



The audio portion of today's program is available via your **PC speakers/headphones** or by dialing:
+1-719-457-6443, passcode: 679799

Session #1
Implementing IM,
Presence, Voice and
Video

Migrating to
Unified Communications
with Microsoft Lync

February 2012



Housekeeping....



The audio portion of today's program is available via your **PC speakers/headphones** or by dialing: +1-719-457-6443, passcode: 679799

- To reduce interrupts and noise, all lines will remain on mute
- To pose a question/comment, please use the Q/A menu
- A link to the recording of today's presentation and the slide deck will be sent in a few days via email.
- Want early access to the slides?

Follow @AudioCodes on Twitter or LinkedIn



Great Drawings!

Nine opportunities to win!

8 x iPad 2



\$2,000 Vacation Voucher!

- To enter the drawing, you must complete the survey to be presented at the end of today's session (on-demand viewers too!)
- Drawing for Vacation Voucher will occur after the last session and be based on all survey responses collected during the webinar series
- Up to eight chances per person to win the Vacation Voucher
- Drawing for iPad 2 will be from survey responses for the month & held at the end of each month
- One chance per person per month for the iPad drawing
- Winners will be notified via email
- Only US Legal Residents are eligible
- Complete drawing rules can be found at: <http://www.audiocodes.com/uc-migration-series>



Today's Presenters



Alan D. Percy

Sr. Director, Marketing NA



Thomas Binder

Voice Architect

Voice Center of Excellence



Michael Nelson

Vice President, Co-Founder



Today's Agenda

Introductions and Housekeeping

Series Overview and Mission

Getting Started with Lync - Microsoft

A Customer Experience - IAS

Connecting the Dots - AudioCodes

What's Next?

Survey / Feedback

Q/A



What is Microsoft Lync?

The biggest thing to hit the office since Microsoft Office.

- IM & Presence
- Video Conferencing
- Enterprise Voice
- Office Integration
- Mobile apps



Microsoft®
Lync™

www.microsoft.com/lync



Series Background

- Started with “UC with Microsoft Lync – Migration Strategies”
 - June 6, 2011
 - Market analysis, migration strategy and case study
 - All “crammed” into one hour
- **Webinar Feedback:**
 - Need more “How to” content
 - Want more details on each step
 - More Case Studies
 - Wanted more opportunities to ask questions
- If you missed it, you can view the recording at:
www.audiocodes.com/events/recorded-webinars



UC Migration with Microsoft Lync Sessions



Implementing IM/Presence/Voice & Video

Emergency Services and E911 with UC

Moving off the PBX / Moving SIP Phones to Lync

SIP Trunking – Turning on the Cost Savings

UC Mobility - Taking it on the Road

Branch Office Deployments and Survivability

Call Recording and Compliance with UC

Unified Messaging - Integrating the Desktop



Migrating to UC with Microsoft Lync

Implementing IM/Presence/Voice & Video

Thomas Binder, UC Voice Architect
tbinder@microsoft.com

Agenda

- About me
- Terms
- Building a Lync environment
- Connecting to the PSTN
- Resources
- Q&A

Thomas Binder

- Thomas Binder
- Austria, Vienna
- Working on OCS/Lync since 2007
- MCS Voice CoE



Microsoft
CERTIFIED
Master

Office Communications
Server 2007

Microsoft
CERTIFIED
Master



Terms

- Front End Server
 - SIP registrar
- Pool
 - A cluster
- SIP Trunk
 - Connection to a SIP Trunking provider
- Conference
 - A conversation with more than two users
- PBX
 - Private Branch Exchange
- PSTN
 - Public Switched Telephony Network

Requirements

- Active Directory
 - Forest/Domain functional Level
 - Windows Server 2003 native mode
 - Windows Server 2008
 - Windows Server 2008 R2
 - Lync will require a Schema Update
- Certification Authority
 - Certificates for all servers
- DNS
 - A records and SRV records

Building a Lync environment

Front End Server

- SIP Registrar
- IM/Presence
- Can collocate
 - AV Conferencing Server
 - Mediation Server

Dedicated SQL backend

- Only required for EE
- Active/passive cluster



Front End Server



Backend Database

Enterprise vs. Standard Edition

- Same functionality
- Standard Edition
 - Single box solution
 - Includes also back end database
 - 5,000 users
- Enterprise Edition
 - High Availability
 - Requires dedicated SQL server and Hardware Load Balancer
 - Up to 80,000 users

Building a Lync environment



AV Conferencing Server

AV Conferencing Server

- Can be collocated with Front End
- Dedicated Server recommended for scalability
- For pools with 10,000+ users
- Each supports 20,000 users



Front End Server



Backend Database

Building a Lync environment



AV Conferencing Server



Monitoring Server



Front End Server

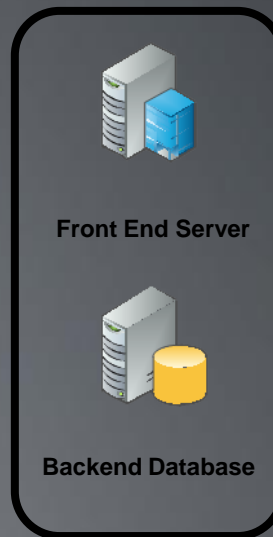
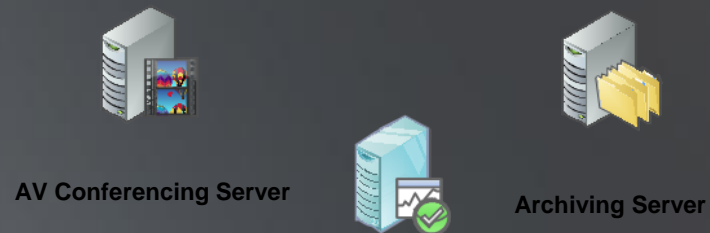


Backend Database

Monitoring Server

- Call Detail records
 - Who, when, how long
 - Usage information
- Quality metrics
 - Endpoint information
 - Network
- Out-of-the-box reports using SQL Server reporting services
- Can be collocated with Archiving Server
- Stores data in SQL Server

