

What You Make Possible







Deploying Cisco WebEx in Enterprise Networks (On-Premises or Cloud)

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Agenda

- Introduction
- WebEx Cloud
- WebEx On-Premise
 - Designing
 - Integration
- Resources
- Appendix







Introduction



WebEx Conferencing

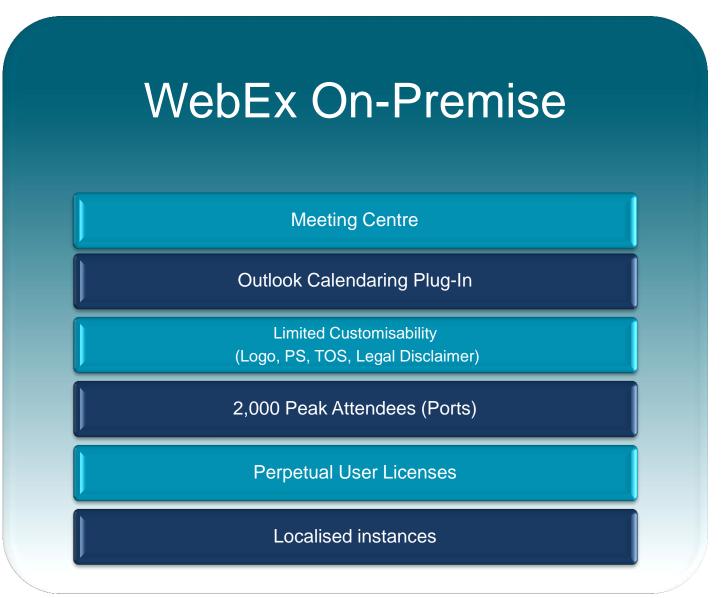


- Industry-leading web conferencing
 - Audio, web, and high-definition video
- Document, application, desktop sharing
- Consistent, cross-platform experience
 - Windows and Mac
 - Supported on mobile devices
- Delivered securely over the Cisco WebEx Cloud and on-premises



WebEx Cloud vs WebEx On-Premise





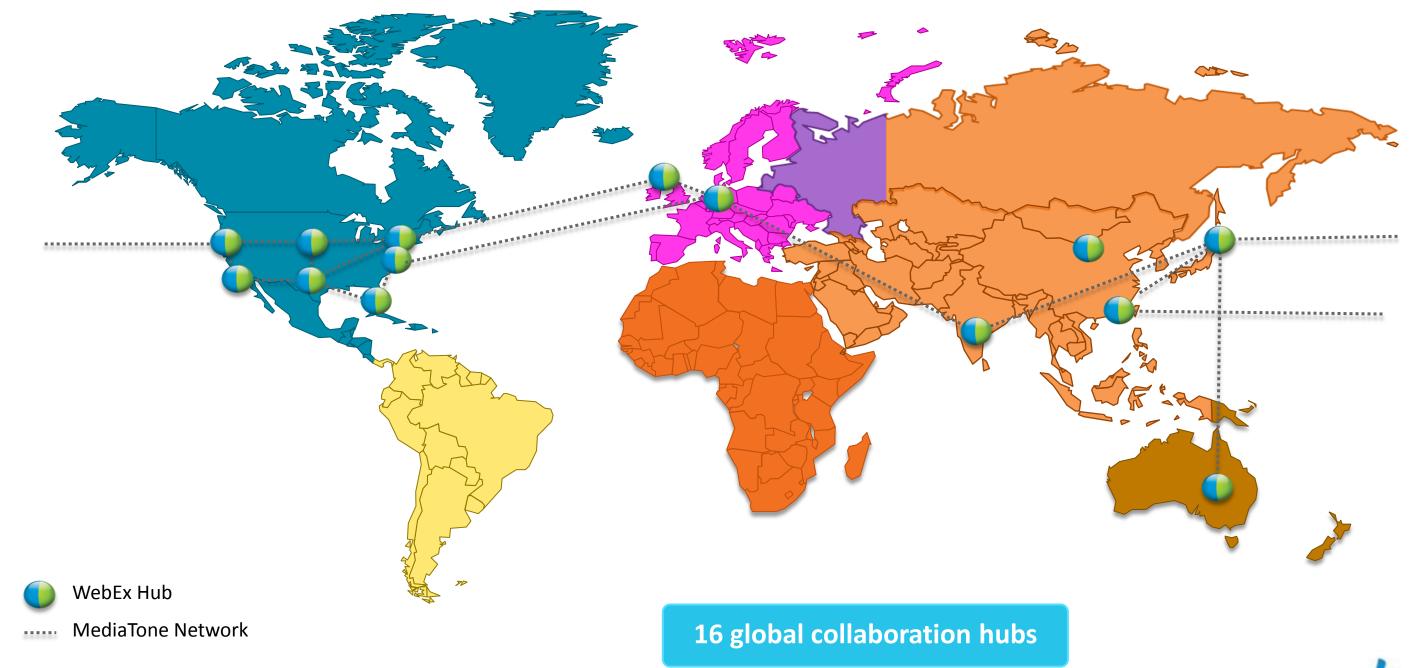




WebEx Cloud



Cisco Collaboration Cloud



Managing Users - Identities in WebEx

There are five options:

- Manually create users
- Self Registration
- Federated Single Sign On

- Bulk import based upon .CSV
- Automated Bulk Import (API)

<u>Home</u>

Manage Site

Site Settings
Tracking Codes
Company Addresses
Email Templates
Meetings in Progress

Manage Users

Add User
Edit User List
Import/Export Users
Edit Privileges
Send Email to All
Session Types

Add Custom Type

Batch Import Users

To upload a comma- or tab-delimited file, select the file to upload, select the type of delimiter your file us contains non-ASCII characters, verify it uses a Unicode comma or tab delimiter.

