

Enterasys Solutions for IP Video

Enable and Optimize Video over IP in a Converged Network

Deploying video communications over IP networks can greatly enhance an organization's collaboration options. Recent studies have shown that IP video will rapidly overtake traditional solutions on legacy networks. But ensuring that the enterprise IP network is ready for video is critical to realizing the full business benefit of unified communications. Network administrators must enable and optimize video in the converged network in order to ensure service quality and reliability. Enterasys recommends a simple yet highly effective integrated approach to enable, optimize and secure wired and wireless IP video communications.

Enterasys enables IP video solutions from any vendor, using a flexible combination of support for industry standards and unique policy templates. Enterprises worldwide have realized the benefits that IP video communication can bring to the business by ensuring the highest reliability, quality and security with Enterasys solutions. The Enterasys solution for IP video delivers an easy and effective way to optimize video communications through voice traffic prioritization. In addition the Enterasys network will sense and automatically respond to security threats against the video service, enforce network access control policies, and provide visibility to where all video endpoints are located at any given time. You can learn more about our open-architecture, standards-based approach to supporting any convergence application from any vendor by reading our [whitepaper](#).

The Enterasys Solution

Leveraging a unique, policy-based approach with granular traffic visibility, Enterasys delivers important capabilities required to enable and optimize IP video.

Initial Deployment

An Enterasys solution enables the deployment of IP video through standards-based technology and endpoint discovery. IP video requires a robust, highly-available network for on-demand service delivery. Enterasys products support standard technologies necessary to ensure full redundancy and communications resiliency (technologies such as 802.1w, 802.1s, 802.3ad, OSPF, VRRP). In addition, Enterasys embeds broadcast flooding protection and communication flow overrun protection in switches to ensure that dangerous network traffic patterns do not result in communication failures for critical video services. Discovery of video-specific endpoints is automatic in an Enterasys solution. Power over Ethernet (PoE) may be required to support video endpoint connectivity, and dynamic application-based authorization allows IP video to be automatically identified on the network. A single Enterasys S-Series switch can accommodate over 500 PoE ports with fault-tolerant power management to support video services to connected endpoints. Enterasys switches support Convergence Endpoint (CEP) detection and can identify an IP video camera the moment it connects to the network. Additionally, Enterasys switches identify and classify different application traffic allowing video communication to be detected anywhere in the network.

Solution Benefits

Business Alignment

- Enabling and supporting convergence of business critical applications including voice, video and data
- Guaranteed service quality for video communications with policy-enabled Enterasys switches

Operational Efficiency

- Reduce communication cost while improving business processes through simple yet effective network management for IP video
- Global IP video policy configuration with industry-leading Enterasys policy management

Security

- Complete security of the video services, endpoints, and traffic ensuring video service availability
- Video specific threat management with Enterasys intrusion detection, source location and dynamic mitigation

Support and Service

- Industry-leading customer satisfaction and first call resolution rates
- Personalized services

**There is nothing more important
than our customers.**

Optimization

An Enterasys solution optimizes IP video through an industry-leading policy framework. Simple, yet highly effective, management software allows centralized administration of network communication policies for video traffic. Quality of Service, traffic shaping, and bandwidth management policies can be established through the Enterasys NMS Policy Manager application and then distributed throughout the entire network infrastructure. Once IP video endpoints or IP video traffic is detected, the correct policy rules are enforced at the switch port in the network to fully optimize the video service.

Security

An Enterasys solution can restrict the type and amount of network traffic directed at specific video related servers. Also, policy rules can be enforced to ensure that critical services are not “spoofed” causing disruption or theft of critical communications. In addition to proactive security of video resources, events occurring on the network that can compromise the video service can be detected, and ultimately mitigated in order to preserve service continuity. Enterasys security applications detect specific threats against video communications by using a strong set of attack signatures. Once threats against video services are detected, automated management is used to locate the exact source of the event and take appropriate action to eliminate the threat.

Solution Capability	Enterasys Products
Deployment	<ul style="list-style-type: none">• Enterasys switches with high capacity, standards-based PoE capability• Enterasys switches, routers and wireless with device and device-to-device redundancy and resiliency features• Enterasys Network Management Suite (NMS) software with centralized visibility and control of video communication policies, security and endpoint location<ul style="list-style-type: none">– Console: Device and network resiliency configuration– Policy Manager: Establish IP Video service-level and security policies– NAC Manager: Endpoint location and compliance reporting– Automated Security Manager: Automation for threat mitigation– Inventory Manager: Capacity planning for CEP deployment
Optimization	<ul style="list-style-type: none">• Enterasys NMS Policy Manager software with simple administration of IP video service-level policies• Enterasys switches with embedded policy enforcement for QoS, traffic shaping, and bandwidth management of video communications
Security	<ul style="list-style-type: none">• Enterasys switches with policy enforcement for video security• Enterasys Intrusion Prevention System (IPS) with specific detection for threats to video services

Contact Us

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