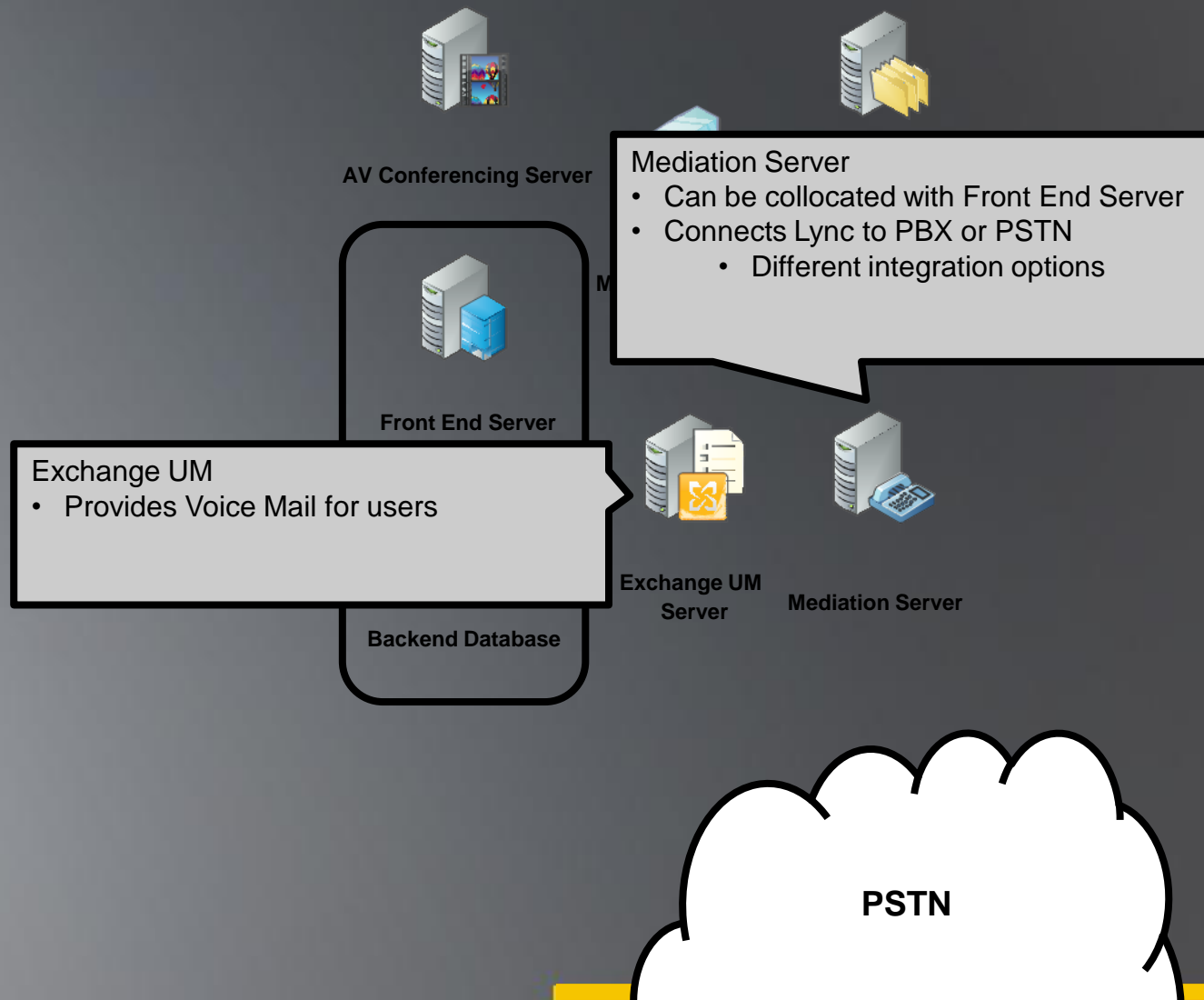
Building a Lync environment



Archiving Server

- Archives Instant Message
 - Full content
- Privacy vs. compliance
- Can be collocated with Monitoring Server
- Stores data in SQL Server

Building a Lync environment



Building a Lync environment

Reverse Proxy

- Used for https traffic
- Can reuse existing Reverse Proxy
- Any Reverse Proxy can be used

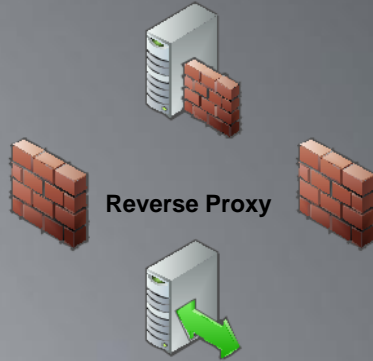
Director

- Optional component
- Can redirect users
- Can function as next hop for all external traffic
 - Recommended if Edge Server is deployed



Archiving Server

Internet



Reverse Proxy

Edge Server



Director Server



Front End Server



Backend Database

Monitoring Server



Exchange UM Server



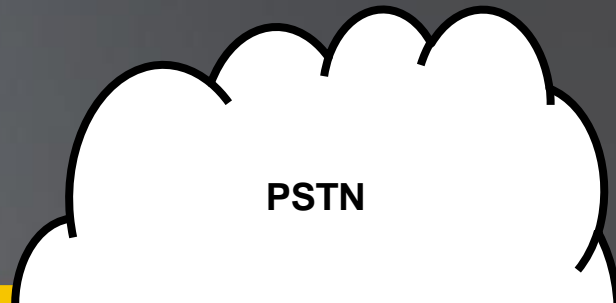
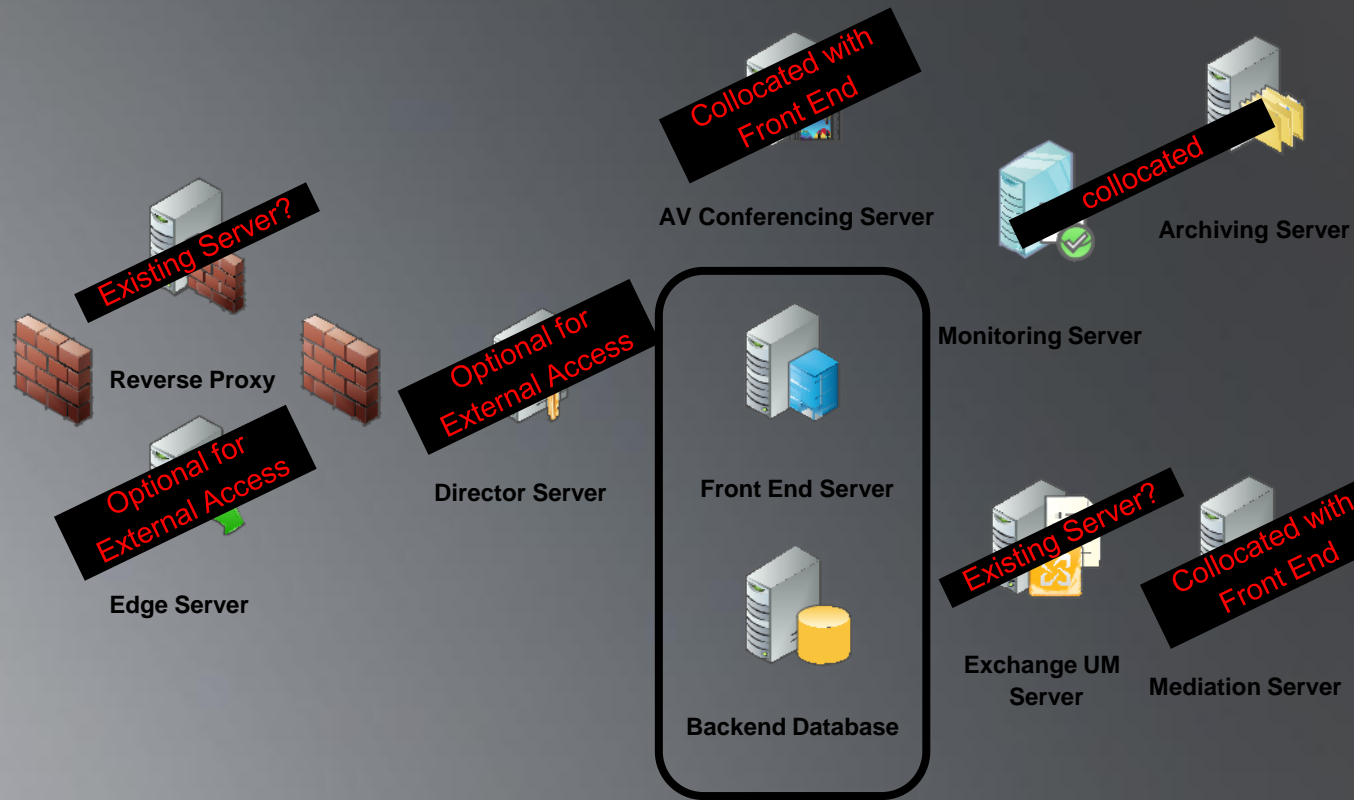
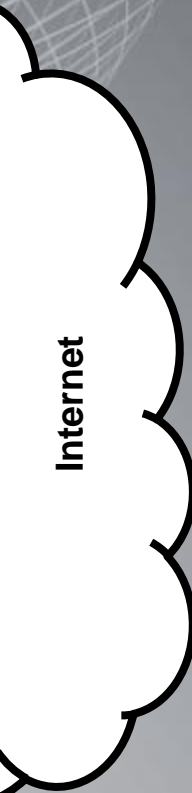
Mediation Server

Edge Server

- Relays SIP, Conferencing and Media traffic
- Enables remote users, Federation and PIC
- Can use DNS Load Balancing or Hardware Load Balancing

