



“SIP Trunking and the Enterprise SBC – What is the real ROI?”

2014

Today's Presenters



Alan D. Percy
Sr. Director, Marketing NA
alan.percy@audiocodes.com



Kevin Kieller
Partner at enableUC
kkieller@enableuc.com



Agenda

- Introduction: SIP Trunking ROI – The Hard Truth
- SIP Trunking – First Hand Experiences
- SBCs – Building Blocks
- Q/A



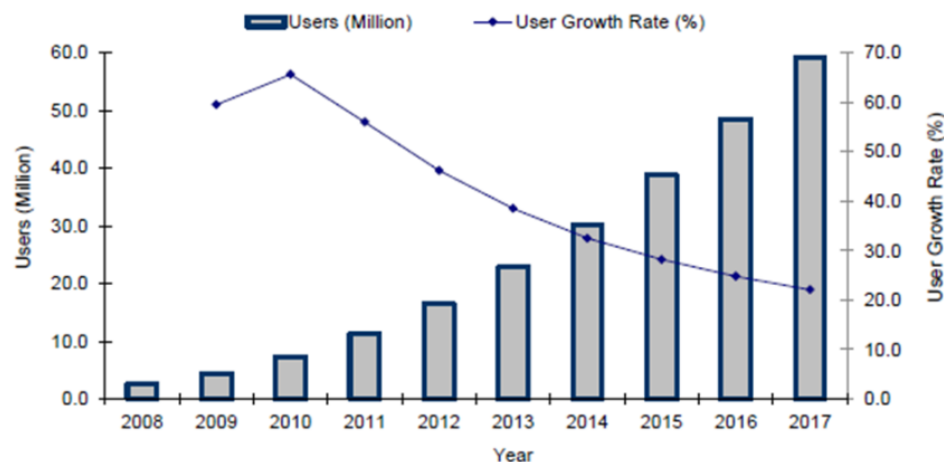
SIP Trunking is Mainstream

- Adoption of SIP trunking has accelerated rapidly in many areas of the world, most notably in North America and parts of Europe

Infonetics Research:

- Adoption of SIP trunking services grew 220% worldwide in 2010

VoIP Access and SIP Trunking Services Market: User Base Forecast (North America), 2008-2017

