converged **access**

INTELLIGENT APPLICATION PERFORMANCE CONTROL

APPLICATION PERFORMANCE:
OUT OF CONTROL

GROWING GAP BETWEEN APPLICATIONS AND THE NETWORK

Convergence promises lower costs and greater business efficiencies, but the path to convergence is not easy. Many enterprises have felt the pain in bringing multiple business critical applications onto the network. User complaints and IT support costs have risen dramatically as core applications (e.g., ERP, CRM, Citrix, etc.) have not performed. VoIP quality has continued to disappoint end users. Simply adding a new business application or combining VoIP and data have all too often compromised performance for all. These challenges will only grow worse as more performance sensitive multi-media, Web-enabled, collaborative and convergence technologies make their way into mainstream application deployments.

MORE BANDWIDTH DOES NOT SOLVE THE PROBLEM

Existing router-based solutions are insufficient. These alternatives trade performance for cost, with recommendations that force more bandwidth, extensive equipment upgrades or even separate VoIP and data networks. Meanwhile, there's no visibility and no power to identify and control applications at the user level.

BRIDGE THE APPLICATION PERFORMANCE CONTROL GAP

To ensure business applications perform consistently and as expected for each and every user, enterprises need an Intelligent Application Performance Control solution. This solution must:

- Identify and monitor all application traffic running on the network

- Control the performance of each end user/application session (not just IP address or Port ID)

- Accurately align the need for resources across many applications simultaneously

- Optimize the use of network resources

TAKE CONTROL OF YOUR NETWORK WITH CONVERGED ACCESS

INTELLIGENT APPLICATION PERFORMANCE CONTROL

Converged Access offers the only solution that can accurately guarantee the performance of all applications and still ensure 100% of the bandwidth is effectively used. The Converged Access solution adds a layer of intelligence enabling the network to become application-aware and ready to enforce performance policies based on the needs of each application. Armed with this intelligence, the solution then applies the necessary mix of IP WAN Services – which might include traffic management, compression, caching, flow management, security, etc. – to each application to yield the best possible performance from your network.

CONVERGED ACCESS SOLUTIONS

DELIVERING TOLL-QUALITY VOIP — Eliminate rising end user complaints and support costs with a network that delivers toll-quality performance for each VoIP call and manages the impact on other network applications.

BUSINESS APPLICATION PERFORMANCE GUARANTEES — Maximize performance of business applications like Citrix, ERP, and Point of Sale to assure customer response, improved employee productivity, and optimized WAN efficiency. This solution protects existing router network investments while enabling the migration to toll-quality VoIP when the enterprise is ready.

CONVERGED APPLICATION PERFORMANCE CONTROL — Reduce costs and add new business value as data, VoIP, and video applications perform as expected and emerging rich media, collaboration and Web services become part of the business application mainstream.

OPTIMIZING APPLICATION PERFORMANCE

The Converged Access solution matches business application needs with available network resources to guarantee application performance in the most cost-effective manner possible. Converged Access' patented Application Control Engine (ACE) assures highly-accurate and granular policy enforcement including:

- **APPLICATION-AWARE VISIBILITY AND CONTROL —** Enables active monitoring and reporting of more than 1400 pre-defined and "home grown" applications using the network.

- **DYNAMIC, SESSION-AWARE FLOW-BY-FLOW CONTROL —** Monitors and protects performance while simplifying management as a single application aware policy manages all flows (e.g., VoIP call data and call control) that are part of a session.

- **GUARANTEED DELIVERY OF BUSINESS-CRITICAL TRAFFIC FIRST —** Maximizes bandwidth utilization by prioritizing delivery of real-time and other mission-critical traffic while lower priority applications are contained to remaining available bandwidth.

- **ACCURATE POLICY-BASED ENFORCEMENT —** Assures real-time application performance while facilitating nearly 100% network utilization.

> Converged Access adds a layer of intelligence enabling the network to become application-aware and ready to enforce performance policies based on the needs of each application.

CONVERGED TRAFFIC MANAGER

The CTM brings application performance visibility and control to enterprise headquarters and branch locations as business critical data, VoIP and video applications converge onto the network.

- Automatic discovery, monitoring, reporting and control of 1400+ applications

- Precise and granular per session, per user performance guarantees

- WAN optimization with bandwidth utilization that can exceed 95%

- Integrated compression and caching to expand bandwidth, accelerate response times

- Investment protection through ease of integration with existing applications and networks

- Centralized Converged Policy Manager (CPM) configuration, management and reporting

CONVERGED ACCESS POINT

The CAP product line provides an "all-in-one" solution delivering the application control, security, simplicity and low TCO needed to serve SMB/SME and remote office locations. Features include:

- Precise (1Kbps) bandwidth and priority guarantees

- Support for up to 50 (T1) and 66 (E1) toll-quality VoIP calls (G.729)

- Over 95% WAN bandwidth utilization efficiency

- A business-class, SIP aware firewall that is ICSA 4.0 compliant

- SIP/H323/MGCP VoIP gateway protecting legacy VoIP investments

CONVERGED POLICY MANAGER

The CPM provides centralized CTM monitoring, control and enforcement, enabling a network wide view with:

- An intuitive policy manager interface

- Extensive network reporting

- Integrated compression policy management and reporting

- Simplified topology-based configuration management

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