converged access

PRODUCT BRIEF

CONVERGED ACCESS POINT

ALL-IN-ONE CONVERGED ACCESS DEVICE ASSURES IP QOS AND SECURITY WITH LOWEST TCO FOR SMB/SME AND REMOTE OFFICES

Small to Medium Business/Enterprise (SMB/SME) and remote branch offices are moving from separate legacy data and voice networks to a converged IP network. The motivation is simple: cut costs while enabling new IP applications that are more intelligent, flexible and efficient.

In preparing for this all-IP migration, IT managers must carefully consider the performance and security needs of each application. Mainstream business applications require user level response time guarantees. Each Voice over IP (VoIP) call must have toll-quality performance. In addition, productivity tools like video conferencing must meet strict quality standards to be useful. Total Cost of Ownership (TCO) is also critical as small office environments seek solutions that fit their business model.

> The Converged Access Point (CAP) is the industry's first platform purpose-built to deliver the application performance, WAN efficiency, security and TCO that small offices need to bring business-critical voice, data, and video onto a converged IP WAN. Based on the company's advanced QoSWorks® traffic management technology, the CAP offers premium application performance with lowest TCO, empowering the enterprise with:

- Toll-quality VoIP, jitter-free video and business-class IP data performance
- Precise per user application performance guarantees
- WAN optimization with bandwidth utilization that can exceed 95%
- Comprehensive VPN and firewall security that is application-aware
- VoIP gateway support for legacy voice, fax and other analog devices
- Integrated, secure 802.11 b/g Wi-Fi access
- An integrated "all-in-one" small office solution reducing TCO by as much as 66%

CONVERGED ACCESS INC.
31 Dunham Road
Billerica, MA 01821

Phone: +1 (978) 436.9111
Fax: +1 (978) 436.9922
www.convergedaccess.com
info@convergedaccess.com

Product Highlights

AN INTEGRATED SMALL/REMOTE OFFICE SOLUTION

The CAP securely guarantees application performance while optimizing WAN efficiency for businesses with growing IP voice, data and video applications. By consolidating industry-leading traffic management, security, wireless access and VoIP gateway services—all in a single, compact footprint—the CAP provides an "all-in-one" solution that reduces TCO as compared to multi-box solutions by a factor of at least 3. IT managers further benefit by avoiding the many separately managed devices that can add complexity, degrade performance and create single points of failure.

Service providers benefit when the CAP is easily deployed as part of a managed VoIP, security or converged service. Secure access, toll-quality VoIP, premium business application guarantees, and the ability to measure and verify SLAs are just a few of the highly differentiated services that are possible with the CAP.

PRECISE PER USER APPLICATION GUARANTEES

As enterprises integrate a broader mix of business IP applications, the demands of each application must be addressed. The CAP meets this challenge with the ability to deliver granular and precise performance guarantees. The system integrates advanced QoS technologies including packet optimization, priority, call admission, TCP rate shaping, and Class Based Queuing to ensure that each application and voice call meets required bandwidth, priority and response time guarantees. The CAP is the first truly integrated platform to offer this advanced IP QoS with the price point and simplicity required for SMB and remote office sites.

WAN OPTIMIZATION: EFFICIENT, ASSURED

The CAP blends multiple traffic management technologies to assure application performance while optimizing bandwidth efficiency. Recent tests have shown that Converged Access QoS technology delivered toll-quality MOS scores for up to 50 concurrent VoIP calls over a T1 circuit—while achieving over 95% utilization of the link capacity. This efficiency makes the CAP ideal for companies that must optimize WAN cost while adding new, performance-sensitive applications like VoIP.

COMPREHENSIVE FIREWALL AND VPN SECURITY

The CAP's integrated, application-aware firewall offers stateful inspection, it is ICSA Labs level 4 compliant, and it is VoIP-aware. Embedded Application Layer Gateways (ALGs) for SIP, MGCP, and H.323 assist in call set-up and tear-down, allowing VoIP traffic to securely pass through the firewall. Security capabilities also include pre-defined strong security policies, comprehensive event logging and log file persistence after power failure or system reboot.

The integrated VPN gateway is VPNC conformant and fully interoperable with leading multi-vendor VPN solutions. The product supports a full range of PPTP, L2TP and IPSEC VPN encryption and authentication mechanisms. High performance is assured via the CAP's dedicated hardware encryption processor.

INTEGRATED WIRELESS ACCESS POINT

The CAP optionally includes an 802.11b/g wireless access point enabling mobile client access to the same application performance and security features available to wired network users. Advanced WLAN security features include RADIUS client, 802.1x, WEP and WPA. Additional mobile user security is provided via the CAP's integrated firewall and VPN services.

LEGACY VOICE AND FAX INTEGRATION

Ease of migration is enabled with support for legacy voice and fax connections within the same compact CAP platform. Four legacy analog phone and fax machine ports eliminate the cost and complexity of supporting an additional dedicated gateway. Capacity can be expanded to as many as sixteen analog ports via a simple, stackable architecture.

LOWEST TCO WITH EASE OF DEPLOYMENT AND OPERATION

Deployment is greatly simplified as a single CAP eliminates the need to install and maintain as many as five separate products. Automatic configuration simplifies large-scale deployments, with device configurations acquired from the network or downloaded to the CAP. The CAP is also easily integrated with an existing router network, providing the option to operate as a bridge with integrated traffic management, firewall, and VoIP gateway services. It additionally supports the most commonly used broadband access technologies to further simplify integration with an existing network.

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