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Empowered Branch 4

Optimizing the Branch Experience



Enterprises New Business Priorities



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The Branch Transformation

Today's Branch

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Aging, Disparate Data/ Voice Networks

Saturated WAN, Poor Response Time



Blended Security Threats, Compliance



Limited Mobility, Limited Disaster Recovery

Inconsistent Branches and Branch-HQ solutions

Empowered Branch

Unified Voice/Data/Video Network Platform

Optimized WAN, Accelerated Applications

Self Defending Networks

High Availability, Unified Wireless—Wireline Business

Consistent Branches and Branch-HQ Services

Cisco Empowered Branch

Empowered Branch 4

Open, Integrated Application Platform

Empowered Virtual Worker

Video and Collaboration

Manageable, Secure, Wireless Branch



Over 4 Million ISRs Sold! 4 Millionth Router Purchased by Coca-Cola Enterprises Supporting company-wide UC project for voice, video, data



Application eXtension Platform

- Linux-based
- IOS APIs (AXP SDK)
- Supports multiple concurrent applications
- 1841, 2800, 3800 ISRs





- Optimized, open branch architecture
- Tight Network-Application linkage
- A new business architecture
- Anything you need in the branch

AXP Partner and Business Structure



Go-to-Market Support

Investment

Cisco AXP Partners



Integrated Healthcare Solutions Ministry of Healthcare, Bulgaria



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- Router platform
- 3rd level TAC support



- Middleware: Healthcare connector.
- Leading eHealth Specialist
- 3rd level Application support

Integration Partner

- Secure staging, Datacenter
- Co-branding
- 2nd level support, DoA

- Collaborative Healthcare network
- Connect 4Ps patients, providers, payment systems, pharmacies
- New Business opportunities
 \$150M+ ISV solution opportunity
 \$250M+ Channel opportunity
 Competitive Differentiation
 Customer loyalty



New Market in Sub-SMB "SOPO" Market Total Solution \$1B+, Channel Opportunity \$250M+

Opening the Branch with WAAS



Cisco WAN Optimization new hosting branch applications



"Cisco and Microsoft solutions serve our employees in our headquarters as well as in branch offices. I am excited to see these two companies working together to simplify the management of branch office resources so we can quickly deploy Windows Services to remote offices ..."

-Dwight Wheelers, Network Architect

MONSANTO



Empowered Virtual Worker

-46-46-61910

New Small Office and Teleworker Solution

- Availability and reliability
- Next Generation Wireless Capabilities
- Secure Remote Collaboration
- Secures voice and data end-to-end
- Advanced security and content filtering

Simplified Operations

- Comprehensive Cisco IOS services: routing, QoS, voice survivability
- New; graphical voice and data configuration

Cisco Integrated Services Router Cisco 860 ISR family Cisco 880 ISR family Cisco 880 IAD family

For Teleworker, Small Branch Offices, and Managed Service Provider Offerings

Cisco 860, 880 Fixed Router Family



Simplifying Branch Management

Universal Software Image	Cisco Configuration Professional
 Simplified Upgrades No software download required Scalable Management 	 One-stop graphical tool for Routing Security Unified Communications Wizard led configuration
VoiceVoiceVniversal Security mageAdvanced Security LicenseAdvanced Security Features	LAN, WLAN, and WAN Firewall, IPS, and VPN QoS, ACLs • One-step security lockdown • Free with every Router

Security Innovations

Cisco IOS Content Filtering

Blocks Malicious Sites and Enforces Corporate Policies



Cisco IOS Secure SIP Firewall

Enhance the Integrity and Availability of Cisco UC



Cisco IOS

Branch Mobility



Wired Branch

- Traditional wired infrastructure
- High bandwidth applications

Enterprise Teleworker

- Office of one
- Remote or home worker needing voice, data, security, wireless Nired and Wireless Danch Solution

Wireless Branch

Highly reconfigurable

Flexible office for temporary locations or field services workers

Portable, Mobile Branch

- 3G Wireless Branch
- In-vehicle public safety and first responder secure access



Cisco 3200 Rugged ISR

 \checkmark

Security



3G WAN



802.11 WLAN



Unified Communications



Mobile Environments

First Responder and Transportation

Rugged Environments







Rugged, Mobile Solution Cisco 3200 Series Rugged ISR

Integrated Services Router Portfolio



Empowered Branch 4



Optimizing the Branch Experience

Optimizing Branch Experience



The Network Is The Platform

AXP Architecture and Components



AXP-Based Application Appears as a Router Extension

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Network-Hosted Applications



Network Capacity Expansion Capabilities

	Customer Use Cases	WAAS	NCE
WAN Optimization	Desktop Virtualization	\checkmark	
	Backup and Recovery	\checkmark	
	Security and Compliance	\checkmark	
	Server Consolidation	\checkmark	
	Application Performance	\checkmark	
	Bandwidth/Link Optimization	\checkmark	\checkmark

What's New in Empowered Branch 4 for Unified Communications



Cisco Integrated Network Services Unify Your Unified Communications



Empowered Branch 4 New/Enhanced UC Solutions and Offers

Unified Communications Applications	 Cisco Unified Communications Manager Express 4.3 Cisco Unified SRST 4.3 Cisco Unity Express 3.2 	
Communications Infrastructure	 Cisco Unified Border Element 1.2 Application eXtension Platform (AXP) for Unified Communications QSIG tunneling over IP Wideband Codec Support and enhanced codec support New VIC3 Voice Modules 	
Network Management	 Cisco Configuration Manager—Administration GUI for CME 	
Security	 IOS Firewall 12.4(20) T 	
Offers	New UC/VSEC bundles with Unified CallConnector "Get the Lead Out"	