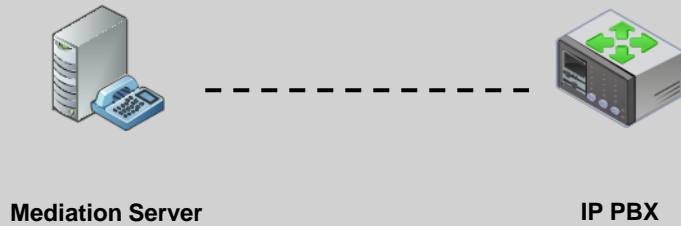
PSTN

Building a Lync environment

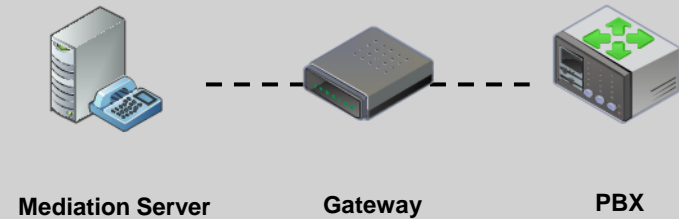


Enterprise Voice

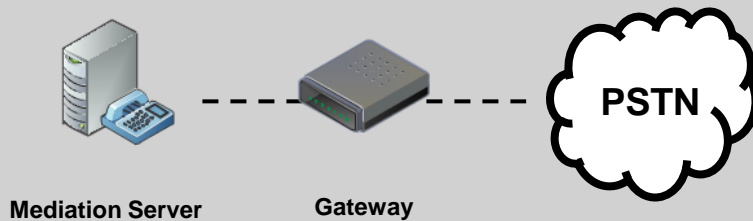
Direct SIP to IP PBX



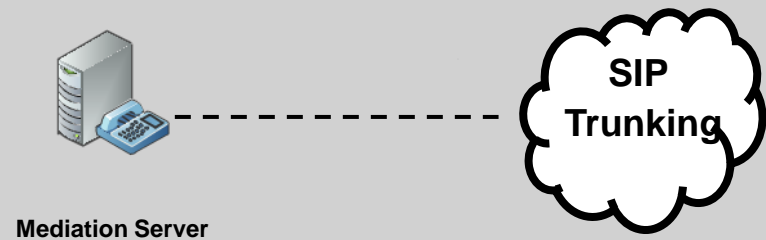
Gateway to PBX



Gateway to PSTN



SIP Trunking



Lessons learned

- Know your deployment goal
- Network
- Open Interoperability Program
- Devices
- Phased approach
 - Internal
 - External
 - PSTN
- User Training

Resource

- Public documentation
 - <http://www.microsoft.com/download/en/details.aspx?id=23888>
- Open Interoperability Program
 - <http://technet.microsoft.com/en-us/lync/gg131938.aspx>
- Phones and Devices Qualified for Microsoft Lync
 - <http://technet.microsoft.com/en-us/lync/gg278164.aspx>
- NextHop: Microsoft Lync Server Documentation Hub
 - <http://blogs.technet.com/b/nexthop/>
- Lync.com
 - <http://lync.com>

Thank You

tbinder@microsoft.com

Integrated Access Solutions



*Unified
Communications
Specialists*

Integrated Access Solutions

- UC Experts - Everything UC
- 10+ years in Business
- Gray hair and scar tissue
- Legacy TDM through the evolution of VOIP to IP Telephony to Unified Communications
- Thousands and thousands of Digital AND IP endpoints deployed

Integrated Access Solutions

- **Mid-Market to Enterprise Focus**
- **Over 100 Years of Experience**
- **Subject Matter Experts**
- **Legacy, Digital and IP PBX Platforms**
- **Advanced Communications Applications**

Case Study - OC Technology Company

Orange County based
with 450 employees
world wide

■ Situation

- Dying PBX
- Obsolete communications methods
- Global foot print
- Major corporate relocation
- Changing business needs
- Distributed work force
- Outsourced conferencing and collaboration services costly

Solution-Consulting

- Deep needs analysis
 - Workflow
 - Customer interaction
 - Employee efficacy
- Infrastructure evaluation
 - Data Network – WAN/LAN
 - Messaging
 - Enterprise applications
- UC impact study
 - Voice and Video capacity assessment
 - Enterprise application integration
- Generate Design Options

Solution - New Economy Approach

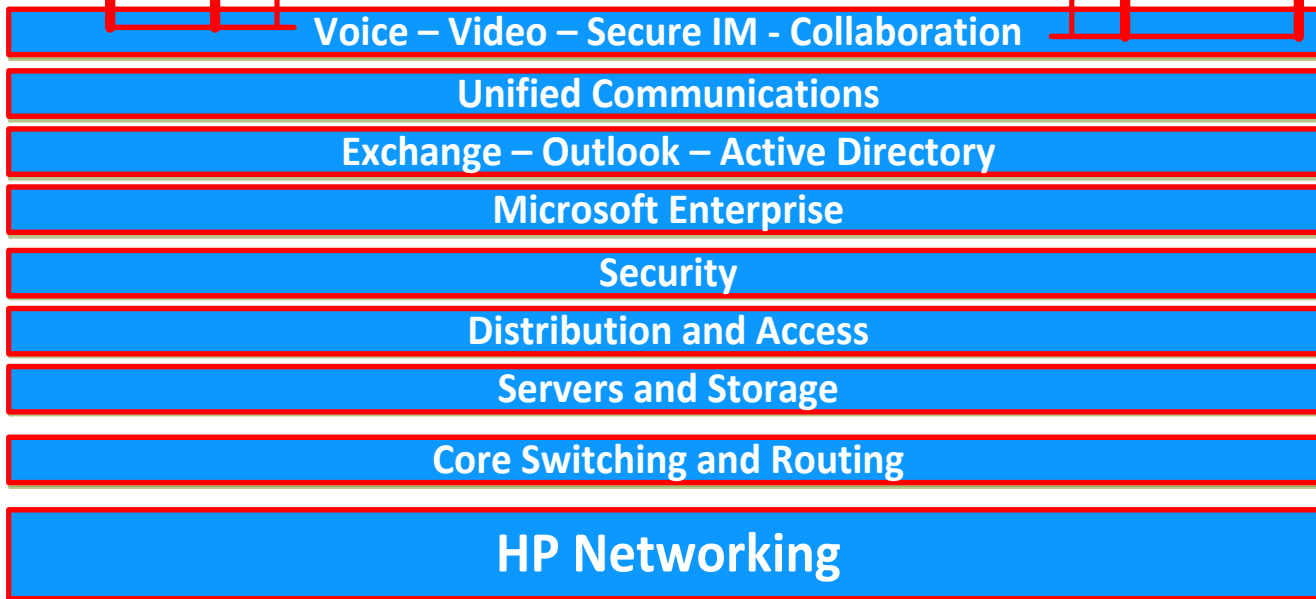
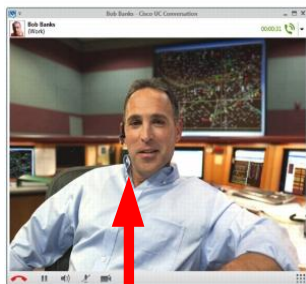
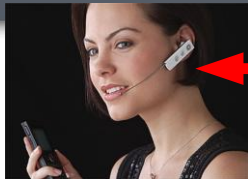
– Foundation

