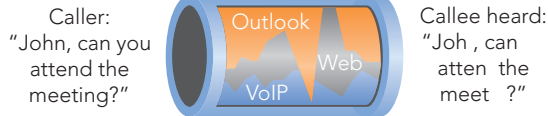


Figure 2: Lack of QoS results in poor VoIP performance.

BANDWIDTH MANAGEMENT AFTER CTX 600

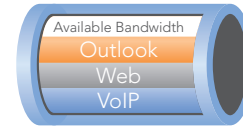


Figure 3: Prioritization ensures toll-quality VoIP performance.

PRECISE AND GRANULAR TRAFFIC MANAGEMENT TECHNOLOGIES

- Inspects and classifies all traffic at wire speed, identifying delay-sensitive applications
- Uses advanced Class Based Queuing and TCP Rate Shaping to ensure bandwidth guarantees and priority for important traffic
- Controls inbound and outbound traffic, communicating with all TCP remote hosts to pace traffic, thus eliminating congestion, retransmission and delays
- Optimizes packet size to avoid large data packet in front of delay-sensitive VoIP packet

EFFICIENT, ASSURED WAN OPTIMIZATION

In recent tests, the Converged Access QoS technology delivered toll-quality MOS scores for up to 47 concurrent VoIP calls over a T1 circuit—while achieving over 95% link utilization. This efficiency makes the product ideal for companies that must optimize WAN costs while adding new, performance-sensitive applications like VoIP.

LOWEST TCO WITH EASY THREE-STEP SET UP

Simple configuration interface walks you through the process. All you need to do is define the upstream/downstream bandwidth available, the number of VoIP calls to protect and the Codec used. The rest is done by the system. A data application class can be configured with the same ease. The CTX 600 is easily integrated with an existing router network, operating as a bridge located just before the WAN router.

THE CTX 600 OUTPERFORMS ROUTER QOS AND BANDWIDTH UPGRADES WITH IMPROVED VOICE PERFORMANCE AND OPTIMUM BANDWIDTH UTILIZATION AT THE LOWEST POSSIBLE COST

CTX 600 VOIP ACCELERATOR

- CTX 600 is simple to install, configure and operate with instant results
- Controls outbound AND inbound traffic, communicating with all TCP hosts to smooth large downloads and prevent congestion, retransmission and delays
- Controls applications very precisely enabling very high WAN bandwidth utilization
- Eliminates traffic peaks and the need to purchase more bandwidth
- Uses advanced traffic management techniques to ensure VoIP traffic is forwarded before large downloads affect quality
- Guarantees bandwidth for critical applications, while throttling back other less important applications

ROUTER QOS OR BANDWIDTH UPGRADE

- Routers are complex to set up and update
- Routers require special training which is problematic for SMBs trying to cut support costs
- Routers give no control at all on inbound downloads
- When multiple VoIP calls are placed and there is lots of traffic or large downloads across the WAN, routers just do not work
- Retransmissions cause huge network inefficiencies and prohibit TCP flows from achieving their potential throughput
- Routers provide only a coarse degree of control; usually forcing you to buy more bandwidth to support the same number of calls because the link cannot be saturated to its maximum
- Additional bandwidth does not solve the problem
- Because there is no prioritization, IP applications tend to use all the bandwidth available, so a large e-mail attachment will affect a VoIP call in progress even if you add more bandwidth