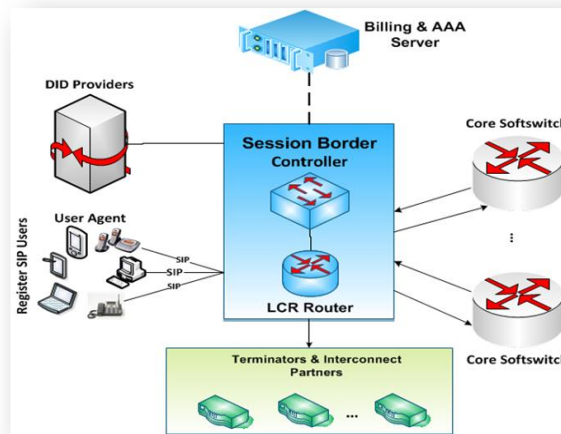


AdvOSS is an emerging Canadian vendor of technologically advanced solutions that enable any Service Provider to realize all of its needs in aspects of service delivery, management and charging in a fully integrated way. Tens of Tier-1 and Tier-2 Service Providers worldwide depend on AdvOSS for their critical business needs.



## IMPORTANT BUSINESS USE-CASES:

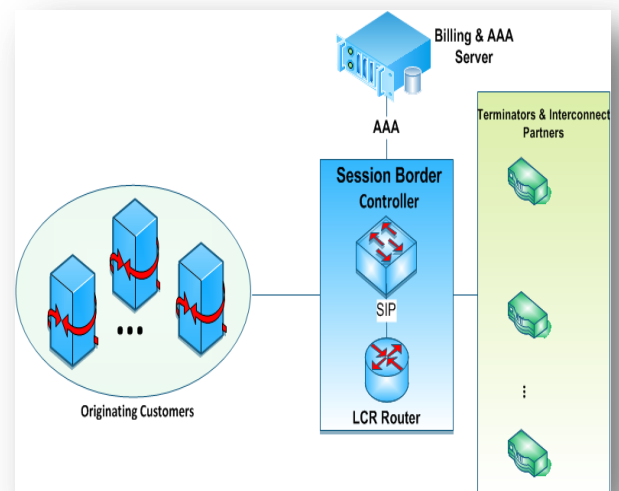
- Terminator Network Management
- Enabling real time / prepaid services
- Connection to LCR
- NAT Traversal
- Media Transcoding
- Simultaneous Ringing
- Topology Hiding
- Real-Time monitoring
- Multiple Application Servers Support
- Multiple Services Support
- Secure Communication
- Congestion Control
- DOS / DDOS Prevention
- Terminator Capacity Control
- Terminator Failover
- Classes of Service
- Outgoing Toll Bypass
- Incoming Toll Bypass
- E911 Support

## ADV OSS SBC OVERVIEW:

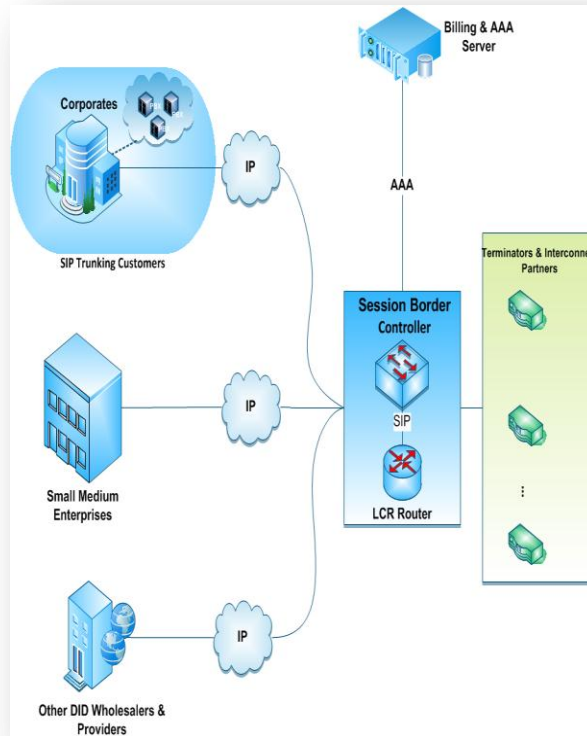
**AdvOSS SBC** is an advanced, comprehensive Policy enforcement point, Session Management and Service Orchestration engine deployed as a network border element for both Enterprise and Service Provider markets. It combines the power of a Session Border Controller with a modern Service Delivery Platform to realize several business-critical use cases and provide a centralized customization, integration and mediation base for its deployment environment.

SBC allows control and manipulation of signaling and media packets for secure IP based multimedia communication. It acts as a SIP B2BUA (Back to Back User Agent) and can be deployed at both the Access and Peering or Interconnection side of the Service Provider network.

It can be deployed in any IP based multimedia network and integrates with existing Class 4 & Class 5 Soft-Switches, Media Gateways, and Application Servers etc. over SIP protocol.