File name: Choose File No file chosen

Delimiter:

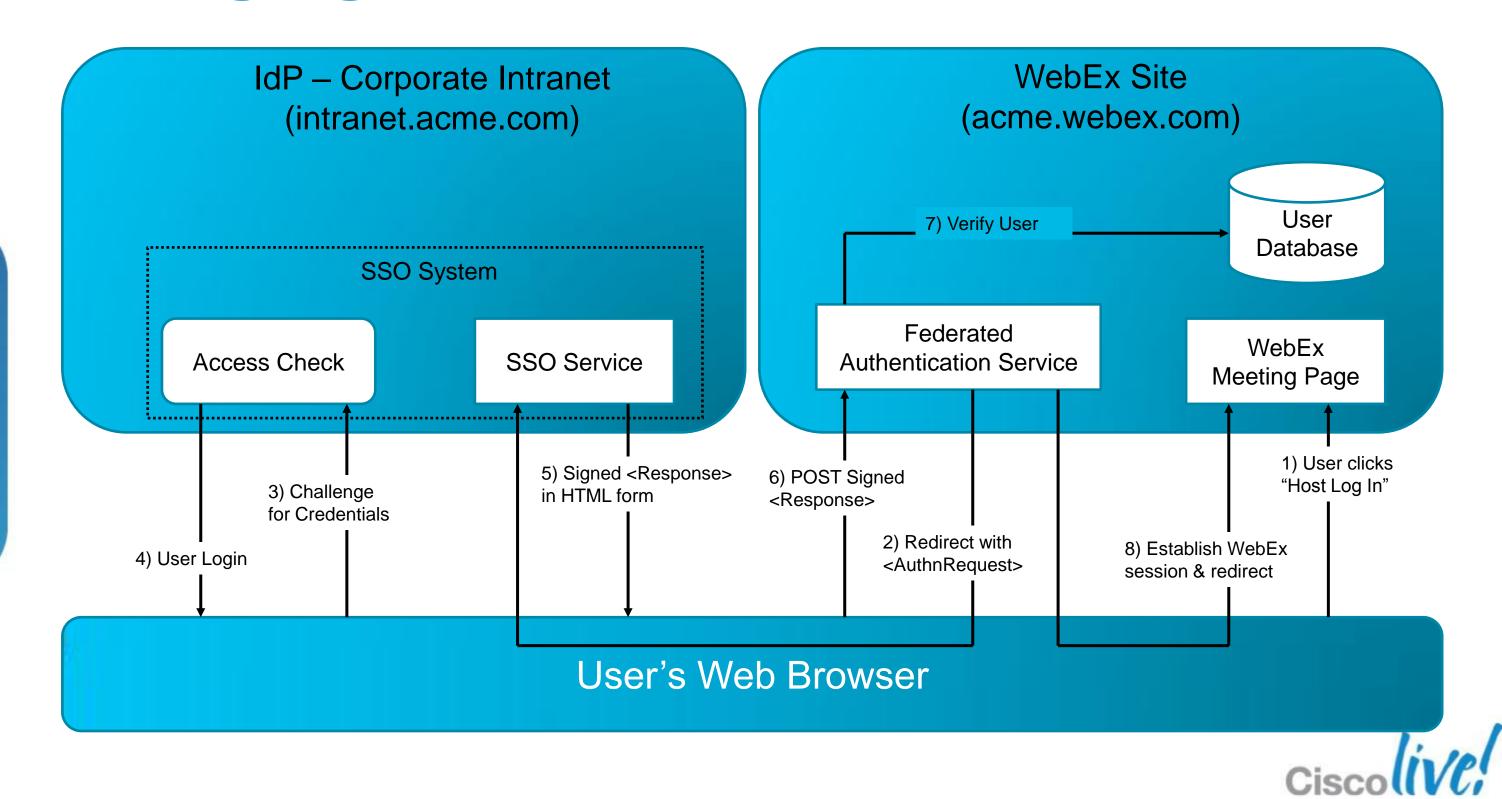
Tab

Comma

Import

For a Unicode tab-delimited TXT (for non-ASCII data) template and more information, click on Example.

Managing Users - Federated SSO



Managing Video - Maximum Bandwidth

The bandwidth required to send the video is higher. The video technology used in the client software is using the multilayer frames to send video and allows the receiving client to automatically select the best possible resolution to receive video. Actual bandwidth used is less then the maximum and it is variable.

		Max bit rate (send)	Max bit rate (receive)
High Definition (HD)	720p (1280x720)	3.0 Mbps	2 Mbps
High Quality (HQ)	360p (640x360)	1.5 Mbps	1 Mbps
Standard Quality	180p (320x180)	0.5 Mbps	0.5 Mbps
6 thumbnails	90p	N/A	0.5 Mbps
1 thumbnails	90p	50 kbps	N/A



WebEx Network Bandwidth Whitepaper

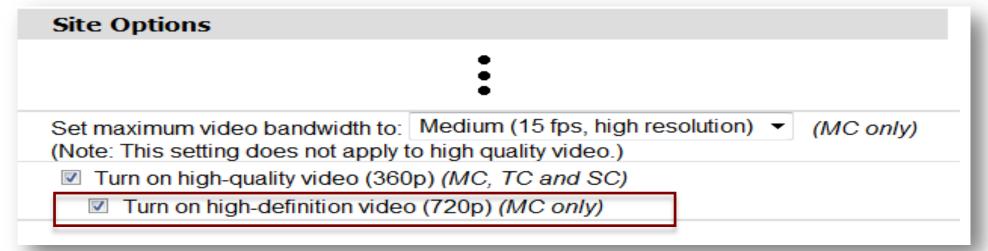
http://www.webex.com/pdf/wp_bandwidth.pdf