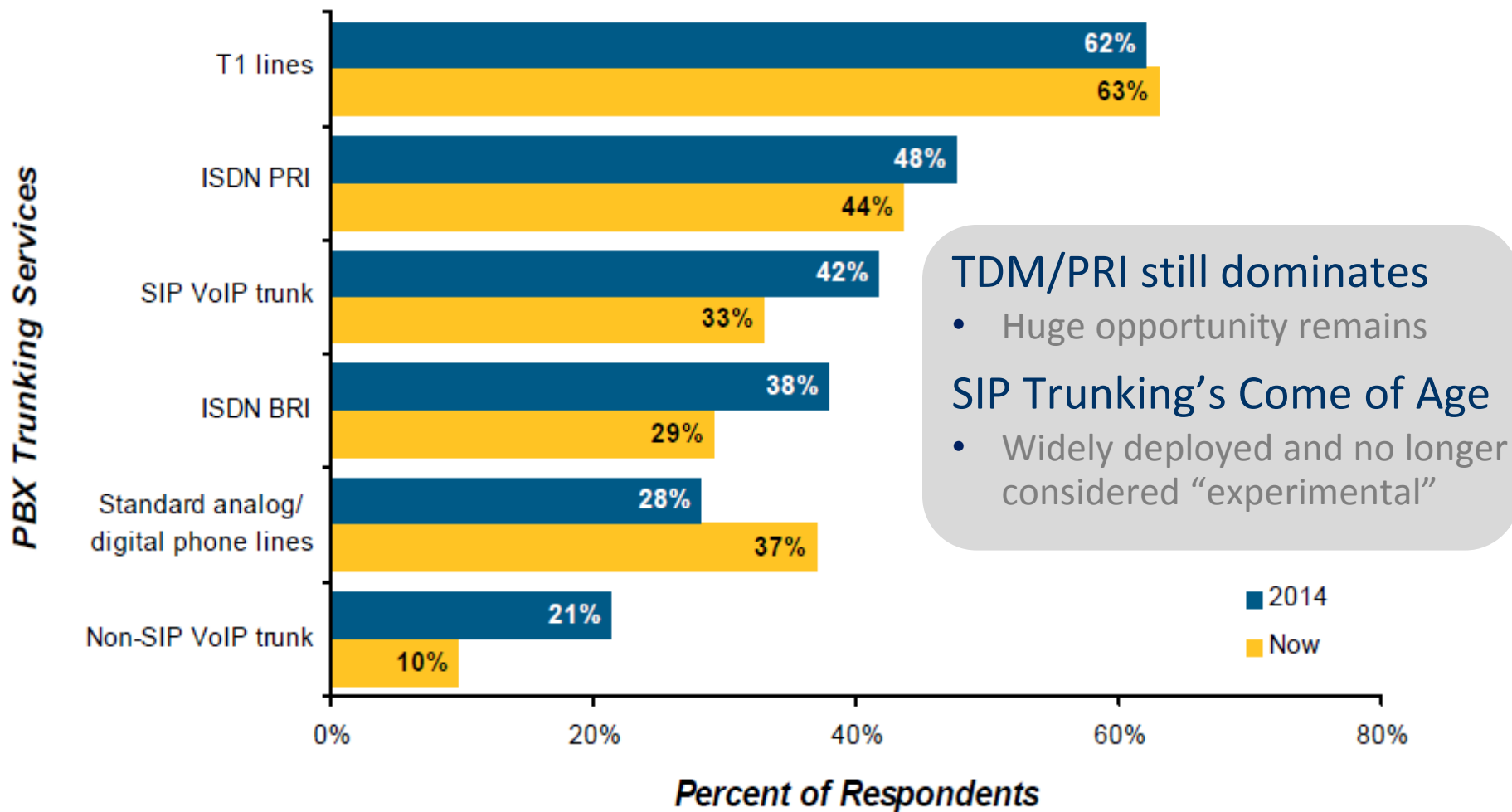


Year	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Users (Million)	2.7	4.4	7.2	11.3	16.5	22.8	30.2	38.8	48.4	59.1
User Growth Rate (%)	--	59.5	65.6	56.0	46.2	38.5	32.5	28.2	24.8	22.1

Compound Annual Growth Rate (2010-2017): 35.0%

Note: All figures rounded; the base year is 2010. Source: Frost & Sullivan analysis.

How Businesses Connect Voice Today



Calculating the “Real ROI”

Calculating the ROI for a SIP Trunking requires knowing the following:

- CapEx:
 - Cost of required networking equipment
 - One-time activation/cancelation fees
 - Cost of last mile WAN upgrades
 - Data network modifications
- OpEx:
 - Monthly SIP Trunk service fees
 - Monthly WAN fees
 - E911 Service fees
 - Software support/maintenance fees

If You Do The Reading...



[SIP Trunk Provider Problems Persist](#), Gary Audin

[More SIP Trunking Gotchas](#), Erik Krapf

[SIP Trunks: A Call To the Wild](#), Matt Brunk

And more...

Today's "Cold Hard Truth" of SIP Trunking

- A "Like for Like" conversion from PRI to SIP Trunks in some cases results in a slim reduction in costs
- Why?
 - PRI circuits are now more often priced competitively, easy to provision and simple.
 - Poorly executed SIP Trunking implementation costs or support issues can quickly negate any savings

Which begs the question:



SIP Trunking and the Enterprise SBC

What is the real ROI?

