



The Power of We™



Corporación Universitaria para el Desarrollo de Internet A.C.  
Internet 2 - México

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# Videocolaboración en la Nube

## Una solución para CUDI

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# Agenda

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1. Introduction to Cloud Enablement for Video

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2. Scopia Product line

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3. Design and Deploy

---

4. Summary

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# Soluciones de video Avaya para la nube



Foco en ofrecer el servicio, no en construirlo.

# Cultura laboral en cambio constante

## Equipment



Rooms

TP Systems

Executive EP

## Connectivity



MPLS

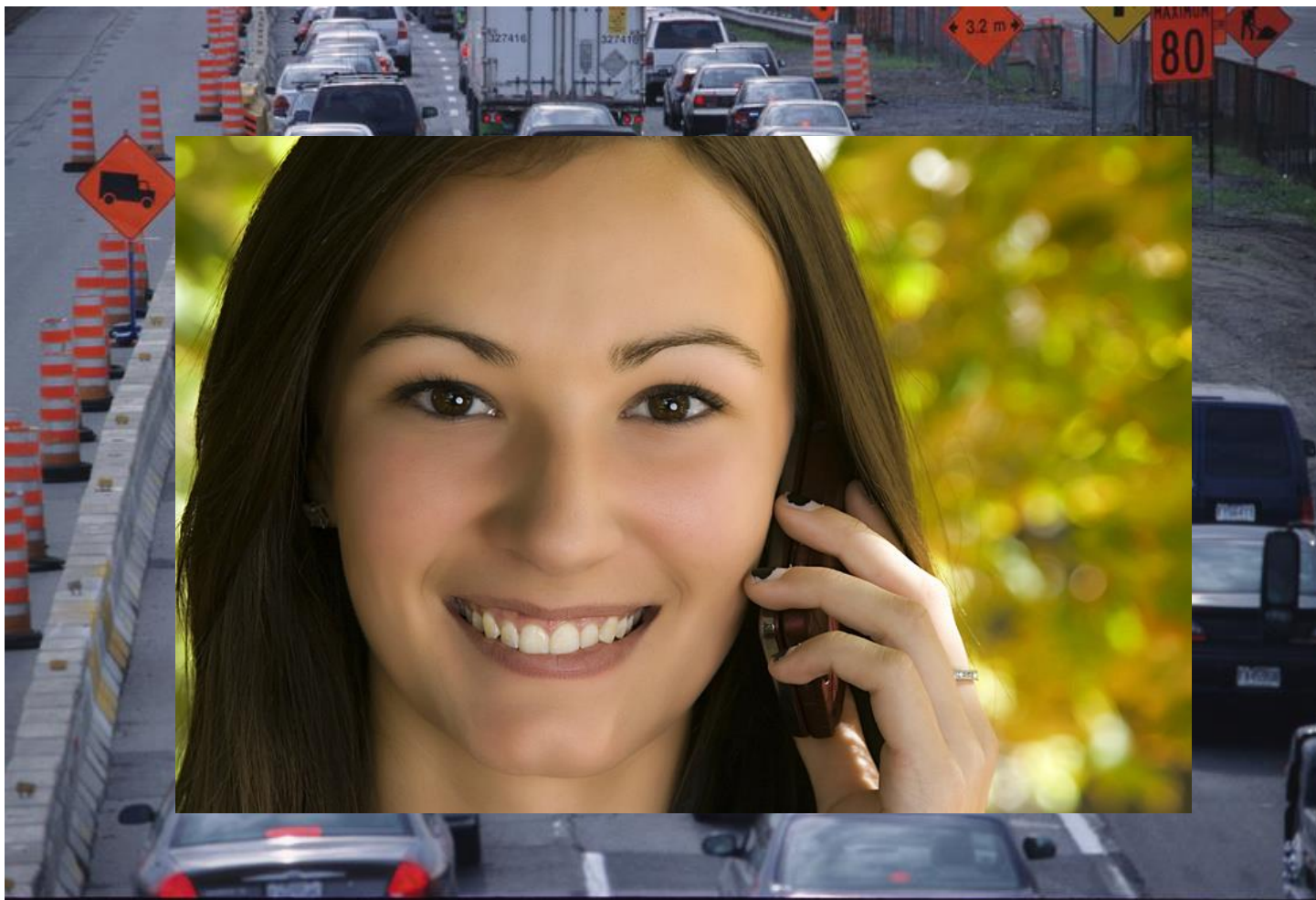
Internet

## VNOC



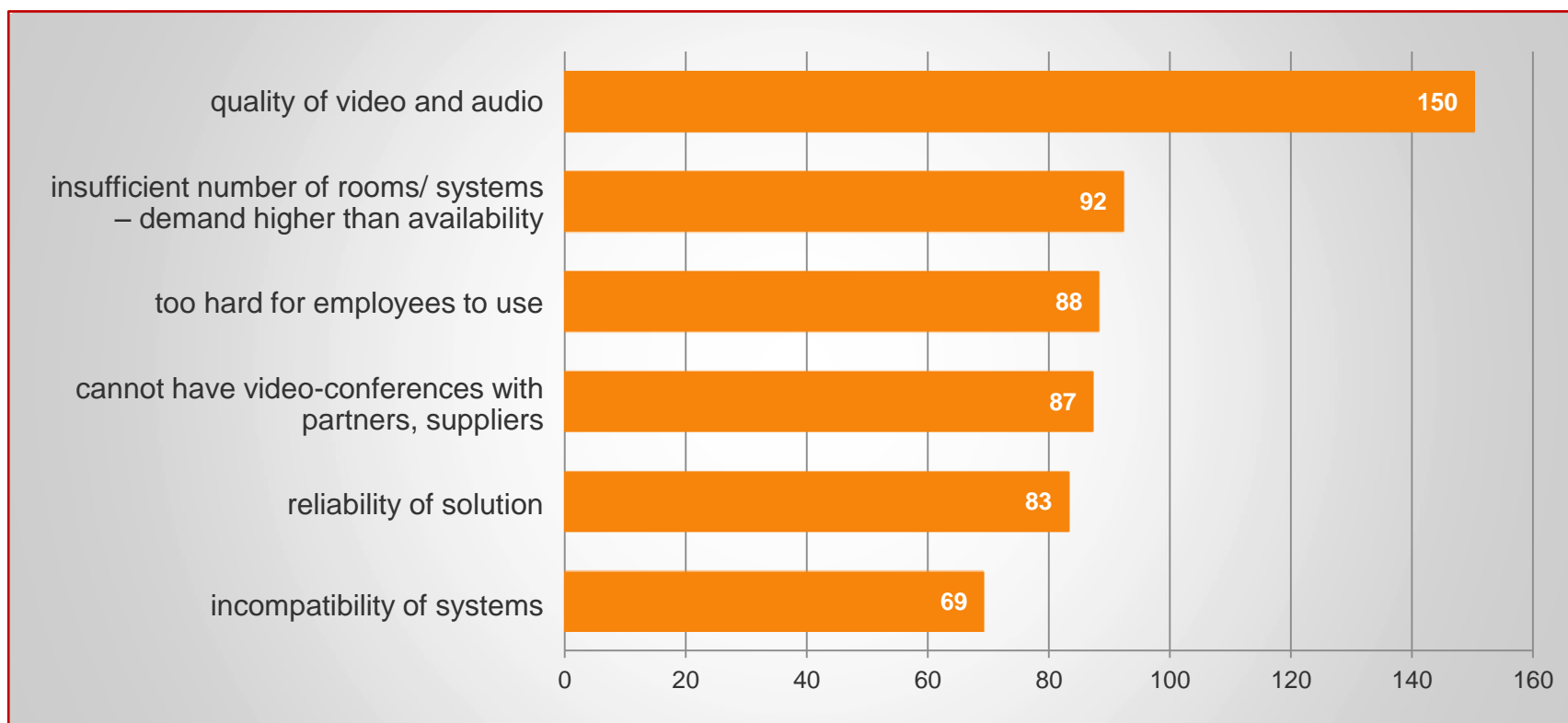
Services

# Movilidad: La nueva tendencia en video



# El reto al desplegar servicios de video

## Perspectiva del usuario



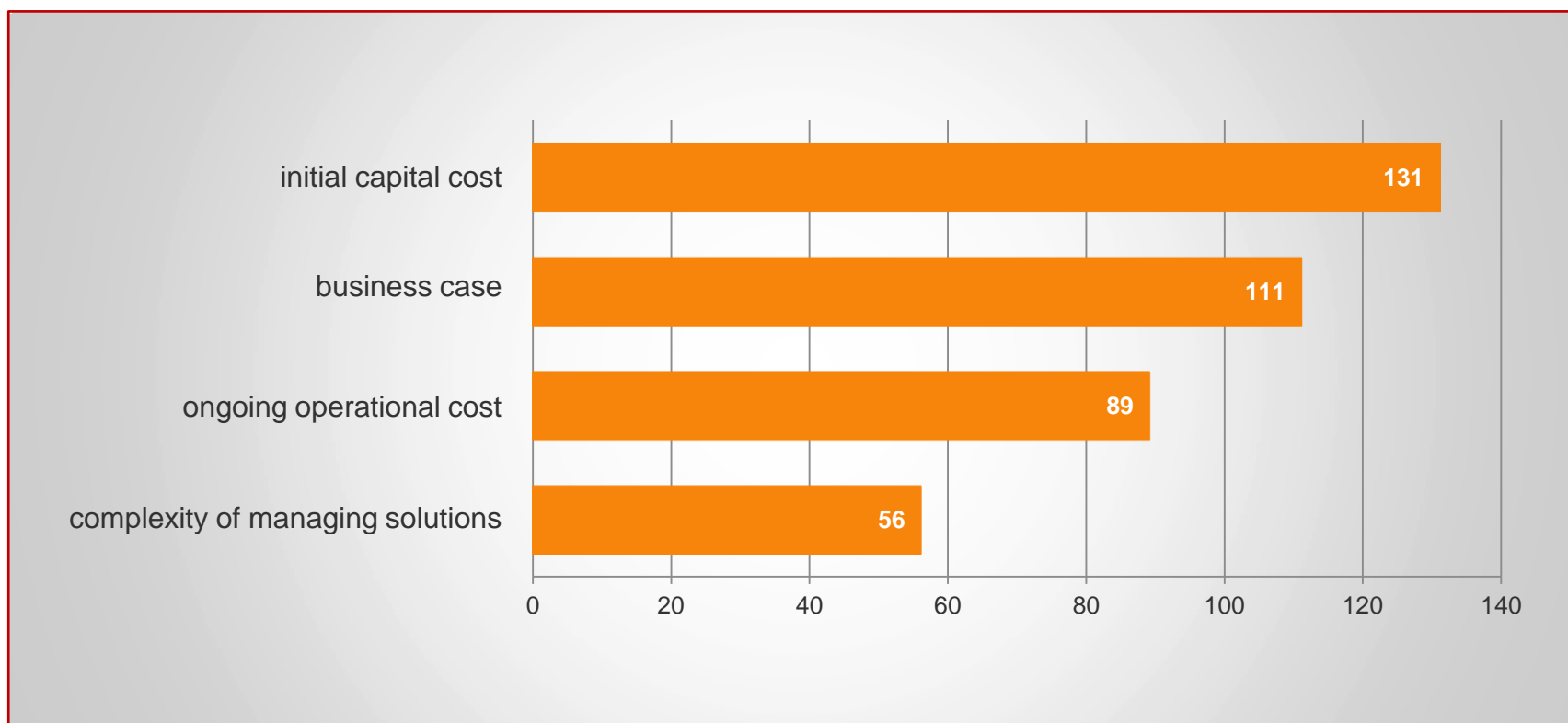
2011 CIO Survey

Business  
Services



# El reto al desplegar servicios de video

## Perspectiva del SP



2011 CIO Survey

Business  
Services



# Agenda – CUDI Cloud Enablement for Video

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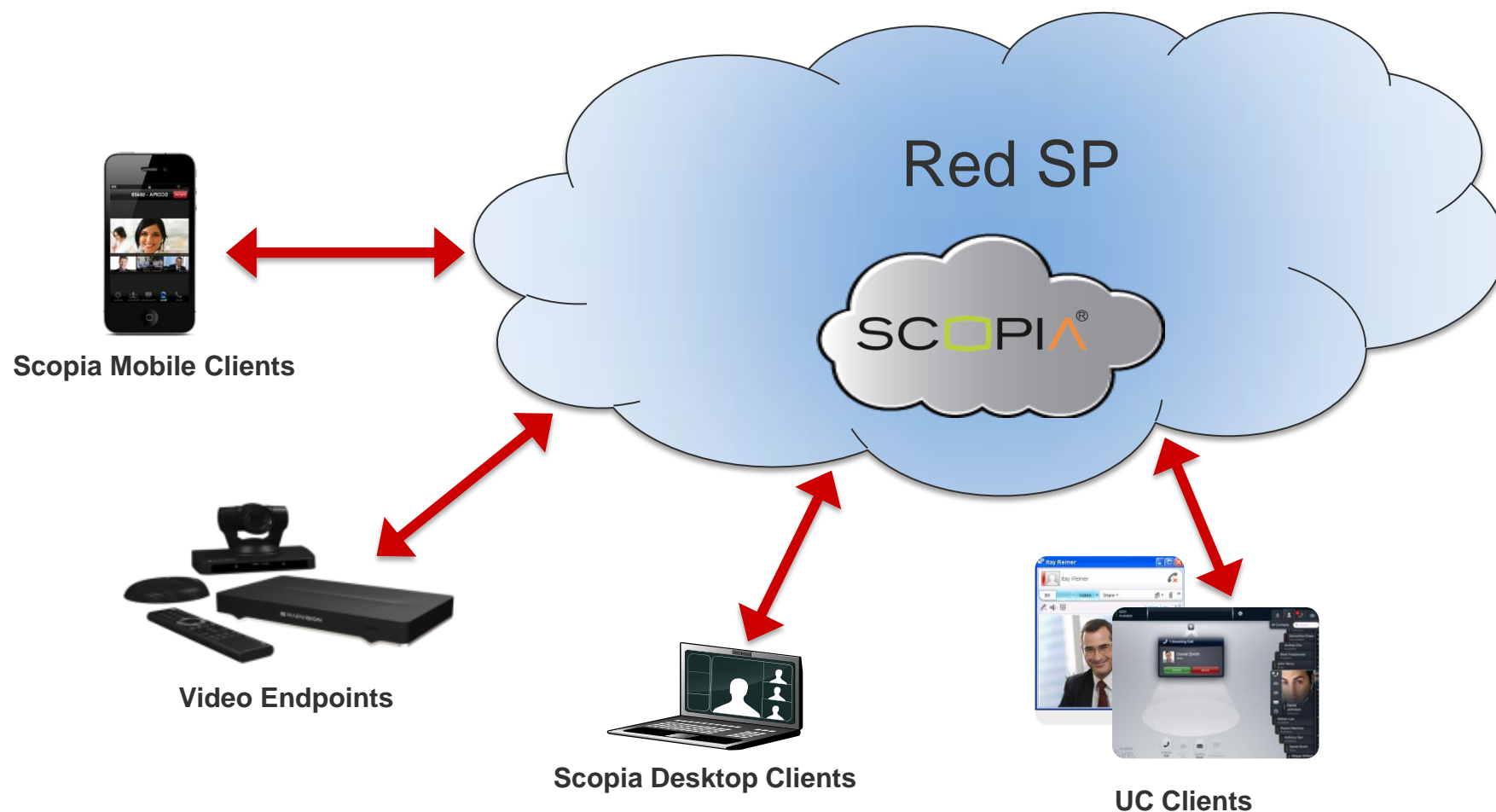
4. Summary

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# Soluciones de video para la nube

## Habilitando los servicios en la nube del SP



# Propuesta Avaya

## Salas virtuales de reunión



**PIN de acceso y moderación**



**Menus de atención**



**Salas de espera**



**Grabación y streaming**

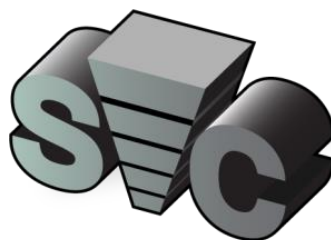
# Haciéndolo posible

▶ Video tradicional

▶ Video para móviles



H.264  
High  
Profile



# Interoperabilidad transparente

Sistemas de sala, telepresencia, escritorio, móviles



# Accesibilidad y Simplicidad

## Ubicuidad y democratización





# Scopia Desktop

*Participe desde  
su PC o MAC*



# Scopia Mobile

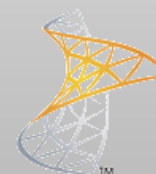
*Participe desde su dispositivo iOS o Android*



