28 April 2011

Thanks for joining!
Today's program will
begin promptly at 11 AM EST.

Things to Consider When Migrating to SIP Trunking

Note: The audio portion of today's webinar Requires a Windows-based PC with audio capabilities and either speakers or a headset.



## **Today's Speakers**



**Dani Kiryati**Marketing Manager
AudioCodes



**Diane Myers**Directing Analyst, VoIP & IMS
Infonetics Research

Note: The audio portion of today's webinar Requires a Windows-based PC with audio capabilities and either speakers or a headset.



## **Agenda**

- SIP Trunking and E-SBC market trends
- SIP Trunking deployment considerations
- Roles and features of E-SBC
- Case studies

# Migrating to SIP Trunking

Market Background and Trends



## INFONETICS RESEARCH, INC.

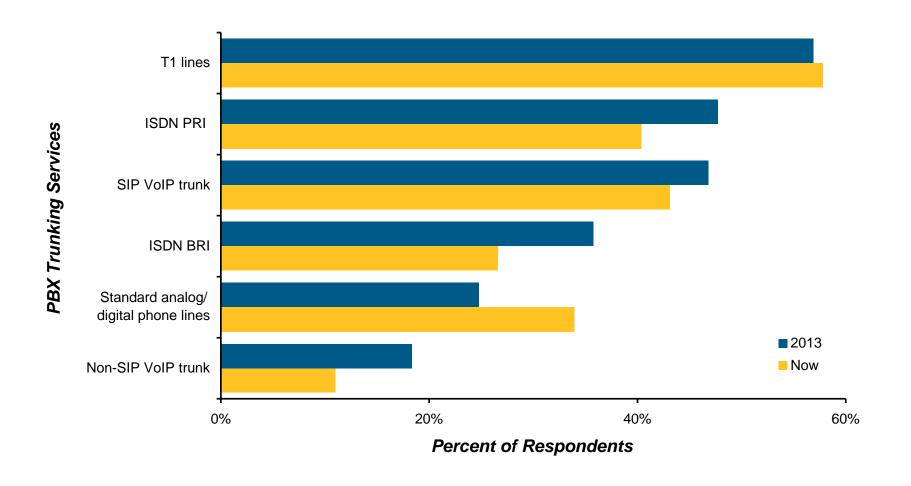


# Introduction by

Diane Myers
Directing Analyst, VoIP and IMS
Infonetics Research

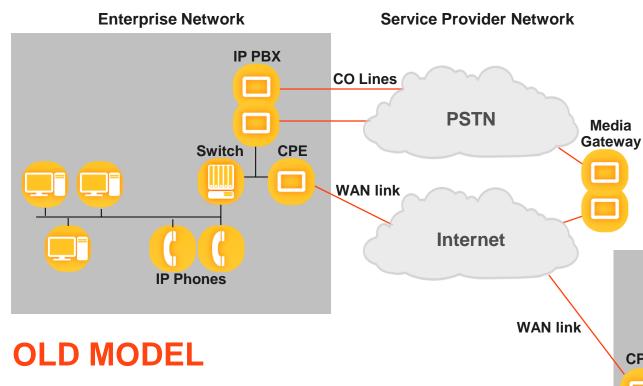


# How are businesses connecting voice today?



Source: Infonetics Research, SIP Trunking Deployment Strategies: North American Enterprise Survey, April 2011

# SIP trunking: next generation connectivity



#### **NEW MODEL**

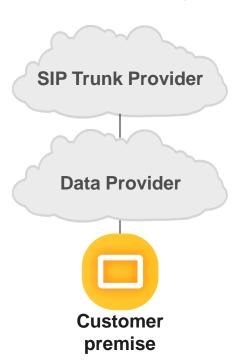
- SIP supported by most service providers and equipment vendors
- SIP trunk: logical voice circuit
- Broadband connections, data networks

- Dedicated voice circuits/trunk lines (T1s, PRIs)
- High reliability, port-based

## How SIP trunks are delivered

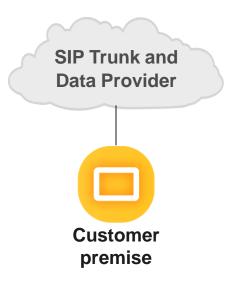
#### Over-the-top

- Separate SIP trunk and data providers
- "Bring your own bandwidth"
- Shop around for the best offering
- SIP traffic is at the mercy of data provider

