



# SteelCentral UC Solution – Sales Training

UC360: Global UC Visibility and Analytics

**riverbed**<sup>®</sup>

# Agenda

1

Что такое UC и VoIP?

2

Что происходит в  
индустрии?

3

Какие проблемы?

4

Что у нас есть в  
«бардачке»?

5

Кто круче?

6

Кому это надо

# UC больше чем модная игрушка

- Бизнес - коммуникативная игра
  - **Голосовые звонки**: очевидная потребность
  - **Video conferencing**: встречи сидя в офисе (экономия на поездках) (!)
  - **Application sharing**: новая «фича»
- UC в отличие от большинства приложений peer-to-peer
  - Традиционный подход (stand alone packet capture) очень дорого - \$\$\$! (e.g. Netscout, traditional ARX/Shark)
  - К счастью есть более масштабируемое решение.

# кто лидирующие игроки в UC – их 3



- CallManager



- Telepresence



- Cisco webex



- Jabber



- Aura CM



- Scopia Video



# UC Market Share Leaders (без комментариев)

Figure 1. Magic Quadrant for Unified Communications



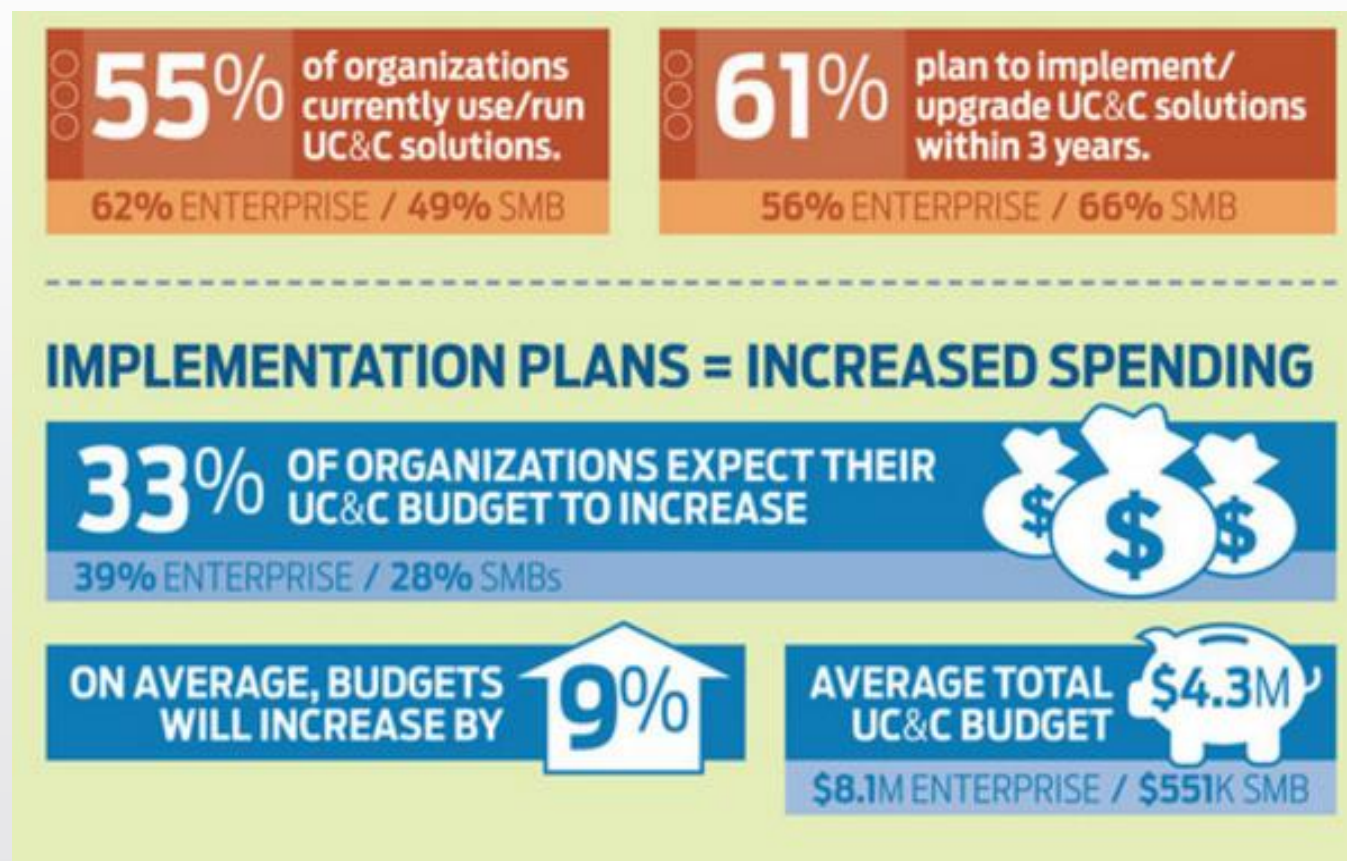
- Cisco UC: dominates enterprise communications, especially Fortune 500.
  - типичный desk phone внутри компании
- Avaya UC: big player in contact center applications and federal space.
  - типичный call-центр компании
- Microsoft Lync/Skype for Business: fastest growing collaboration, part of O365 now.
  - типичный desktop компании



# Инвестиции в UC растут!

где рыба там и рыбаки!

- Microsoft агрессивно продвигает O365 E5 Облачный PBX
- Cisco продвигает WebEx, Jabber и Spark
- Avaya в роли догоняющего удерживает плацдарм call-центров



# Чего от нас хотят заказчики?



CIO & IT Operations

- консолидация инструментов
- консолидация команд
- быстрого разрешения проблем
- отслеживание прогресса при миграции/внедрении



сетевики

- доказательства невиновности
- простого и быстрого поиска
- интеграции с Flow/Packet



Voice/Telecom

- Видимость транков и провайдеров
- инвентаризация и изменения
- подглядывать за сетевиками



Support

- простой процесс поиска и передачи проблем
- возможности удалённой поддержки



Line of Business

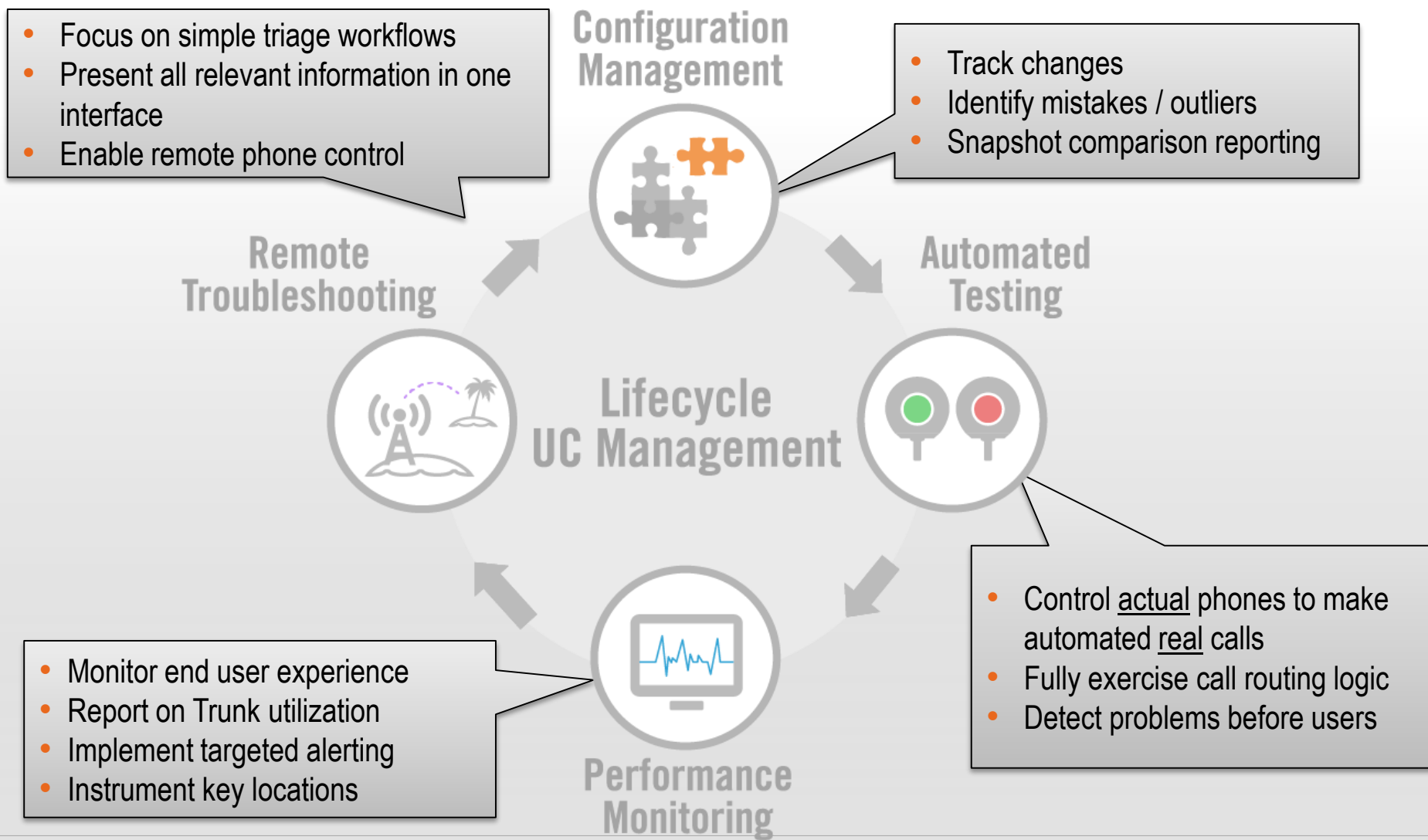
- отчёты об использовании
- биллинг



UCExpert (под  
покровом)



# Что вы знаете о 4х основах VoIP?

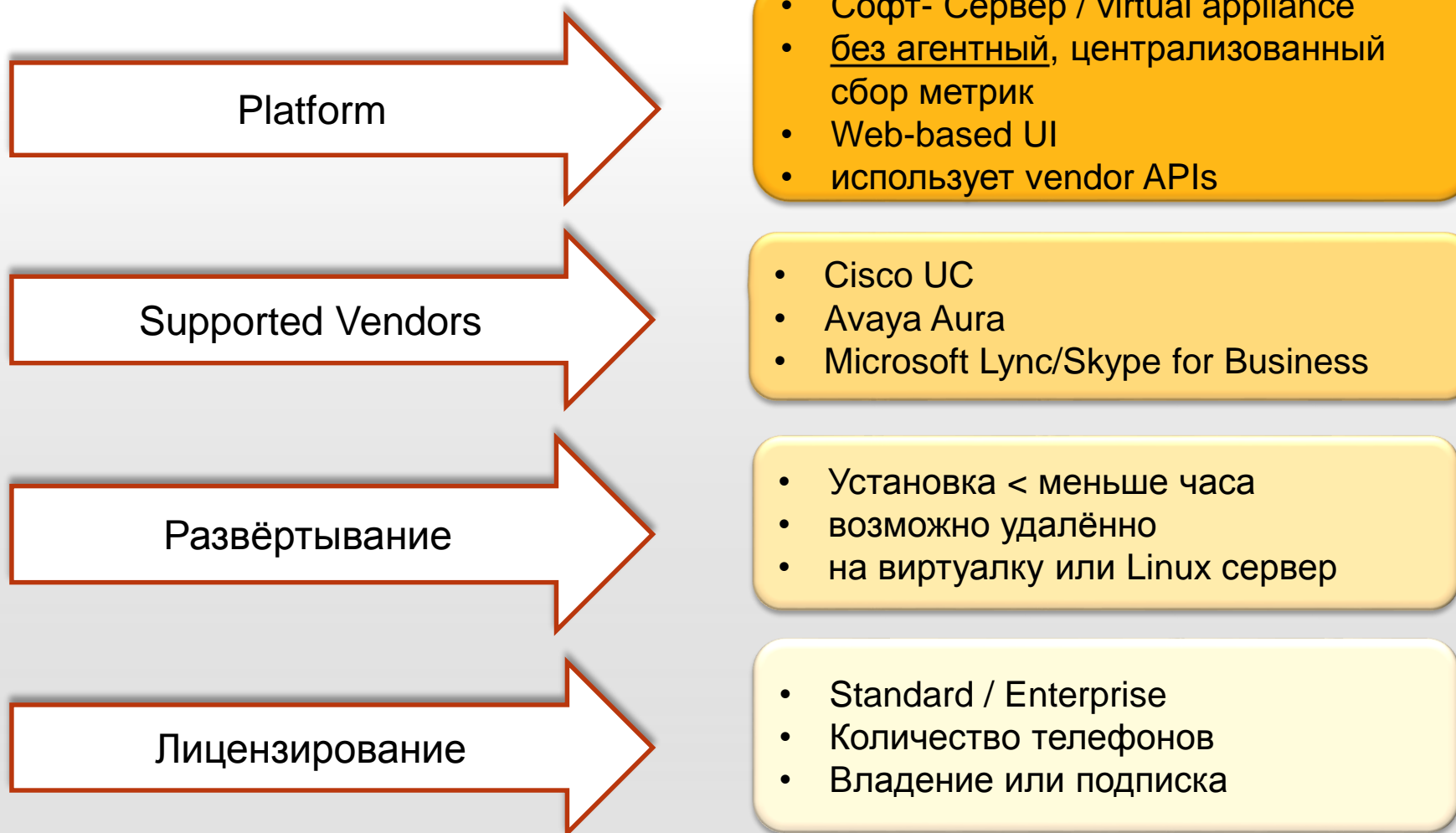


# Как это устроено?

## Это софт

- в отличие от других NPM решений, UCExpert не захватывает сетевой трафик.
- вместо этого он взаимодействует с сервером предоставляющим UC сервис для:
  - Сбора CDR и Media-Info (качество так как его видят пользователи)
  - Сбора конфигурационных данных (план звонков, настроек и т.п)
- и при этом **БЕЗ** необходимости установки доп.агентов
- к тому же, UCExpert предлагает уникальную особенность удалённо управлять телефонами для эмуляции звонков.
  - чтобы не бегать от стола к столу и не проверять работоспособность изменений и апгрейда

# маленько резюме...



# кому мы продавали до сего дня?

## Financial Services



NOMURA



## Healthcare



## High Tech & Retail

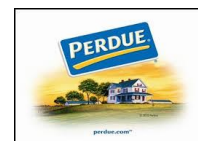


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VAN HEUSEN

## Production & Manufacturing



## Partners



PRESIDIO™  
Practical thinking for a connected world.