# Accesibilidad

## Comunicaciones unificadas

Lotus Sametime



Microsoft®  
Lync™

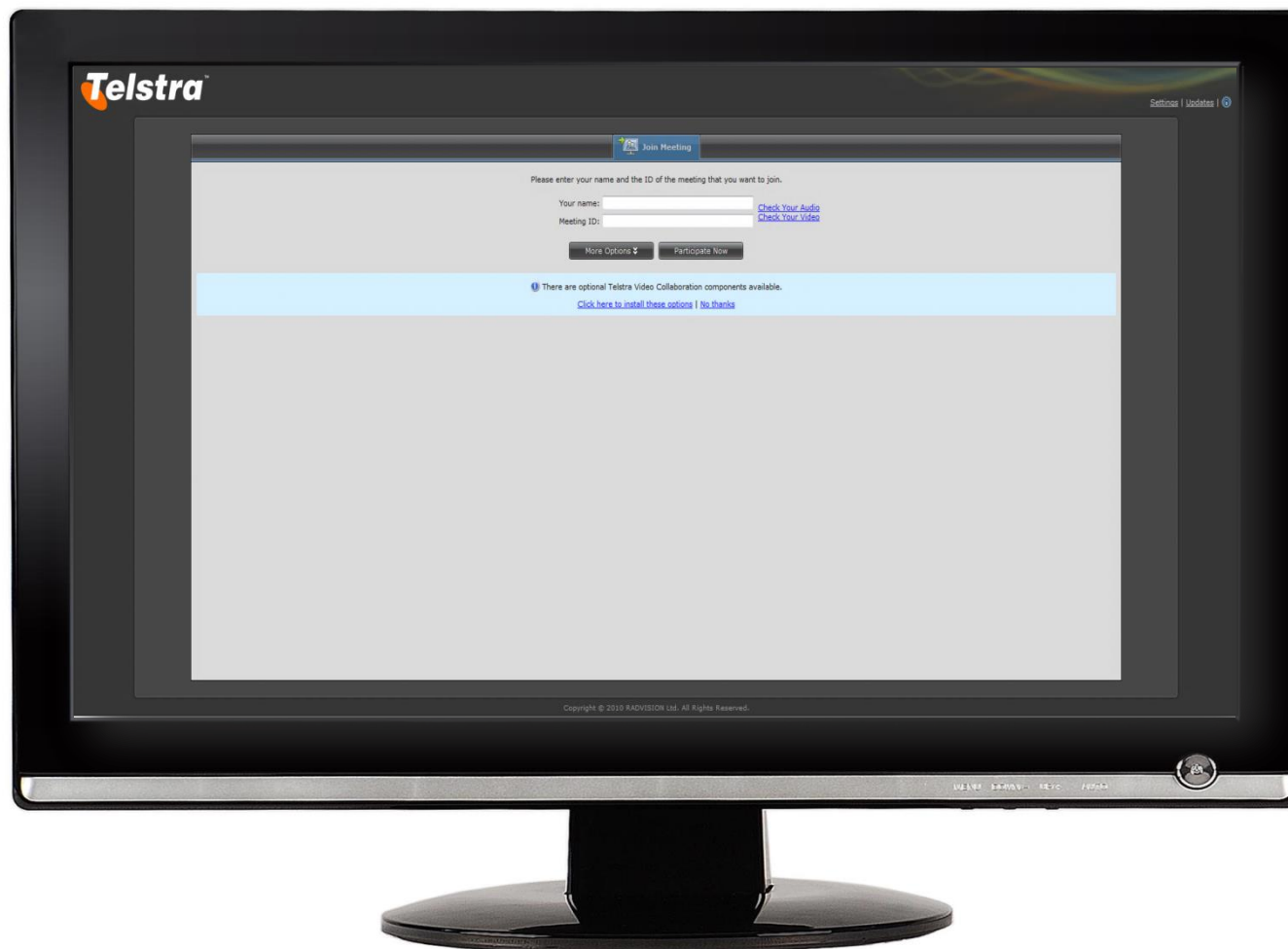
**'VNOC' Cloud**



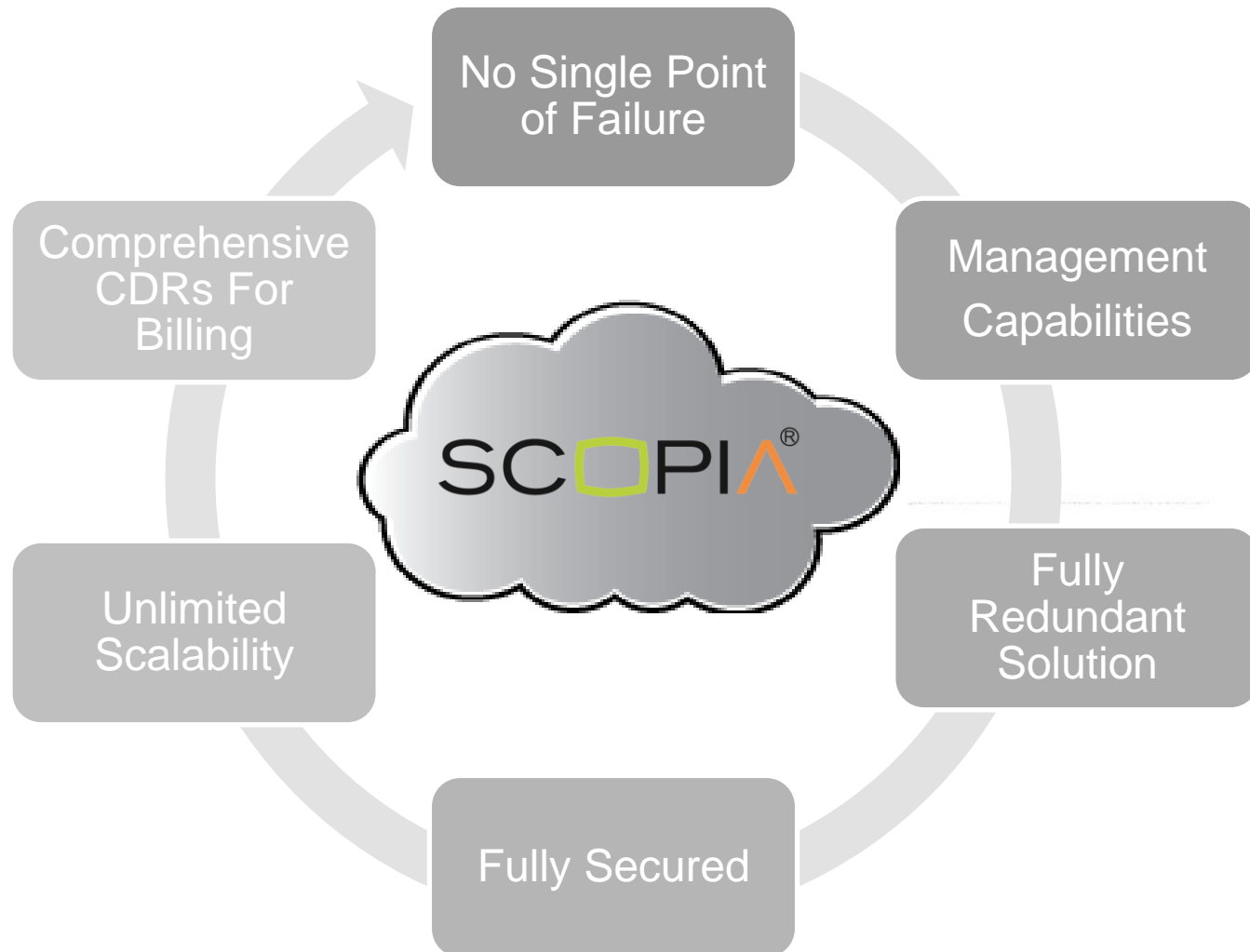


# Personalización

El “así lo quiero”...