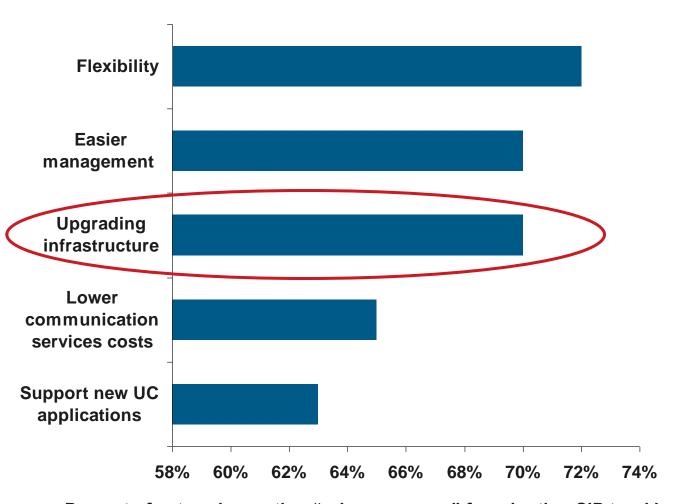


#### **Bundled offering**

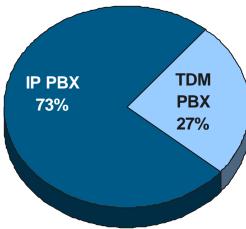
- Single provider for SIP trunk and physical network connectivity
- Option for end-to-end QoS for SIP traffic
- Clear demarcation of SIP trunk at CPE



# Why SIP trunking now?







Source: Infonetics Research, *Unified*Communication, VoIP, and TDM
Equipment, February 2011

Percent of enterprises rating "primary reason" for adopting SIP trunking

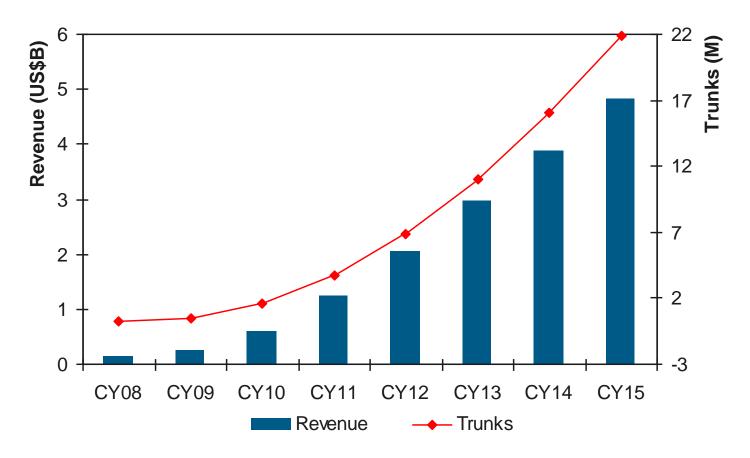
ACCURATE, OBJECTIVE, PROVEN

Source: Infonetics Research, SIP Trunking Deployment Strategies: North American Enterprise Survey, April 2011

# How SIP trunking achieves cost savings

- Centralization
  - Centralizing services at a few POPs gives economies of scale
- Consolidation
  - SIP trunks utilize the data network
  - Fewer physical ports needed
  - Centralized architectures require fewer devices
- Simplification
  - Capacity management: size the enterprise, not each site
- Right-sizing
  - With TDM trunking, circuits maybe be under-utilized most of the time
  - SIP trunking offers bursting, going over your allotted circuits during peak periods