# Преимущества

## Видимость и удалённое управление

### Save Time

Быстрее и проще  
поиск информации

Не нужно «дёргать  
конечников» для  
проверки работы

### Cut Cost

Консолидация  
сервисов, удалённая  
диагностика

персонал поддержки  
больше успевает

### Better Quality

непосредственная  
оценка  
пользовательского  
опыта

проверка качества  
без привлечения



# UCExpert 6.0 Review

# Тема для выхода UCExpert 6.0

## Глобальная аналитика и видимость UC

- Фокус на Hosted Skype for Business (aka Lync)
- Adoption and Performance dashboards
- 1й уровень поддержки (упрощённый разбор проблем)
- Унификация поддержки для Cisco, Avaya и Microsoft UC



# Основные Драйверы (Use Cases)

## UC Adoption

- Переход от одной технологии к другой (где мы)
- Тренды использования

## Troubleshooting

- Characterize and Triage
- Device, Network, or User Mistake
- Isolate network path and location

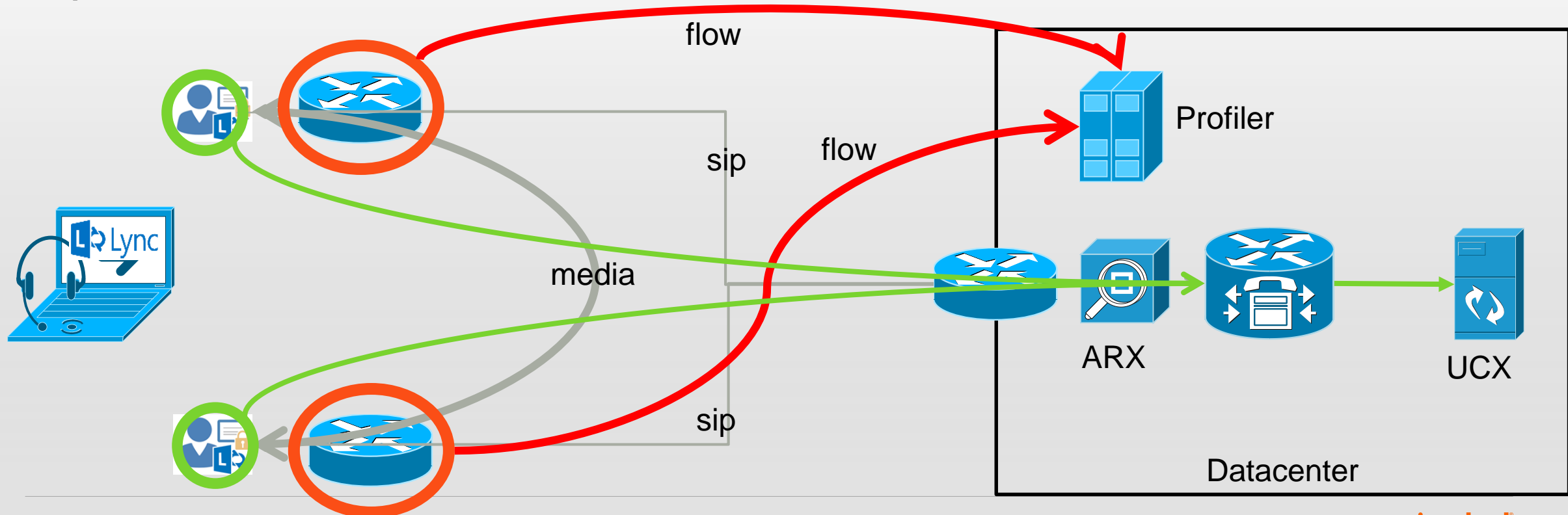
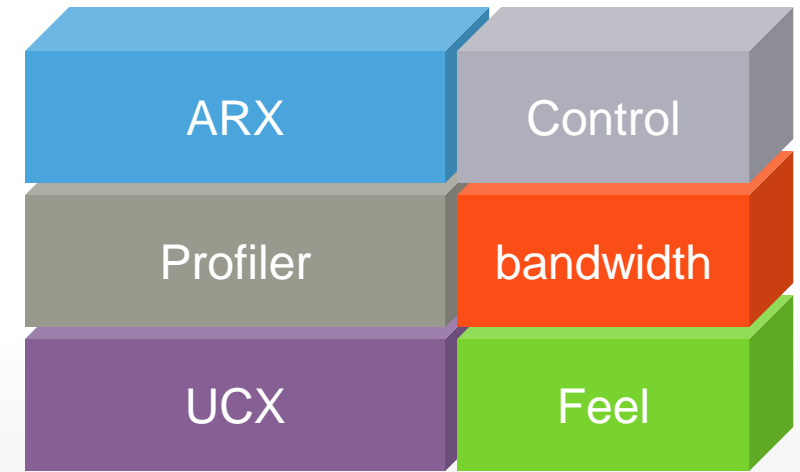
## Global Performance Visibility

- Пользовательский опыт для всего предприятия, для каждого пользователя, постоянно и дешево



# Чем смотреть UC Deployment?

- Контрольный трафик – в UC Сервер
- Проблема видимости «P2P»



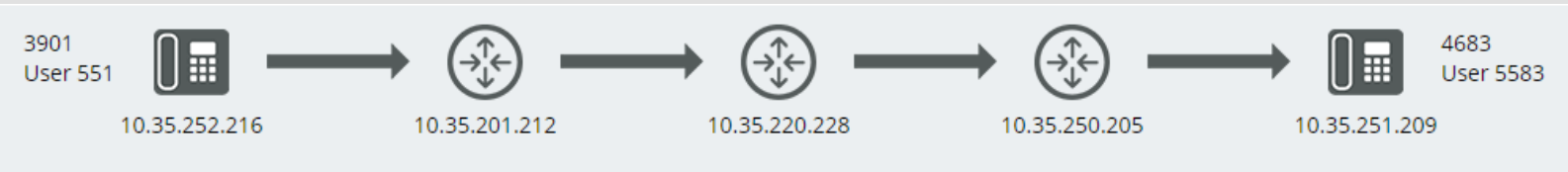
# С чего начинать поиск

- Информация о пользователе
  - Периферия (microphone, camera)
  - Местонахождение (Inside, Outside)
  - Подключение (Wireless/Wired)
  - Версия ПО и операционки
  - Версия железа и конфигурация
- Информация о вызове

Property	SanFranciscoUser173 > SanFranciscoUser132
User	SanFranciscoUser132
Extension	+14157439132
Model	RTCC/5.0.0.0
Version	Windows 6.2.9200
User Agent	RTCC/5.0.0.0
Role	callee
MAC Address	00-15-5D-C8-F4-03
IP Address	10.35.200.119
Port	16416
Connection	Ethernet
Registered Inside	true
VPN	false
Link Speed (Mbps)	4295
Operating System	Windows 6.2.9200
Operating System Arch	x64
Service Pack	0.0
Platform Type	3 (Server)
WoW64	false
CPU Name	Intel(R) Xeon(R) CPU E5-2640 0 @ 2.50GHz
CPU Cores	4
CPU Speed (MHz)	2500

Call						Calling				Called		
Start Time ↓	Duration	Outcome	Media	Codec	Type	User	Number	Model	Location	User	Number	Model
1-7-16 11:48:14 AM	7m 7s	Normal		SILKWIDE/16000	Hairpin	MSFT User 1621	4691	Lync Android	Sunnyvale	MSFT User 5826	4610	Lync Android
1-7-16 11:48:13 AM	2m 8s	Short		SILKWIDE/16000	Internal	MSFT User 5983	4630	Lync iPhone	San Francisco	MSFT User 8134	2160	Lync iPhone
1-7-16 11:48:12 AM	1m 13s	Abandon		SILKWIDE/16000	Inbound Offnet	MSFT User 7427	3265	Lync iPhone	Sunnyvale	MSFT User 631	4868	Lync iPhone

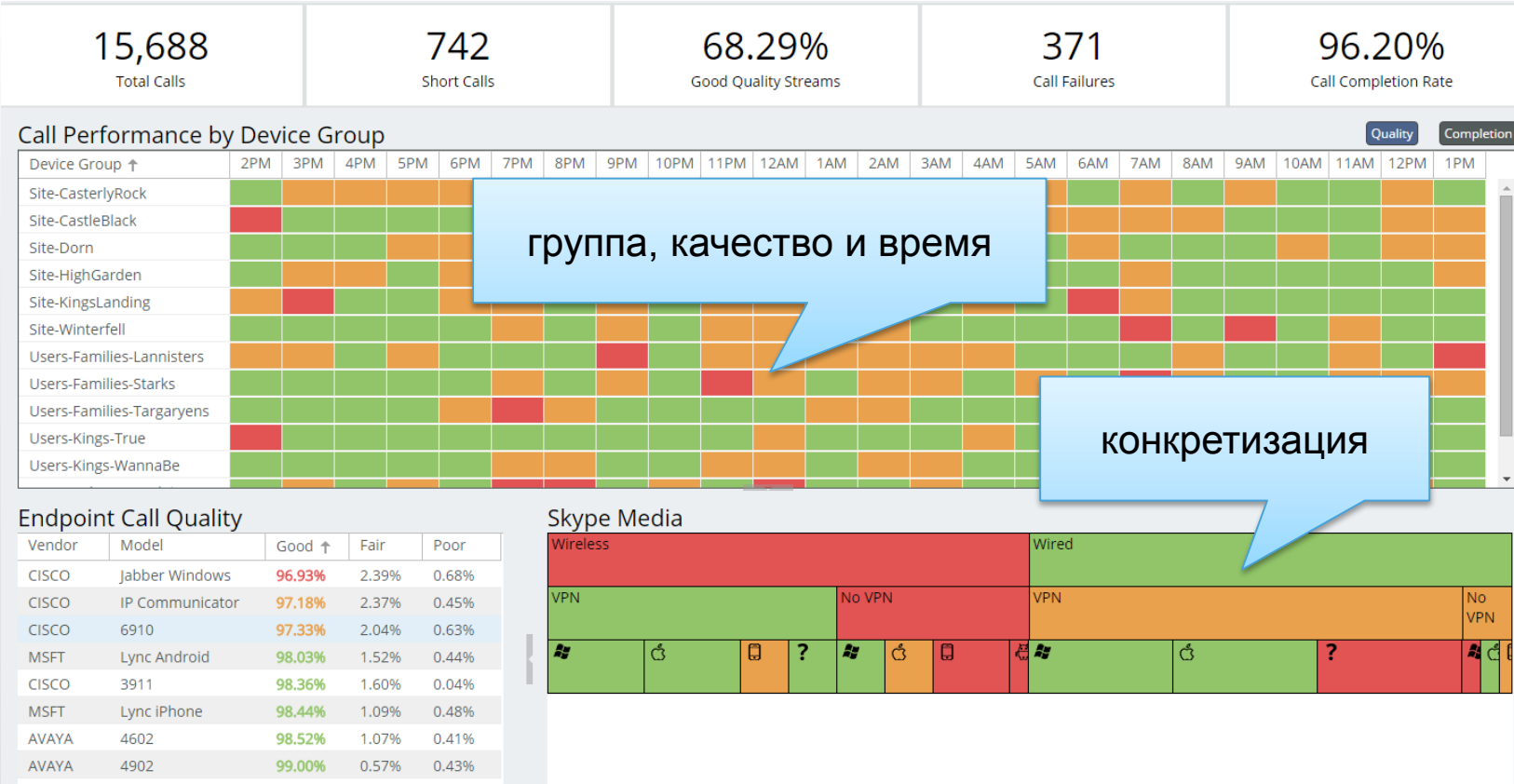
## ■ Путь звонка



# Визуализация в UCExpert 6.0...

## Статистика о качестве и использовании

- качество по группам, локациям, устройствам и типу подключения
- категоризация качества