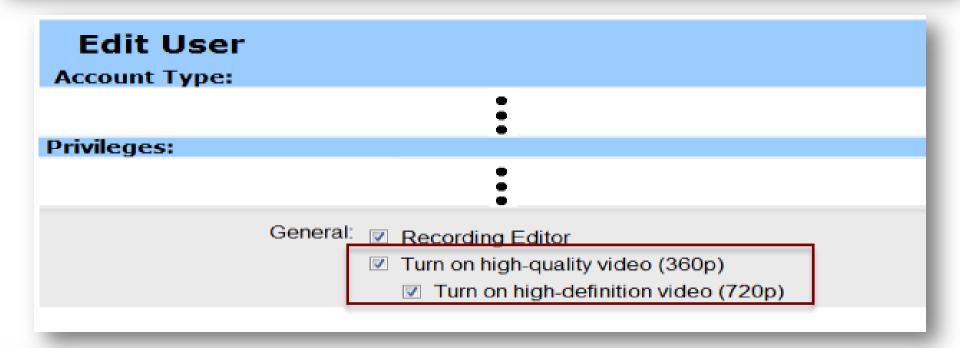


Managing Video – Policy Settings





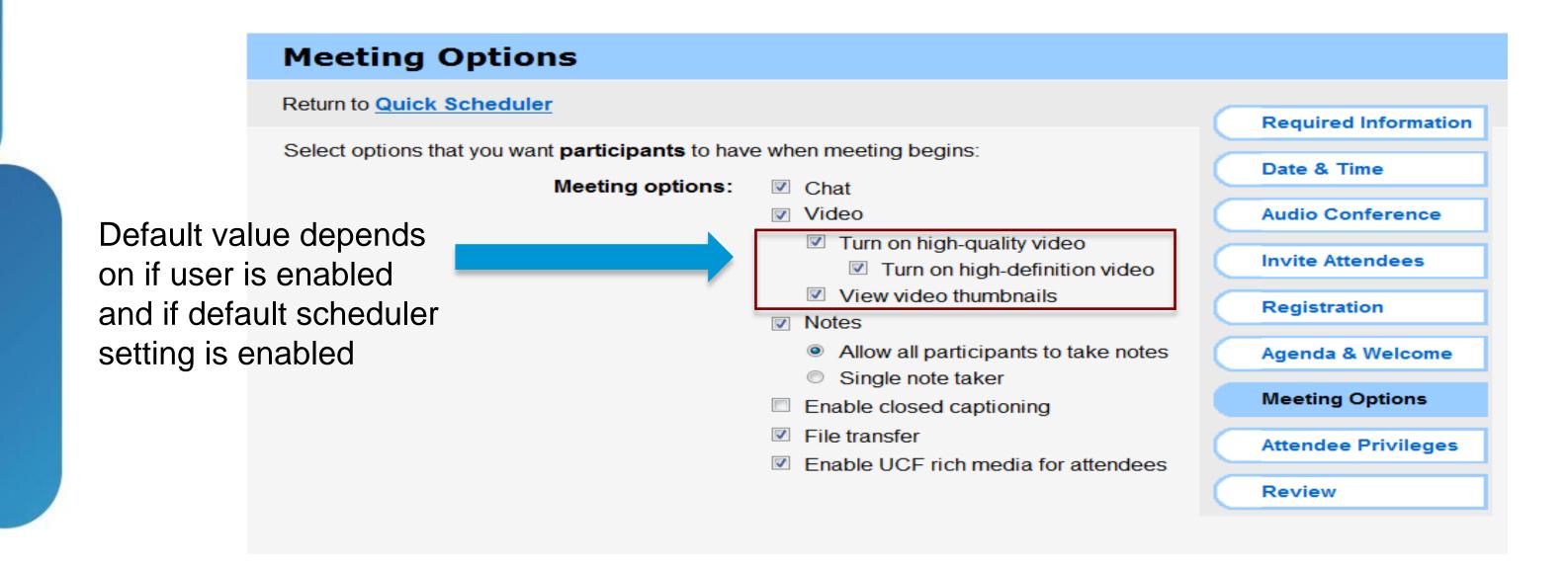




Default Scheduler Optio	ns (These options are applied to the site as defaults, but individual users can change them.)
	•
151 5 440 170	•
Video options (MC and TC only):	✓ Video
	Turn on high-quality video (360p)
	Turn on high-definition video (720p) (MC only)
@ 0010 O:	and/or its offiliates. All rights recomined



Managing Video – User Level Control

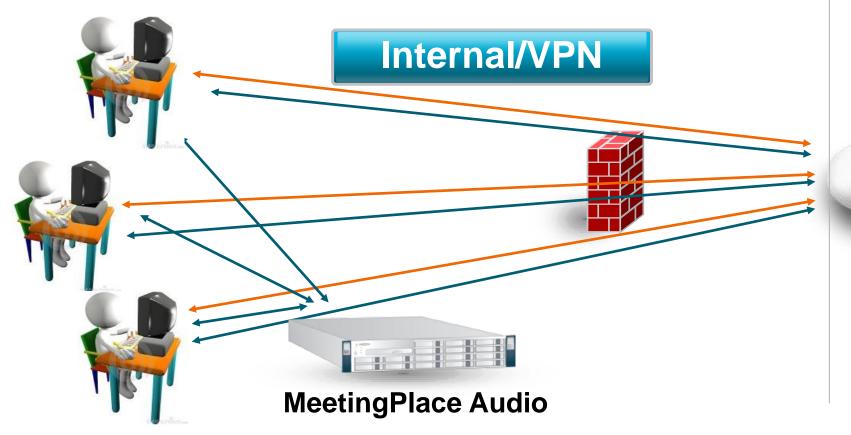


* Enable these options during the scheduling process



Audio – Introducing Meeting Place

- Audio users connect to internal Meeting Place
- Data Sharing & Video is directed to WebEx Cloud

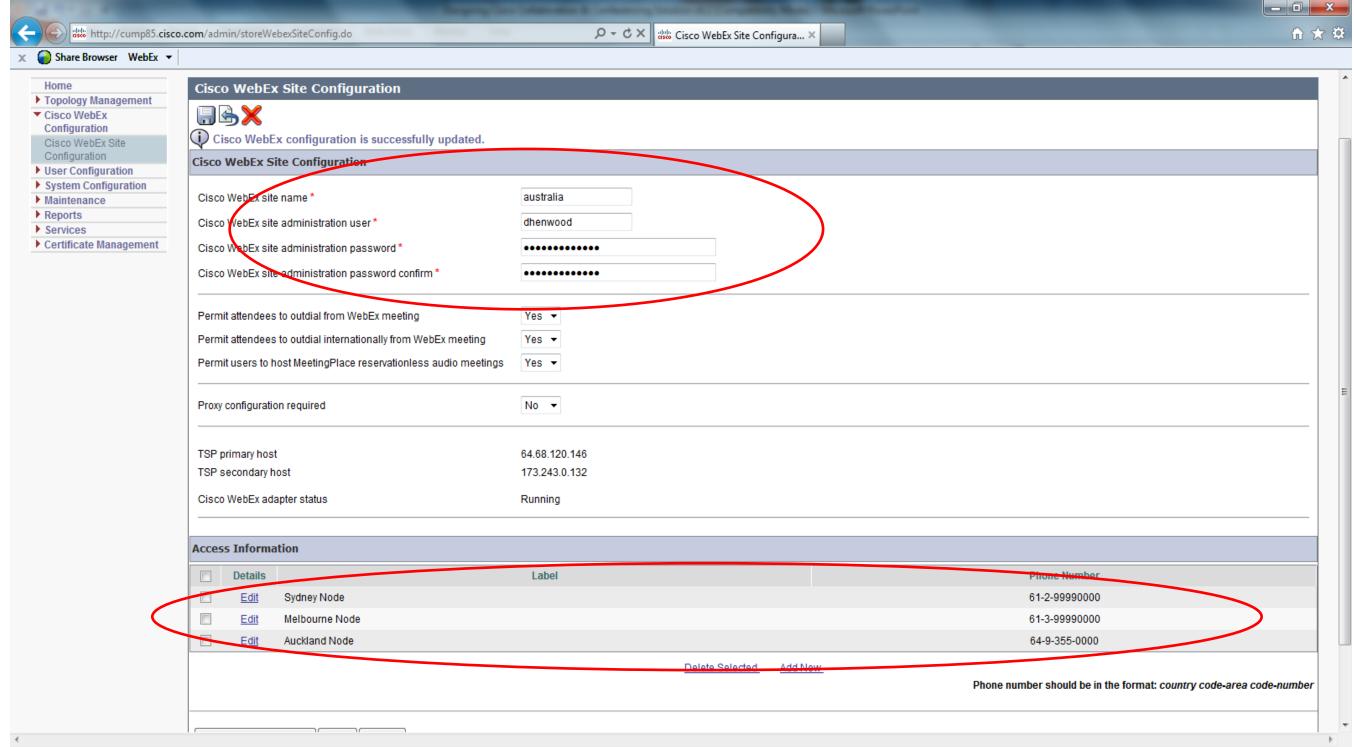




Audio ——
Content Sharing ——

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Audio - Meeting Place Configuration



