

# Session Border Controller

## Providing Superior VoIP Interoperability and Security

### Product Features

- ADTRAN's Session Border Controller Feature Pack is available on multiple industry leading hardware platforms:
  - NetVanta® 3430
  - NetVanta 4430
  - NetVanta 6240
  - NetVanta 6300 Series
  - Total Access® 900e Series
- Options that support 50, 100, and 300 simultaneous SIP sessions
- Provides a demarcation point for service providers
- Converged multi-service device reduces total cost of ownership
- Simplifies and expedites SIP service deployment
- Creates a migration path to various services
- Enhances SIP traffic control
- Topology hiding
- Remote phone support
- Troubleshooting and evaluation tools
- Inherent URL filtering
- Stateful inspection firewall for network security
- Supports transcoding
- Dual Tone Multi-Frequency (DTMF) interworking
- Intelligent network failover for disaster recovery

**ADTRAN's Session Border Controller (SBC) Feature Pack is designed to provide superior Voice over IP (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. ADTRAN® is providing a migration path to various services, from business trunking, hosted VoIP, and onto native SIP trunking.

Designed to ease the need for extensive interoperability testing, ADTRAN's Session Border Controller Feature Pack provides the tools necessary to normalize, secure and troubleshoot the SIP to SIP communication between a carrier network and the customers SIP compliant equipment.

#### **SIP Header Manipulation Rules (HMR)**

As a result of the SBC Feature Pack, AOS now 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.

The SBC feature pack also supports transcoding, which converts a specific CODEC on the WAN side to another on the customer premises. DTMF inband to out-of-band (RFC2833) interworking is also included.

#### **Packet Capture (pcap)**

The SBC Feature Pack 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 the SBC Feature Pack 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.

#### **Voice Quality Monitoring (VQM)**

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 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.



Smart Solutions for a  
Connected World.



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### Security

ADTRAN's SBC Feature Pack 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 URL-filtering feature also includes the ability to produce top website reports of the most frequently requested websites, allowing system administrators to modify the URL filter lists.

AOS also supports IPsec VPN tunnels and encryption algorithms like DES, 3DES, and AES.

### Why Session Border Controller?

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

ADTRAN's Session Border Controller Feature Pack is designed to provide the SIP interoperability demanded at the premises creating a service provider migration path to various services, from business trunking and hosted VoIP onto native SIP trunking. IP networks, such as between two service providers or between a service provider and its enterprise, residential or mobile customers.

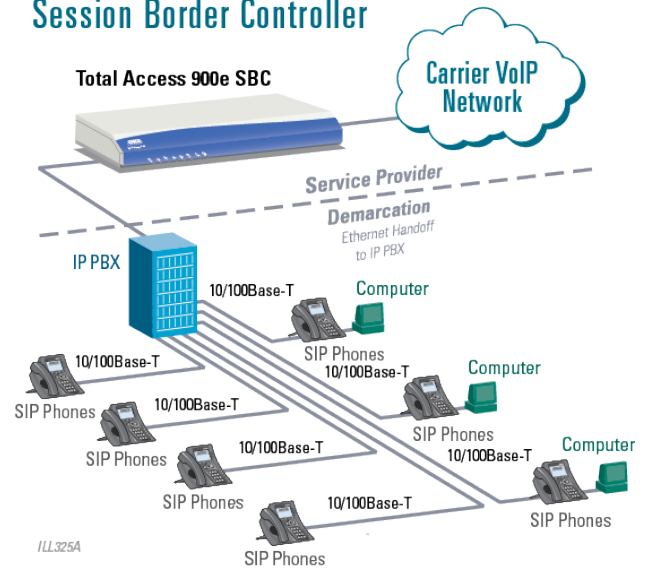
For enterprises, SBCs are used to interconnect communications "islands" that exist within the enterprise, connect the enterprise to a wide-area service designed for interactive communications (e.g. SIP trunk), or enable "federations" between multiple enterprises for B2B communications. Enterprise SBCs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

### Ordering Information

The SBC Feature Pack is available both as an option on new hardware, or as a software upgrade on existing hardware.

Hardware Options	Part #
<b>Supports 50 Simultaneous Calls</b>	
NetVanta 3430 with SBC Feature Pack	4200820G3SBC
NetVanta 6310 with SBC Feature Pack	4700100G1SBC
<b>Total Access 900e</b>	
with SBC Feature Pack	4242908L1SBC
Total Access 900e, Single DSP with SBC Feature Pack	4242908L5SBC
<b>Supports 100 Simultaneous Calls</b>	
NetVanta 3430 with SBC Feature Pack	4200820G4SBC
<b>Supports 300 Simultaneous Calls</b>	
NetVanta 4430 with SBC Feature Pack	4700630G3SBC
<b>Software Upgrade Options</b>	
<b>Supports 50 Simultaneous Calls</b>	
Total Access 900e SBC Feature Pack Upgrade	1950900G3
NetVanta 6240 SBC Feature Pack Upgrade	19506240G3
NetVanta 6310/6330 SBC Feature Pack Upgrade	19506310G3
NetVanta 6355 SBC Feature Pack Upgrade	19506355G3

### Session Border Controller



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ADTRAN is an ISO 9001, ISO 14001, and a TL 9000 certified supplier.

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