# Детализация в UCExpert 6.0 (идём глубже)

Упрощает процесс поддержки

- Понимание есть ли проблема на сети
- изоляция проблемы в hop-by-hop сценарии

riverbed SteelCentral UCExpert

HOME MANAGE TEST

Media Search

11-3-15 12:00 AM - 11-4-15 12:00 AM

Search Remote Hands Compare Media Media Analysis

Call		Source		Destination						
Start Time ↓	Duration	Extension	User	Extension	User	Model	Version	Location	Media	Rating
11-3-15 05:36:06 PM	1m 0s	40896224672	Arya Stark	40896224641	Ray Barbieri	Skype for Business	Windows 10.0.10240	HQ	🔊	Good
11-3-15 05:36:06 PM	1m 0s	40896224672	Arya Stark	40896224641	Ray Barbieri	Skype for Business	Windows 10.0.10240	HQ	🔊	Fair
11-3-15 05:36:06 PM	1m 0s	40896224641	Ray Barbieri	40896224672	Arya Stark	Skype for Business	Windows 10.0.10565	Cambridge	🔊	Poor
11-3-15 05:15:45 PM	1m 5s	40896224672	Arya Stark	40896224641	Ray Barbieri	Skype for Business	Windows 10.0.10240	HQ	🔊	Good
11-3-15 05:15:45 PM	1m 5s	40896224672	Arya Stark	40896224641	Ray Barbieri	Skype for Business	Windows 10.0.10240	HQ	🔊	Good
11-3-15 05:10:22 PM	41s	40896224672	Arya Stark	40896224641	Ray Barbieri	Skype for Business	Windows 10.0.10240	HQ	🔊	Poor
11-3-15 05:10:22 PM	41s	40896224641	Ray Barbieri	40896224672	Arya Stark	Skype for Business	Windows 10.0.10565	Cambridge	🔊	Poor
11-3-15 05:08:53 PM	3m 35s	40896224672	Arya Stark	40896224641	Ray Barbieri	Skype for Business	Windows 10.0.10240	HQ	🔊	Good
11-3-15 05:08:53 PM	3m 35s	40896224672	Arya Stark	40896224641	Ray Barbieri	Skype for Business	Windows 10.0.10240	HQ	🔊	Good
11-3-15 05:08:53 PM	3m 35s	40896224641	Ray Barbieri	40896224672	Arya Stark	Skype for Business	Windows 10.0.10565	Cambridge	🔊	Good
11-3-15 05:08:53 PM	3m 35s	40896224641	Ray Barbieri	40896224672	Arya Stark	Skype for Business	Windows 10.0.10565	Cambridge	🔊	Poor
11-3-15 05:05:17 PM	2m 14s	40896224672	Arya Stark	40896224641	Ray Barbieri	Skype for Business	Windows 10.0.10240	HQ	🔊	Poor
11-3-15 05:05:17 PM	2m 14s	40896224641	Ray Barbieri	40896224672	Arya Stark	Skype for Business	Windows 10.0.10240	HQ	🔊	Poor
11-3-15 05:04:18 PM	4m 3s	40896224672	Arya Stark	40896224641	Ray Barbieri	Skype for Business	Windows 10.0.10240	HQ	🔊	Good

оценка, версия, jitter, packet loss

View hop-by-hop and performance charts

Page 1 of 1

Displaying 1 - 34 of 34

Hop By Hop

40896224672 Arya Stark

10.35.199.202

10.35.201.1

10.101.1.3

10.35.203.1

10.35.203.254

10.35.200.9

192.168.168.9

40896224641 Ray Barbieri



# представления в UCExpert 6.0 ...

## Изоляция Первопричины

- больше данных  
меньше гаданий
- защита «сети» в  
тех случаях когда  
сеть не виновна.

### Quality

Rating	Good
Network MOS Avg	4.1
Network MOS Min	4.1
Packet Loss Rate	0
Packet Loss Rate Max	0
Jitter (ms)	1
Jitter Max (ms)	2
RTT	2
RTT Max	6
Packet Utilization	6657
Degradation Avg	0.07
Degradation Max	0.07333231
Rec Noise Level	-48
Rec Signal Level	-25
Mic Audio Timestamp Error (ms)	0.02
Speaker Audio Timestamp Error (ms)	0.02
Conceal Ratio Avg	
Relative One-Way Latency Avg(s)	0.01

### Detailed Endpoint Performance Data

Connection	Ethernet
Registered Inside	false
VPN	false
Link Speed (Mbps)	100
Capture Device	Microphone (High Definition Audio Device)
Capture Device Driver	Microsoft: 10.0.11082.1000
Render Device	Speakers (High Definition Audio Device)
Render Device Driver	Microsoft: 6.1.7601.17514
WiFi Driver	Microsoft Virtual WiFi Miniport Adapter;Microsoft
WiFi Driver Version	Microsoft:6.1.7600.16385;Microsoft:6.1.7600.1638
Operating System	Windows 6.1.7601
Operating System Arch	x64
Service Pack	1.0
Platform Type	1(Workstation)
WoW64	false
CPU Name	Intel(R) Core(TM) i5-2450M CPU @ 2.50GHz
CPU Cores	2
CPU Speed (MHz)	2494

### Detailed Endpoint User/Platform Data

# Новые возможности в плане защиты сети

## Сетевики

“доказать что это не сеть там где это не сеть.

показать где если это всё-таки сеть.”

## Телеком/UC&C

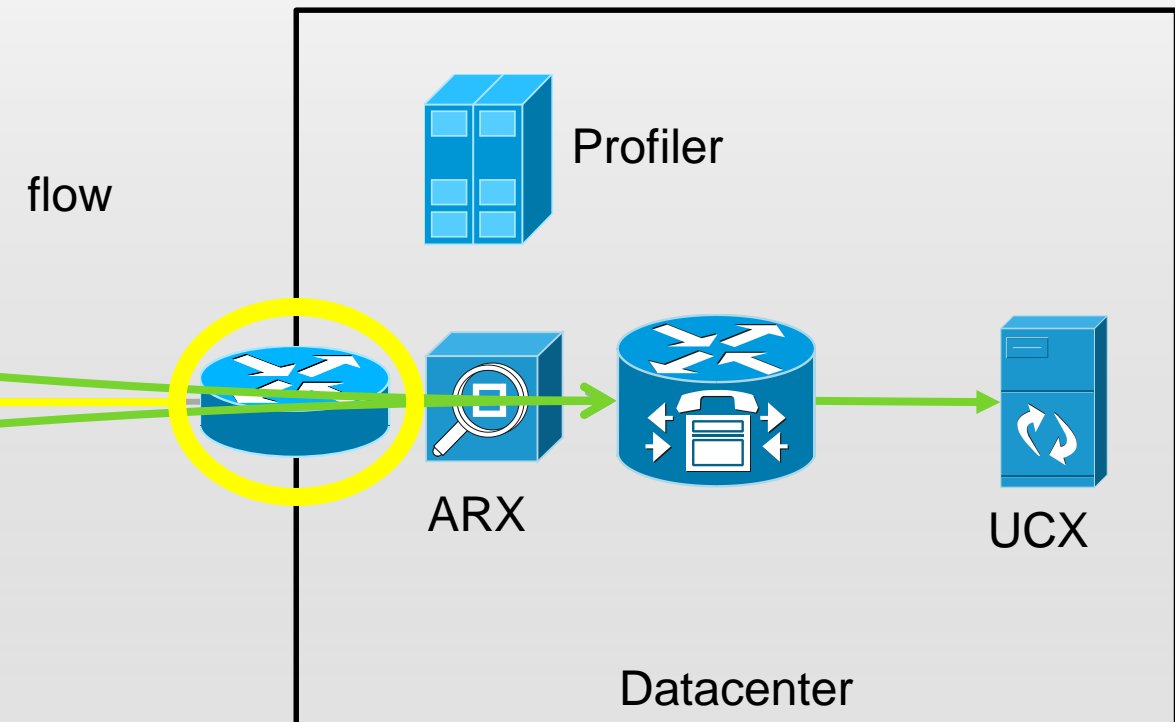
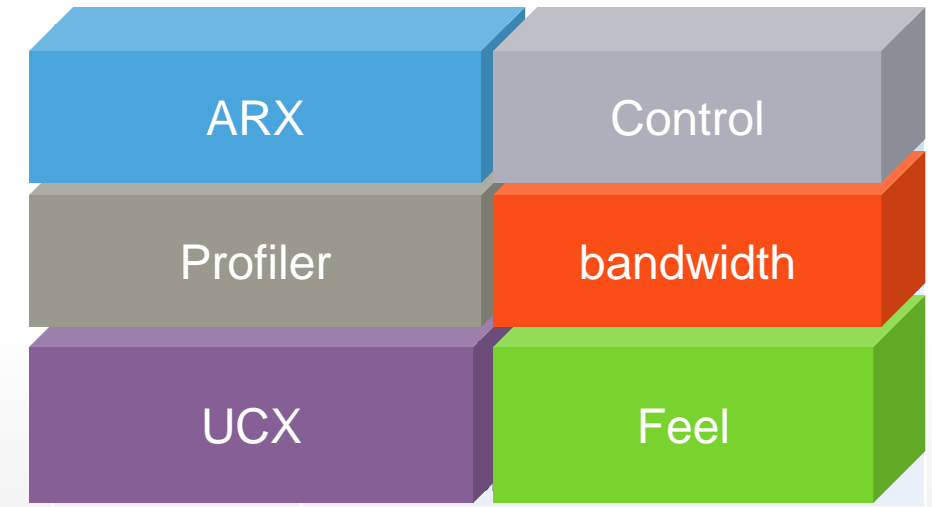
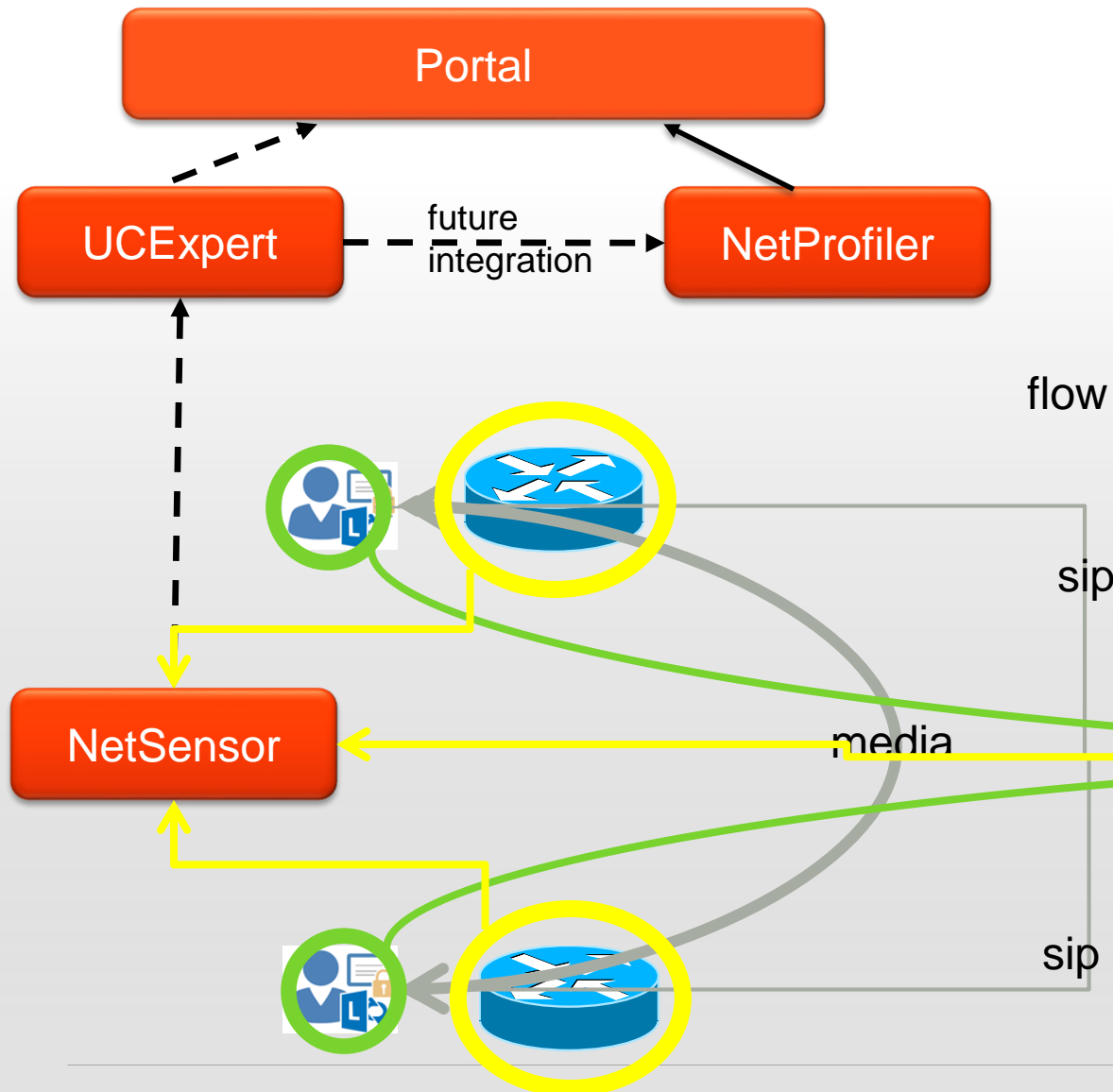
видимость в плане использования, производительности и инвентаризации.

работа над проблемами удалённо и эффективно.