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Audio - WebEx Site Configuration



Manage Site

Site Settings Tracking Codes Company Addresses **Email Templates** Meetings in Progress

Manage Users

Add User Edit User List Import/Export Users Edit Privileges Send Email to All

Session Types

Add Custom Type Session Type List

Assistance Help

Log out

Advanced Scheduler is Allow hosts to save the Service Request Setti Allow users to request Cisco Unified Meeting View Cisco Unified Meeting Site Options Display banner ad in M Welcome page Display this service to all us

	View Cisco Unified MeetingPlace Integration Settings - Google Chrome		
	https://australia.webex.com/adm0306ld/viewmpadaptor.do?siteurl=australia		
	View Cisco Unified Meet	ingPlace Integration Settings	^
	Setting name	Setting value	
	MP Version	8.5	
	MP Owned Profiles	No	
	PIN Min Length	5	
	PIN Max Length	24	
	PIN Expiration Days	90	
Site Se		Yes	
	Site MP Call-back	Yes	
 Quick Scheduler is defau 	Oite IVII Gail-III	Yes	
 Advanced Scheduler is d 	Audio-only Session	Yes	=
Allow hosts to save their	·	cump85.cisco.com	
	TSP Certificate	View TSP Certificate	
Service Request Settin	Last Modified Time	12/13/11 5:27 pm	
Allow users to request a	Create Time	10/18/11 4:51 pm	
_ / then deed to request a	Audio Broadcast/NBR		
Cisco Unified MeetingP	NBR Dial-out Number	61-2-99990000	
View Cisco Unified MeetingF	NBR Dial-out Sequence	P2D3#P0D%NBRProfileNumber%#P0D%NBRProfilePassword%#P0D%MeetingID%#P1D1P0	
view olded onlined wiedling	NBR Dial-out Profile Number	*****	
Site Options	NBR Dial-out PIN	*****	
Display banner ad in My	MP Phone Numbers		
	1 Sydney Node	61-2-99990000	
Welcome page	2 Melbourne Node	61-3-99990000	
Display this service to all use	3 Auckland Node	64-9-355-0000	
			Close
			+

Audio - WebEx Site Configuration webex

Home Manage Site Site Settings Tracking Codes Company Addresses Email Templates Meetings in Progress Manage Users Add User Edit User List Import/Export Users

Email Templates Meetings in Progress

Manage Users

Add User
Edit User List
Import/Export Users
Edit Privileges
Send Email to All

Session Types

Add Custom Type Session Type List

Assistance

<u>Help</u>

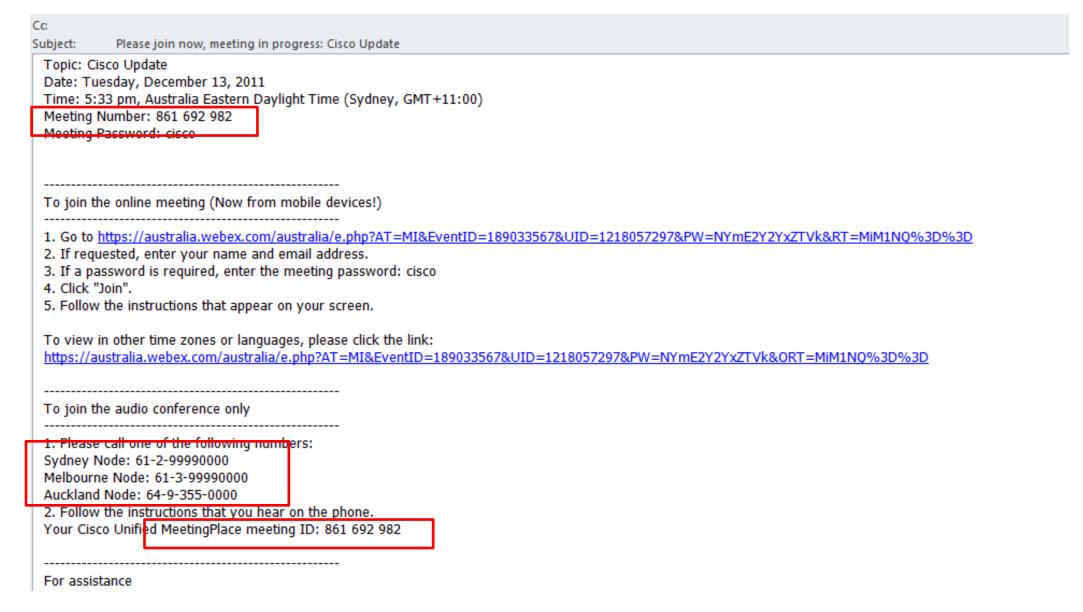
Log out

Edit User
Account Type:
 Host Site administrator Site Admin - View only
* Denotes required fields
Account Information:
First name: Darren
Last name: Henwood
User name: dhenwood
Telephony privilege: Cisco Unified MeetingPlace Audio Conferencing
✓ Call-in teleconferencing
Call-back teleconferencing
Global call-back teleconferencing
WebEx Teleconference Service
Call-in teleconferencing
○ Toll
Toll free
Toll & Toll free
Allow access to teleconference via global call-in numbers
☐ Enable teleconferencing CLI authentication
✓ Host and attendees must have PIN enabled
Call-back teleconferencing
Global call-back teleconferencing
Other teleconference service
☐ Integrated VoIP



Audio - Outlook Scheduling

- WebEx Meeting Number is the same as MP Audio Meeting ID
- Password protected secure meetings