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#### KEY BENEFITS HIGHLIGHTS:

- Intelligent Session Control, Policy Enforcement and Service Orchestration Engine
- Combines the power of Service Orchestration with state of the art Session Border Control
- Enables advanced, fine-grained Policy Enforcement at both Access and Peering sides of the network
- Valuable for both Enterprises, Small to Medium Service Providers and large Telecom Operators in both fixed and mobile domains
- Acts as a network border element for:
  - CDR aggregation
  - AAA aggregation
  - Inter-domain Routing aggregation
  - Per session data collection and Reporting
  - Billing and settlement integration point
  - Session Routing to Application Servers
  - SCIM (Service Control and Interaction Manager)

Enables extension and enhancement of pre-deployed SIP Applications in terms of capabilities and features

# APPLIANCES

Performance	Mid-Tower	Rack	Blade
			
			<b>Per Blade Numbers</b>
<b>Maximum Calls Per Second</b>			
Singnalling Only	50	200	200
Signalling + Media without Transcoding	30	100	100
Signalling + Media with Transcoding	15	50	50
<b>Maximum concurrent Calls</b>			
Singnalling Only	4,000	25,000	25,000
Signalling + Media without Transcoding	2,000	10,000	10,000
Signalling + Media with Transcoding	250	1,000	1,000
<b>Hardware Specifications</b>			
Processor	Intel i3 64 bit	Intel Xeon 5600 64 bit	Intel Xeon 5600 64 bit
Number of Processors	1 Dual Core	2 Quad Core (Total 8 Cores)	2 Quad-Core (Total 8 Cores)
Memory	8 GB	16GB	16 GB
Network Interface Card	2 x Gigabit Ethernet	2 x Gigabit Ethernet	2 x Gigabit Ethernet
Hard Disk	1TB SATA Hard Drive	1TB x 2 How-swap SATA	1TB x 2 Hot-swap SAS/SATA
		HDDs in RAID 1	HDDs in RAID 1
DVD/RW Drive	Optical DVD/RW Drive	Optical DVD/RW Drive	

Power Supply	300W High-efficiency	520W Power Supply	
Dimensions	Form Factor: Mid-Tower	Form Factor: 1U Rack Mount	Enclosure Form Factor: 7U
	Height 14.25"	Height: 1.7"	12.1" x 18.5" x 29"
	Width 7.25"	Width: 16.8"	
	Depth 16.75"	Depth: 22.6"	

## SALIENT FEATURES

Feature	Enterprise	Carrier
Topology hiding	✓	✓
SIP Back-Back User Agent (B2BUA)	✓	✓
NAT traversal	✓	✓
SIP Registrar with location database	✓	✓
Registration events notification (Registrar event package)	✓	✓
Intelligent Proxy for SIP Registrations and other Non-INVITE based session creating packets	✓	✓
Policy enforcement on both Access and Peering	✓	✓
Service Selection	✓	✓
Authentication	✓	✓
Media Authorization	✓	✓

Concurrency Authorization	✓	✓
Peering partner capacity checking	✓	✓
Bandwidth Authorization and admission control	✓	✓
Source IP based Ingress Rate limiting and DOS protection	✓	✓
On-line and Real-time Accounting	✓	✓
Service and feature level CDR generation	✓	✓
CDR aggregation for the entire core network	✓	✓
Credit Authorization		✓
SLA enforcement		✓
Multi-tenancy support		✓
Lawful Intercept		✓
SIP Header Manipulation and Interoperability assurance	✓	✓
Load balancing across multiple core servers	✓	✓
Access Control List	✓	✓
Dynamic IP Blacklisting	✓	✓
TLS (signaling encryption and tunneling)	✓	✓
SRTP (Media encryption)	✓	✓

RTP inactivity detection	✓	✓
Video Calls support	✓	✓
Media Relaying	✓	✓
Media Trans-coding	✓	✓
Media Prioritization and Filtering	✓	✓
Deep packet inspection	✓	✓
Event logging and Monitoring	✓	✓
Least Cost Routing with 0% revenue loss	✓	✓
QoS Routing	✓	✓
Priority based static Routing (Overriding LCR)	✓	✓
Global Route Plan	✓	✓
Route failover to secondary routes on unavailability	✓	✓
ENUM (toll bypass)	✓	✓
External Routing Server query on SIP (302 Redirect) or native API	✓	✓
PSTN Interconnect Partner Management	✓	✓
PSTN Interconnect partner capacity enforcement	✓	✓
PSTN interconnect partner Media codec filtering and adaptation	✓	✓

Number Translations and permissive local (7 digit) dialing	✓	✓
Packet loss, delay, ACD and ASR reporting	✓	✓
Emergency Call handling	✓	✓
Call Recording	✓	✓
Distributed signaling and media handling with separate scalability for signaling and media	✓	✓
Service Orchestration and Mediation	✓	✓
Pre-Bundled SIP Applications Pack		
Whole-sale Business to Business SIP Interconnect Application with Billing and Settlement		✓
SIP Trunking with complete DID management		✓
Add-On SIP Application Packs		
Residential VOIP Pack		✓
Enterprise Applications Pack	✓	✓
Fixed Mobile Convergence	✓	✓
Order & Subscriber Management		✓
Provisioning Engine		✓
Quota Manager		✓
PCRF		✓

Subscriber Self-Care Portal	✓	✓
Enterprise Self-Care Portal	✓	✓