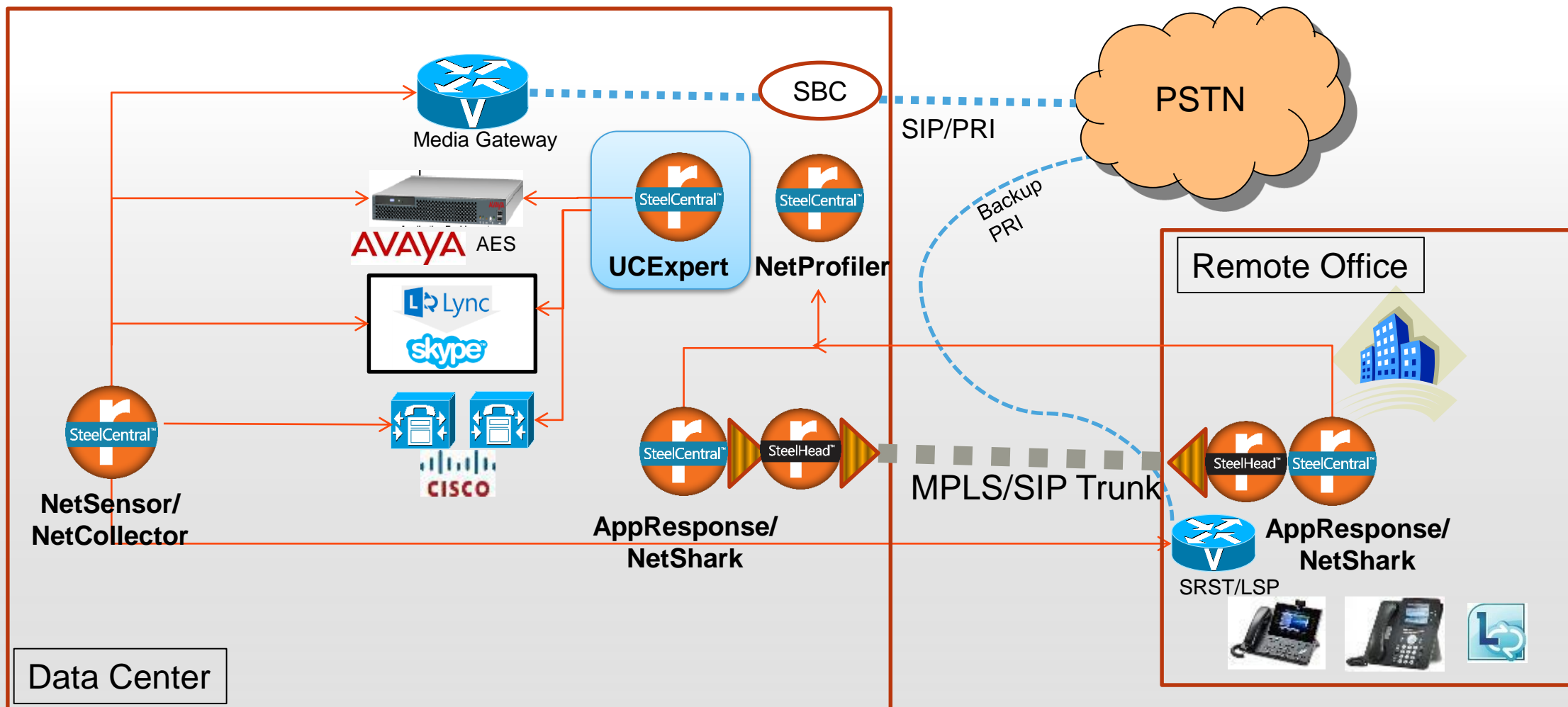
## Поддержка

Упрощённый процесс triage и «маршрутизации» заявки к правильному специалисту.

# Целостная картина?



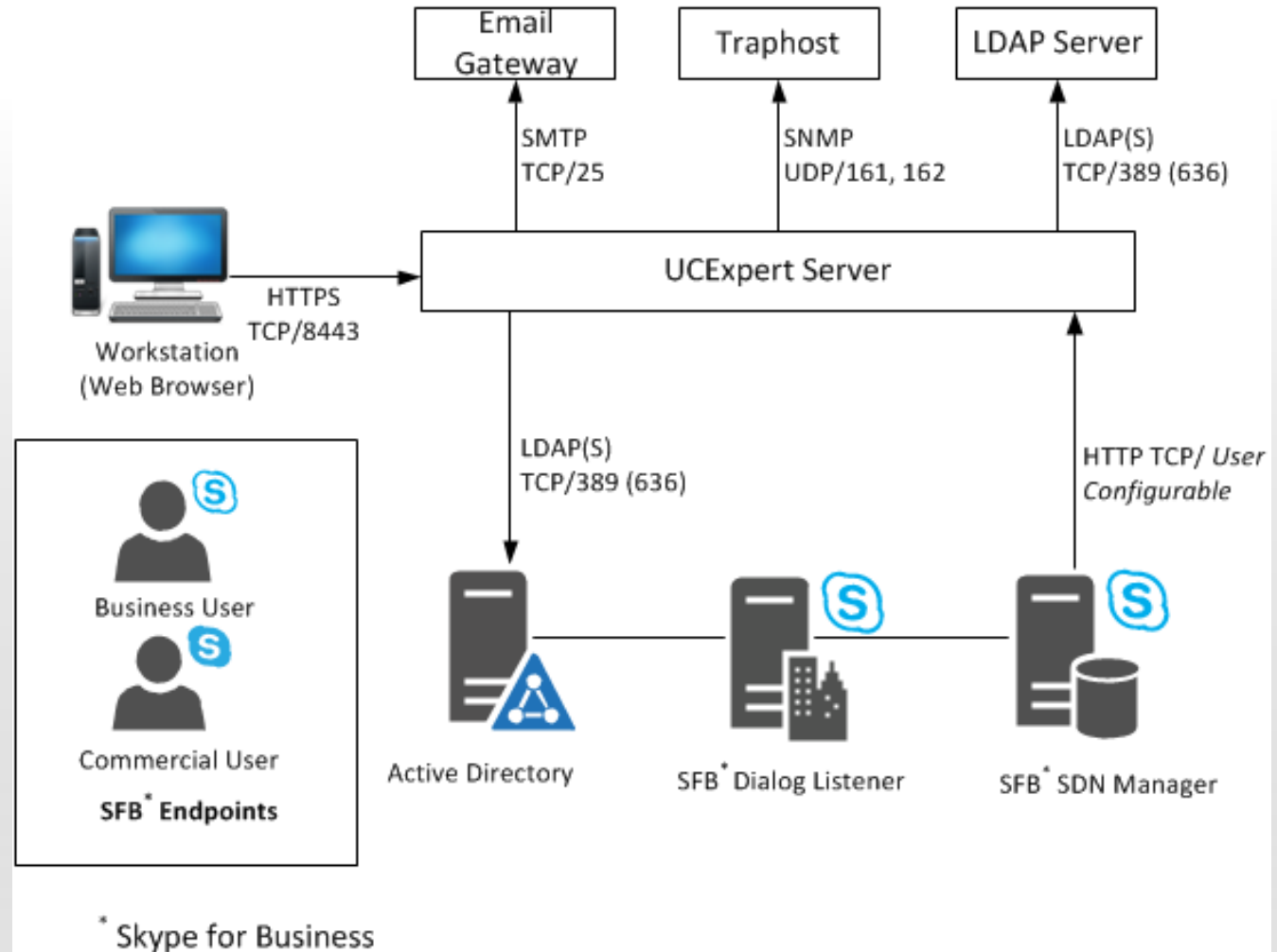
# Точки «контроля»





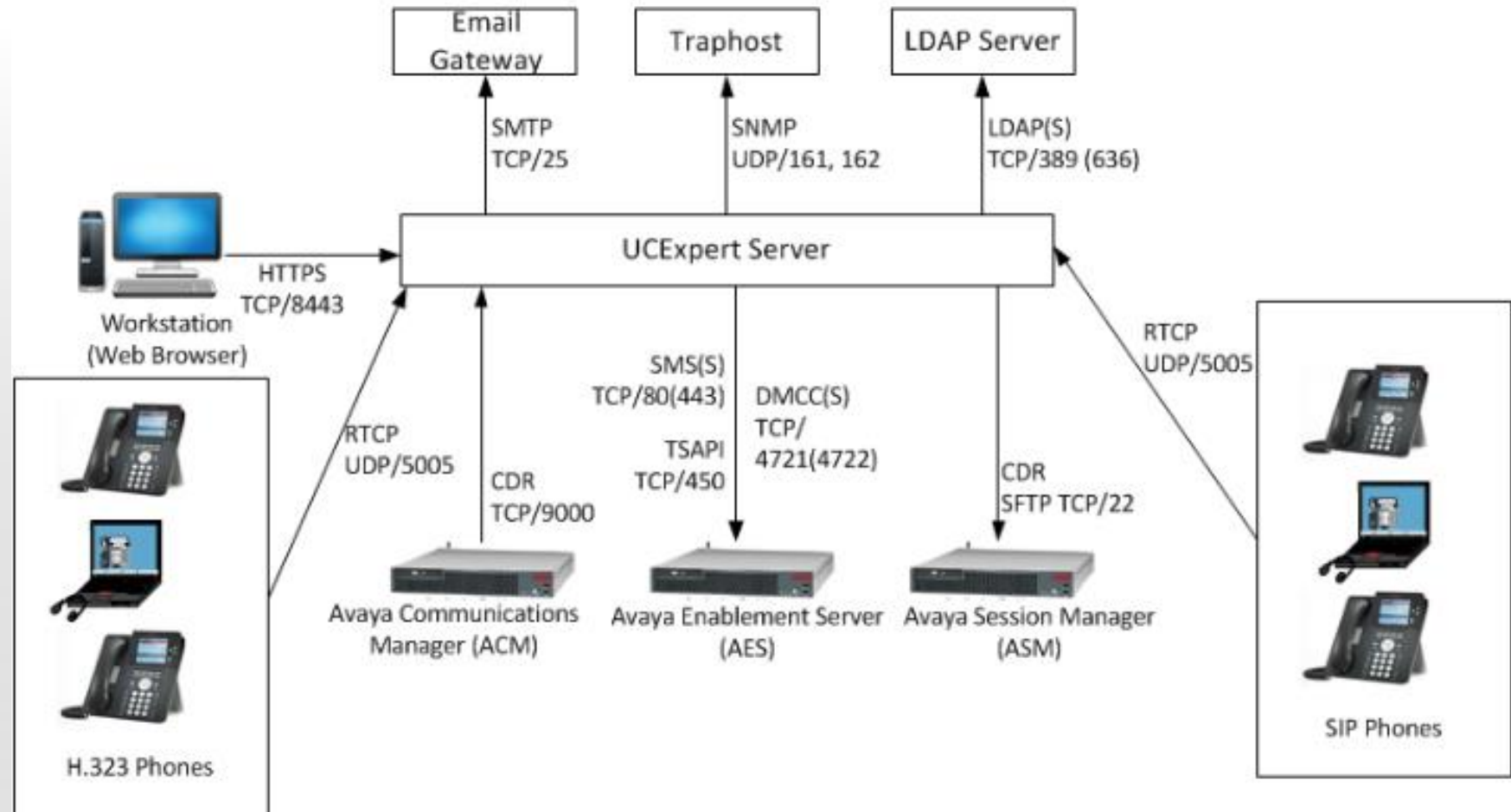
# UCExpert & Lync Integration

- Lync SDN 2.2, compatible with 2010, 2013, and Skype 2015



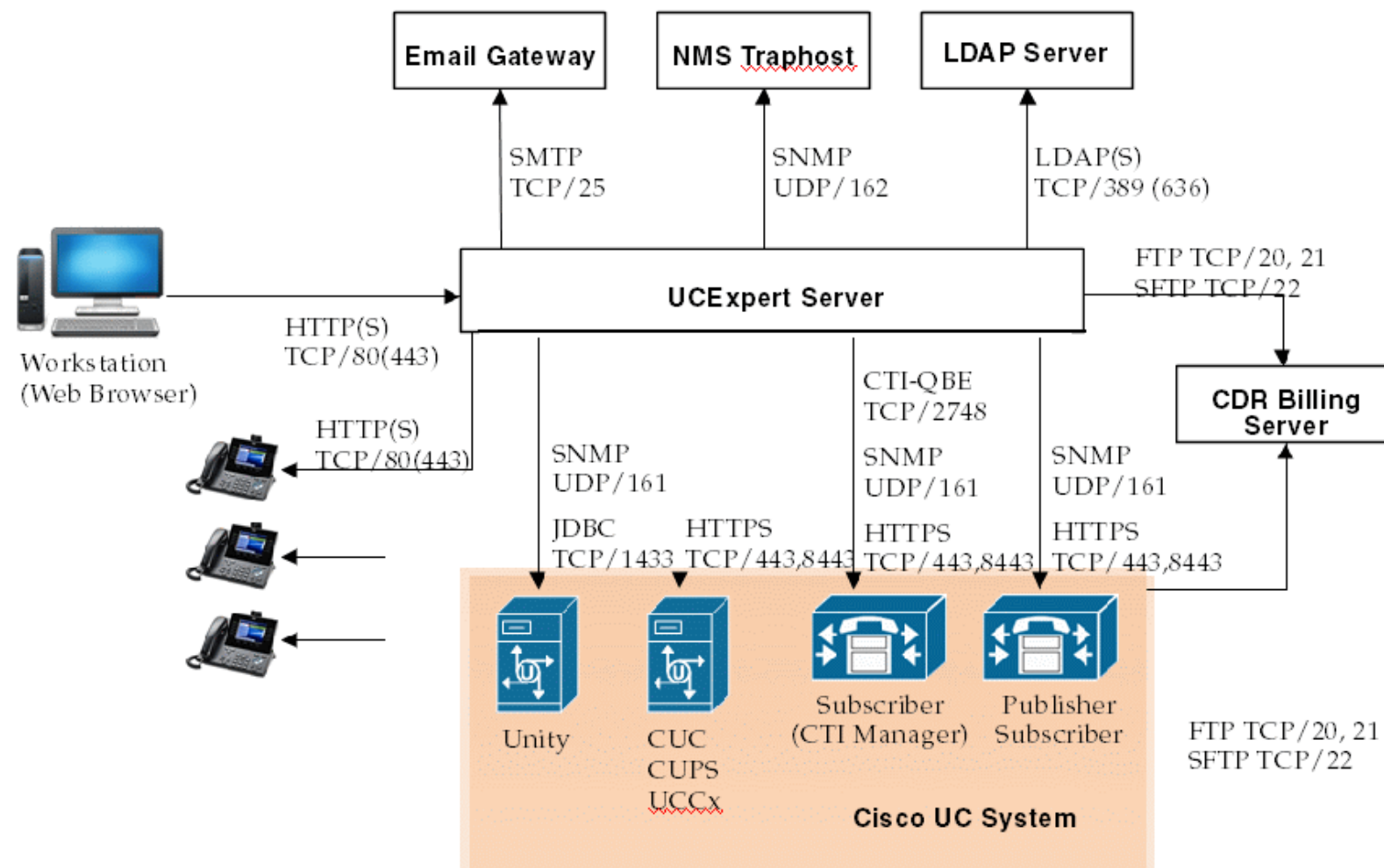
# Avaya Architecture

- Enablement Services 6.3 with DMCC and TSAPI licenses
- H.323 and SIP endpoint support (including One-X)