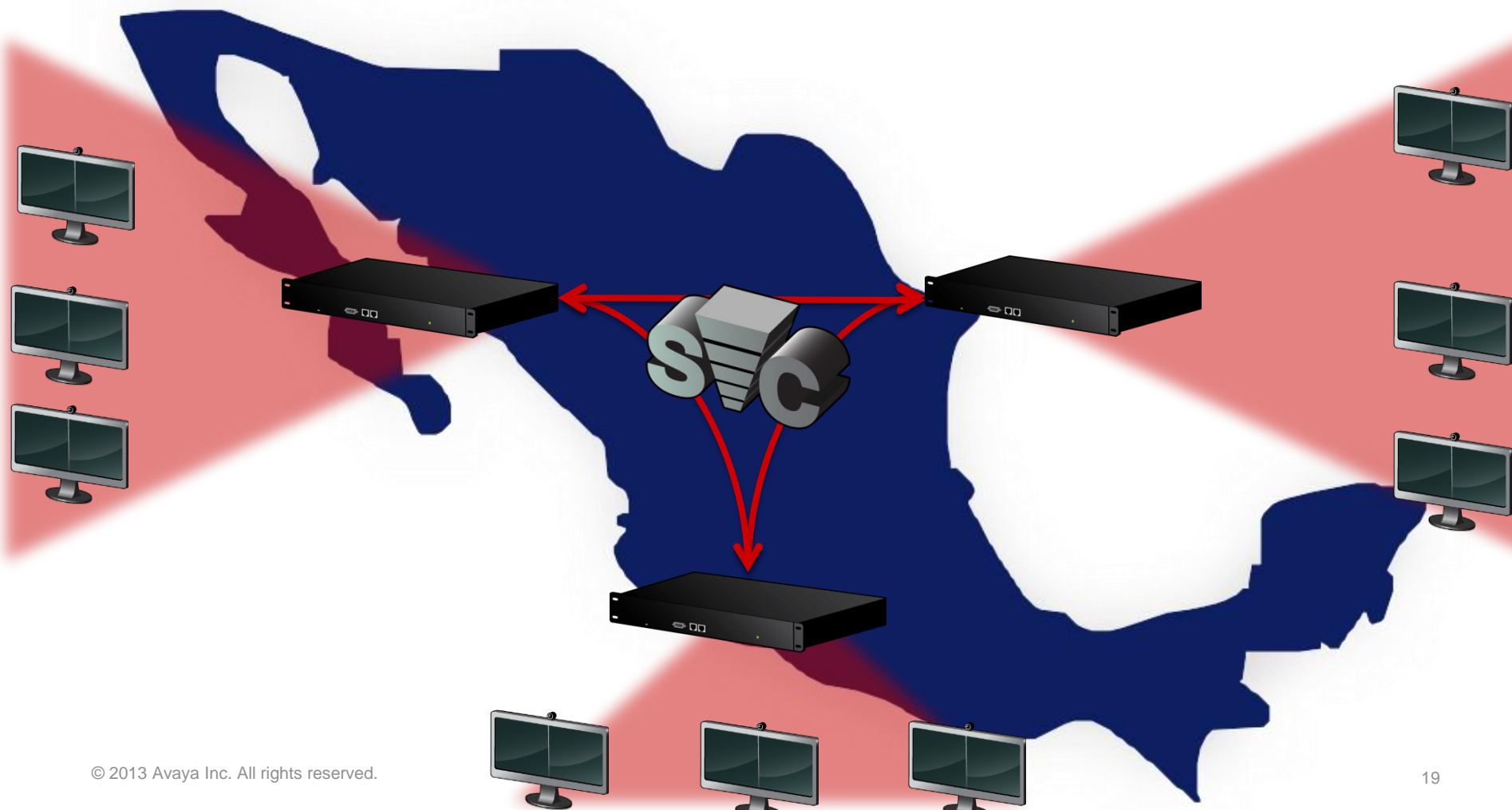


## Servicios nivel carrier

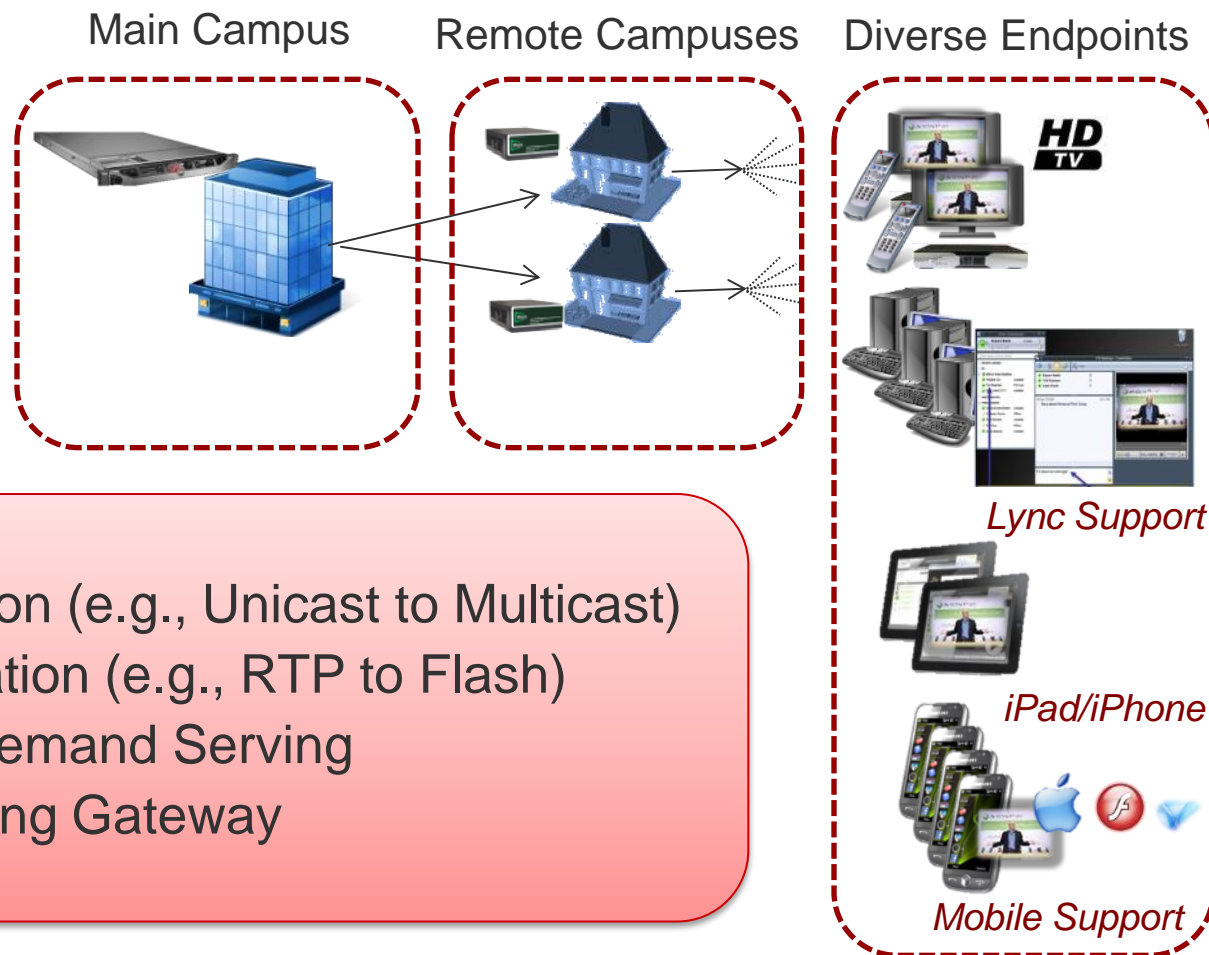
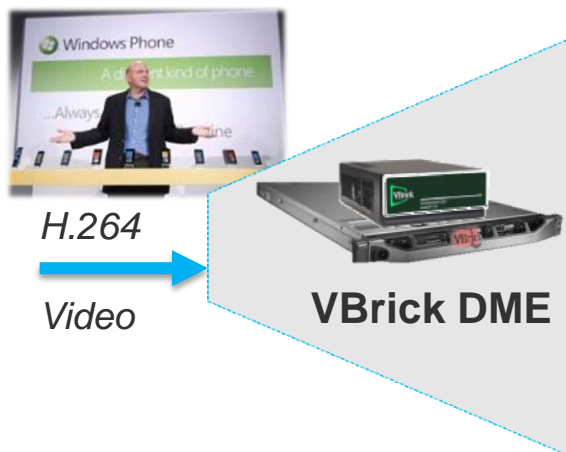