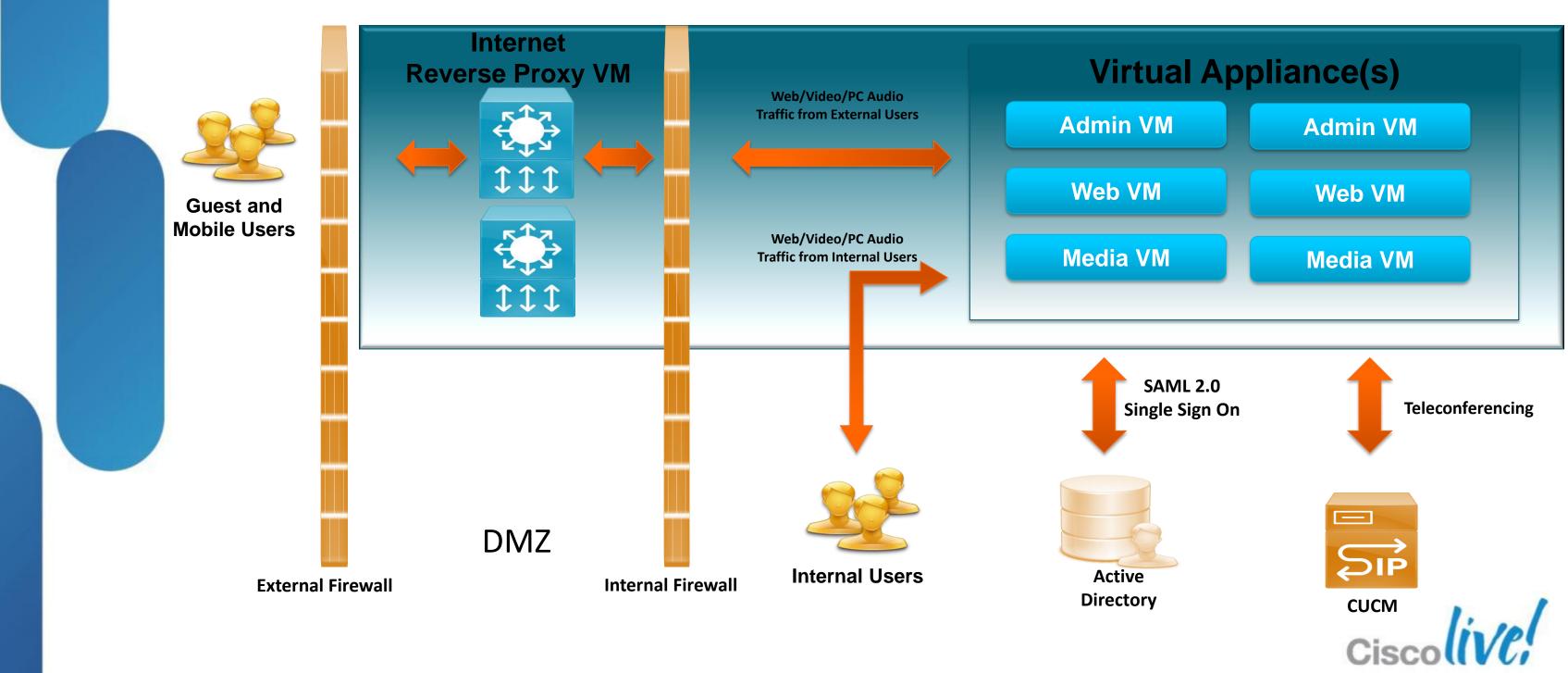


WebEx On-Premise

Cisco WebEx Meeting Server (CWMS)



CWMS High-Level System Architecture



System Capacities

Media Type	50 Port	250 Port	800 Port	2000 Port
100% SIP/PC Audio	50	250	800	2000
Encrypted Audio (sRTP) *	50	250	800	2000
Secured Desktop sharing (SSL)	50	250	800	2000
Maximum concurrent HQ video users	25	125	400	1000
Single Meeting Maximum Size**	50	100	100	100
Maximum simultaneous recordings (=5%)	3	13	40	100
Maximum Active User Profiles in database	250,000	250,000	250,000	250,000

^{*}Includes high fidelity Codecs E.g. G722



^{**}For larger Meetings customer can order Event Centre directly

Server Sizing Guidelines

Model Size Simultaneous Users	Company Knowledge Workers based on usage	Average Minutes Per Month Ranges
50 Ports	~ 500 heavy (10 to 1) ~ 1,000 avg. (20 to 1) ~ 1,500 light (30 to 1)	50-125 K (2500 min/port)
250 Ports	~ 2,500 heavy (10 to 1) ~ 5,000 avg. (20 to 1) ~ 7,500 light (30 to 1)	130-750 K (3000 min/port)
800 Ports	~ 8,000 heavy (10 to 1) ~ 16,000 avg. (20 to 1) ~ 24,000 light (30 to 1)	1000 K - 2.8 M (3500 min/port)
2000 Ports	~ 20,000 heavy (10 to 1) ~ 40,000 avg. (20 to 1) ~ 60,000 light (30 to 1)	3-8 M (4000 min/port)

^{*} Actual usage may vary based on conferencing. Ensure to account for growth



Deployment Layouts

50 Concurrent Users



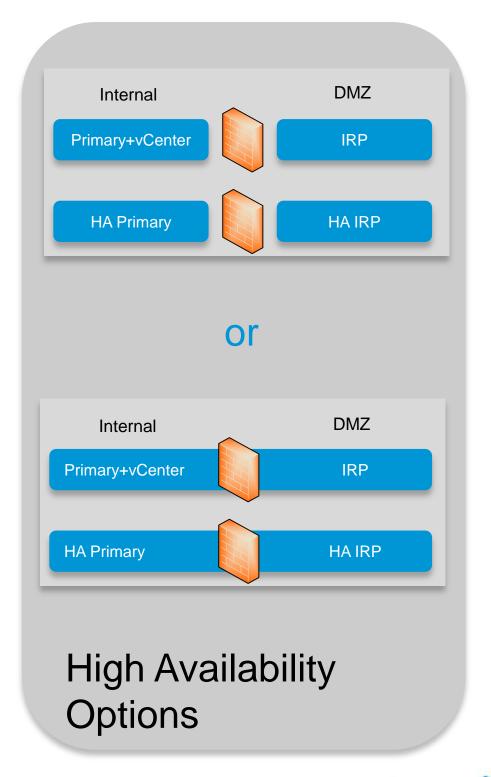
Internal DMZ
Primary+vCenter IRP Of

Primary & vCenter CoResident – IRP separate UCS

Primary, vCenter, IRP CoResident – Dual homed



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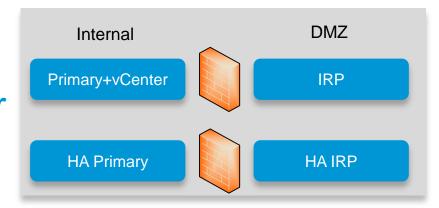
For DR - mirror layout in second DC

