

Cisco VXi

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Desktop Virtualization: Nomenclature

Desktop Virtualization

Suite of Technologies

- Desktop Streaming
- Application Virtualization
- Terminal Services

VDI

Virtual Desktop
Infrastructure

Industry Terms for VDI:

- Gartner: “Hosted Virtual Desktop” (HVD)
- IDC: “Centralized Virtual Desktop”



- End-to-End Architecture & Validation

- Supporting Rich Media /UC

- Enhanced Security

- Application Acceleration

- POE / Energy Wise



Cisco VXI

HVD/VDI Market Transition Is Accelerating

A broad deployment enabled by the next generation virtual workspace

Global hosted virtual desktop (HVD) market will accelerate through 2014

- 70 million units or 15% of Enterprise desktops/laptops*

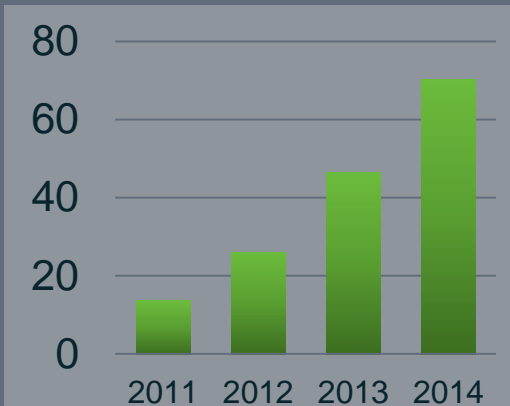
In 2011 47% of Enterprises initiated Desktop Virtualization projects

- Only 3% desktop penetration*

7 Billion new wireless devices by 2015

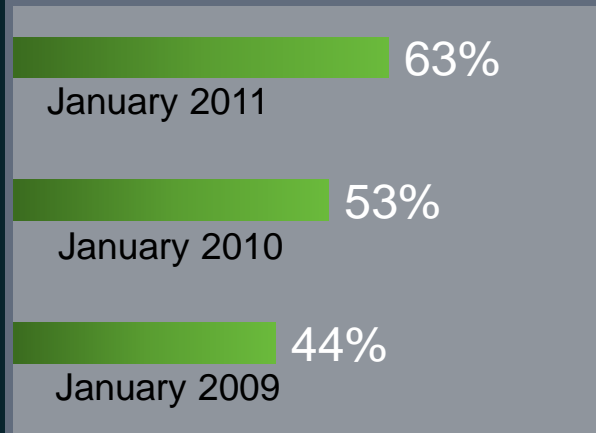
* Gartner Group

HVD Forecast in Millions



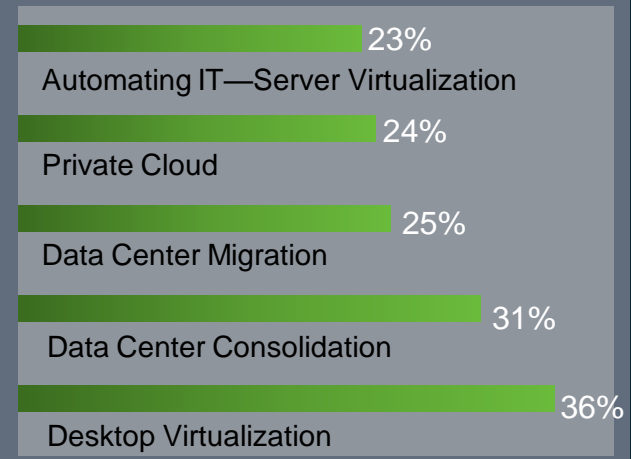
Source: Gartner HVD Forecast 2010-2014, December 2010

Percent of Respondents w/ VDI Projects Planned



Source: Morgan Stanley CIO Survey, Jan 2010 & 2011

Which are important IT initiatives for your organization for the next 12–24 months?



Source: Enterprise Strategy Group, Dec., 2010

What We've Heard From Customers...