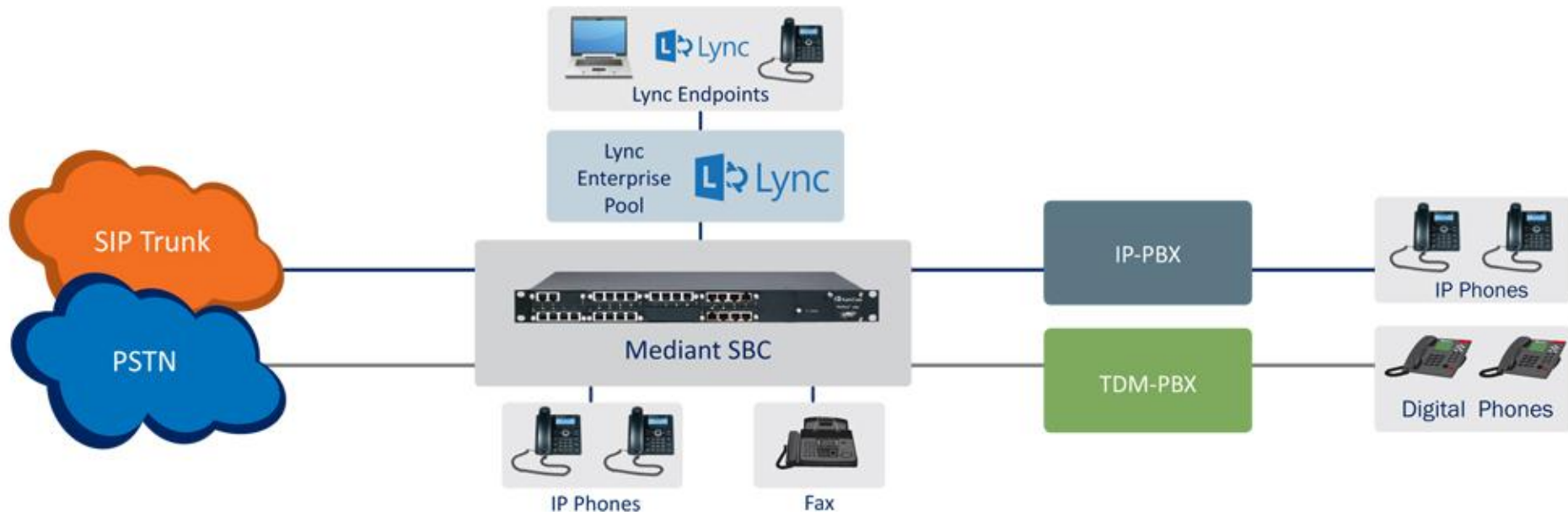
Kevin Kieller
Partner, EnableUC

kkieller@enableuc.com
@kkieller

enableUC.com

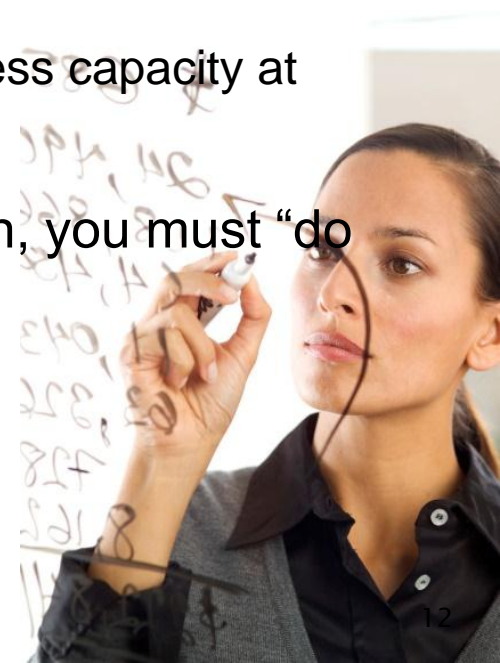
SIP and SBCs

- ▶ A Session Border Controller acts as the access interface between your IP voice infrastructure and the PSTN via a SIP trunk (for both signaling and media)



The Straightforward ROI

- ▶ In some cases, a “like for like” transition from PRI services to SIP can save money
 - Some carriers provide SIP telecom services at a lower cost as compared to PRI services
- ▶ In some cases consolidating multiple PRI services into a single SIP trunk can save money
 - Primarily because you do not need to provision for excess capacity at each PRI connection point
- ▶ To determine costs savings for your specific situation, you must “do the math”