Deployment Layouts

250 Concurrent Users

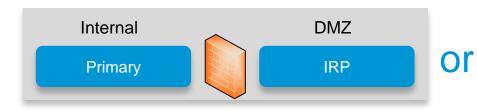


Primary & vCenter CoResident – IRP separate UCS

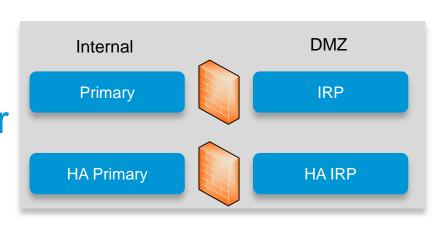


High availability – single DC
Primary can be reside with vCenter

800 Concurrent Users



Primary – IRP separate UCS vCenter still required, but cannot be CoResident



High availability – single DC vCenter still required, but cannot be CoResident



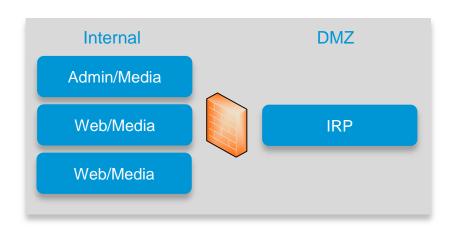




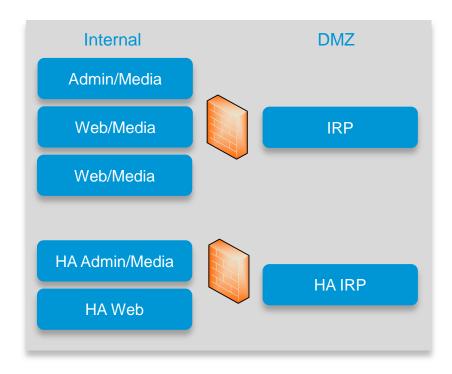
For DR - mirror layout in second DC

Deployment Layouts

2000 Concurrent Users



or



High Availability Option







Network Requirements



General Requirements

Category	System Requirements
UCS	 UCS only, support for 3rd party servers planned No Co-Residency in V1 (vcenter can be co-resident in certain deployment types)
VMware	 VMware 5.0 vSphere 5.0 Standard for lower scale deployments vSphere 5.0 Enterprise Plus for higher scale deployments vCenter mandatory One License per socket
Networking	 LAN DNS must be configured prior to deployment NTP required on ESXi Host Redundant configurations must have all NIC interfaces duplicated and connected to independent switching fabric to support LAN Fault tolerance WAN Similar to WebEx Cloud for HQ Video, Web Sharing, etc.
Storage (Network Attached Storage)	Needed only if customer wants to record meetings and keep system snapshots (for DR)
Teleconferencing	CUCM 7.1, 8.6, 9.0 for SIP Trunk based Teleconferencing
SSO (Single Sign On)	 If using ADFS 2.0 as IdP then customer needs AD (Active Directory) 2008 Other SAML 2.0 SSO Compliant IdP also supported – same as WebEx Cloud PingFederation V6.5.2, ADFS V2, OpenAM V9.5.4

UCS Requirements

	_				
	Common Requirements				
2.4GHz ProcesvSphere ESXi	ssor or above version 5	EX Processor or above) w/AES-NI Mware Management Network	 vCenter version 5 DAS minimum 4 Drives - RAID 10 SAN Supported RAID Battery Backup)	
50 Port Recommended host C220-M3, vSphere Standard, 7200RPM HDD, 1GB NIC, 1TB HDD, Built in RAID					
Primary	IRP	Co-Resident Configurations			
4 cores26 GB RAM1 NIC	4 cores20 GB RAM1 NIC	Primary + vCenter • 8 cores • 36 GB RAM • 1 NIC	Primary + IRP • 8 cores • 40 GB RAM • 2 NIC	Primary + IRP + vCenter • 12 cores • 42 GB RAM • 2 NIC	
250 Port Recommended host C220-M3, vSphere Standard, 7200RPM HDD, 1GB NIC, 1TB HDD, Built in RAID					

Recommended host ozzo-ins, vopriere otandard, rzooki in hob, hob ino, hib hob, built in kalb			
Primary	IRP	Co-Resident Configuration	
12 Cores56 GB RAM1 NIC	12 Cores36 GB RAM1 NIC	Primary + vCenter • 16 Cores • 56 GB RAM • 1 NIC	

800 or 2000 Port

Recommended host C460-M2, vSphere Enterprise Plus, 10,000RPM SAS, 10Gbps NIC, 1TB HDD, LSI 9260-8i

IRP Primary • 40 Cores • 40 Cores • 80 GB RAM • 36 GB RAM • 4 NIC • 4 NIC

End User Requirements

Category	System Requirements
Web User Interface	Browsers Internet Explorer 8+ (32-bit/64-bit) Firefox 9+ (Mac/Windows) Safari for Snow Leopard and Lion, Mountain Lion (Mac) Chrome Latest Releases (Mac/Windows)
Desktop Operating Systems	 Windows XP SP3 and later Windows Vista (32-bit/64-bit) Windows 7 (32-bit/64-bit) Windows 8 Planned Windows Server 2008 (64-bit) Mac OS 10.6 Snow Leopard, 10.7 Lion, and 10.8 Mountain Lion
Calendaring Interfaces	 PC: Microsoft Outlook 2007 SP2+ and 2010 SP1+ (32-bit/64-bit) PC & Mac: Web Calendaring Mobile: iOS WebEx App
Mobile Platform	 iOS v5.1 or later (iPhone and iPad) – same Mobile Meeting Centre Client download as SaaS WebEx Android Planned



Network Bandwidth Sizing

- 1Mb per use base assumption (Audio/Web/Video)
- Typical Enterprise Usage 80% Internal & 20% External
 - Actual customer usage may vary on how they use conferencing and their business practices...some enterprises may be 60/40 or 70/30 or 90/10
 - 800 Port system Assume 80% internal/20% External

```
Internal = 800 \times 80\% = 640 \times 1 MB = 640 MB on LAN/WAN maximum
```

External = 800 x 20% = 160 x 1 MB = 160 Mb on Internet Proxies/Firewalls maximum



WebEx Network Bandwidth Whitepaper www.webex.com/pdf/wp_bandwidth.pdf



Storage Sizing

- Customer Provided NFS
- Recording
 - Average Daily Meetings(AVG)
 - Business Days per Month(BDM)
 - % of meetings recorded per month(MR)
 - Application Sharing(AS)
 - Audio(A)
 - Video(V)
 - Retention in Months(R)



??

22 weekdays

5%

36MB/HR

30MB/HR

104MB/HR

??



- AVG x BDM x MR x (AS x % of meetings using app sharing) x (A x % or meetings using audio(100%)) x (V x % of meetings using Video) x R
- NFS also used to store system backup (~400MB)



Understanding DNS – Split Horizon



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"In computer networking, split-horizon DNS, split-view DNS, or split DNS is the facility of a Domain Name System (DNS) implementation to provide different sets of DNS information, selected by, usually, the source address of the DNS request.

Implementation of split-horizon DNS can be accomplished by running distinct DNS server devices for the desired access granularity within the networks involved."