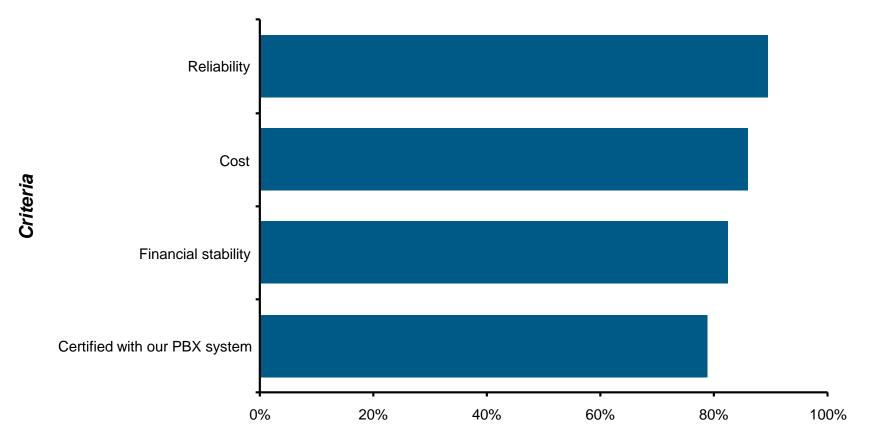
# SIP trunking expansion



- North America strong but early stages on worldwide basis: 62% of trunks in service
  - Broad set of available providers

Source: Infonetics Research, VoIP and UC Services and Subscribers, March 2011

# Top criteria in choosing SIP trunking provider



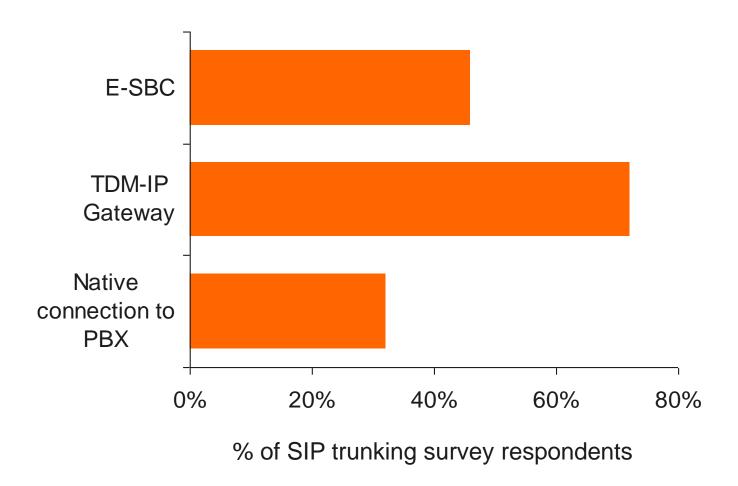
Percent of respondents rating criteria "critical" when choosing a SIP trunking provider

Source: Infonetics Research, SIP Trunking Deployment Strategies: North American Enterprise Survey, April 2011

ACCURATE, OBJECTIVE, PROVEN



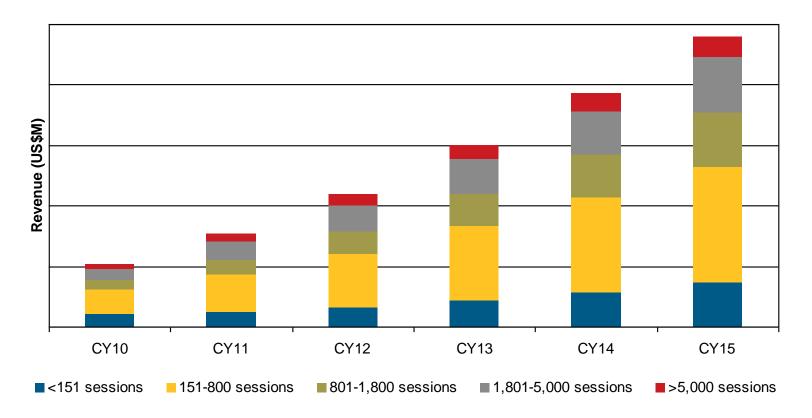
# Connecting to SIP trunks



Source: Infonetics Research, SIP Trunking Deployment Strategies: North American Enterprise Survey, April 2011

OBJECTIVE.