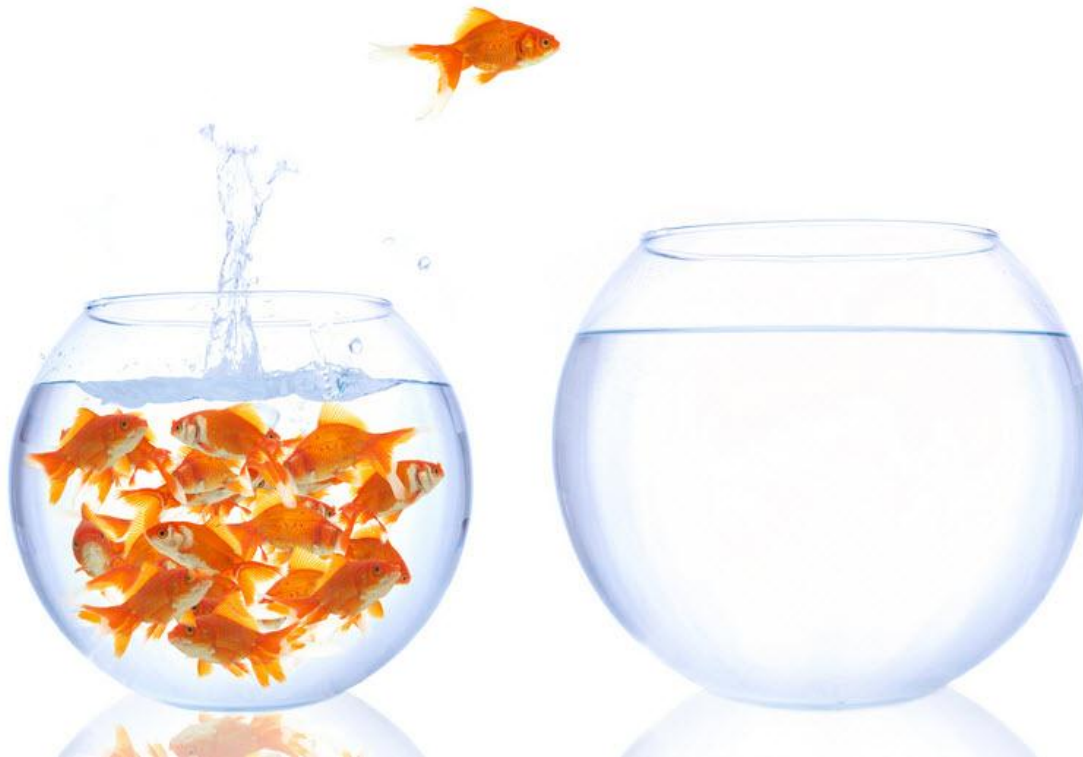
Where an SBC and SIP drives ROI

- ▶ Enabling a centralized architecture
 - Less or no equipment required at branch office
 - Process improvement through standardized (centralized) services
- ▶ Allows you to “get the job done”
 - Addresses security concerns
 - Can handle spec mismatches between solution and carrier SIP service
 - Can add features to voice / UC platform



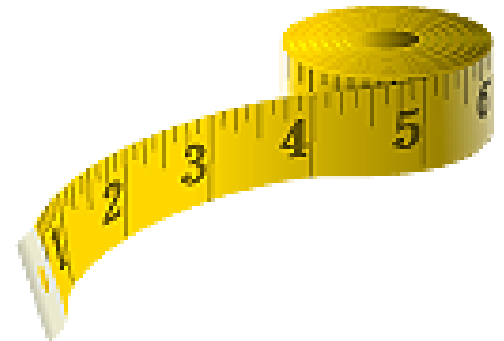
The SBC as the “Bridge”

- ▶ To be successful, you will need to “leap” from your current state to your future end state



Where an SBC and SIP drives ROI

- ▶ Allows you measure and monitor the services you are receiving and the services you are providing
 - Consolidates call quality and usage data across multiple PBXs
 - Helps ensure you are getting what you paid for from carriers



The “Real” ROI: SBCs and SIP

- ▶ An Enterprise SBC enables achievement of the significant ROI associated with your overall UC business case
 - Helps bypass security “roadblocks”
 - Allows required centralization of architecture and process
 - Smooths functional differences and adds needed features
 - Acts as a migration “bridge”
 - Provides on-going operational metrics and monitoring

Thank you.

SIP Trunking and the Enterprise SBC

What is the real ROI?

Kevin Kieller, Partner, EnableUC

kkieller@enableuc.com

@kkieller

enableUC.com

Recap:

Recommendations:

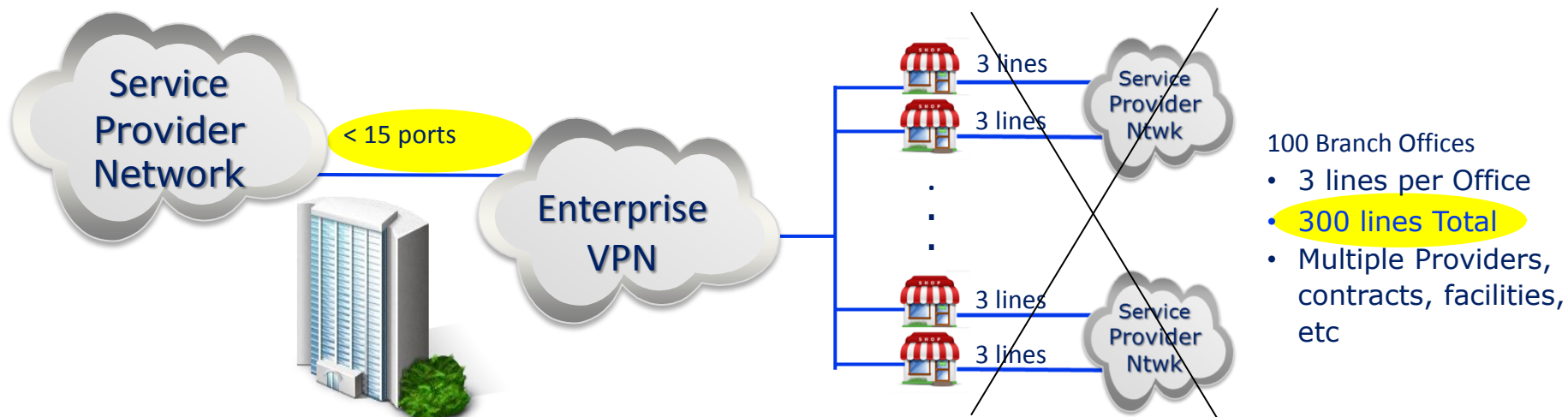
- 1. Plan for Trunk Consolidation**
- 2. Embracing Competition**
- 3. Close Oversight**

Consolidation – Where the BIG Saving are Found

Huge savings from economies of scale – example:

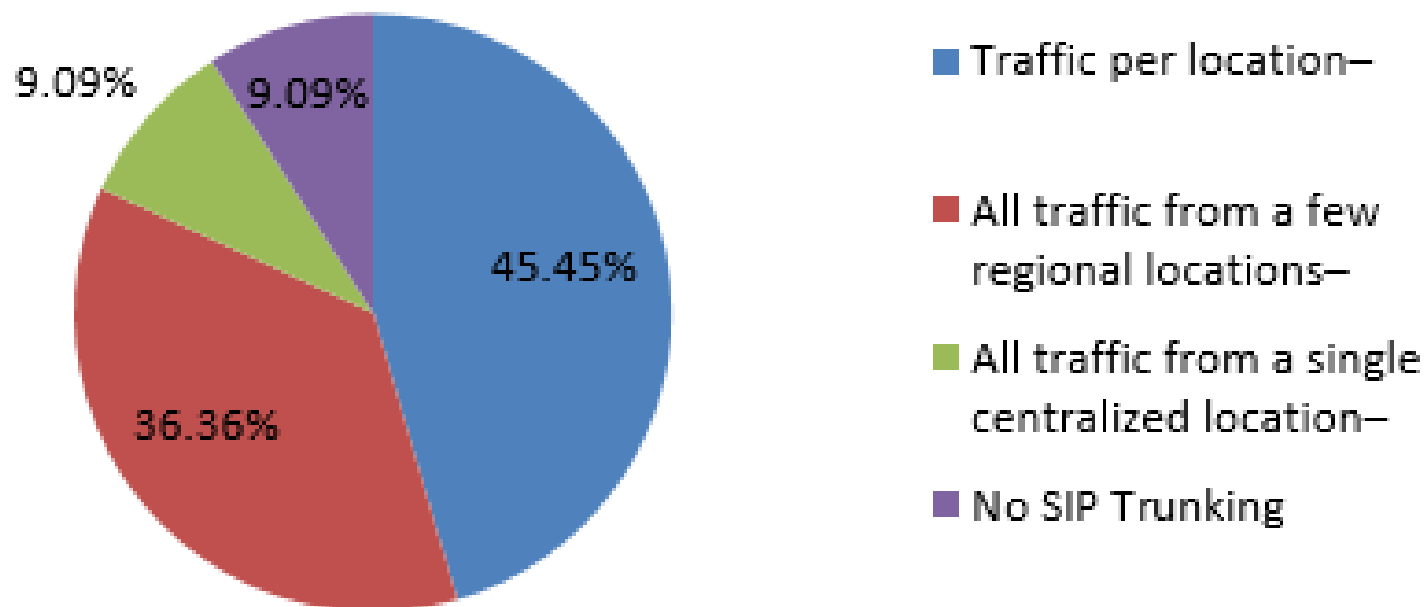
- Consider 100 branch offices with 3 lines each
 - At 0.1% blocking, as little as 3 minutes per hour drives a need for 3 lines
 - At 1% blocking, it still only takes about 9 minutes per hour
 - **100 sites at 3 lines each is 300 lines.**
- When access is aggregated, fewer lines are required
- Much fewer – **in this case reducing port requirements over 90%**