- HP Networking
- Microsoft EA
- Audiocodes
- Polycom
- Intelepeer

– End User Experience

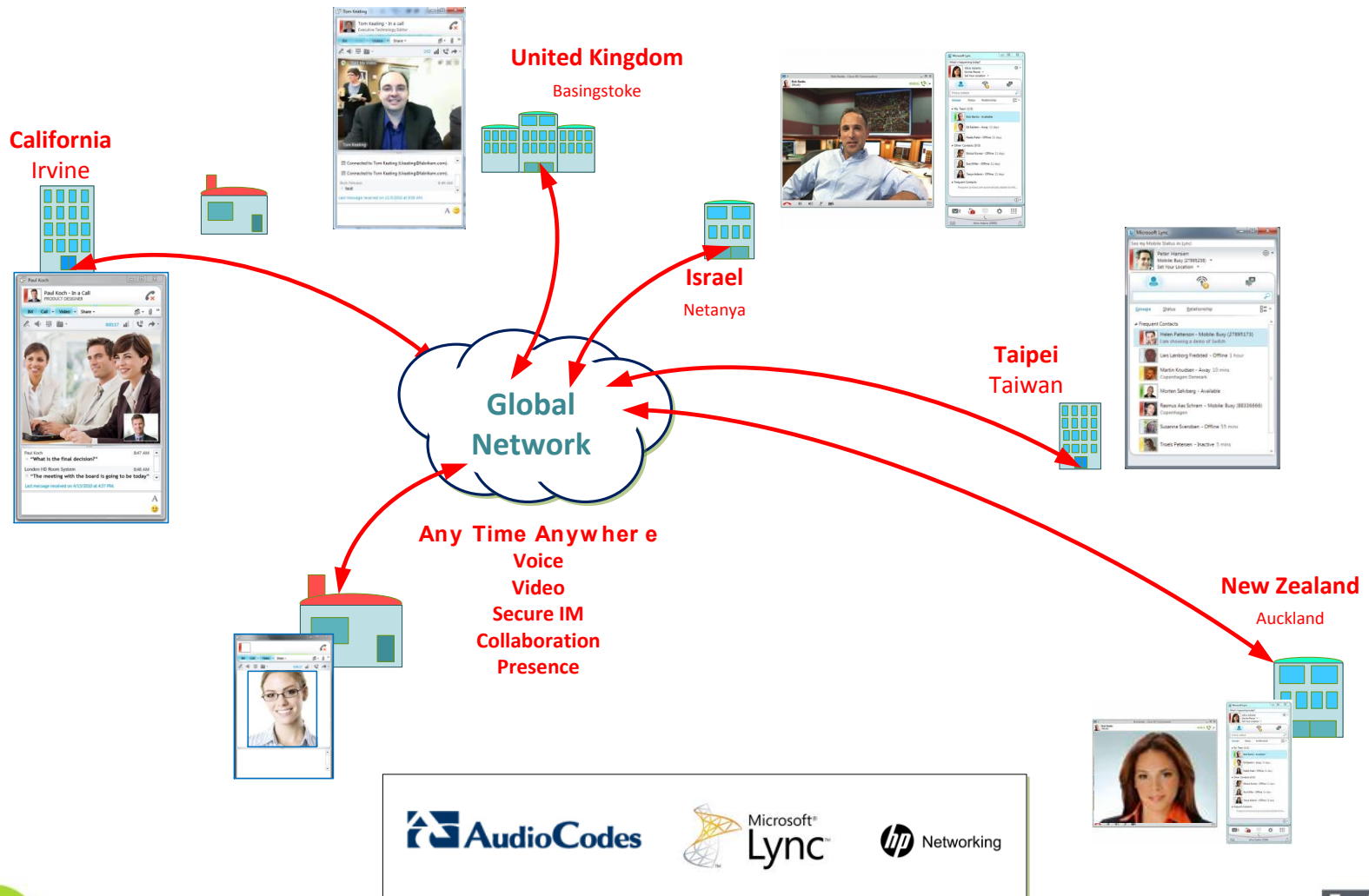
- Teaming
- Collaboration
- Mobility
- Adaptability

Platform for a Global Solution

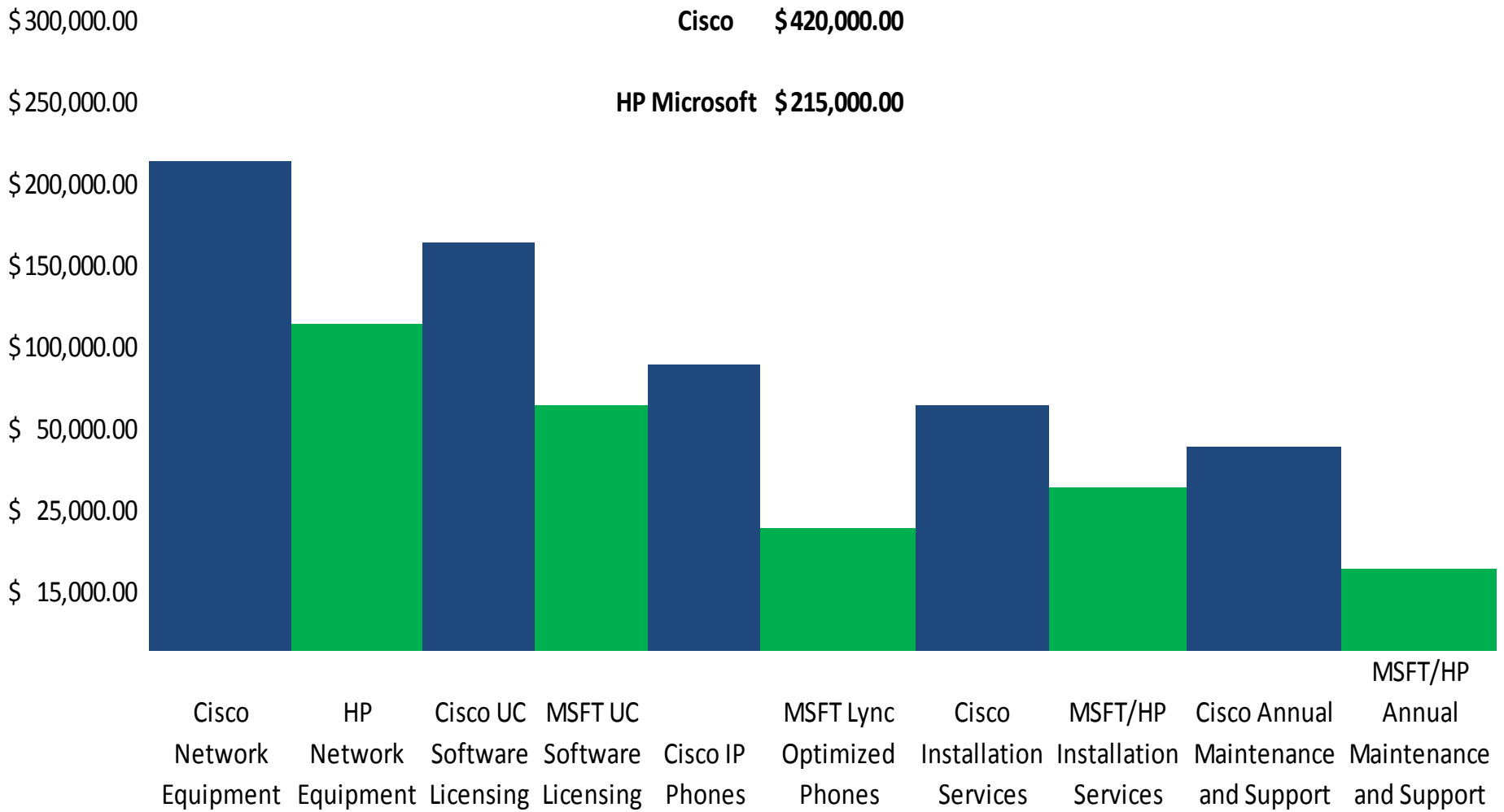


Empowering a Global Team

Global Communications Network



Economic Overview - Cisco versus Audiocodes MSFT HP





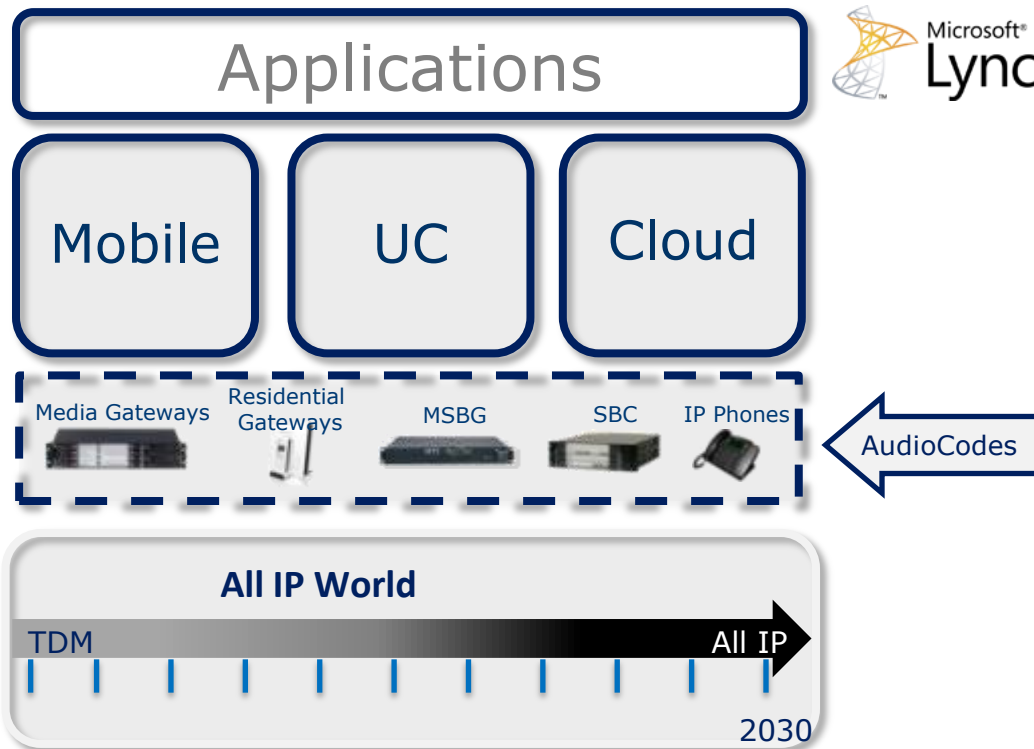
Migrating to Unified Communications with Microsoft Lync

February 2012



What AudioCodes Does...