# SBCs address SIP trunking networking issues



- NAT (network address translation)
- Firewall traversal

- Interworking
- Transcoding

Source: Infonetics Research, Enterprise SBCs, April 2011



# THANK YOU

## **Diane Myers**

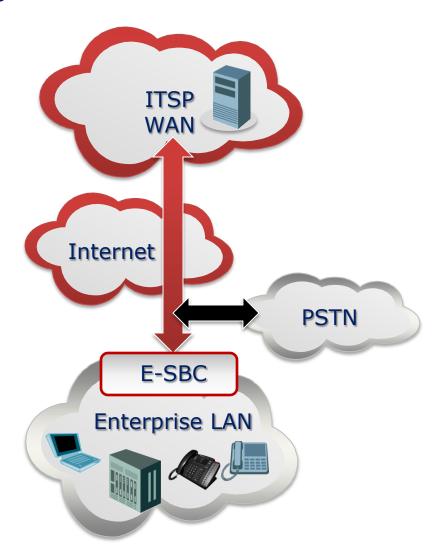
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# **Things to Consider When** Migrating to SIP Trunking **Dani Kiryati** Marketing Manager AudioCodes

**AudioCodes** 

### **E-SBC – Critical Part of SIP Trunking**

- Essential component of businesses migration to SIP Trunking services
  - Connecting TDM/IP PBX to SIP Trunks
  - IP-to-IP interoperability
  - Least cost routing to multiple service providers
- The E-SBC provides the enterprise
  - PSTN Connectivity
  - Interoperability
  - Survivability
  - Security
  - Quality assurance

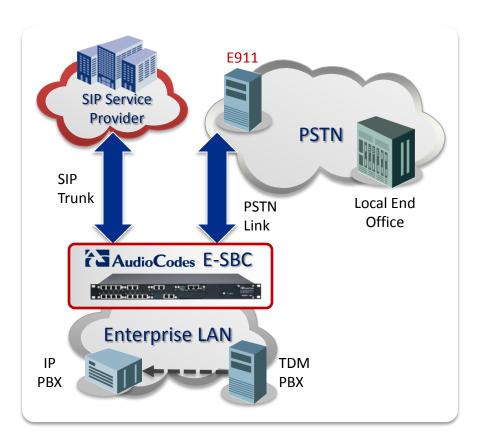




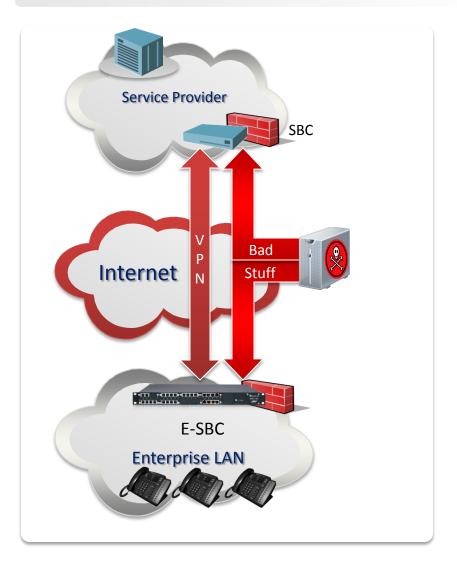
#### **PSTN Connectivity**

Can your Enterprise SBC deal with both SIP Trunks and PSTN connections?

- WAN isolation and PSTN fallback
- TDM to VoIP evolution
- Legacy PBXs
- Local End Office
- Emergency calling



## **Security**





Call Admission Control (CAC)
Encryption & Authentication
Topology hiding
Traffic separation
Protection against threats



### Interoperability





SIP interworking and normalization
Signaling plane mediation
Media plane mediation
Transcoding



#### Interoperability – Tested, Certified, Field Proven

# Successful migration to SIP Trunking is facilitated by E-SBC interoperability with leading players

UC, IP-PBX & Contact Centers











SoftSwitch & Application Servers











SIP Trunking Service Providers













## Scalability & Modularity – AudioCodes E-SBC Line





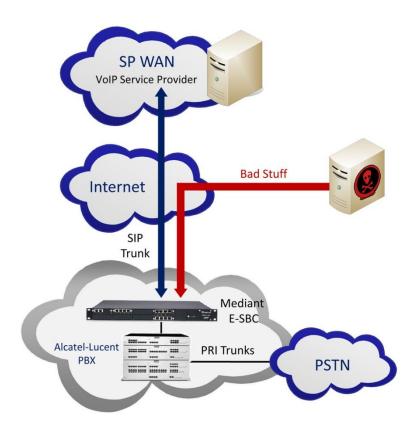


#### **Alcatel-Lucent**

Alcatel-Lucent and AudioCodes Collaborate on Session Border Controllers for Mid-Sized Enterprises