# Cisco Architecture

- Supports all hard phone and softphones including Jabber
- Telepresence endpoints registered to CUCM



# UCExpert: простое решение сложных UC проблем

Platform

- Software or virtual appliance
- Agentless, centralized collection
- Web-based UI
- Uses only approved vendor APIs

Демо Режим:

<https://<servername>:8443/ucxgui/?demo=true>

Licensing

- Package Type (Standard/Enterprise)
- Number of phones or users (Microsoft)
- Perpetual or subscription



# Competition

# Competitive Landscape

Only a few competitors are multi-vendor, none have true end-to-end

## ■ Single-Vendor Products

- Microsoft (Built-in Reports)
- Unify Square
- Event Zero
- Cisco Prime
- Variphy, Uplinx, UnifiedFX
- Avaya SLA Monitor

## ■ Multi-Vendor UC Products

- IR Prognosis
- Nectar

## ■ General Purpose + UC

- Netscout
- Solarwinds
- CA UC Monitor

- Full integration combining end user (UCX), flow (Profiler/Sensor) and packet (ARX/Alloy) will create a superior solution to them all

# We're Not Far from Being a NetScout Killer

## Footprint and Fluency

- NetScout is UC-fluent, they have tailored UC views
  - But requires a probe at every site - \$\$\$
- Our key differentiators:
  - Footprint
    - SteelHeads for telemetry
    - Even better, we collect data directly from the UC endpoints (no probe needed!)
  - UC Fluency
    - Become more UC-fluent in UI/workflow
    - Leverage data from multi-domains to paint a richer UC picture
      - Multi-app context, QoS, Path Selection, infrastructure health, etc





# Qualifying Customers

# “Hook” Questions

## 1. Cisco UC upgrade

- When are you planning to upgrade to CallManager 10/11?
- Do you have a way to automate that everything is working properly end to end?

## 2. Lync or Skype for Business rollout

- Are you looking to deploy Lync for enterprise communications?
- How will you monitor and troubleshoot quality problems or measure adoption?

## 3. Call Center Quality Monitoring

- Do you have issues with call quality reported by your agents?
- Are you able to effectively and remotely troubleshoot their problems?

## 4. Ticket Escalations

- Do you often find end user tickets escalated to you (network) when the network is not the problem?
- Do you have an easy way to eliminate the network as the reason or, isolate the segment and identify the root cause quickly?

# Key Terms to Listen For



# Benefits

## Complete visibility and remote troubleshooting

### Save Time

Find the information you need easily and quickly

Eliminate end user participation in troubleshooting efforts

### Reduce Cost

Consolidate support services, remotely diagnose problems

Improve productivity and efficiency with existing staff

### Improve Quality

Assess end user experience empirically

Identify and correct performance issues before users complain

Prevent outages via nightly testing

# Case Study: Novartis

## How We Beat Netscout, for Skype for Business app visibility

### ■ Timeline

- Initially \$2M+ NPM opp including ARX, Netshark, Portal, Profiler
- Deal was likely going to Riverbed
- Netscout came in and changed the strategic driver to be Skype for Business visibility
- UCX brought in to help counter-attack Netscout

### ■ Benefits of Netscout

- Central visibility and search, clean UI with UC focus

### ■ Weaknesses exposed in Netscout approach

- Appliances required for every branch (25 initially, eventually 85+), higher \$\$\$

### ■ UCX alternative

- Leveraging SDN data, cover all offices globally from a central perspective, lower total \$\$



Next Steps

# Summary

- Saturated Accounts (nothing left to sell)?
  - Talk to them about UC and their plans
- New Opportunities?
  - Include UCExpert from the start along side NetProfiler, AppResponse, etc.
  - Target UCExpert at Network & Performance Management teams, don't worry about having to find UC/Telecom groups
  - Increase competitive strength, counteract Netscout FUD



# What's Next?

- Access UC Resources to help with your accounts
  - David Roberts: UC Product Manager
  - Hemant Seth: Center of Excellence technical resource
  - Ajay Ramachandran: pro services UC specialist



# Thank You

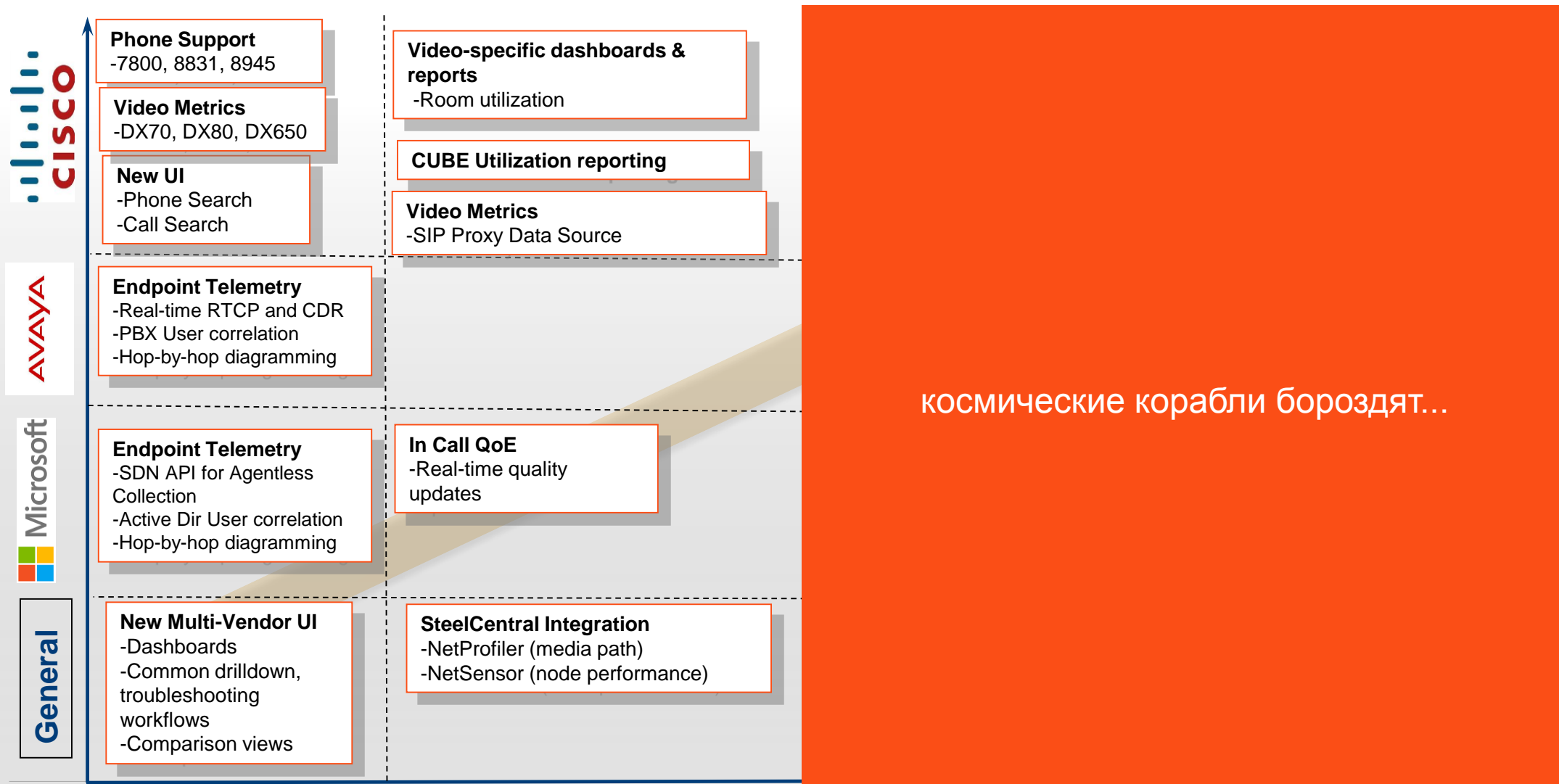


# SteelCentral UC Roadmap

# Important

*This roadmap is for information purposes only and is not a commitment, promise or legal obligation to deliver any new products, features or functionality. The development, release, and timing of any features or functionality described remains at Riverbed's sole discretion.*

# UCExpert Roadmap by Vendor



# UCExpert Roadmap

## *Multi-Vendor EUE*

- Avaya, Cisco, Lync/Skype QoE EUE
- Global visibility, all calls, all locations
- Troubleshooting workflows
  - Call Failures
  - Call Quality
  - Hop-by-hop media path
- Reporting
  - Call Usage & History
  - Quality Analysis
- Performance and Adoption Dashboards

## *Intelligent Path Analysis*

- Portal
  - Publishing UC EUE metrics
- NetProfiler Integration
  - Correlate with netflow interface QoS markings, existing API
- NetSensor Integration
  - Path and node health
- SSO/SAML authentication

## *Call Correlation* *+ Contact-center focus*

- AppResponse-UCM Integration
  - Steelflow/CDR collection
  - Ladder diagrams
  - Call stitching & federated search
- SBC Data sources
- UCX Baselining and Alerting