The Communications World:



- Communications - world is shifting towards an all IP infrastructure
- Growth driven by desire for unified communications, cloud computing and mobility
- Incumbent vendors struggle to adapt to demands of newly emerging software applications

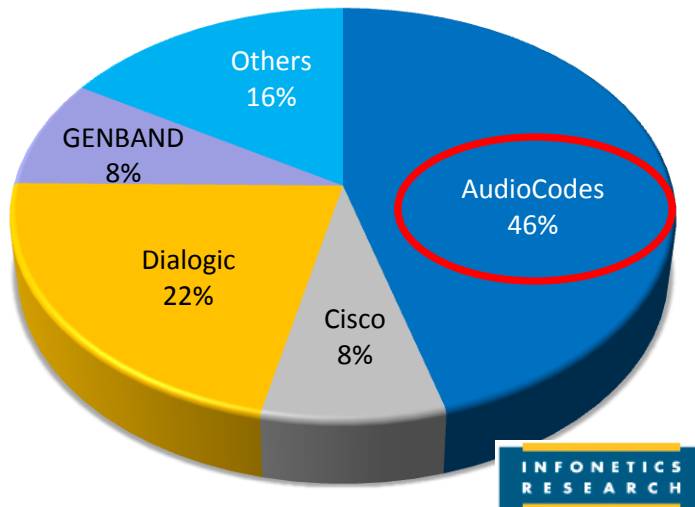


AudioCodes innovative, interoperable and diverse portfolio of solutions are uniquely positioned to enable this transition

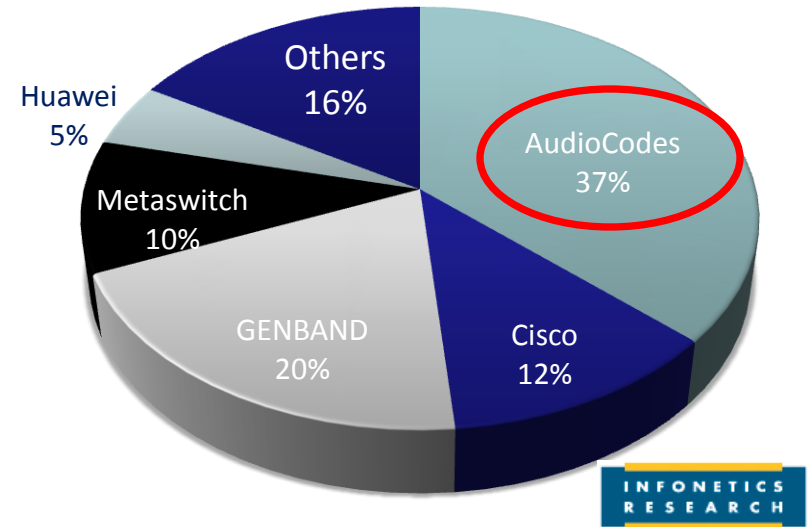


Media Gateway Market Share

Low Density Market Share – Q4 2010



Mid Density Market Share – Q4 2010

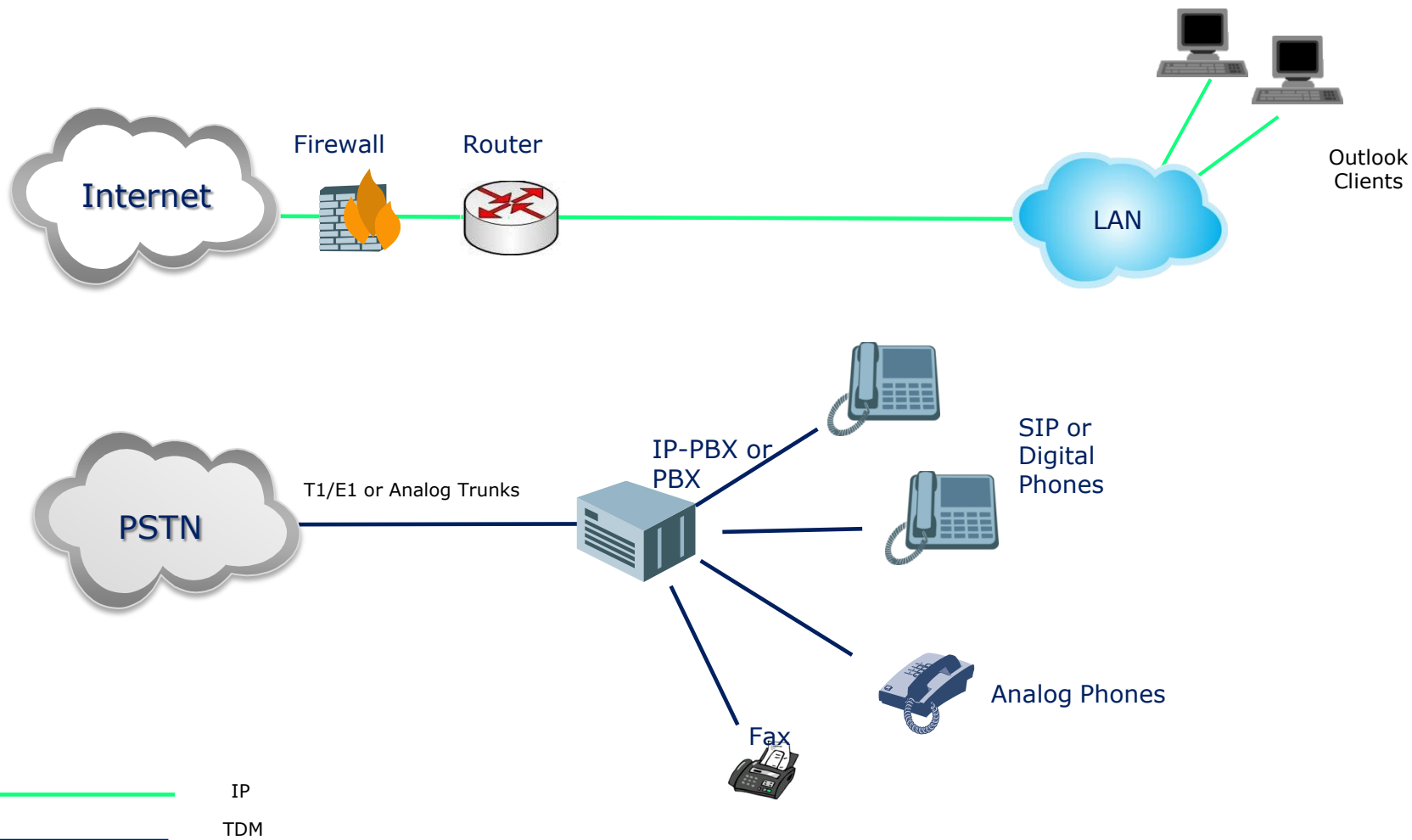


- **Ranked #1 in VoIP chips (1997-2000)**
- **Ranked #1 in VoIP communications blades (1998-2006)**
- **Ranked #1 in VoIP Medium Density & Low Density media gateways (2008-2010)**
- **Focused on Enterprise Voice**