AudioCodes Mediant family of E-SBC is part of the Alcatel-Lucent Application Partner Program



#### **Microsoft**

AudioCodes Mediant E-SBCs are supported for <u>SIP</u>

<u>Trunking connectivity into Microsoft Lync Server 2010</u>

and Office Communications Server 2007 R2



#### AudioCodes Achieves Microsoft Qualification for SIP Trunking Interoperability with Verizon Business

AudioCodes' Mediant 3000 and Mediant 1000 Enterprise Session Border Controllers are the first products in the market to be certified with Microsoft Lync Server 2010 and Microsoft Office Communications Server 2007 R2 for secured SIP Trunking connectivity into Verizon Business



#### AudioCodes Announces General Availability of PSTN Connectivity and Survivability Solutions for Microsoft Lync

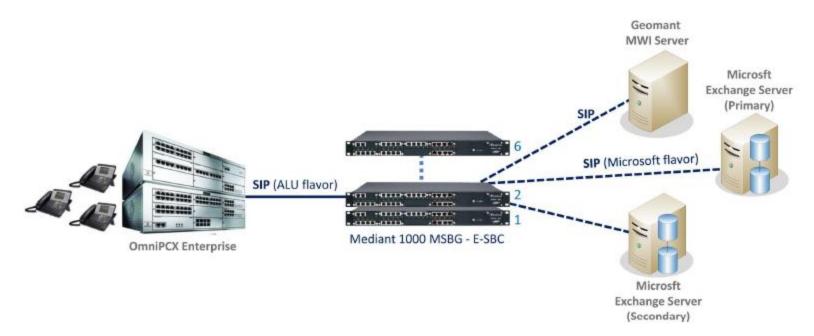
Leveraging the new AudioCodes Enhanced Gateways and Survivable Branch Appliances, Enterprise customers are able to transparently and securely connect the Microsoft Corp. environment with their existing telephony infrastructure and preferred service providers.





### **Case Study – Integrating OmniPCX and Microsoft Exchange**

- Large financial institution in France
- Back-to-back user agent providing SIP mediation
- Handling 720 IP-to-IP sessions
- Message Waiting Indications (MWI)

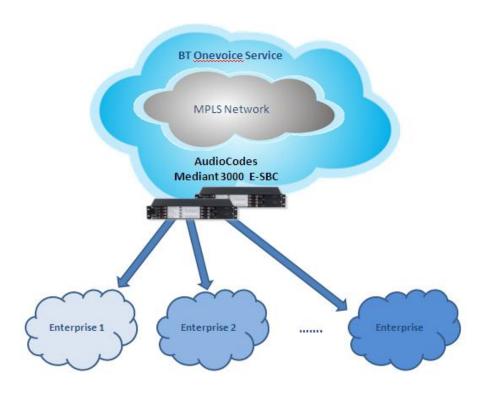




#### **Case Study - BT Global Services**



- Solution for Onevoice SIP Trunking Service
  - BT Onevoice service is using AudioCodes' Mediant 3000 E-SBC
  - Providing SIP "normalization" capabilities
  - Supporting an extensive list of narrowband and wide-band codecs



#### Mark Summerson, General Manager, Unified Communications at BT Global Services

"We have qualified AudioCodes as our preferred Gateway vendor as they allow us to offer a solid migration path for our business customers from their existing telephony systems to Microsoft Office Communications Server 2007 R2 and Lync Server 2010."





