

Visual IP Service Element:

- Testing appliance for IP networks
- Provides 24x7 verification for dedicated IP and site-to site IP VPN services
- Validates customer centric IP SLA's
- Extends the IP services demarc point to the customer premise
- Integral part of the Visual IP InSight Dedicated suite
- Provides extensive reporting capability through the Visual IP InSight back- end system
- Deploys easily within the service provider's core and at the customer premise

VISUAL
NETWORKS®

**Visual IP InSight – The complete performance management solution**

Visual IP InSight™ is the leading service management solution that provides performance visibility at the service boundary across all public IP services including dial, broadband (DSL, cable, fixed wireless) and dedicated (T-1, VPN etc). The Visual IP InSight system has a three-tier product architecture consisting of agents, a back-end system and a web-based interface. Agents come in two forms: A transport agnostic desktop agent (dial, DSL, VPN, etc) which collects information on the end user experience, and a dedicated agent, called a Visual IP Service Element (ISE), which resides on the LAN side of the customer router and manages site-to-site dedicated IP and IP VPN services. The Visual IP InSight back-end system collects, processes and reports on data from the agents. A web-based interface allows easy viewing and reporting of key IP performance information.

Visual ISE – additional point of demarcation

At the heart of the Visual IP InSight Dedicated Suite is the Visual ISE™ (IP Service Element), a dedicated hardware platform that can be deployed within the service provider's core and at the customer premise. The Visual ISE is a technology enabler for ISPs to deliver differentiated IP managed services (dedicated or VPN) to their customer base. It enables enterprise customers to extract cost savings from IP VPN migration by providing visibility into site-to-site dedicated IP and IP VPN services.

Visual ISE - monitoring critical IP Services

The Visual ISE performs active testing for IP services, including Web (HTTP), DNS, Mail (SMTP, POP3, IMAP4), Ping (ICMP), and News (NNTP) and takes performance measurements for those tests against key metrics such as availability, latency, throughput, packet loss, and time to download.

Specifications

Performs Active Tests

Web news
HTTP NNTP
E-mail Network
SMTP Ping

POP 3
IMAP 4

Domain Name Service
DNS

Interfaces and LEDs

2 external 10/100 MB Ethernet ports
Auto-sensing
Linksafe™ relay
Serial Port - DB-9 Male connector
LEDs: Power
Ethernet Transmit, Receive
IP Connectivity
Back-end Connectivity
Reset switch (recessed)

Physical specifications

(HxWxD)

1.75 in. by 9 in. by 6.25 in.

(4.5 cm by 23 cm by 15.9 cm)

Power: 12 volt DC

Adapter 120 or 240 VAC

Weight 1.15 lbs (0.522 kg)

Operating Temperature: 0 to 40 C

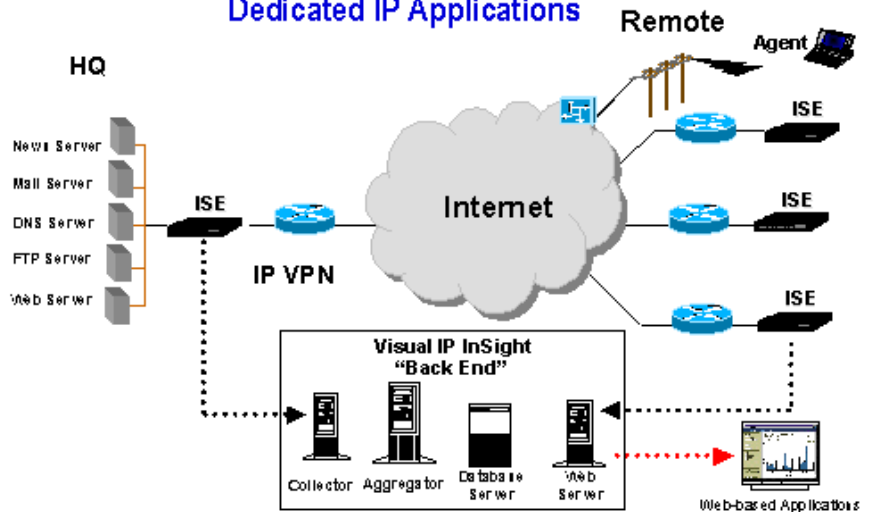
Management

Built-in web server for configuration and device management
Telnet, SSH access in-band or out-of-band

Certifications

U.S. FCC Class B Compliances
Canadian Class B Compliances
European CE Mark Compliances

Network Performance Testing Dedicated IP Applications



Ease of operation

The Visual ISE is easy to deploy, requiring only power and Ethernet connection when installed. The device is controlled by the Visual IP InSight Web-based backend system, which presents a single point of access and reporting from any combination of Visual ISEs or Visual IP InSight desktop agents. Data is segregated on the server, allowing service providers to provide reports to individual enterprises, or enterprises to track network performance by site. Customer-specific thresholds can be easily set to provide custom SLAs.

The Visual ISE has a Linksafe™ relay that keeps Ethernet traffic flowing if there is a loss of power or a software failure. The Agent software on the Visual ISE can be upgraded and managed remotely via a Web interface. An RS232 serial port on the rear panel allows the unit to be communicated via a secure command line interface.

Scalability

Visual IP InSight is architected to scale from small/medium enterprises to large service provider environments without bottlenecks or loss of data. The Visual ISE uploads data to the Visual IP InSight back-end system providing web-based reports for easy viewing of key customer data. The deployment of Visual ISEs in conjunction with Visual's IP InSight back-end system enables customers to manage site-to-site performance of IP VPN and dedicated IP services, and to verify IP SLAs across and beyond the service provider backbone.