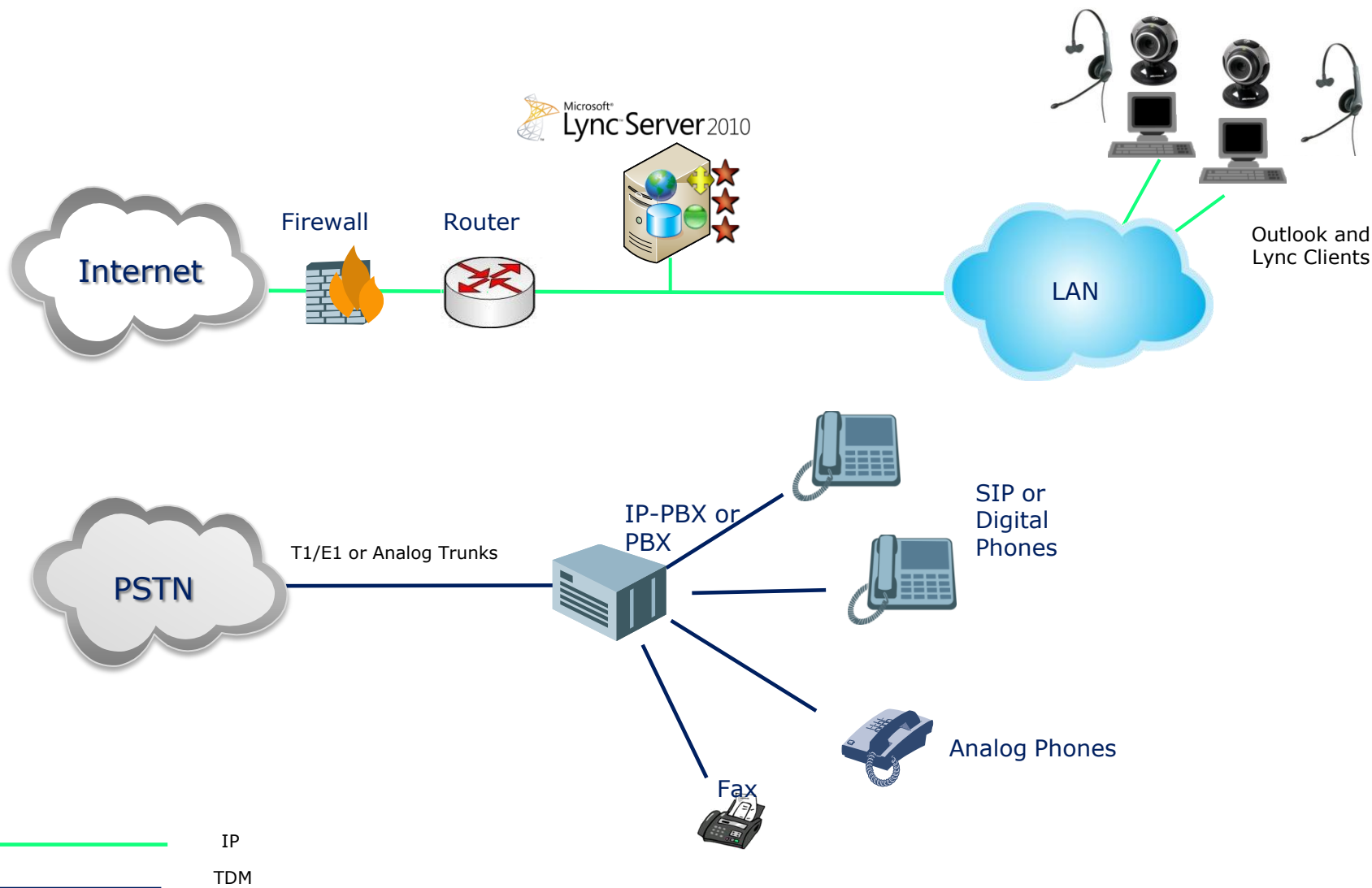
Source: Infonetics, 4Q10 SP VoIP Equipment & Subscribers