### **Avaya**



**AND** 





## certified for SIP Trunk connectivity with

Avaya Aura™ Communication Manager

Avaya Aura™ Session Manager

Avaya IP Office

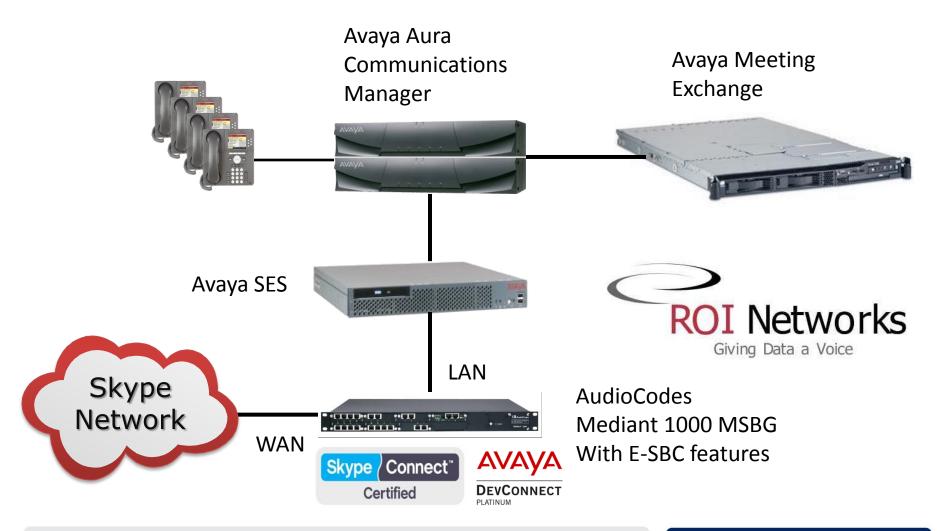




First E-SBCs to pass the Avaya DevConnect certification without demerits



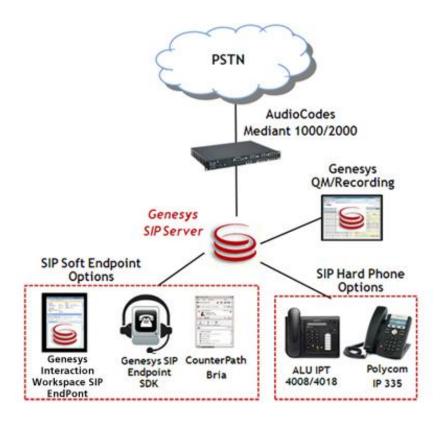
## Case Study – Skype, Avaya and ROI Networks





#### **Genesys**

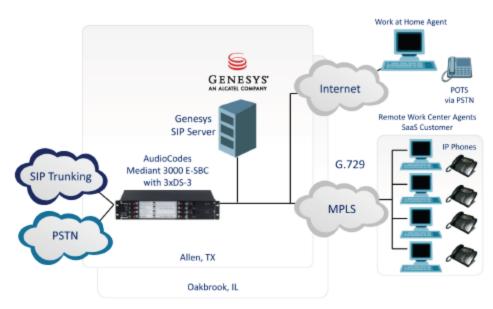
- Mediant Gateways are the only gateways participating in the Genesys SIP Select program
  - PSTN Trunking support for Genesys SIP Server
  - Upgradable to support SIP Trunking E-SBC applications



## **Case Study – Working Solutions**

- Hosted Contact Center Service Provider
- Migration from TDM to SIP Trunking
- Work-from-Home agents only
- Transcoding
- Results:
  - Investment protection
  - Reduced costs
  - Improved flexibility

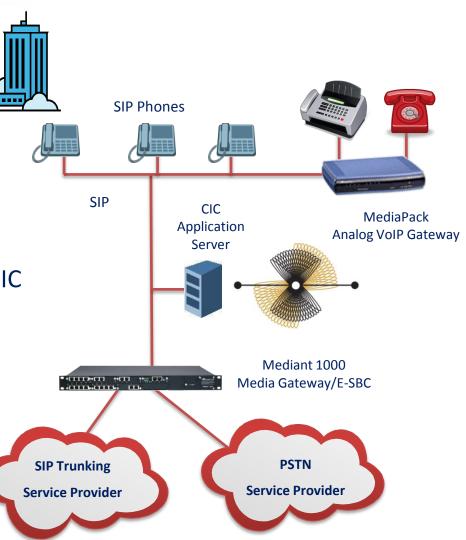
#### WORKING SOLUTIONS"





