Data Sheet

NetVanta

6410

Large Enterprise Session Border Control Appliance

Benefits

- **Dedicated appliance for superior performance**
- **Provides a demarcation point for service providers**
- **Supports up to 1,000 simultaneous SIP sessions**
- **Simplifies and expedites SIP service deployment**
- **Enhanced SIP traffic control**
- **Topology hiding**
- **Remote phone support**
- **Troubleshooting and evaluation tools**
- **Inherent URL filtering**
- **Stateful inspection firewall for network security**
- **Intelligent network failover for disaster recovery**
- **Voice Quality Monitoring (VQM) for easy fault identification**

Overview

ADTRAN's NetVanta 6410 Session Border Controller (SBC) is designed to provide superior VoIP interoperability to both service providers and enterprises as the shift to IP communications progresses. As more service providers deliver IP services to the enterprise edge more and more businesses are adopting IP technologies for the premises. The session border control functionality is designed to provide the SIP interoperability demanded for various IP services such as hosted VoIP and native SIP trunking.

Designed to ease the need for extensive interoperability testing, ADTRAN's NetVanta 6410 functionality provides the tools necessary to normalise, secure and troubleshoot the SIP to SIP communication between a carrier network and the customers SIP compliant equipment.

SIP Header Manipulation Rules (HMR)

The NetVanta 6410 supports a flexible and powerful tool known as SIP Header Manipulation Rules. This feature allows the manipulation of both SIP headers and message bodies in SIP transmissions, based on configurable rules. These rules can be applied to both outbound and inbound messages, and can be used to match SIP headers, modify existing SIP headers or the body of SIP messages, add SIP headers, remove SIP headers, and store variable information. SIP header and message manipulation from ADTRAN solves interoperability issues present in disparate networks.

Media Anchoring

The Media Anchoring function ensures that RTP traffic flows from a trusted network element, prevents media routing confusion and hides the topology of the enterprise VoIP network. This increases security for both the enterprise and the SIP trunk service provider while ensuring high quality, trouble free media.

Packet Capture (pcap)

The NetVanta 6410 also stores packet capture information in RAM memory on the gateway device allowing for user defined routing of the information for troubleshooting and evaluation purposes. In addition, ADTRAN's nCommand MSP can be used to collect pcap information as well as display a SIP ladder diagram.

Resilient Call Routing/Processing

Another benefit when using ADTRAN's Session Border Controller is increased customer uptime in the case of a network outage or down time. The feature pack allows for call routing to still take place within the premises as well as routing to the PSTN.

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Voice Quality Monitoring

The ability to implement and manage voice Quality of Service (QoS) is becoming a critical part of successful operations. QoS-enabled network devices can provide better performance and higher service levels for delay-sensitive Voice over IP (VoIP) or other mission-critical applications, as well as accommodating the lower priority traffic on the same infrastructure.

ADTRAN VQM builds on QoS to provide a sophisticated level of network performance visibility. ADTRAN VQM examines VoIP data streams for each voice call, records the voice quality information, and enables network managers to identify problem areas in an easy-to-use, graphical interface.

Security

ADTRAN's SBC functionality provides a powerful, high performance stateful inspection firewall that can identify and protect voice networks against common Denial of Service (DoS) attacks like TCP syn flooding, IP spoofing, ICMP redirect, ping of death, and IP reassembly problems. AOS is capable of providing an inherent URL-filtering package without the use of an external server.

URL filtering is another level of security that allows system administrators to restrict Internet access by permitting or denying specific URLs. This URLfiltering feature also includes the ability to produce top website reports of the most frequently requested websites, allowing system administrators to modify the URL philtre lists.

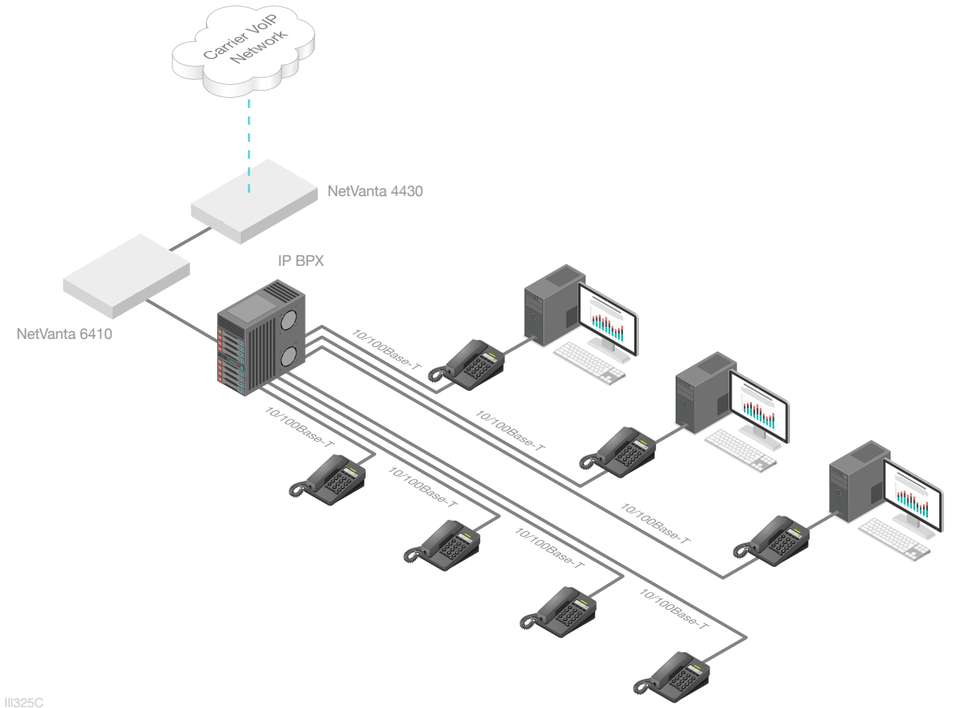
AOS also supports IPSec VPN tunnels and encryption algorithms like DES, 3DES, and AES. In addition, ADTRAN supports security of the SIP signalling as well as the media stream by supporting TLS and sRTP.

Why Session Border Control?

Session border controllers, or SBCs, enable the delivery of secure and high quality interactive communications across multiple IP networks.

For service providers, these include the separate IP networks that comprise fixed line, mobile and cable networks. SBCs are deployed at the borders between IP networks, such as between two service providers or between a service provider and its enterprise, residential or mobile customers.

For enterprises, SBCs are used to interconnect communications "islands" that exist within the enterprise, connect the enterprise to a wide-area service designed for interactive communications (e.g. SIP trunk), or enable "federations" between multiple enterprises for B2B communications. Enterprise SBCs (or E-SBCs) also enable selected remote locations or mobile workers to securely access enterprise interactive communications services via the Internet.



Ordering Information

Equipment	Part No.
NetVanta 6410 Chassis	17006410F1

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