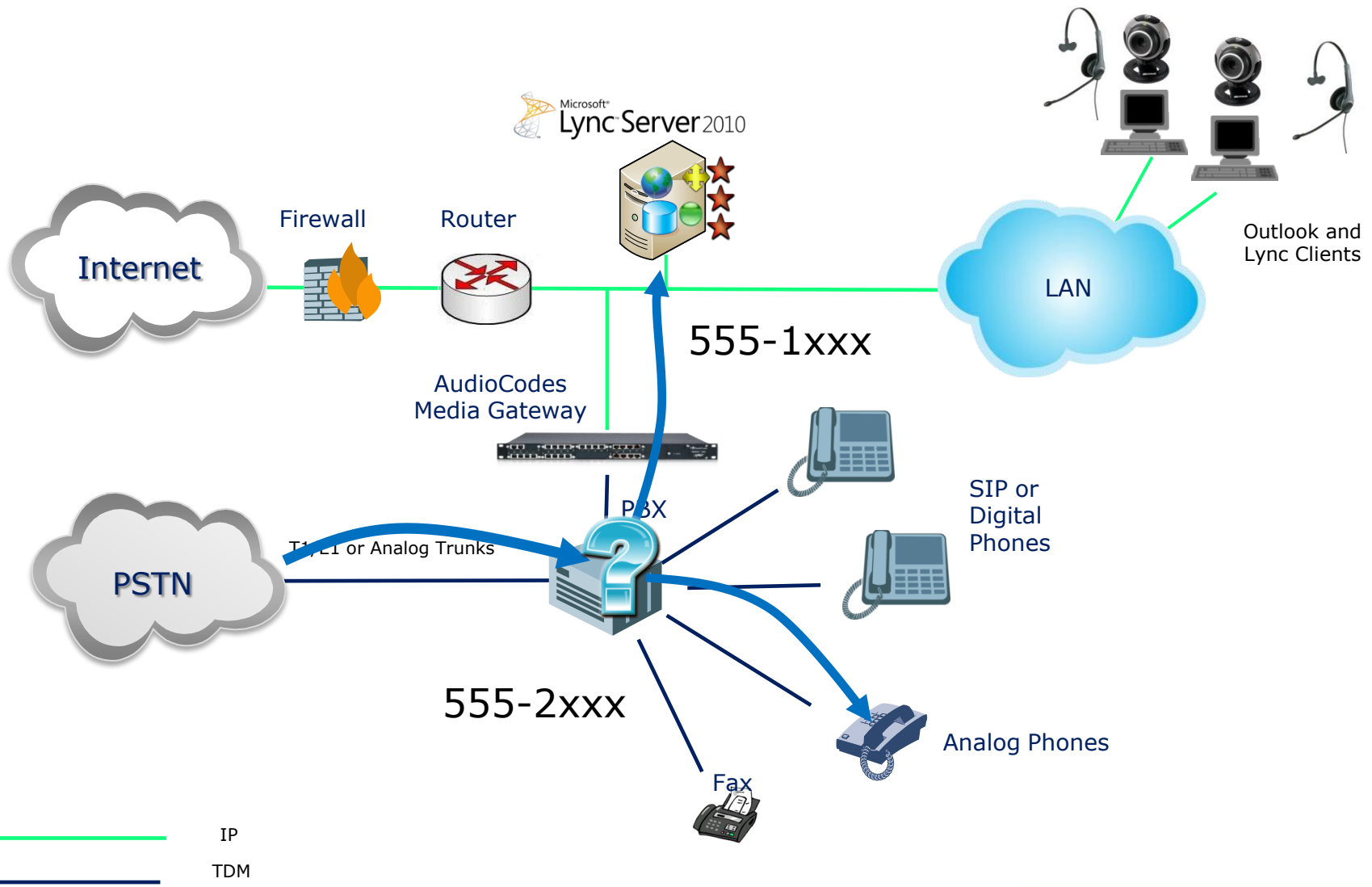
Starting Point: Businesses Today



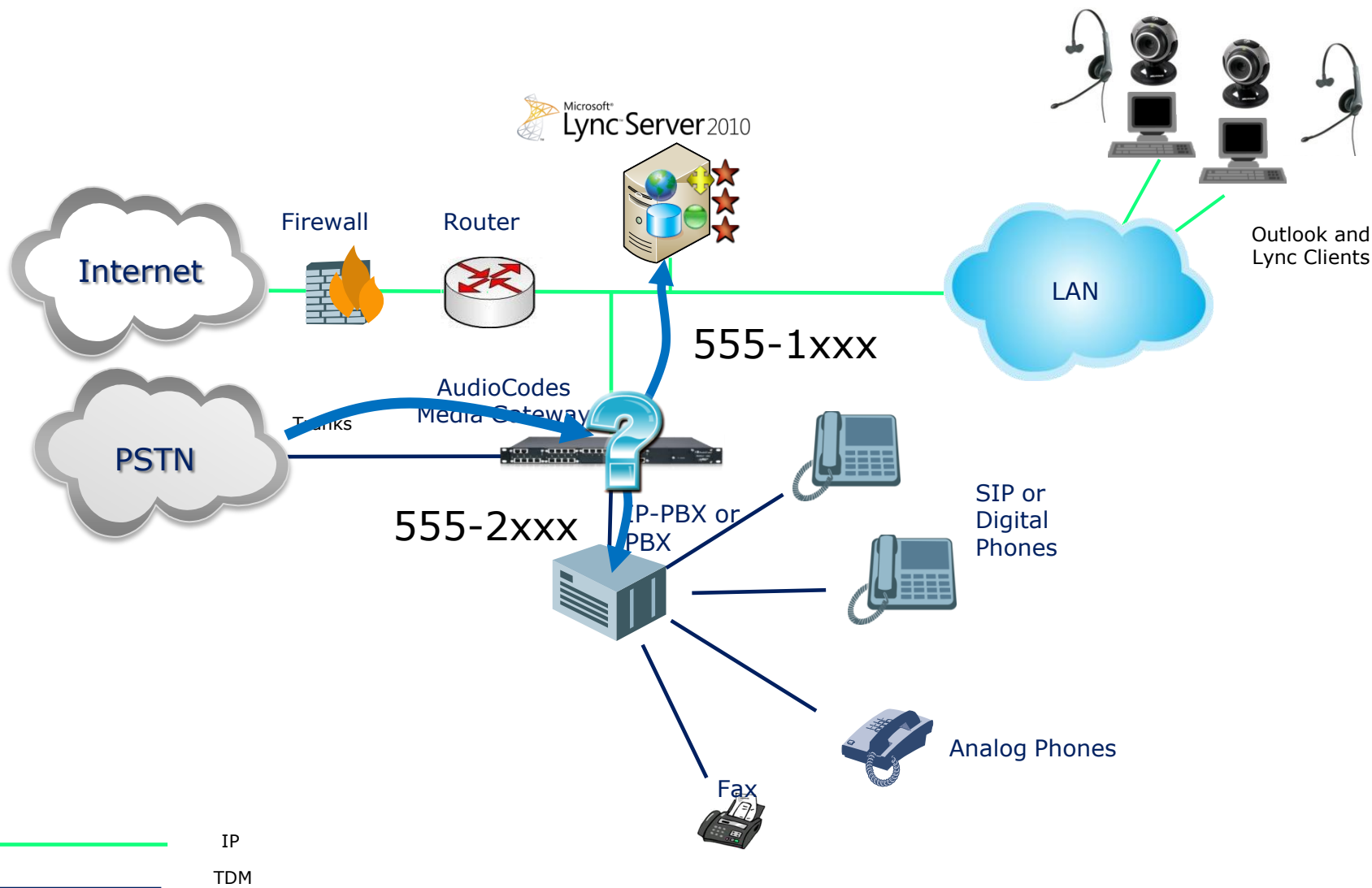
Implementing Lync without Voice Integration



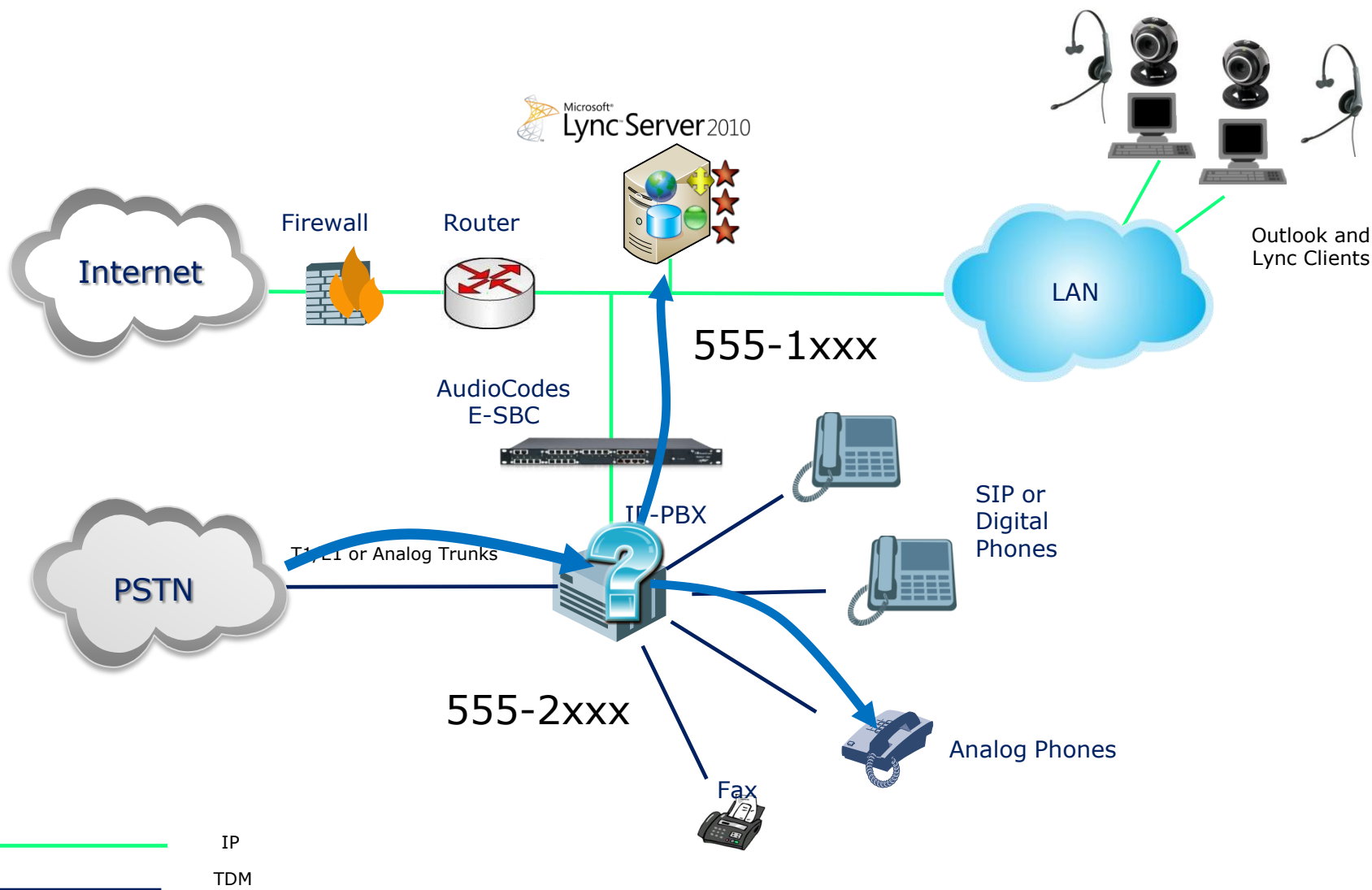
Behind the PBX



Drop and Insert



SIP with IP-PBX



Integration Notes

English | [Spanish](#) | Hello, Alan Percy | [Log Out](#) | [My Profile](#)

AudioCodes

[in](#) [t](#) [f](#) [You Tube](#)

Google™ Custom Search

CORPORATE **SOLUTIONS** **PRODUCTS** **PARTNERS** **NEWS & EVENTS** **INVESTORS** **SERVICES**

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CARRIERS

- Wireline & VOB
- Mobile / Wireless
- Cable
- Enhanced Services Infrastructure
- Value Added Applications - InTouch VAS
- BroadSoft VoIP Applications

ENTERPRISE

- Voice & Data Convergence
- IP Telephony Infrastructure

Microsoft Unified

AudioCodes Med... offering for Microsoft Lync Server 2010

[Overview](#) [Downloads](#)

2011 Lync Voice Gateway Partner of the Year

AudioCodes, a Microsoft Gold Unified Communication Partner with vast experience in VoIP solutions, provides enterprise customers key components in the Microsoft Lync network architecture.