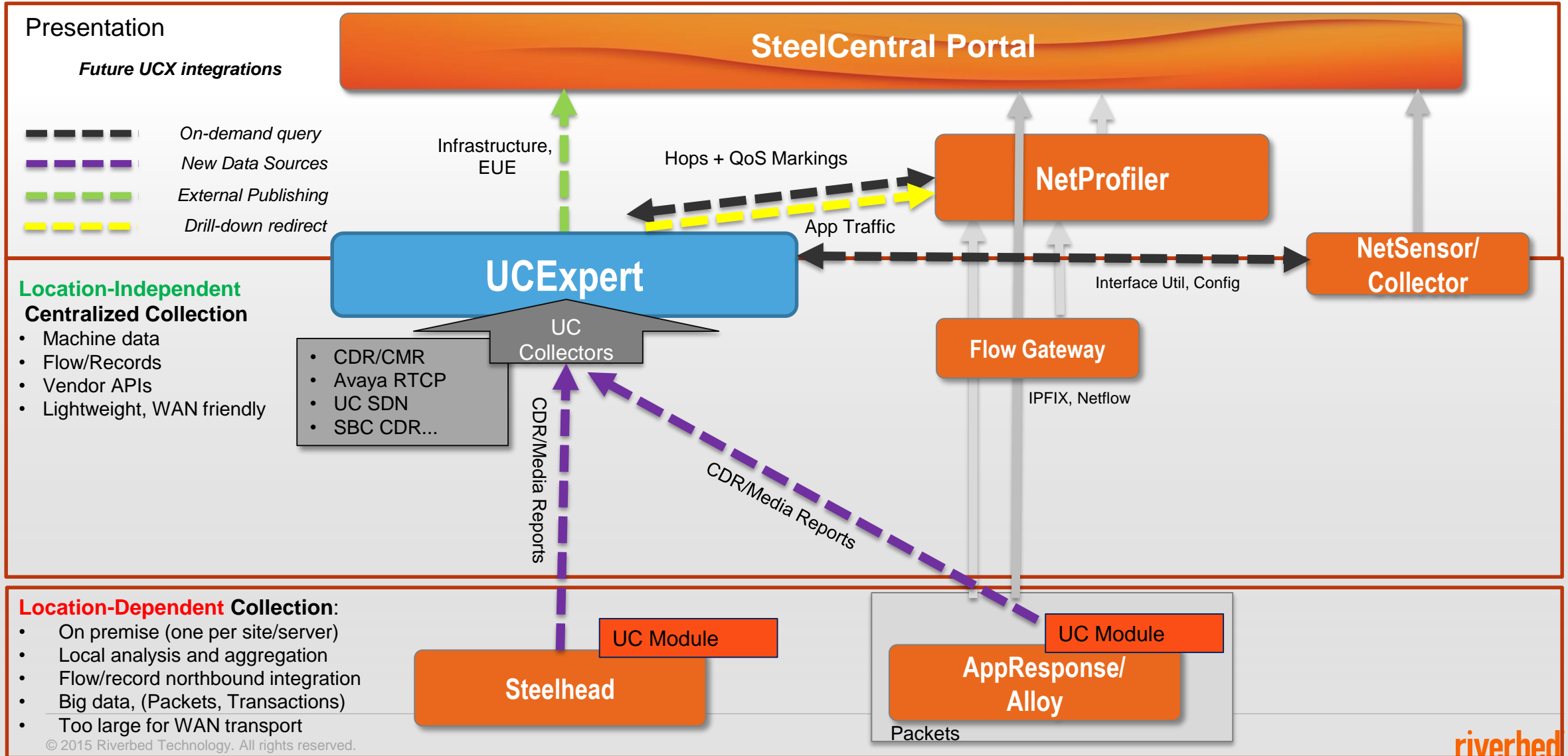
In Beta

**6.0 BRAZOS**  
**Q1 2016**

**CONGO**  
**Q3 2016**

**DANUBE**  
**H1 2017**

# UC360 Integration Roadmap

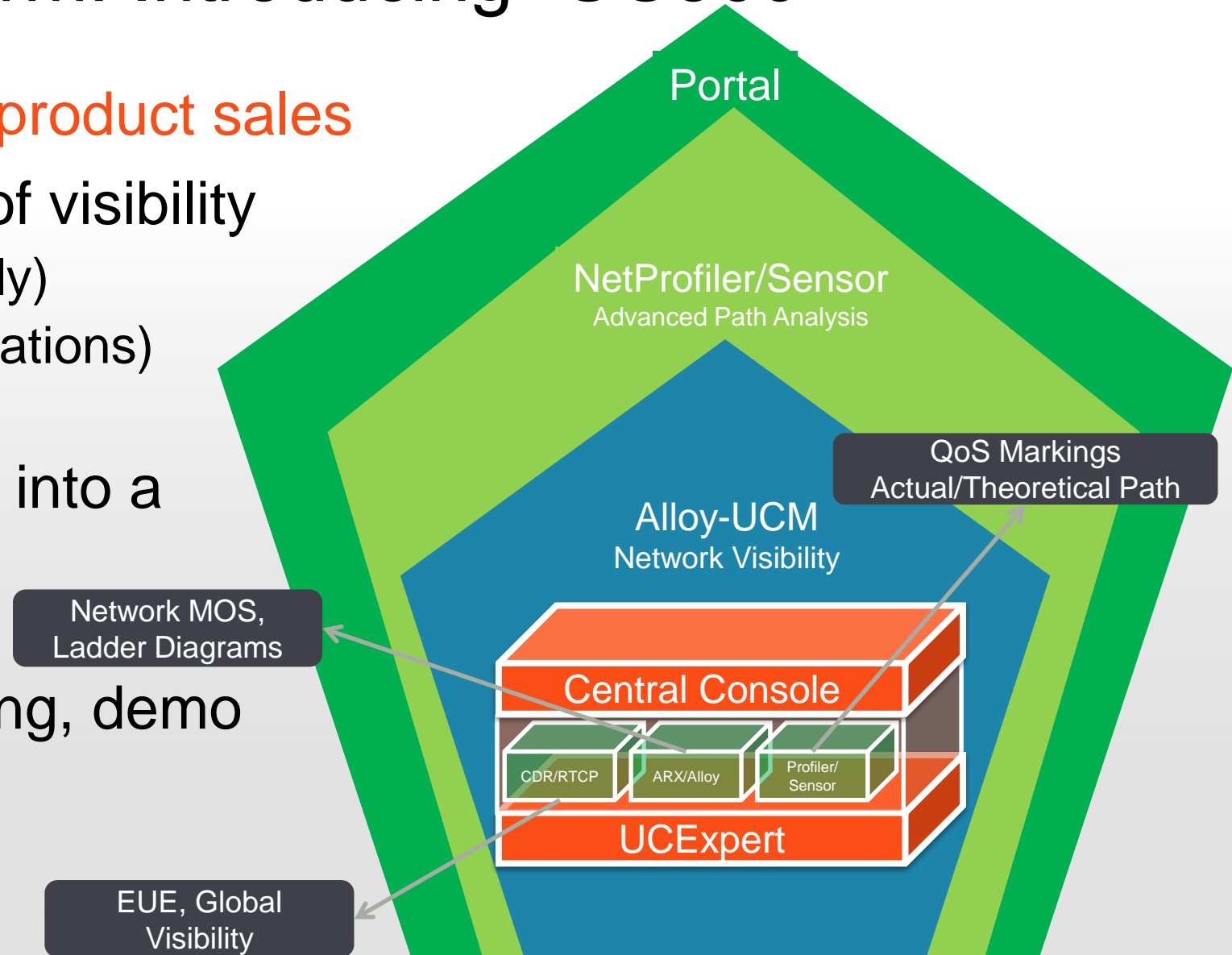




# Our Future UC Platform: Introducing “UC360”

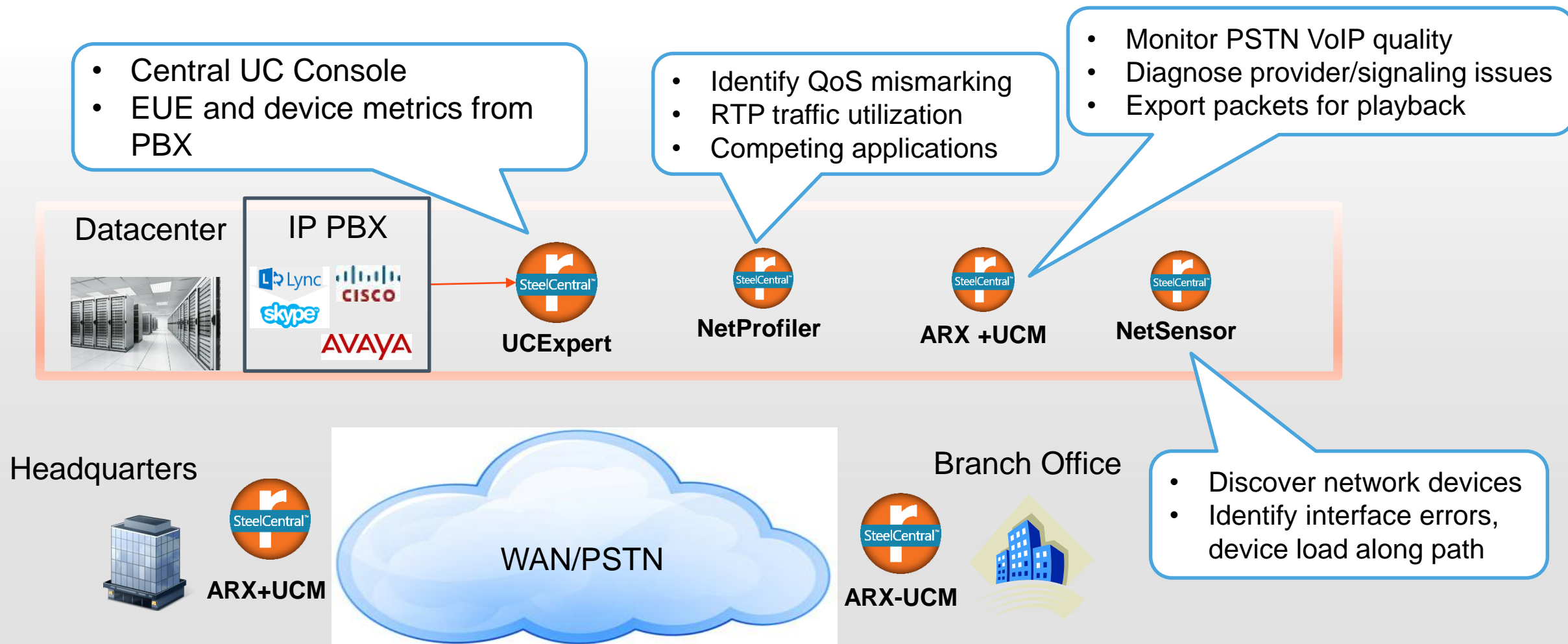
## One Solution, drive multi-product sales

- Modular, multiple levels of visibility
  - Level 1: Standard (UCX only)
  - Level 2: Enterprise (+integrations)
- Integrates all capabilities into a single UI/workflow
- Greatly simplify messaging, demo
- Beat Netscout



# What's our "UC Solution" Today?

Great technology, not integrated, difficult story to tell



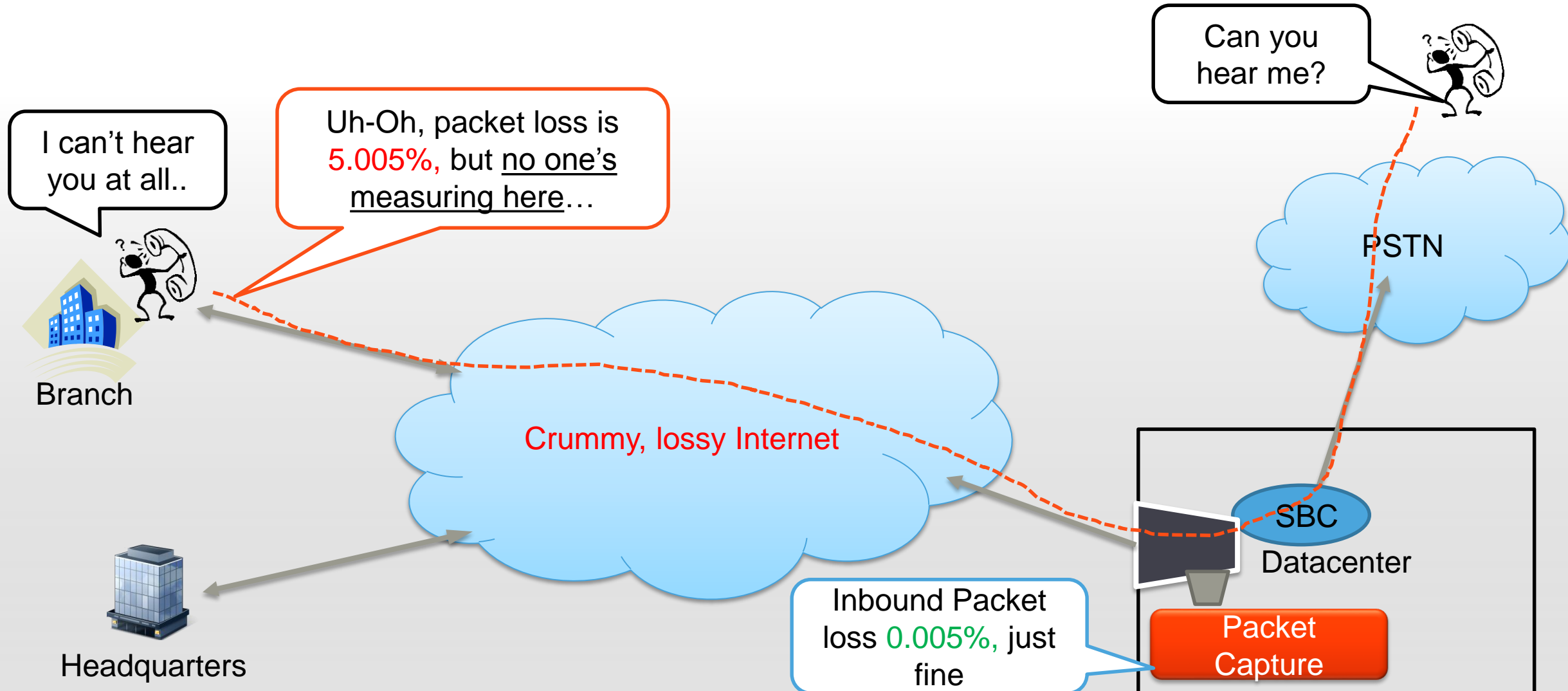


# VoIP 101 Primer

# Why is VoIP traffic unique?

- Call signaling uses well known TCP protocols (H.323, SCCP, SIP)
- The Media portion (RTP) is not like typical client-server apps, it's peering between VoIP endpoints, either physical or soft devices
- RTP is digitized audio/video data sent via UDP, not TCP
- Audio/Video is Coded and then Decoded at each endpoint
- Both signaling and media may (and are more often) encrypted making them difficult to analyze