Consolidation allows
13 Centralized ports
to provide the same level of
service as the
300 Distributed ports



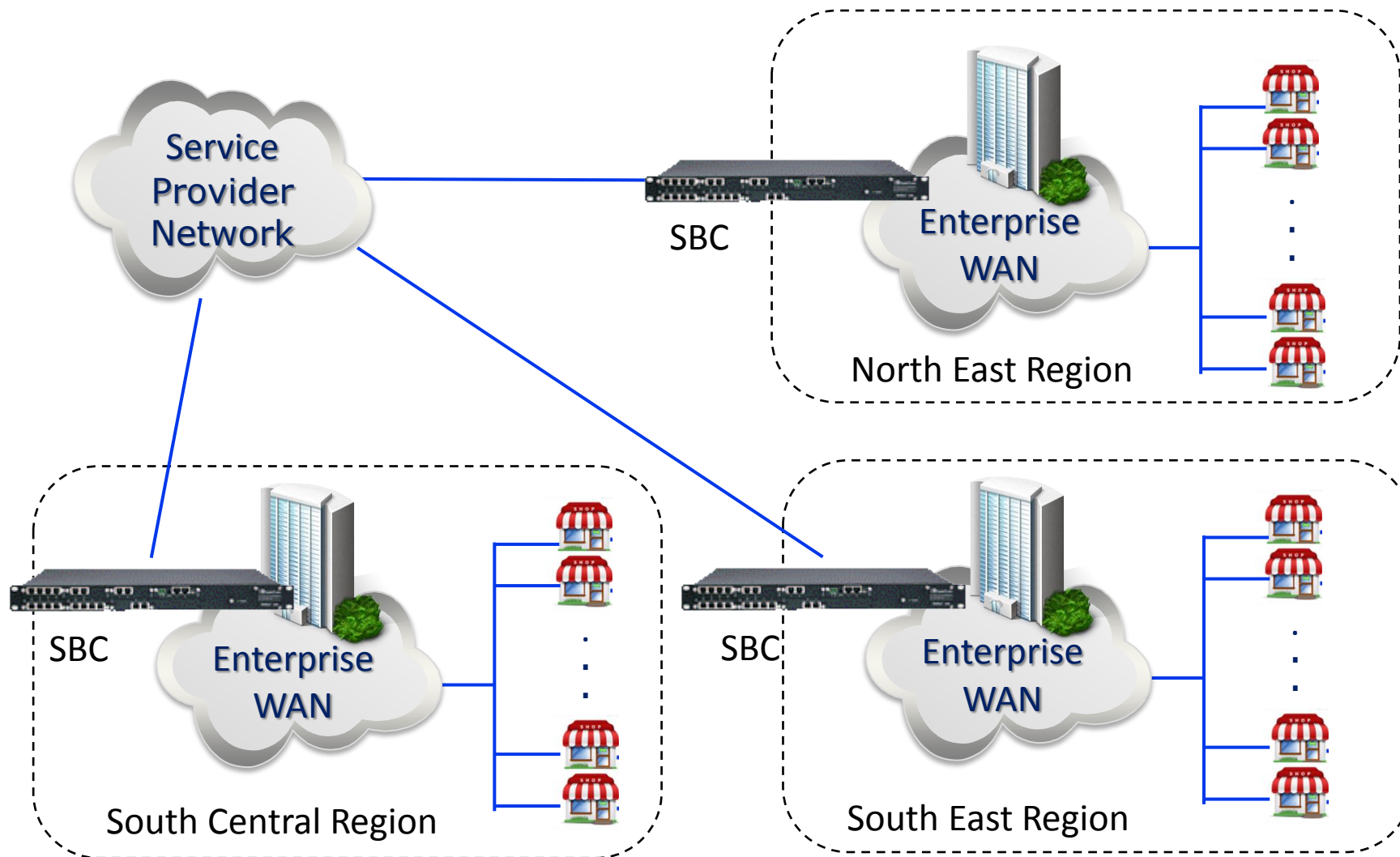
Centralized vs. Distributed?