Desktop Virtualization Drivers



**Flexibility / Business
Continuity**



**Data
Security**



**Total Cost of
Ownership**

Desktop Virtualization Challenges



**Maintaining High
Quality for Video,
Voice Experience**



**Fragmented
Solution Set**



**Return on
Investment**

Users Require a High Quality Experience

Any App, Any Data, Any Device, Any Media - Anywhere

PC Centric



Phone Centric



Video Centric

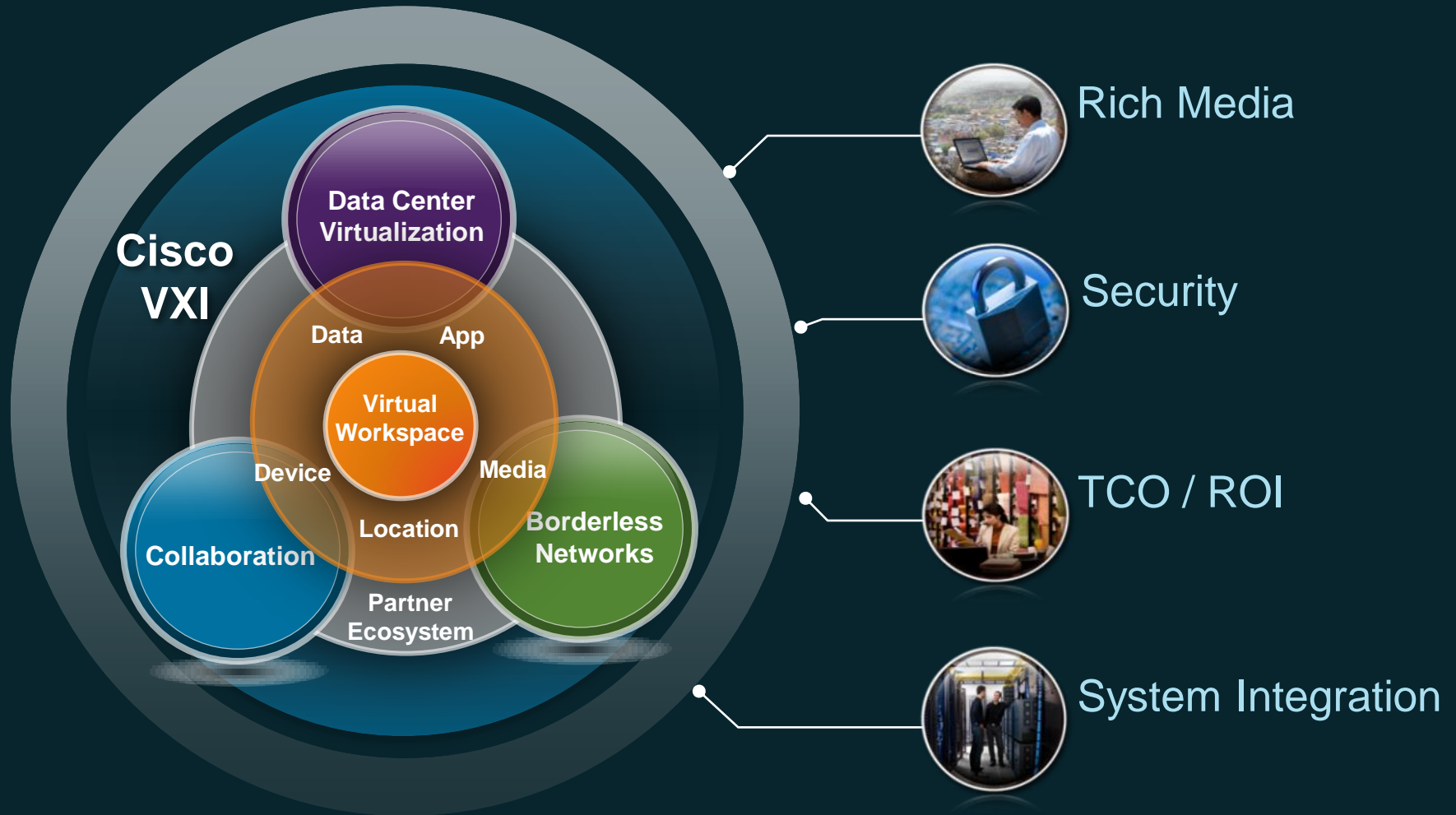


Next Generation Virtual Workspace



