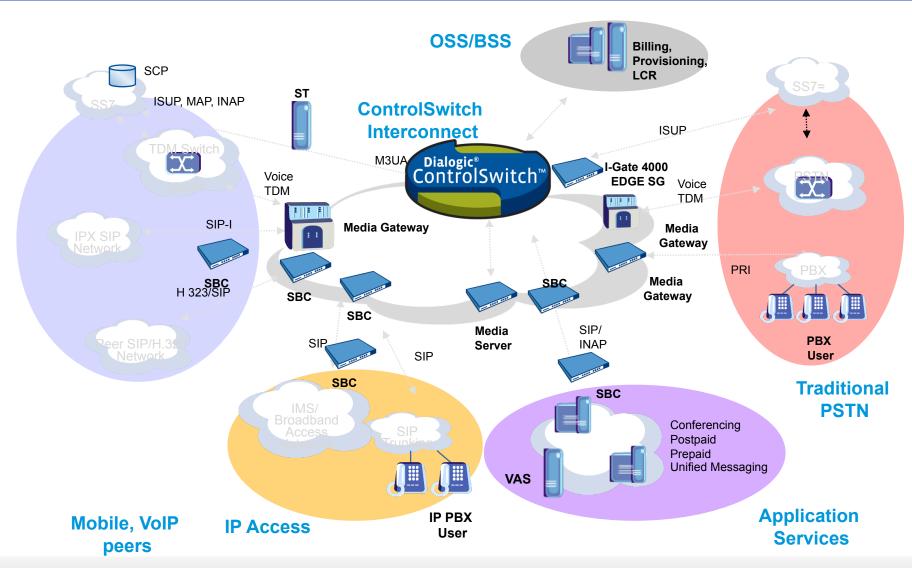
Dialogic. Mobile Experience Matters



13 Forum

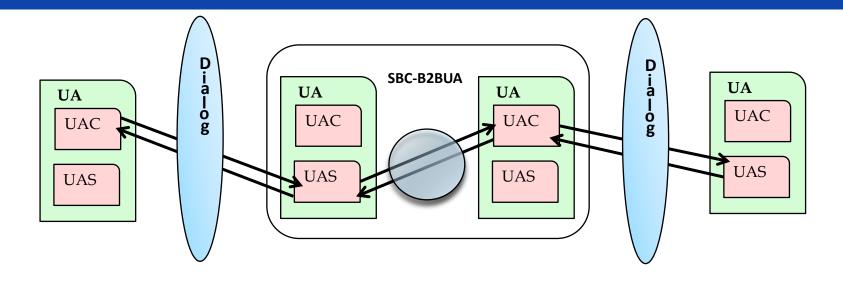
Simha Sadasiva Senior Director of Engineering

Dialogic Interconnection Solution





Session Border Controllers

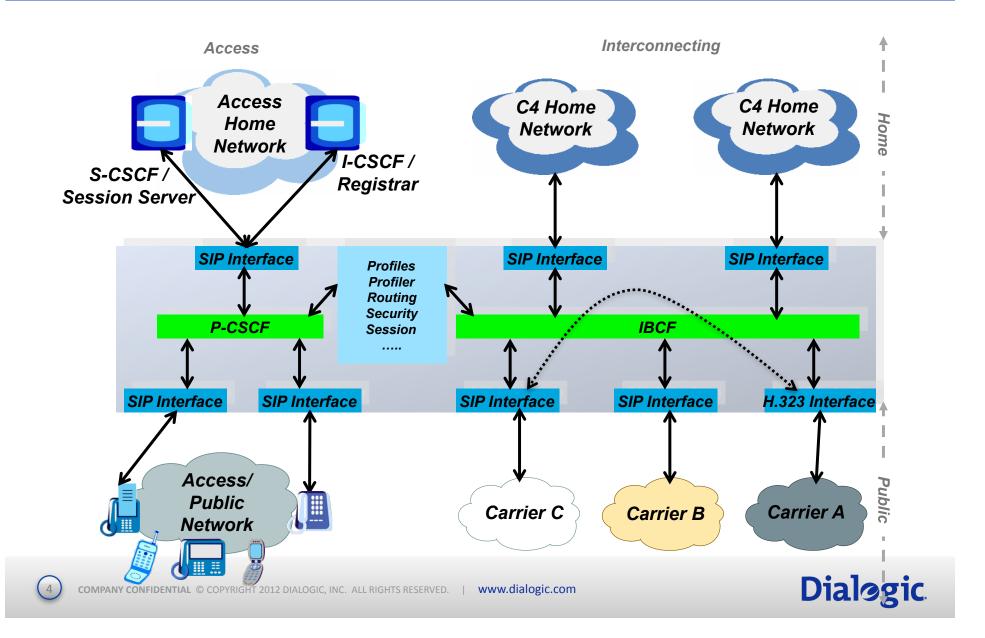


SBC Functions:

- Security
- ► Interworking (H.323, IWF, SIP-I, SIP)
- ► Inter-Operability (multi-vendor support)
- ► IP-IP Switch
 - Policy Engine
 - Routing
 - Billing



Session Border Controllers – Connecting Core & Peers



Security Goals

Security Goals

▶ Protect VoIP elements and infrastructure

- ► Ensure quality service availability
- ▶ Prevent theft of bandwidth & service
- ▶ Provide authentication, integrity and confidentiality
- ▶ Fraud detection, Lawful Interception, spam, etc.

Security Threats

Denial of Service

- ▶ Flooding with packets or messages to cause resource exhaustion
- Malicious packets or messages to cause crashes
- Session teardown, session black holing

Theft

- Service theft
- ► Bandwidth theft
- Business information (network topology)

• Eavesdropping

- Unauthorized traffic capture
- Session hijacking, alteration

OoS abuse

- Misusing/over using bandwidth
- QoS degradation

Others

- Billing Fraud
- Unauthorized access
- impersonation

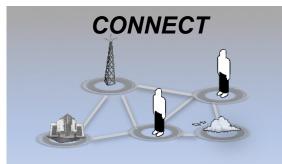




Dialogic[®] BorderNet[™] Session Border Controllers



Solves real world challenges in transforming networks to all-IP and delivering multimedia services



Connects wired and wireless service provider and enterprise networks cost effectively and without compromising on QoS



level of user experience

Business Services Peering Access BorderNet 3000 SBC BorderNet 500 ESBC BorderNet 2020 IMG BorderNet 4000 SBC

Highest Performance SBC in 1 RU



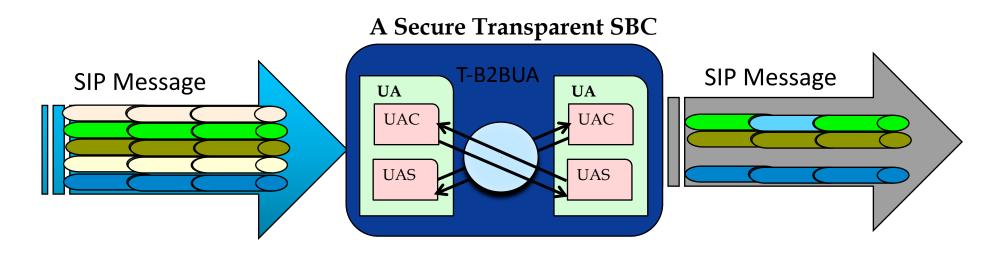
- Purpose Built SBC with the best of breed architecture
- One platform scales up (32Ks) and down (250s) @ 600 CAPS
- Rapid Deployment and Management through friendly Web UI
- Wireshark based integrated Tracing
- Flexible & GUI driven Header manipulation Profiler
- Patent Pending & Unique Secure Transparency



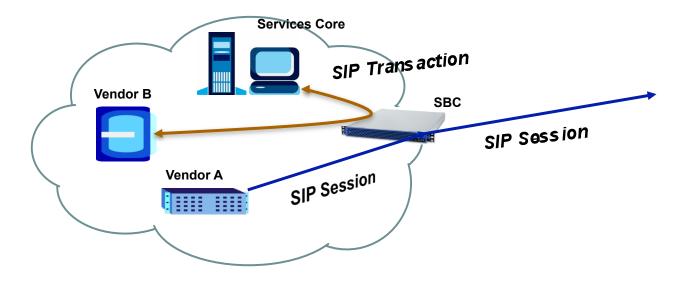
Secure Transparency

A forward looking view:

- know the entire SIP message and its characteristics
- ► Trust Levels of the peers
- Operators' policies for deciding transparency
- ► Hide SIP protocol nuances from Operators
- ► SIP message Requests & Responses securely transparent



Beyond Border Functions



- SIP Session via SBC between a Core and Peer Entity
- Transaction Services do not require SBCs but message transformations are satisfied by the SBCs' Interworking/Protocol Fixing logic
 - ▶ Here the SBC is not a border function but a point of normalization and content manipulation



Miercom Performance Verified Award







"The Dialogic BorderNet 4000 SBC delivered *impressive performance* and proved impervious to attempts to compromise its performance with attack traffic."