# Alta disponibilidad y escalabilidad

## Arquitectura virtual



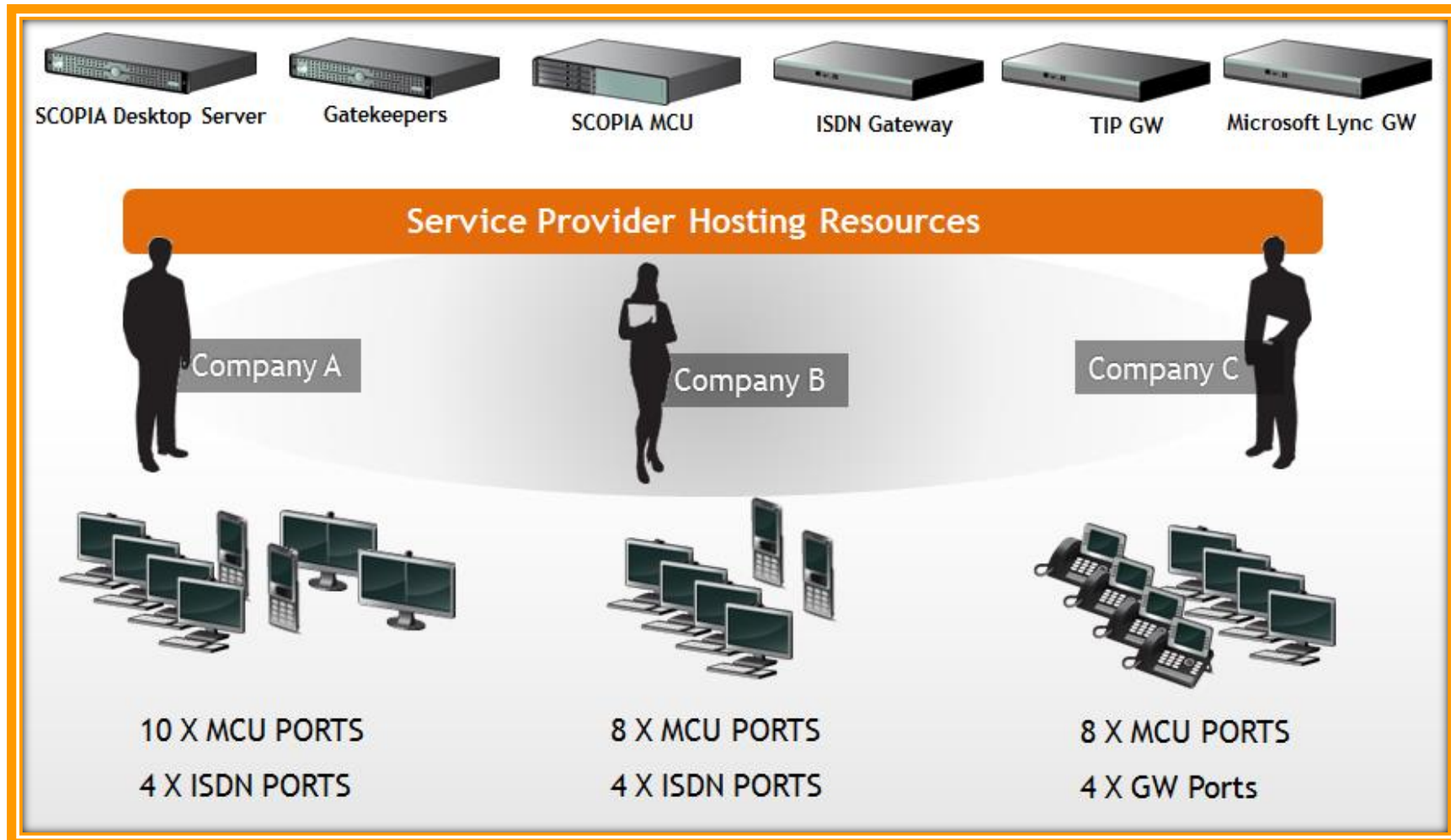
# Difusión eficiente



- Media redistribution (e.g., Unicast to Multicast)
- Media transformation (e.g., RTP to Flash)
- Local Video on Demand Serving
- Video Conferencing Gateway

# Servicios multitenant

## De la caja a su data center



# Experiencia probada...



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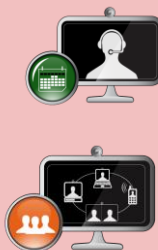
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# Componentes funcionales

Gestión



Colaboración /  
Generación de  
contenido



Scopia Elite MCU



Participación  
interactiva



Scopia Desktop



Difusión

Vbrick VEMS





# Designing CUDI Video Service

## Quoting example...

### Scale

- Up to 10000 Desktop/Mobile Seats (480p)
- Up to 120 HD Endpoints Seats(1080p)

### Redundant

- Fully Redundant deployment N+1
- No single point of failure

### Bandwidth

- Up to 384Kbps per Desktop/Mobile participant
- Up to 2 Mbps per HD Room System

# How many MCU ports are needed?

Lets calculate...