Cisco VXi

New Virtual Workspace that Unifies Voice, Video, Virtual Desktops



Cisco VXi

 = Cisco Products

Virtualized End-to-End Solution

Virtualized Data Center

Applications/Desktop OS

Cisco Collaboration Applications

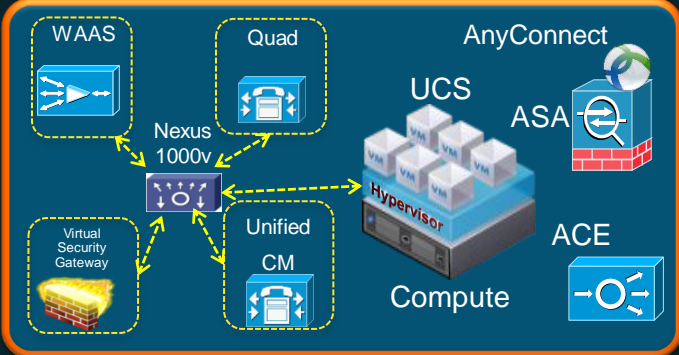
MS Office

Desktop Virtualization Software

CITRIX **VMWARE**

Hypervisor

CITRIX **VMWARE** **MICROSOFT**



Storage

EMC² **NetApp**

Virtualization-Aware Borderless Network

Cisco® Identity Services Engine



WAAS