What is your preferred SIP Trunking architecture?

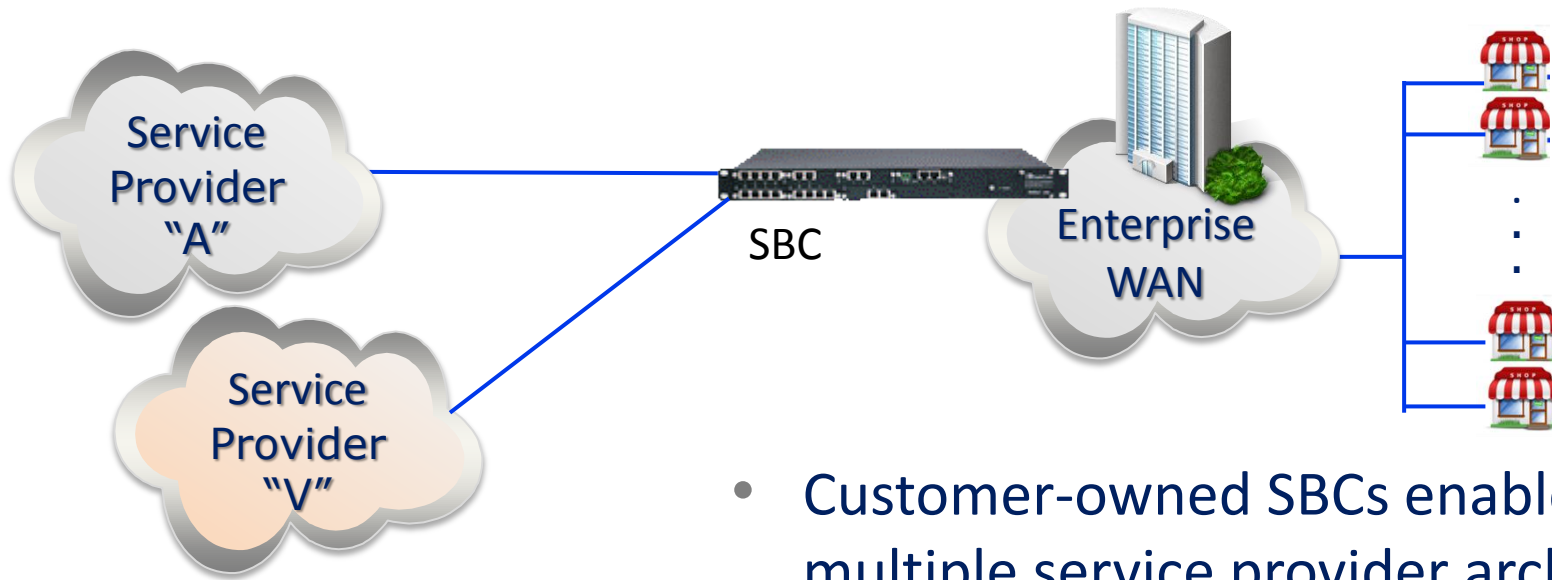


Source: AudioCodes 2014 Customer Survey

Regional Consolidation – A Good Compromise



Embracing Competition



Common Application: Contact Centers

- Customer-owned SBCs enable a multiple service provider architecture
- Increases negotiation strength
- Improves reliability
- Facilitates local or regional carriers
- Toll-free / DID / Outbound

Oversight - Managing Voice Quality

When there are issues, can you prove it?

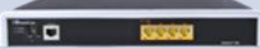





AudioCodes Session Experience Manager

- Receives Media (RTCP-XR) and Signaling Data from Session Border Controllers and/or Gateways
- Aggregates data by device, by link, by network
- Provides real time view, reports, and alarms
 - View Tables by link, device, or region
 - Network View of volume & quality per link
- Drill down to individual calls in 5 sec increments



AudioCodes SBC Line




Pure SBCs

Product	Target Market	Max. SBC Sessions
 Mediant 500	SMB	250
 Mediant 2600	SME	600
 Mediant 4000	Large Enterprises	5,000
 Mediant 9000	Large Enterprises, Service Providers	16,000
 Mediant VE	Virtualized data centers	2,000
 Mediant SE	Large Enterprises, Service Providers	16,000