- ▶ Basic assumption: 10:1 Rate - Sold Seats Vs. Existing Ports

Single 6140 can do:  
160 Desktop ports or 40 HD Ports

7 X



Elite 6140

=

1072 Desktop/Mobile Ports  
12 Video Rooms Ports

1072 Desktop/Mobile Ports + 12 HD 1080p Ports

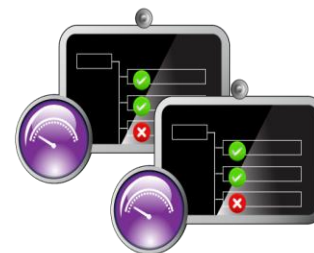


10720 Desktop/Mobile Ports + 120 HD 1080p Ports

# Required Infrastructure Components & Licenses

1120 Scopia Management Multitenant for SP with internal GK

1120 Alternate Scopia Management Multitenant for SP with internal GK



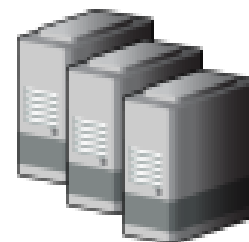
SCOPIA Management



SCOPIA Call Control

2 X Scopia PathFinder

20 Ports Each  
N + 1 Redundancy



SCOPIA Desktop Servers

6 X Desktop Servers

200 Ports Each  
N + 1 Redundancy

8 X Elite 6140

N + 1 Redundancy



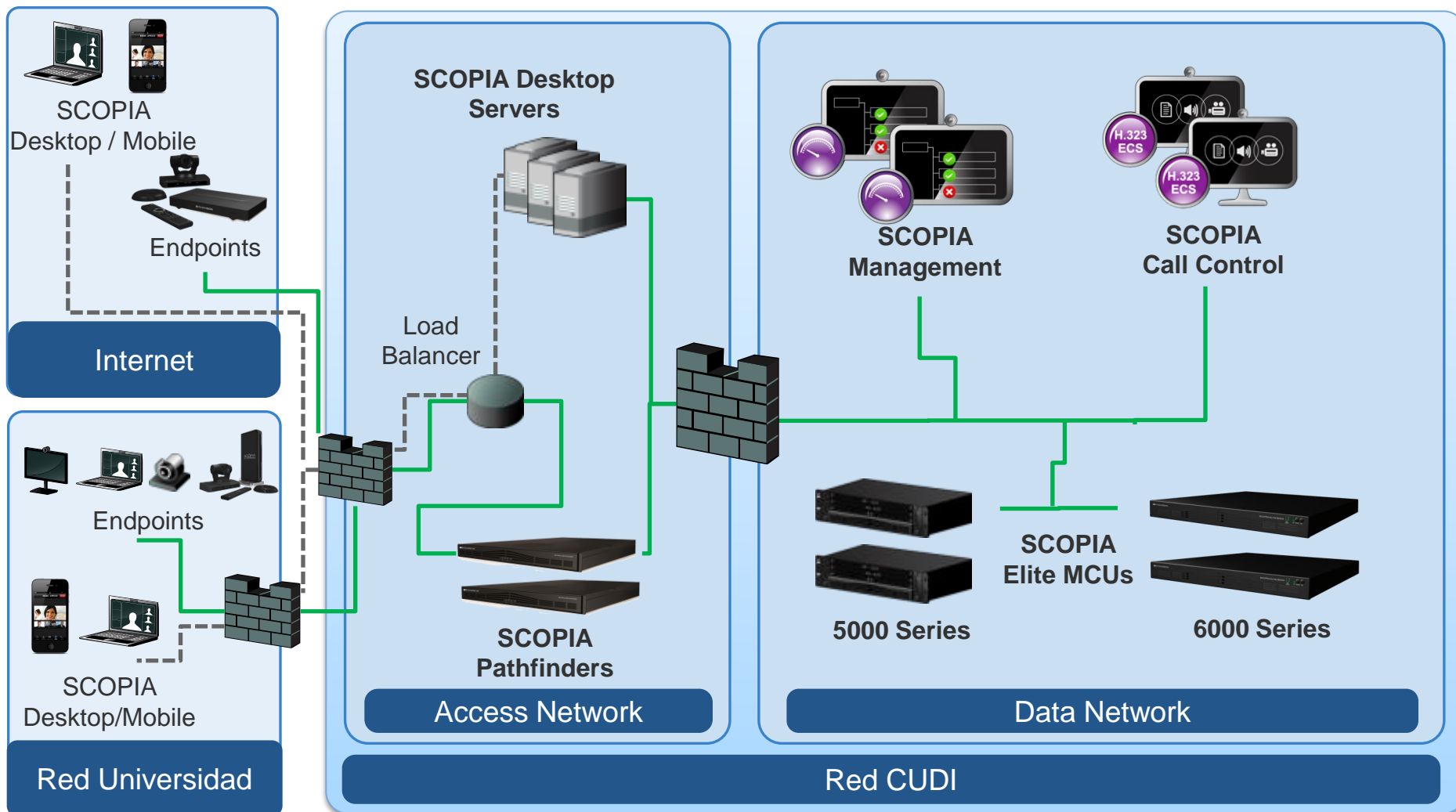
1000 Mobile licenses

1000 Alternate Mobile Licenses

# Topología centralizada

**Key**

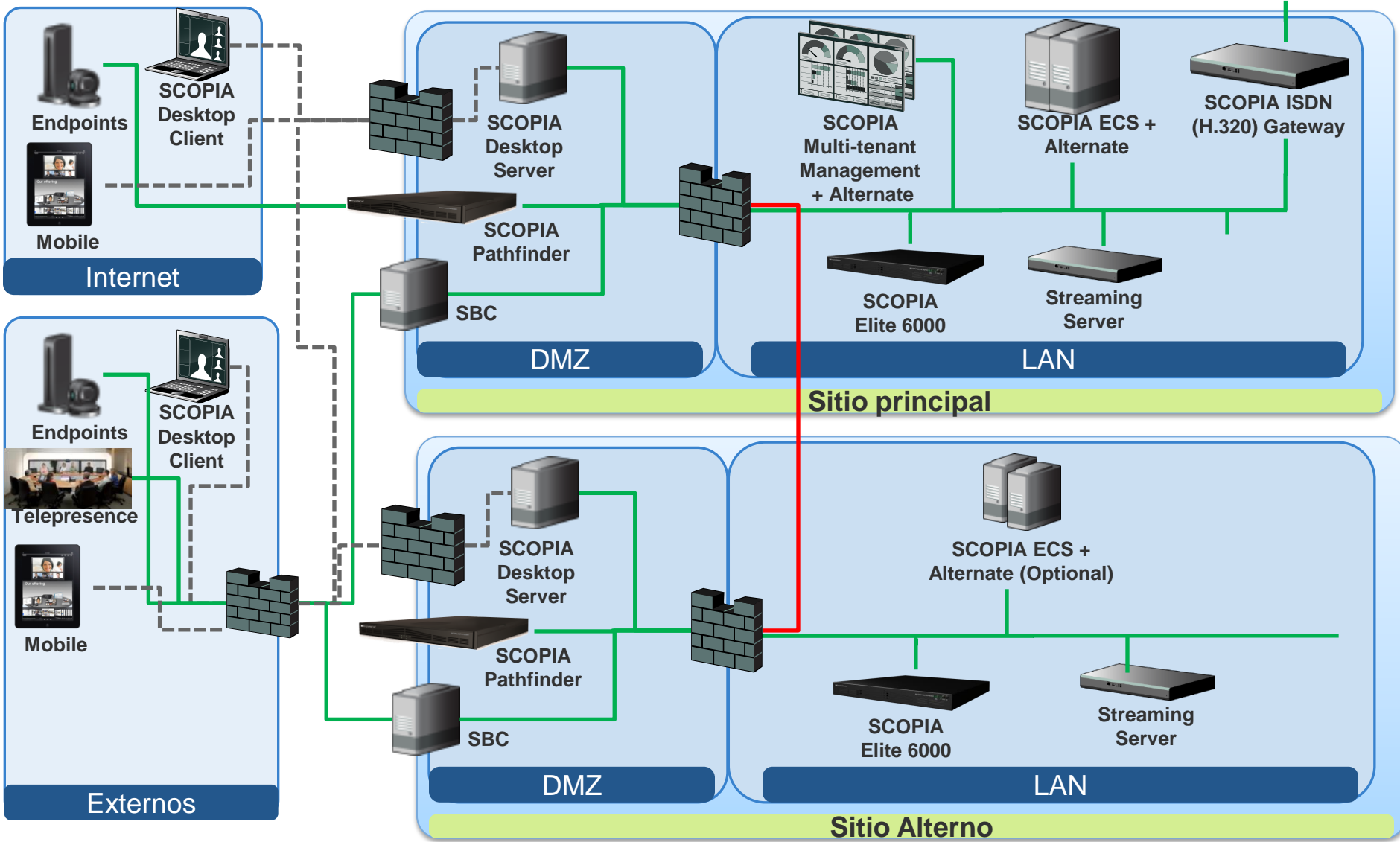
- Tunneled control and Media
- Signaling/Media/Control



# Alta disponibilidad

**Key**

- Tunneled control and Media
- Signaling/Media/Control
- Inter Site connection



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# Scopia en la Nube

- 1 Calidad de experiencia**  
Mejor experiencia, agnóstico al dispositivo.
- 2 Interoperabilidad**  
Cualquier protocolo, cualquier proveedor, cualquier dispositivo
- 3 Accesibilidad y simplicidad**  
Ubicuo  
Salas inmersivas, usuarios UC, móviles, de escritorio
- 4 Personalización Flexible**  
Plataforma abierta con conjunto de APIs completas.
- 5 Escalabilidad ilimitada**  
Crecza conforme a la demanda



**Unmatched  
Quality**

**SVC  
Netsense**



**Unlimited  
Scalability**

**Virtual MCU**




**Radvision Video  
Conferencing Platform  
Ready For Your Cloud**

**Shared  
Resources**

**Multi-tenancy**



**Proven  
ROI**



**Best  
Manageability**



**AVAYA**

**The Power of We™**