PoE



Switching

Routing



Virtualized Collaborative Workspace

Cisco Virtualization Experience Clients

AnyConnect



Cisco VXC 6215 Thin Client



Cisco VXC 4000 PC Client



Cisco VXC 22xx & 21xx Zero Client



Cius Business Tablet

WYSE

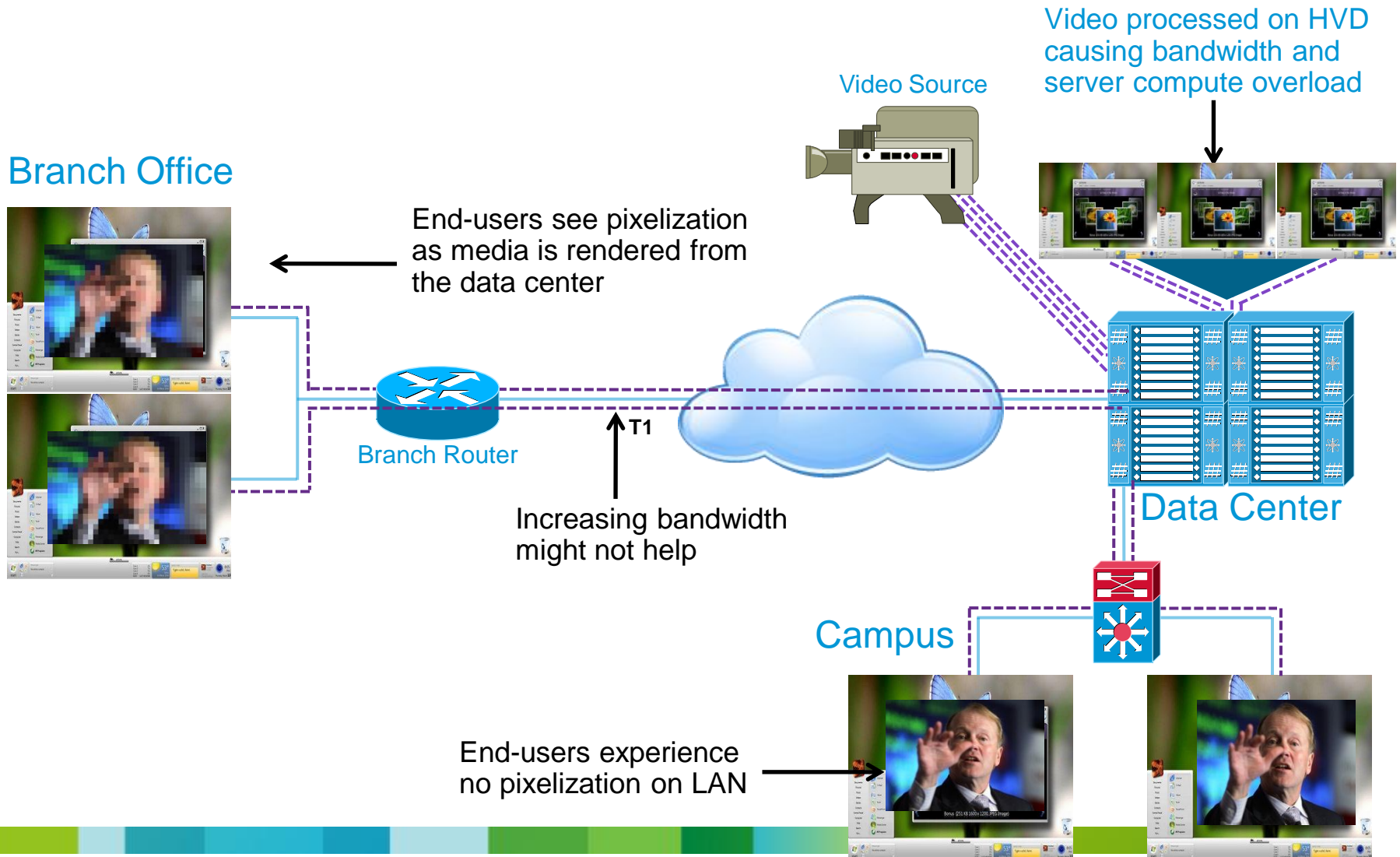
End-to-End Management and Optimization

AppSense

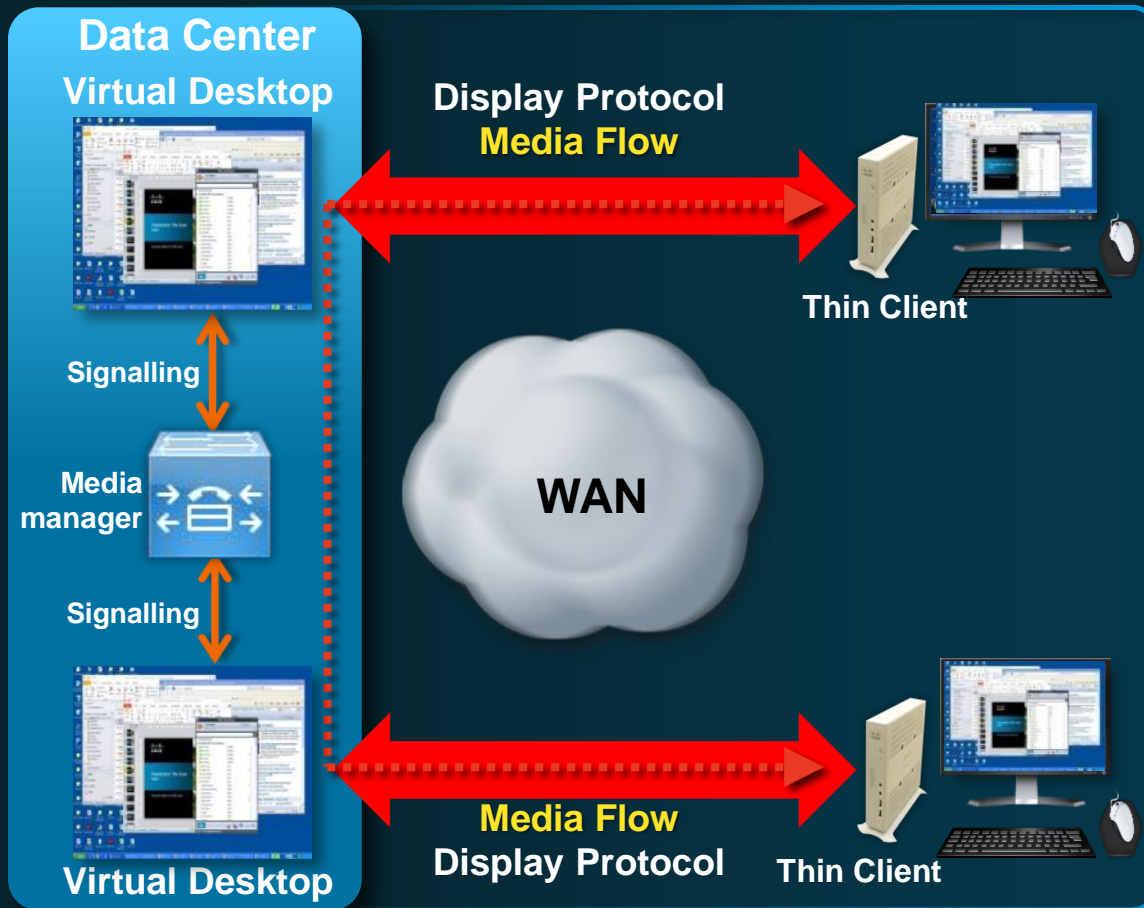
atlantis **Liquidware Labs**
COMPUTING Dedicated to the ART & Science of Virtualization™

unidesk
VDI. Uncompromised.