# The importance of properly deployed instrumentation

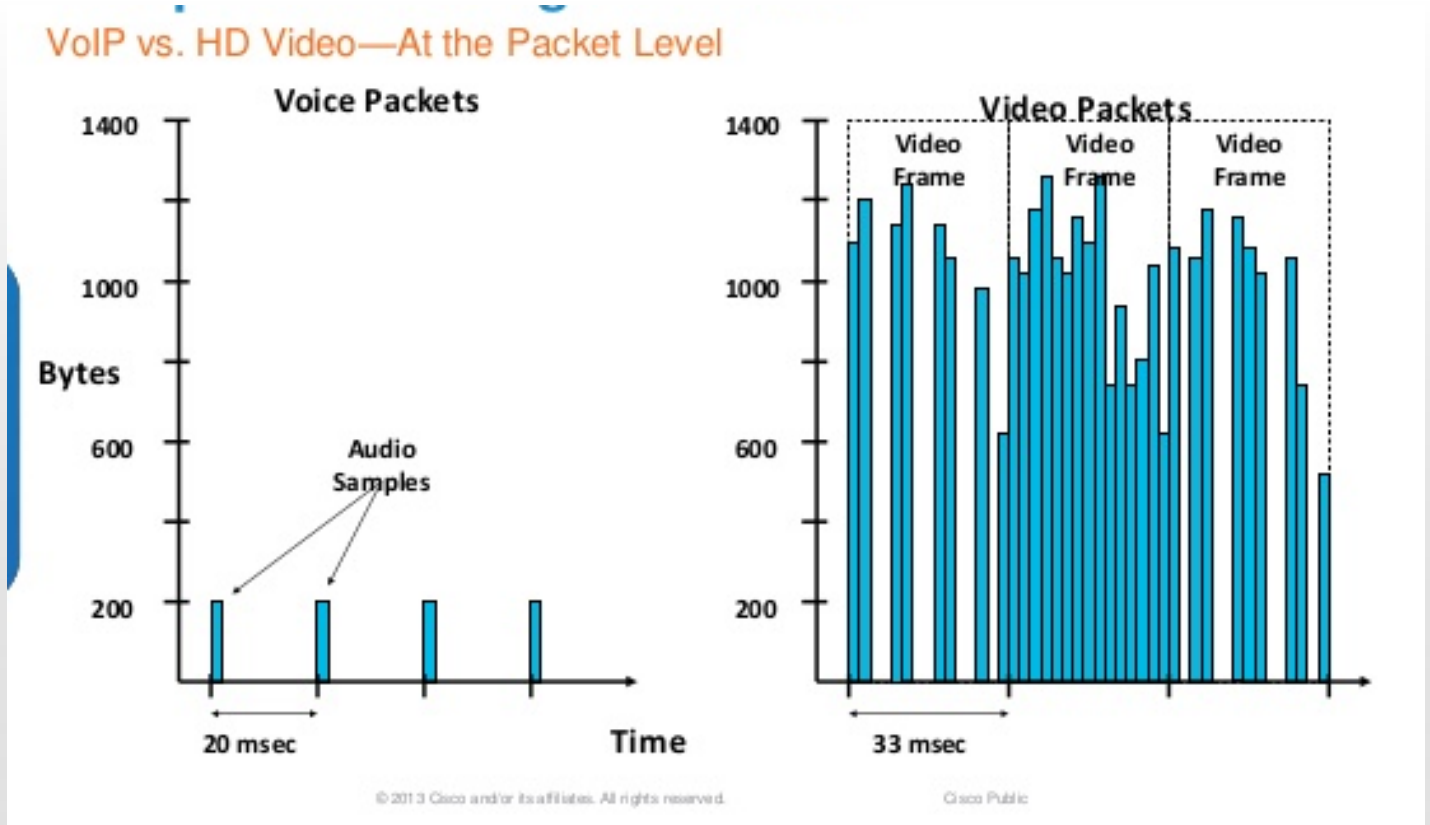


# VoIP is very susceptible to network imperfections

- Media is sent over UDP and are only useful if they arrive in time.
- VoIP/Media is highly sensitive to latency and packet loss
- QoS is a critical factor in network design for VoIP. Real-time media is marked as the highest priority traffic (EF).
- Transcoding is sometime the culprit. Transcoders convert (resample) media from one codec (compression) to another.

# How do Video and VoIP differ on the network?

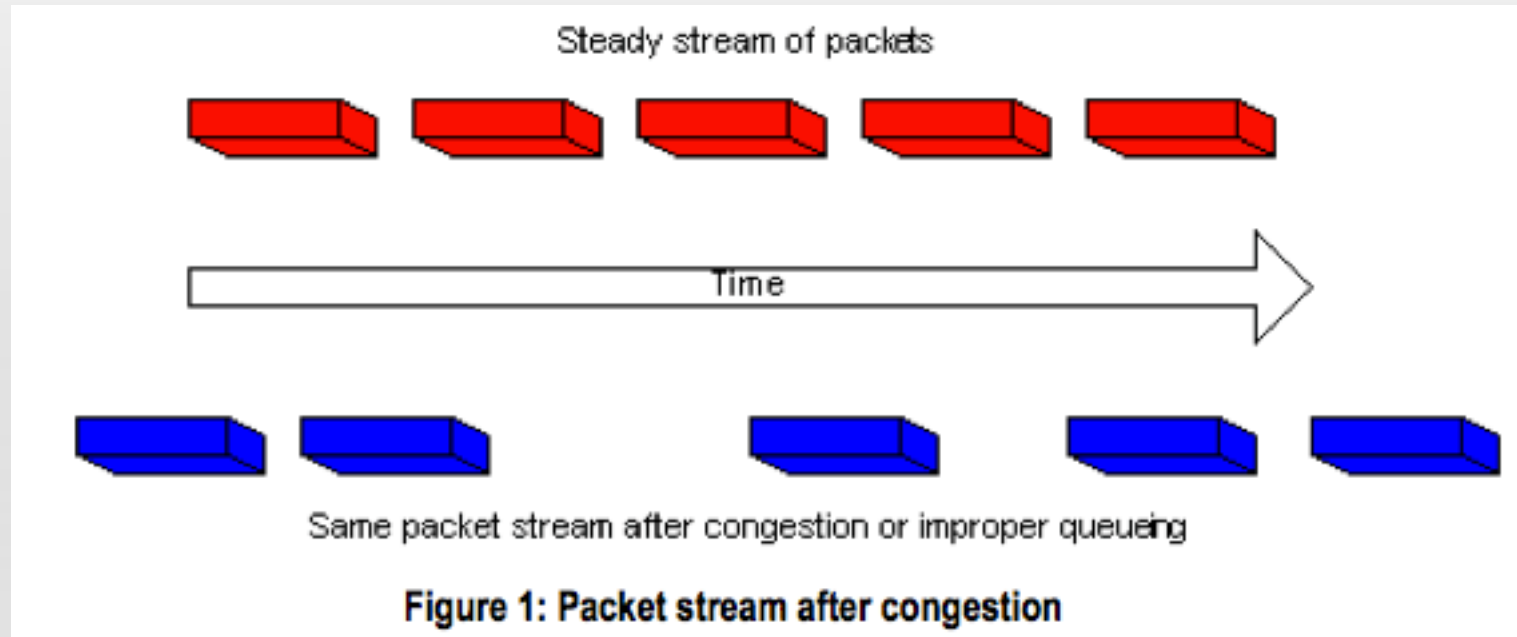
- VoIP (audio) is much lower and steady bandwidth
- Video is higher and bursty bandwidth. Usage varies with content.
- Video codecs may dynamically adjust on the fly.
- Video is much more susceptible to imperfect network conditions





# What is Jitter?

- Jitter - variation in the amount of time it takes for packets to travel between endpoints. Jitter can be caused by network congestion, timing drift, or route changes. For real-time applications, variations in arrival time can translate into lower voice/video quality.





# Monitoring VoIP 101

# What is the need we are hearing?



## CIO & IT Operations

- Consolidate tools
- Promote team collaboration
- Reduce fire-fighting situations
- Improve team efficiency
- Offer visibility into usage and adoption



## Line of Business

- User Call Usage Reports
- Client billing (e.g. law firms)



## Network

- Tired of network-blame
- Simple troubleshooting
- Integration with packet/flow tools



## Voice/Telecom

- Trunk and provider visibility
- Inventory management & changes
- Sufficient “network” level insight



## Support

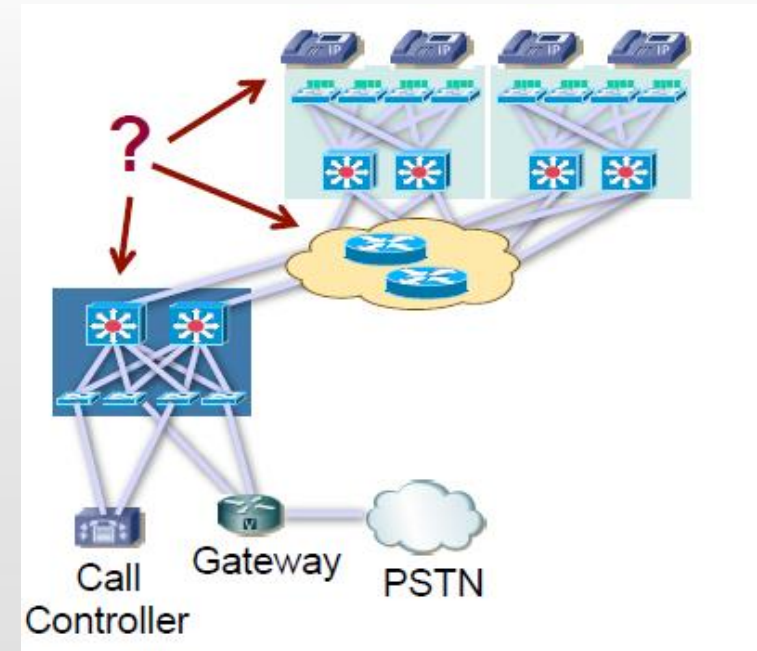
- Simple, repeatable workflows
- Remote support capabilities
- Ability to triage ticket (network, desktop, server)

# Measuring VoIP quality requires a unique approach

- The most common, troubling, network-related issues of VoIP communication are associated with real-time media quality
- Other issues also exist around signaling, especially communicating with service providers over SIP trunks
- Unlike traditional TCP/client-server applications (where data center collection suffices), you must measure media performance at different locations.... where the users reside

# The Five Steps to Resolution

1. Detect
2. Characterize
3. Scope the Size & Impact
4. Isolate and Determine Cause
5. Resolve and Prevent



# What Tool Technologies Are Available?

Use the right approach for the problem

## NETWORK-BASED

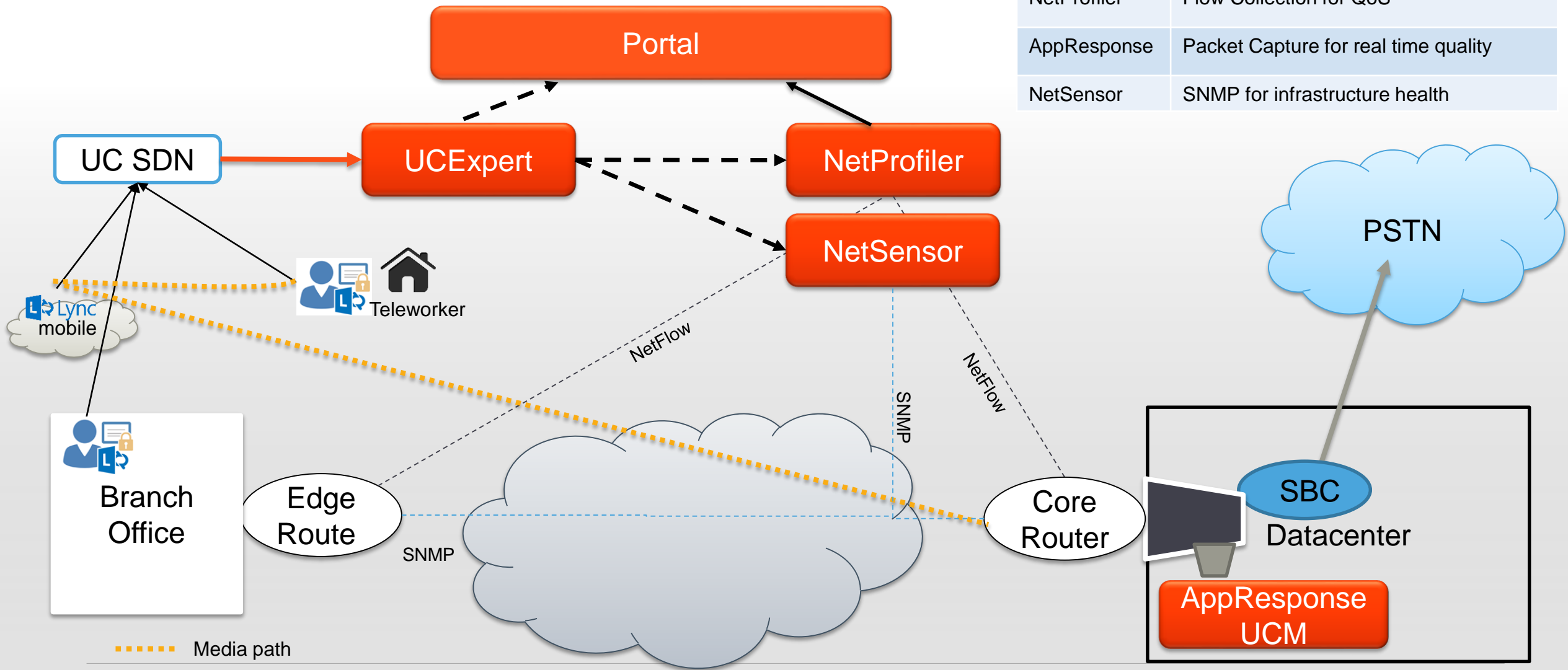
- Packet capture
  - Signaling messages, delays and establishment problems
  - Real-time analysis of media quality at point of observation
- Flow collection
  - Interface utilization, QoE marking
- Infrastructure monitoring
  - Collect and analyze data from infrastructure elements
  - Track configuration changes