New

New

Hybrid SBCs (IP and TDM)

Product	Target Market	Max. SBC Sessions	Max. TDM Channels
 Mediant 800b	SMB	250	60
 Mediant 1000	SMB/SME	150	192
 Mediant 3000	Large Enterprises	1,000	2,016

Widest line of SBCs to optimally fit any customer size and needs

AudioCodes Software SBCs

	Virtual Edition	Server Edition
Capacity	2,000	16,000
Platform	VMWare, HyperV	HP DL320 & DL360 (provided by customer)
Target customers	Enterprises and SPs with virtualized data centers	Large enterprises, Contact Centers, and Service Provider core
High Availability	Yes. 1+1	Yes. 1+1

- Feature parity with rest of the Mediant SBC line (excluding transcoding)
- Scale
 - Optimized for Intel's multi-core architecture
 - Leverages standard embedded HW accelerators (Ivy/Sandy bridge)
- Flexible and modular – dynamic core allocation to suit demand
 - Security
 - Transcoding
 - Signaling vs. Media
- Generally Available as of Feb 2014



Configure your SBC in 5min with SBC Wizard

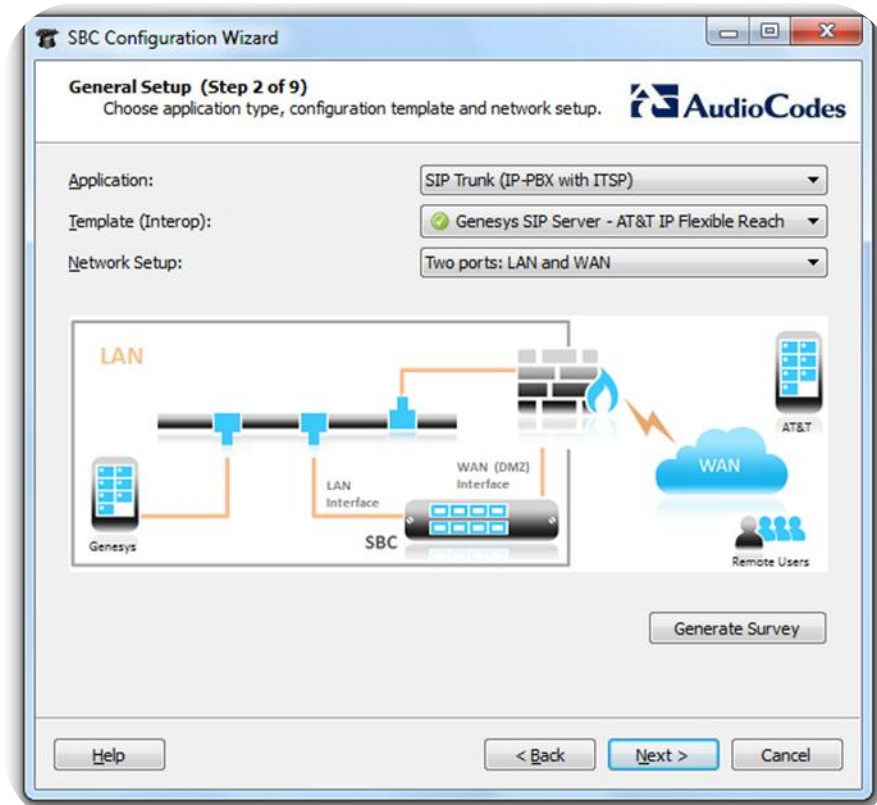
Streamline SBC configuration with SBC Wizard

Quick step-by-step configuration for SIP Trunk and Hosted Services

On-line, up-to-date configuration Database for various partners (IPPBX, UCC, CC, SSW)

Covers all deployment topologies

Advanced configuration can continue, if needed by EMS or WEB



Connecting Networks

AudioCodes

Additional Resources

- **Session Border Controller Resource Page:**
www.audiocodes.com/sbc
- **AudioCodes SIP Trunking Partners/Certifications:**
www.audiocodes.com/sip-trunking
- **High Availability Media Gateways**
www.audiocodes.com/HDGW
- Datasheets, videos, case studies, whitepapers, testimonials

News and buzz via Social Media

- Follow @AudioCodes on Twitter, or join the AudioCodes LinkedIn or Facebook groups!



Questions?



Thank you