Name	IP Address
CWMS.acme.com.au	10.20.30.40

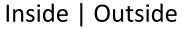
Name	IP Address
CWMS.acme.com.au	64.104.200.40





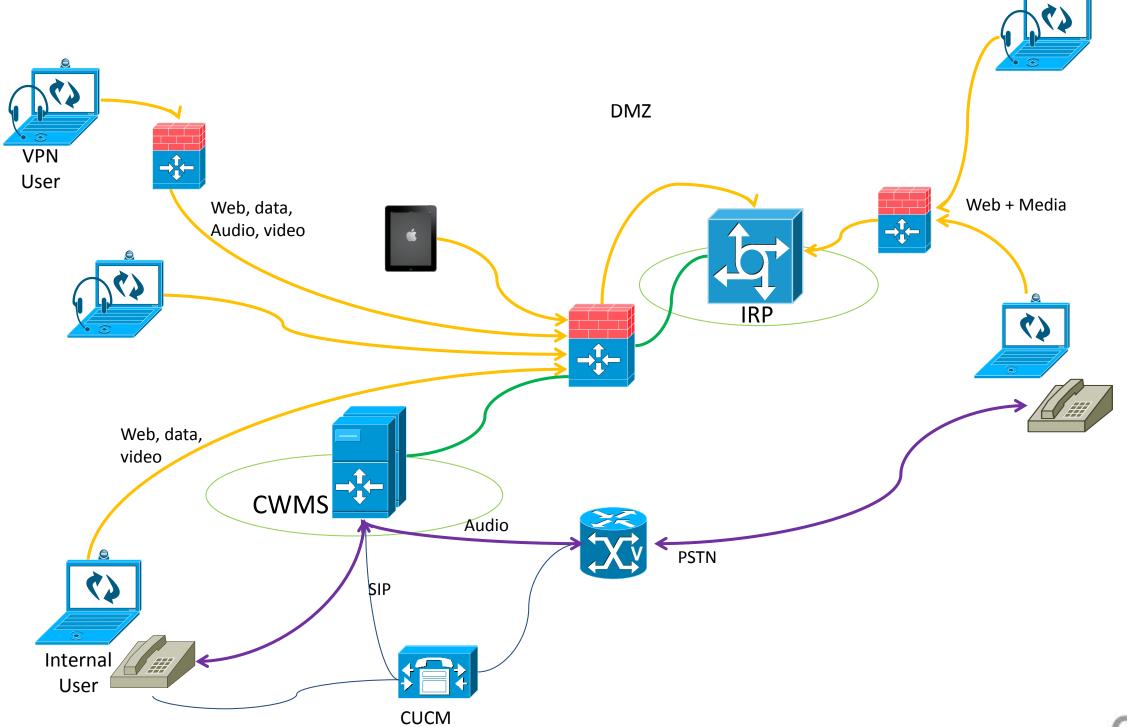




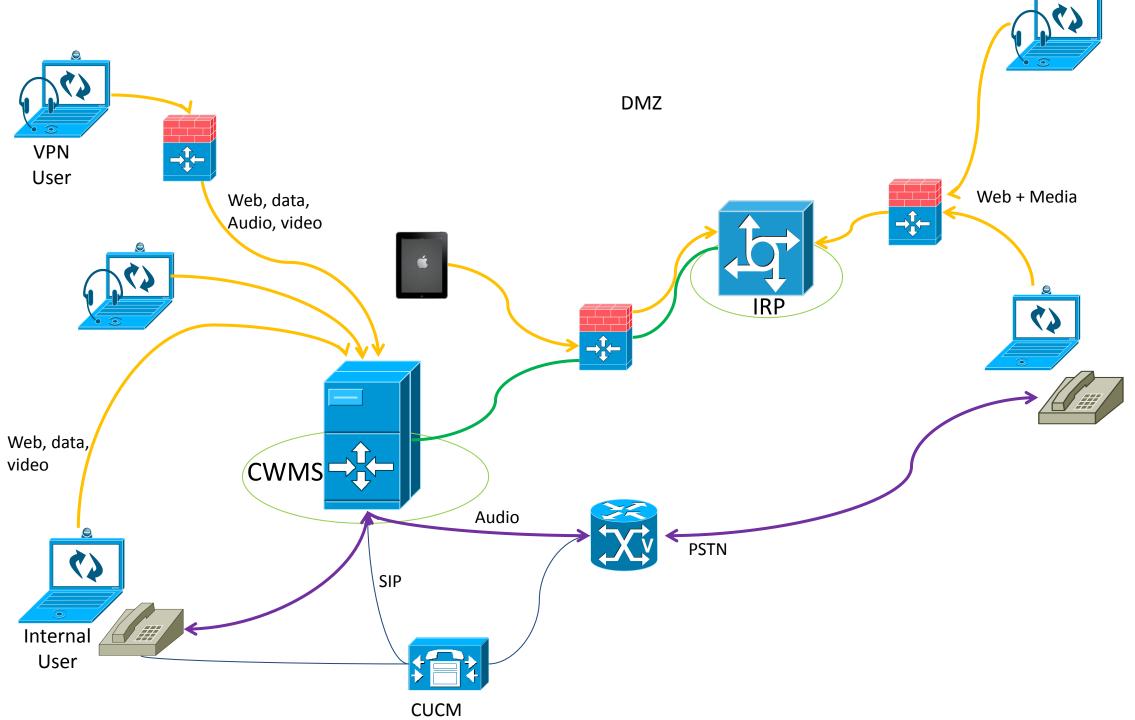




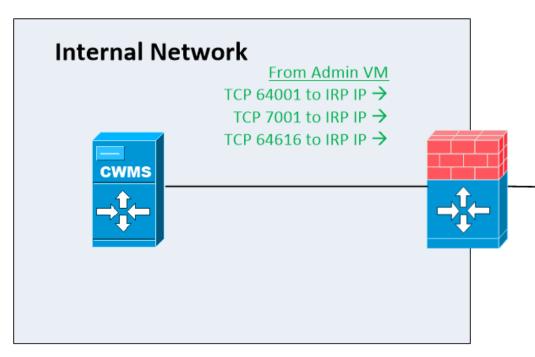
Non-Split Horizon CWMS DNS Model



Split-Horizon CWMS DNS Model

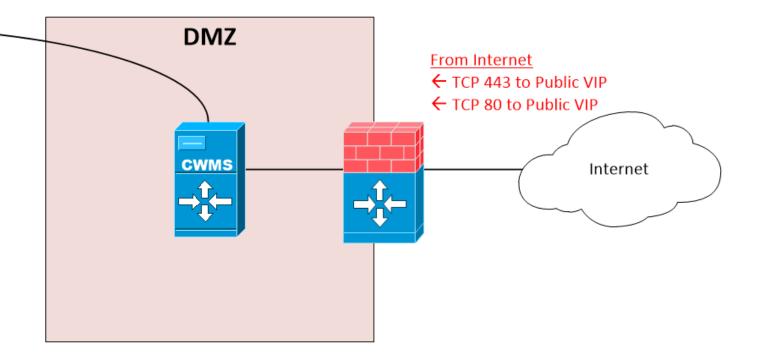


Network Port Requirements



From IRP

← UDP 162 to Admin IP ← UDP 10162 to Admin IP



DNS Table

HostNameInternal IP AddressAdmin-vm.domain.com172.16.1.100Media-vm.domain.com172.16.1.101IRP-VM.domain.com172.16.2.102

User-Site.domain.com Public VIP
Admin-Site.domain.com Private VIP

Notes:

Private VIP must be in the same subnet as Admin/Media VM Public VIP must be in the same subnet as IRP VM

Internet Reverse Proxy (IRP) recommended in the DMZ

Ports 443 and 80 will need to be open inbound to the IRP.