## APPLICATION-BASED

- End User Reports (CDR)
  - Experience quality by the end user
  - Device performance, user mistakes
- Synthetic calls, traffic generation
  - Simulate media streams (IPSLA) for single path and time
  - Simulate real calls, to test full application stack and logical routing
- Log Files
  - Application and device errors
  - Blocked calls
  - Trunk negotiation problems

# The Riverbed UC Solution

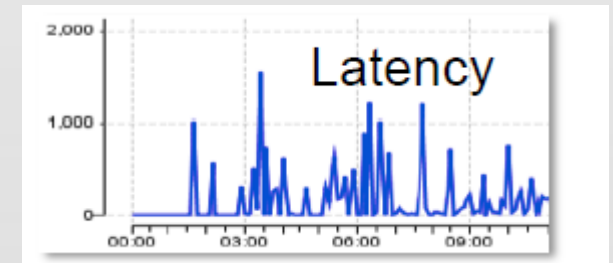
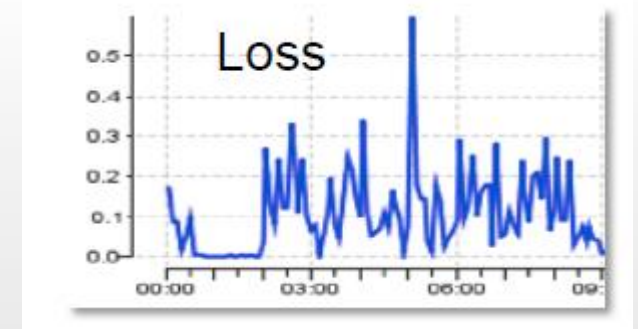
Product	Benefit
UCExpert	End User Reports, Synthetic testing
NetProfiler	Flow Collection for QoS
AppResponse	Packet Capture for real time quality
NetSensor	SNMP for infrastructure health





# What Information Do I Need?

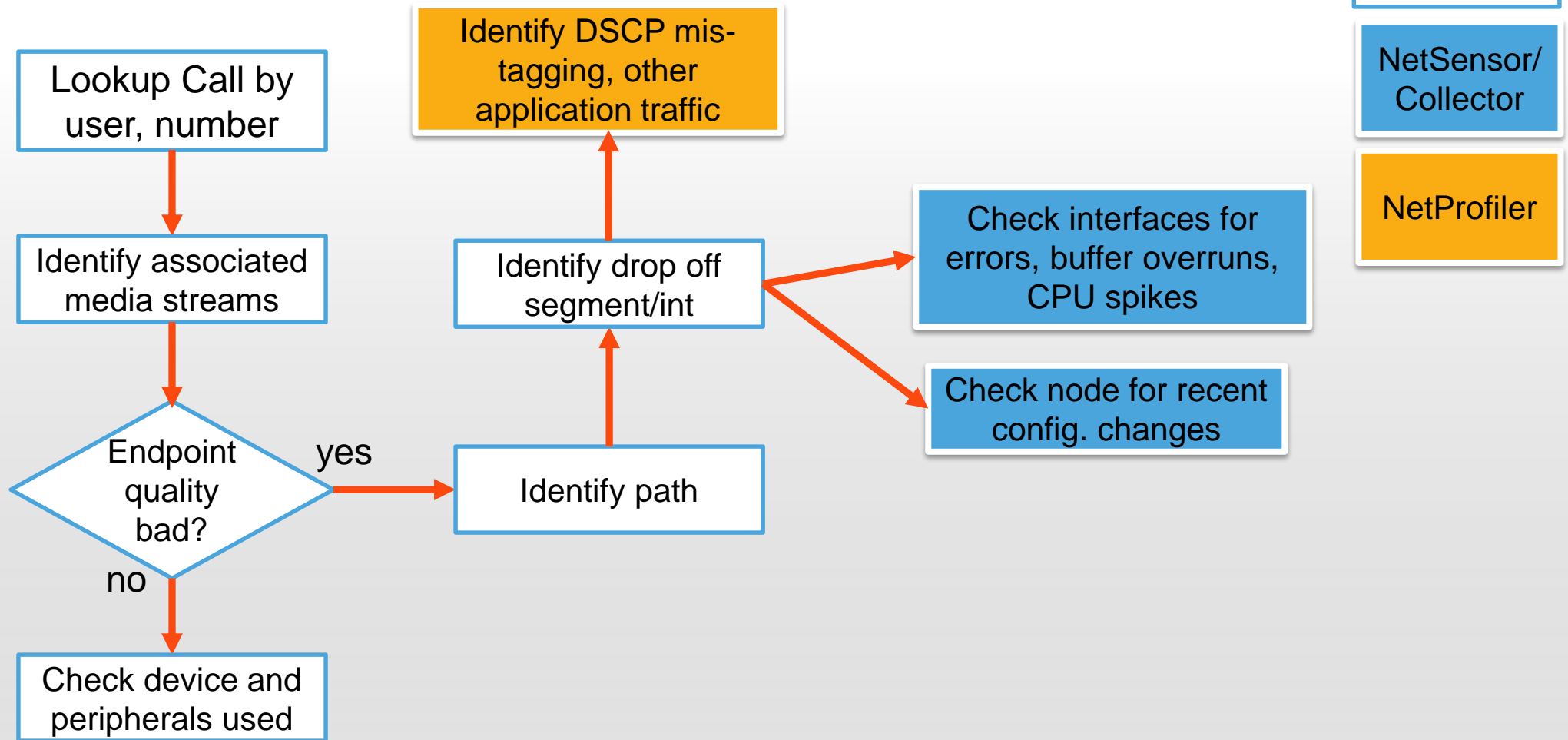
- Signaling: call setup and termination
  - Media traffic factors: delay, jitter, and packet loss
  - Many things influence these factors
  - Identifying the source of problems can be difficult
- •Monitoring QoE
  - Use simulated calls
  - Monitor real user calls
  - Both?
- Provide *Actionable Information*, not *Data*
  - Don't overwhelm the network manager



# What is needed for the complete solution?

- Media quality measurements
  - EUE - automatically everywhere
  - Packet – VoIP Call Analysis (VCA) strategically placed (datacenter, HQ, contact centers)
- Hop-by-Hop (Media path) information, some options
  - EUE-based traceroute from the endpoint
  - Netflow correlation of UDP flows with EUE
  - Theoretical traffic path (NetSensor pathview)
- Infrastructure Element Performance/Health
  - NetSensor/Collector

# Workflow: Diagnose 'Bad Call'

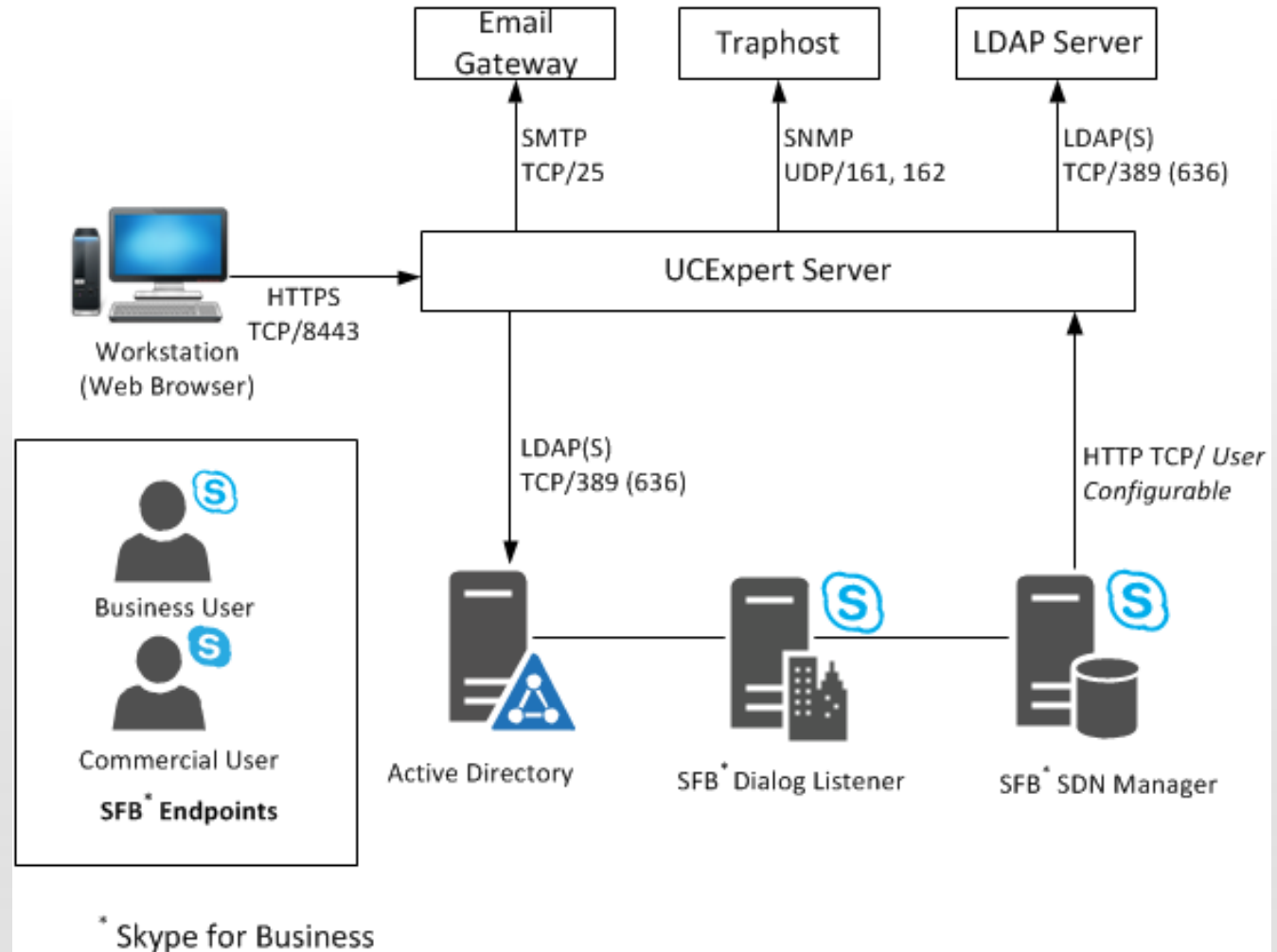


# Breaking it down, key needs and components

	Availability	Setup	Experience	Usage
Description	Ability for endpoint to be used (online/offline)	Ability for users to make or receive calls	Ability to monitor call/session quality as experience by the end user.	Ability to measure use of communication platform over time, by logical groupings (locations, users, and modalities)
Dependencies	<ul style="list-style-type: none"> <li>-Back-end servers</li> <li>-Network connectivity</li> </ul>	<ul style="list-style-type: none"> <li>-UC application configuration</li> <li>-Service providers</li> </ul>	<ul style="list-style-type: none"> <li>-Recording/Playback devices</li> <li>-Network transport</li> <li>-Transcoder performance</li> <li>-Endpoint performance</li> </ul>	
Measurement Approach	Vendor KPI	EUE, Signal DPI	DPI, EUE, SNMP	EUE
Product(s)	NetSensor, UCX	UCX, ARX	UCX, ARX, NetSensor,	UCX

# UCExpert & Lync Integration

- Lync SDN 2.2, compatible with 2010, 2013, and Skype 2015



# Netscout vs. SteelCentral UC360

Key Feature	Netscout	SteelCentral UC360
Execute VQ Dashboard	Yes, in Voice/Video Manager (VVM)	UCExpert/Portal partial, incomplete
Probeless Solution	Missing	UCExpert
VQ Call Path Hop-by-Hop	Native graphical in VVM	UCExpert partial, incomplete
Payload RTP Analysis for content issues	Yes, using Psytechnics	Yes, in ARX using Telchemy VQMon
Vendor-specific CDR and endpoint data	Supports Cisco, Lync, Acme, IBM rolled up to VVM	UCX supports key vendors in 6.0

# NPM Lync/Skype ID and Metrics

App	Description	Usage	QoS	Quality	
<b>Media</b>	Voice and Video calls between Lync clients	SH, NS, ARX			
<b>Audio</b>	Voice calls between Lync clients if the control channel is <b>not</b> encrypted	Yes			
<b>Video</b>	Video calls between Lync clients if the control channel is <b>not</b> encrypted	Yes			
<b>Share</b>	File and application sharing between Lync clients	Yes			
<b>Control</b>	Login, presence and IM	Yes			
<b>Audio Sec</b>	Voice calls between Lync clients if the control channel <b>is</b> encrypted	No			
<b>Video Sec</b>	Video calls between Lync clients if the control channel <b>is</b> encrypted	No			

Same L7 Identification available in Steelhead, NetShark and ARX  
Decode Procera NAVL engine used



# UCExpert Reset Strategy

## *Previous*

- Focus on Telecom User/Buyer
- Not aligned with NPM strategy & excluded from SteelCentral messaging
- Exclusive focus on channel enablement as road to success
- Cisco UC market segment



## *New*

**Common NPM Buyer**  
targeting network team, EUE for UC

**Solution Selling**  
Integration with NetProfiler, Alloy, and Portal

**Investment in RB & Partner Sales Training**

**Skype for Business Focus**  
in addition to Cisco, Avaya