Cisco Unified Communications Manager Express (CME) and Cisco Unified Survivable Remote Site Telephony (SRST) 4.3

Solution

- New end-user productivity features in CME
- CME E911 support
- CME Integration w/3200 Mobile Access Router
- Integration w/new Cisco Configuration Professional
- SRST feature set updates

Customer Value

- Improves end user ease of use and productivity
- Enhanced disaster preparedness
- Support for public safety and Department of Defense (DOD) initiatives

Key User Experience/Productivity Enhancements

- Call Barge with Privacy Release
- Add/change speed dial on phone
- Transfer to Voice Mail Key
- Live Record Softkey with Cisco Unity Express
- 8 Calls per Button (Octo-Lines) ~ SRST
- Blast/Parallel Hunt Group
- High Quality Audio with Wideband Support
- iLBC Codec for Narrow Band or Between Site Calls



Cisco Unity Express 3.2

Productivity-Enhancing Voice Mail, Automated Attendant and Interactive Voice Response for Small- and Medium-sized Offices or Enterprise Branches

New Capabilities

- Centralized management of multiple Cisco Unified Messaging Express systems
- Feature parity between router-based solution and UC520-based solution
- Additional languages—Arabic, Russian, and Turkish
- Password synchronization between Cisco Unity Express and Cisco Unified Communications Manager Express
- IMAP Integrated Messaging for Microsoft Entourage on Apple Macintosh

Customer Value

- Cost-effective for the SMB or branch office
- Investment protection: Ease of migration from standalone configuration to networked environment
- Application integration means fewer devices to manage, less staff support
- Native automated attendant and optional interactive voice response (IVR)



Cisco Unity Express Network Modules

Application eXtension Platform



New Features

- SIP Profiles
- SIP Video
- Interconnect enhancements

Benefits

- More endpoint interoperability
- Unprecedented adaptability
- Offer video to more users
- Improved manageability

Voice Networks Are Constantly Evolving—CUBE Interconnects These Networks That Are in Various Stages of Evolution

Reducing Branch Cost and Complexity with QSIG Tunneling Over IP

- Multiple ports savings on PBX trunk lines
- Cost savings on dedicated T1/E1 lines
- Ease of increasing capacity as needed
- Easier configuration and maintenance
- Easier migration toward IP telephony



With Hi-Definition Voice, Branches Sound "Closer"

G.722 Codec Support Across Infrastructure and Applications:

- Cisco UC solutions the ability to surpass TDM in Voice Quality
- Cisco leads the experience with "High Definition Voice"



Ultimate Branch Flexibility—Intelligent Network with Universal Transcoding

Different Voice (Codec) Technology Is Deployed in Enterprise, Mobile Wireless, Internet Telephony, and DSL/Packetcable



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New VIC3 Voice Modules

Existing SKUs (EOL Comp's)	New SKUs (Replacements)	Benefits of New Interface	Target IOS Version
VIC-4FXS/DID	VIC3-4FXS/DID	Supports both FXS and DID	12.4(15)XZ
VIC2-2FXS VIC-2DID	VIC3-2FXS/DID	 Supports NEBS 1/3 	
	VIC3-2FXS-E/DID	 In FXS mode, "Off-Premise Extension Lite" 	12.4(20)T
VIC2-2E/M	VIC2-2E/M VIC3-2E/M Supports NEBS 2/4 support independent per port signaling type selection		12.4(15)T
EM-HDA-8FXS EM3-HDA-8FXS • Feature pa		 Feature parity 	12.4(15)XZ 12.4(20)T

Platforms:

- ISRs, IAD2400
- NM-HD-1V/2V/2VE
- NM-HDV2 (all versions)

VIC3-2FXS-E/DID (in FXS mode) Supports:

- Loop length up to 11,000 ft (vs. 3,000 ft on VIC2)
- Ringing voltage, Vrms: 65V (vs. 52V on VIC2)
- 35mA off-hook loop (vs. 25mA) (specialty phones)

Cisco ISR Unified Communications Bundles Combining UC Functionality into Single SKU

- IP phone licenses usable for all types of Cisco IP phones
- Investment protection to migrate to Cisco **Unified Communications Manager** CME Call Processing **IOS** Routing Voice Mail and Auto Attendant CI licens one eenses J S Securit (in VSEC buns **PC** Client icenses Conferencing

Introductory Offer: Free Unified CallConnector Personal Licenses

Unified Communications Bundles for ISR Included and Max User Counts



Making Branches More Green Get the Lead Out Promotion

- Branch-focused trade-in promotion using CTMP
- Trade-in legacy, lead based key system + phones
- Trade-to ISR UC Bundles/UC 500/VSEC Bundles + phones
- Eligible for "enhanced trade-in credits" if trading in Avaya, Alcatel, Ericsson, Mitel, NEC, Nortel, Philips, or Siemens systems



Summary—How Does the Cisco Empowered Branch with UC help IT and Business?

- Extend services across your entire organization
- Enable virtualization and new business models
- Address IT complexity, coverage, and cost
- Enhance the way every department within your organization does business
- Enable effective interactions with virtual teams all over the world
- Improve security and business continuity
- Reduce carbon emissions, eliminate toxins
- Enable ongoing business transformation

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