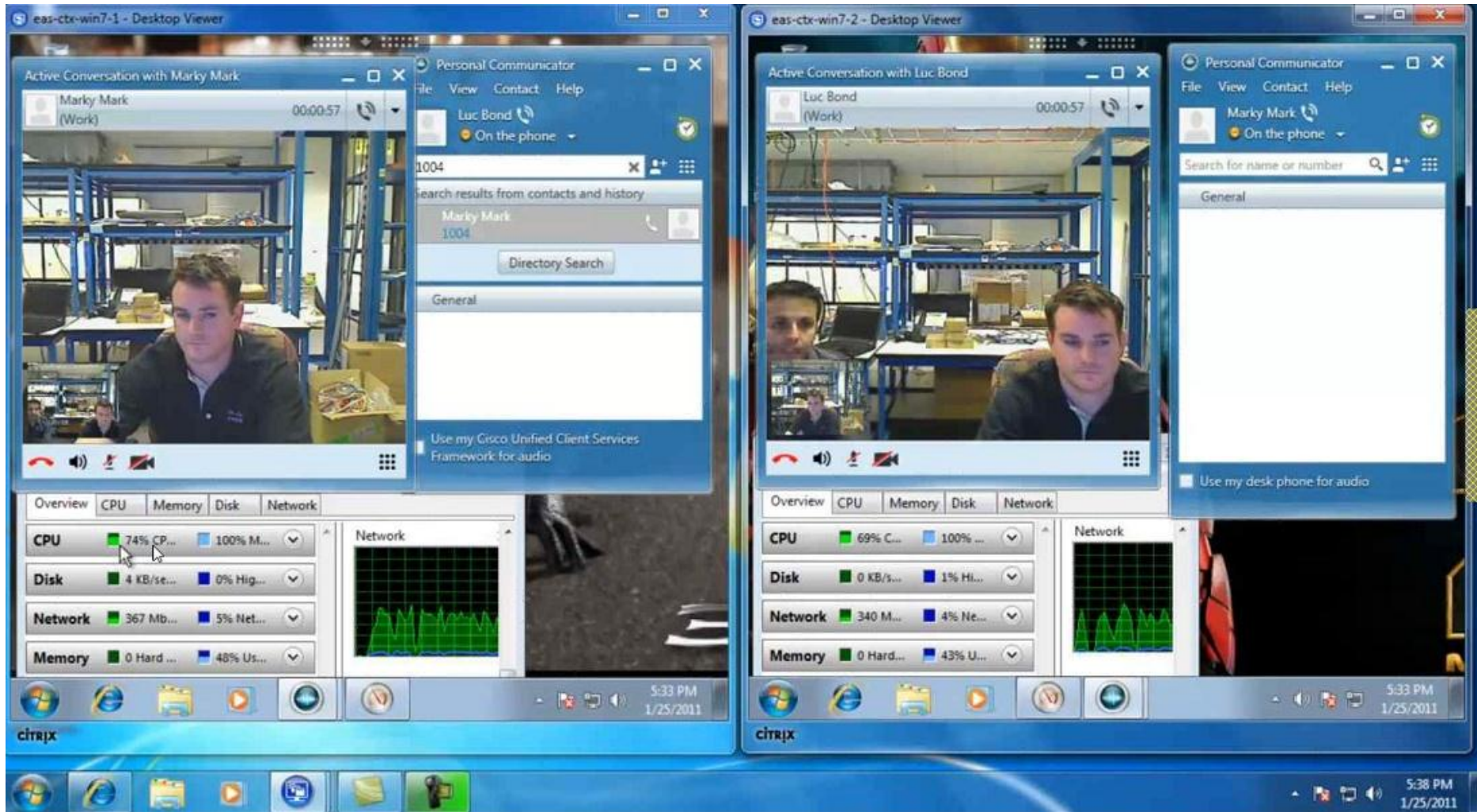
WAN's effects on Users Experience



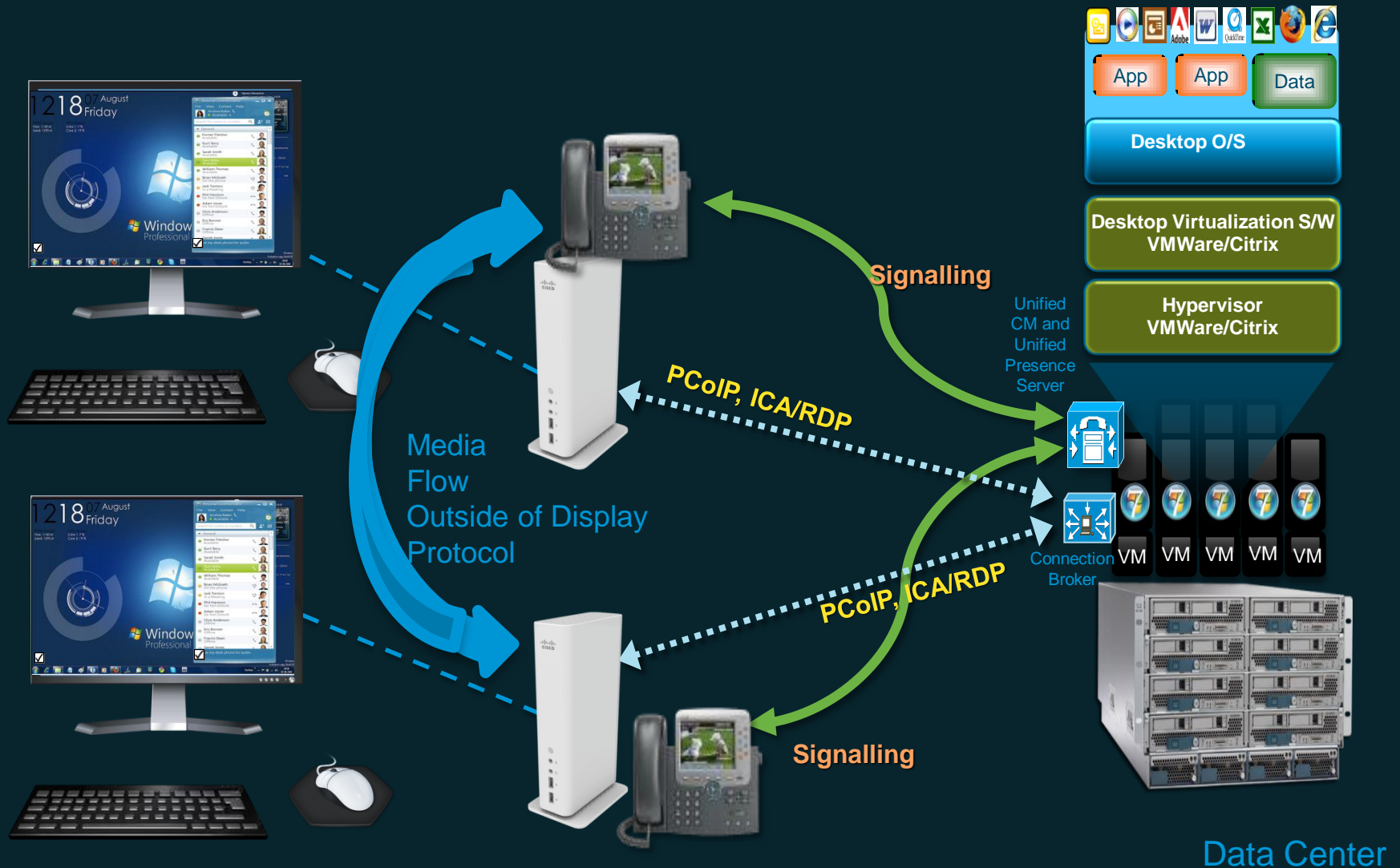
Voice, Video, Virtual Desktop Challenge



- Unusable experience
Hairpin effect
- Increased cost and resource utilization
- Bandwidth explosion
- Heavy virtual machine processing in data center