[Click here for Microsoft Lync Training Course](#)

Sales Inquiries

Are you interested in being contacted by an AudioCodes sales representative? Please enter your details and we will contact you shortly:

First Name* Last Name*

Title*

Email*

Phone Number*

Country*

Company*

Question:*



Unified Communications Building Blocks from AudioCodes



Features	MediaPack 1xx	Mediant 800	Mediant 1000	Mediant 2000	Mediant 3000	Mediant 8000
Office Communications Server 2007 R1/R2 (Gateway Type)	Basic	Basic	Basic Basic-Hybrid	Basic Basic-Hybrid	Basic	Basic
Lync Server 2010 (Gateway Type) Filed Upgradable - Firmware upgrade	Analog Device	Enhanced	Enhanced SBA SPS	Enhanced SBA SPS	Enhanced	Enhanced
Microsoft Exchange Server 2007 & 2010 (Gateway Type)	IP Gateway	IP Gateway	IP Gateway	IP Gateway	IP Gateway	IP Gateway
Max PSTN Channels	2/4/8/24	30	120	480	2,016	16,000
PSTN Interfaces	FXS/FXO Up to 24 FXS or 8 FXO ports	Up to: 1 E1/T1 4 BRI ports 12 FXS/FXO	Mix of: 1 - 4 E1/T1 1-20 BRI 4-24 FXS/FXO	1 -16 E1/T1 trunks	Up to 63/84 E1/T1 trunks	Up to 8xOC-3 (STM-1) ports, Up to 24xT3 (DS-3) ports Up to 252 E1/T1/J1 trunks
Modularity	Fixed configuration analog gateway	Fixed configuration gateway	Full Modularity	Fixed configuration digital gateway	Fixed configuration digital gateway	Full Modularity
SBC / IP to IP	N/A	Full E-SBC Up to 24 concurrent Sessions	Full E-SBC Up to 150 concurrent Sessions	IP to IP Up to 240 concurrent Sessions	Full E-SBC Up to 1000 concurrent Sessions	B2BUA Transcoding Application

AudioCodes 360 Support

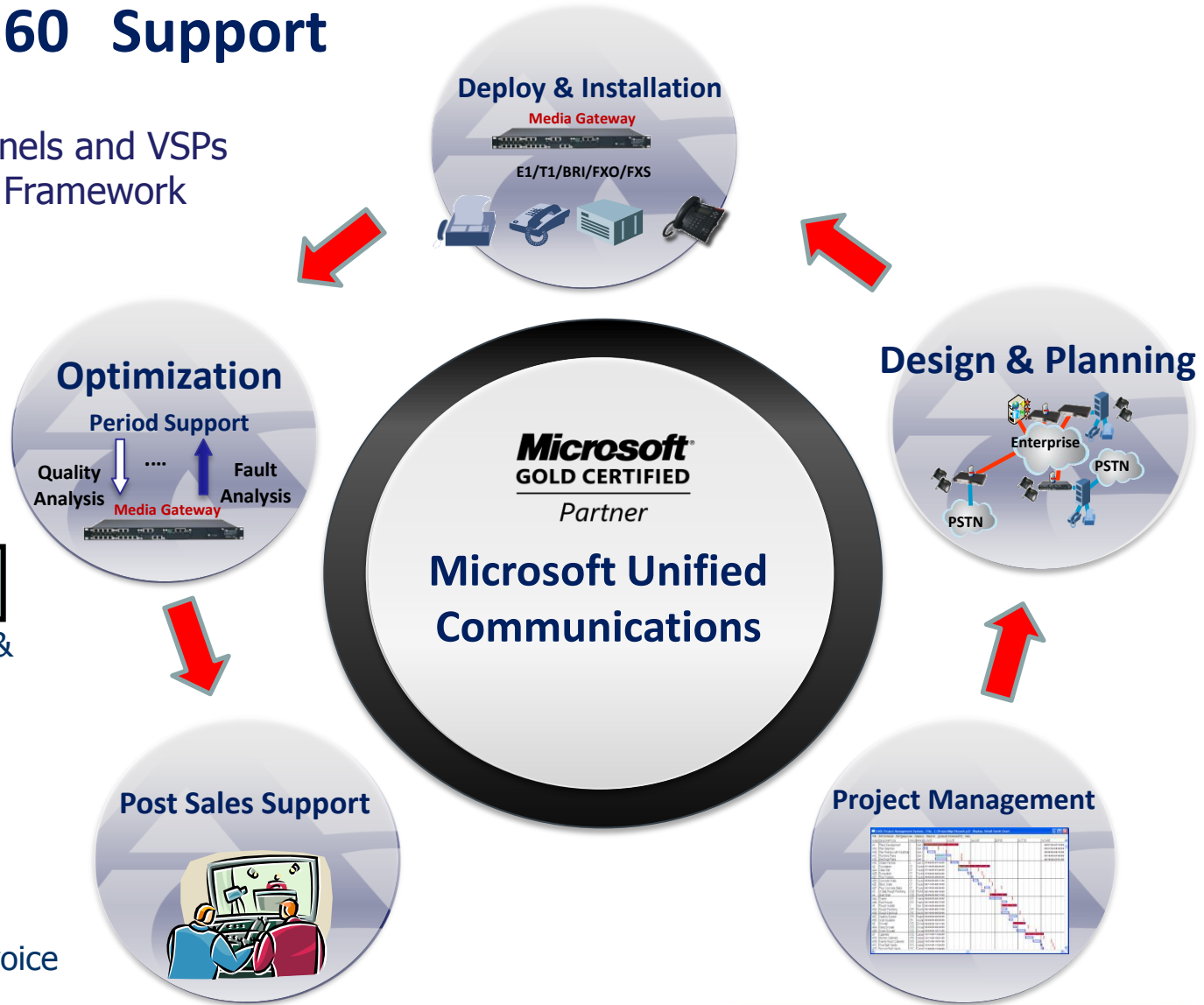
- Targeted for MSFT Channels and VSPs
- Utilizes the PDI services Framework

Planning & Design

- Planning Assessment
- High Level Design
- Migration Planning
- Detailed Design
- Staging plan
- Implementation Plan

Implementation

- Media GW's Configuration & Deployment
- VOIP Deployment and Acceptance
- PSTN and PBX telephony integration
- Installation Services
- integration and migration between current & target voice infrastructures



Our Next Session

Emergency Services and E911 with UC

Partners: March 13, 2012

End-Users: March 15, 2012

- Discussing the challenges and requirements
- Introduce ELIN
- Special handling for E-911 calls
- Cost-saving techniques
- Review a customer case study
- Presenters:



Pascal Menezes, Senior Program Manager, Microsoft

Chris Sheridan, Solutions Architect, Sentri and a vTSP for Microsoft



Year of the Lync Webinar

**Wednesday
February 22,
2012
11:00am EST
(5:00pm CET)
Duration: 1
hour**



AudioCodes and Infonetics Research
Webinar

Year of the Lync Migration to Microsoft Lync Voice Solutions



Dani Kiryati

Marketing
Manager
AudioCodes



Diane Myers

Directing
Analyst
VoIP and IMS
Infonetics

Register at: www.audiocodes.com/events/live-webinars



Survey Time!

8 x iPad 2



\$2,000 Vacation Voucher!



We appreciate your feedback!

Please complete the short survey

<http://www.surveymonkey.com/s/UCMIGRATION>



Q/A and To Learn More:

- Questions: Use the Q/A menu on Live Meeting
- More on Lync solutions at: www.audiocodes.com/Lync
 - Whitepapers
 - Recorded webinars
 - Videos
 - Datasheets/Brochures
- Social Media
 - Twitter – @AudioCodes
or @AlanDPercy
 - LinkedIn
 - AudioCodes
 - AudioCodes / Lync Resource Center Group





Thanks!

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More on Lync solutions at:
www.audiocodes.com/Lync