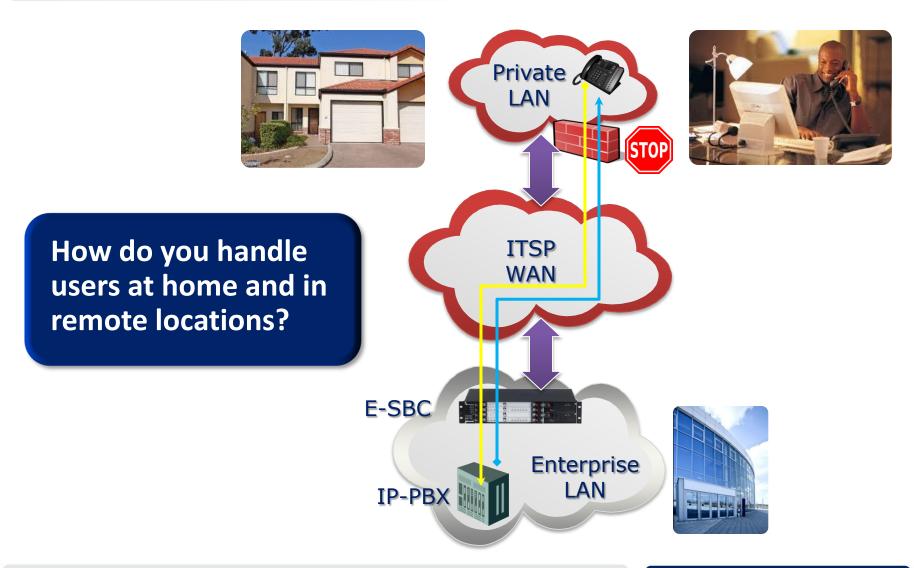
## **Interactive Intelligence**

- Connecting between Interactive Intelligence Customer Interaction Center (CIC) and the PSTN
- SIP Mediation with E-SBC between CIC and SIP Trunking providers
- Interface to legacy devices





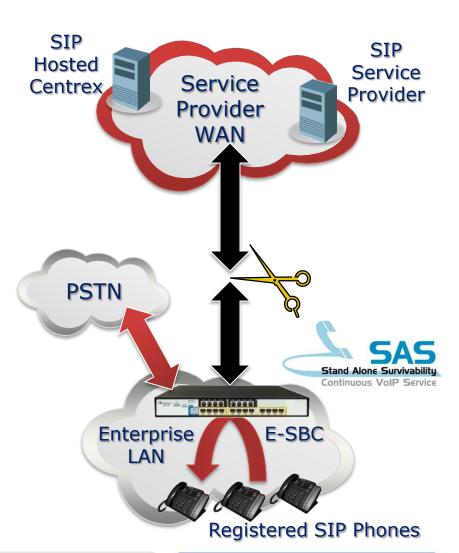
#### **Remote Workers**





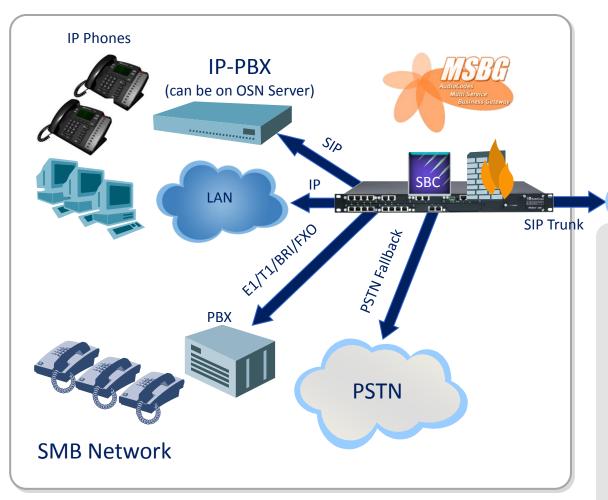
### **Survivability**

- Standalone Survivability (SAS) for branch service continuity
  - Basic features to registered SIP Phones in case of WAN failure
  - Automatically learned dial plan
  - Advanced telephony features during emergency mode





## More Than an E-SBC - Multi Service Business Gateway



MSBG as an integrated demarcation point

Soft Switch

SP WAN



#### **MSBG** functions

- Access
- Router
- LAN Switch
- VoIP Gateway
- IP-PBX (on OSN server)
- SIP Normalization
- E-SBC & Firewall
- Multiple Service providers
- PSTN fallback & Life Line

**AudioCodes** 

**Connecting Networks** 

### Survey



We appreciate your feedback!
Please complete the short survey

http://www.surveymonkey.com/s/2R9JY22



### **Questions**

Q & A



#### **More Information**

 More information on SIP Trunking: <u>www.audiocodes.com/sip-trunking</u>

 Future live events and recordings of past events: www.audiocodes.com/webinars





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