Rich Media User Experience restored VXi



Cisco Virtualization Experience Client (VXC) Portfolio



Zero Clients

Zero Clients

**Software
Appliance**

Thin Client

**Enterprise
Tablet**

VXC 2100
Series

VXC 2200
Series

VXC 4000

VXC 6215

Cisco Cius

VXC Feature Comparison



	VXC 2100 Series	VXC 2200 Series	VXC 4000*	VXC 6215*	Cisco Cius
Form Factor	“Backpack” Integrated	“Tower” Standalone	PC Software	“Tower” Standalone	Enterprise Tablet
Availability	Shipping	Shipping	Q4 CY 2011	Q1 CY 2012	Shipping
Platform	Zero Client	Zero Client	Win7, XP	Linux	Android (x86)
HVD Protocol Support	2111 – PCoIP 2112 – HDX,RDP	2211 – PCoIP 2212 – HDX,RDP	Citrix XenDekstop, VMware View	HDX, RDP, PCoIP	Citrix XenDekstop, VMware View
UC Protocol Support (add on)	N/A	N/A	Software Appliance	HDX, RDP (Q4CY11) PCoIP (Q1CY12)	N/A
UC Client Support*	CUPC, Connect	CUPC, Connect	CUPC, CUCILync	CUPC, CUCILync	Native
Voice	IP Phone 8961, 9951, 9971	N/A, can be used with IP Phone	Yes	Yes	Yes
Video	IP Phone 9971, 9951	N/A, can be used with IP Video Phone	No	Yes	Yes
Monitor Support	Single or Dual, 1920x1200	Single or Dual, 1920x1200	Varies based on underlying HW	Single:2560x1600 Dual:1920x1200	Single Mirror, 1024x600 (on the roadmap for dual monitor support)
PoE	PoE	PoE	N/A	No	PoE
Encoding & Decoding	Via IP Phone	Via IP Phone	Audio only. Video on the roadmap.	Standard Video HD Capable*	HD Capable (720p)

Cisco VXC Differentiators

- VXC 21xx series innovative **form factor integrates w/ IP** phone that reduces real estate and simplifies management
- **Power over Ethernet (POE)** with support for EnergyWise delivering energy savings and compliance to green initiatives
- Thin Client endpoint that **unifies voice, video and virtual desktop**
- Software appliance option that leverages existing PC investments
- Mobile endpoint w/ voice, video and virtual desktop in a unique centrally managed enterprise tablet
- **Cisco Validated Designs (CVD)** that provide blueprints for successful deployments and lower TCO
- Cisco **Technical Assistance Center (TAC)** Allied Solution Support for **end to end solution**

VXI Phase 2.5 Component Summary

Based on Cisco Architectures

VXI Validation Service
VXI AS

VXI Endpoints portfolio

- Cisco VXC 21xx and 22xx
- Cisco Cius
- Cisco VXC 4000
- Cisco VXC 6215
- Cisco VXCM

UC Applications

CUPC 8.5,
CUCM 8.6,
CUCILYNC, CUCIMOC
Webex Connect 7.1
CUCI-Connect 8.5
Quad

Cisco Network

WAAS 4.5.1,
vWAAS,
Cat 3K, Cat 4K, Cat 6K
UPoE
ISR G2

Network Security

ISE 1.0 Anyconnect 3.0
SmartCards VXC VPN
DMVPN ASA

Data Center Compute

UCS B250 M2,
UCS B210 M2
UCS B230 M2,
UCS C250, C210

Hypervisor

Citrix XenServer 5.6, 6.0
VMware vSphere 5.0
Microsoft Hyper-V R2 FP1

Data Center Network

Nexus 7000,
Nexus 5000,
Nexus 2000,
Nexus 1000v
VSG,
ACE

Storage

EMC VNX
NetApp FAS 3270

Desktop Virtualization

Citrix XenDesktop 4, 5, 5.5
Vmware View 4.6 and 5.0
XenApp 6 and 6.5

Optimization

Atlantis Ilio
Citrix IntelliCache
Mcafee MOVE-AV 2.0
Trend Micro AV 7.5

Profile/Image Mgmt

AppSense
UniDesk
StratusSphere (LiquidWare)

Collaboration

Borderless
Networks

Data Center
Virtualization

VXI
Technology
Partners

Ďakujeme za pozornosť