Other ports (listed) will need to be open inbound from the IRP to CWMS and outbound from CWMS to the IRP.

Deployment Steps

- List of hostnames and IP addresses to use for the actual VMs
- Know how you want to place each VM on which blade
- Private VIP
- Public VIP if using a DMZ
- Extra DNS entry for admin URL
- Extra DNS entry for site URL (or 2 if using split horizon)
- Logon information for vCenter
- SMTP server for the new account emails
- Email address for the primary administrator







Audio Integration

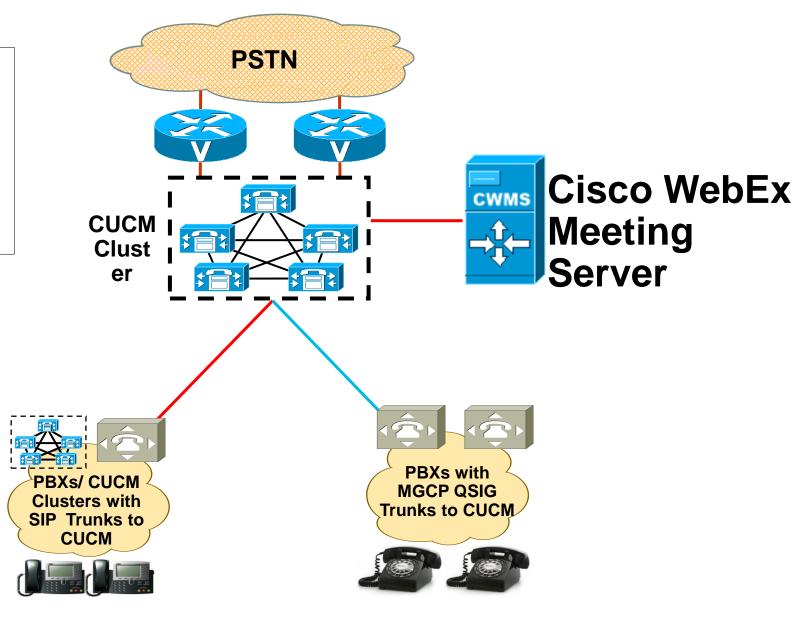


Audio Deployment

Dial-In Examples:

1800 123 456 (03) 9999 0000 x5000 Toll Free Direct Internal

Or CallBack



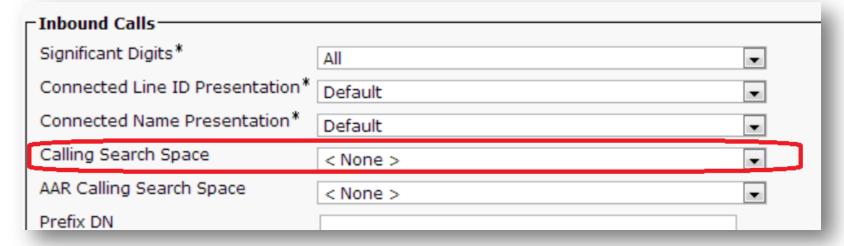
- CWMS requires a SIP trunk to CUCM. Any supported connection from CUCM to a destination is then available; such as H323, MGCP, QSIG, SIP, etc.
- Alternatively, CWMS supports using your PC's audio VoIP



Call Control – Inbound/Outbound

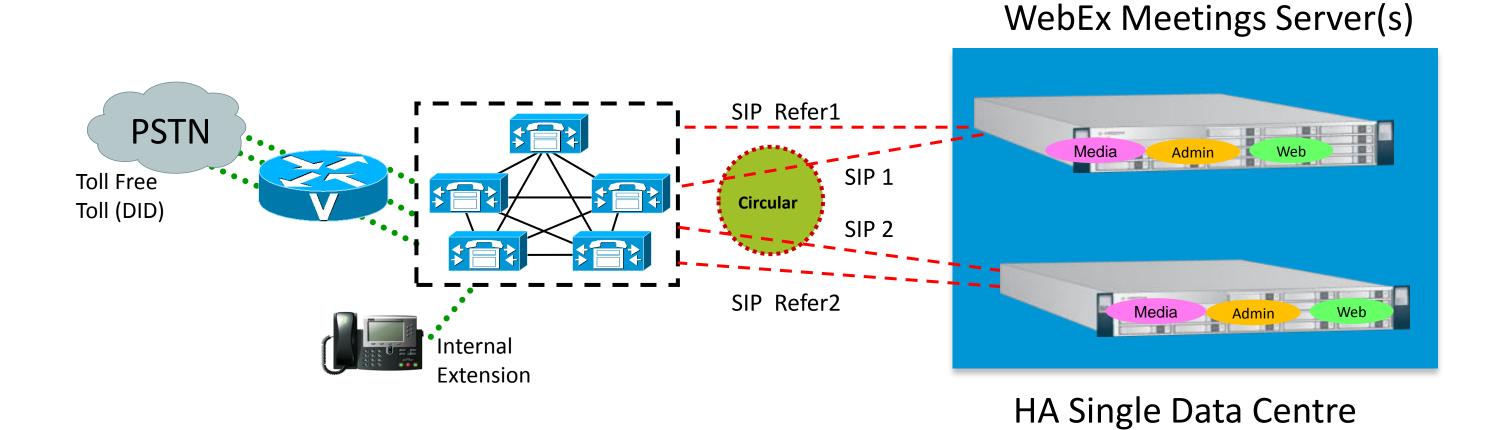
- Call-back Teleconferencing
 - Best End User experience to Join Web session first, then use Callback
 - Most efficient call processing methodology
 - Controlled via SIP trunk outbound to CUCM
 - Can be disabled

- Dial In Teleconferencing
 - SIP Trunks
 - Inbound Calling can be from unlimited number of CUCM clusters OR via intercluster trunks (ICT) between all clusters to a centralised CUCM
 - Typical customer deployments are with 3 phone numbers: toll free, toll and internal dial numbers pointed to SIP trunks inbound to CWMS system.
 - Uses SIP Refer to provide load balancing across redundant systems



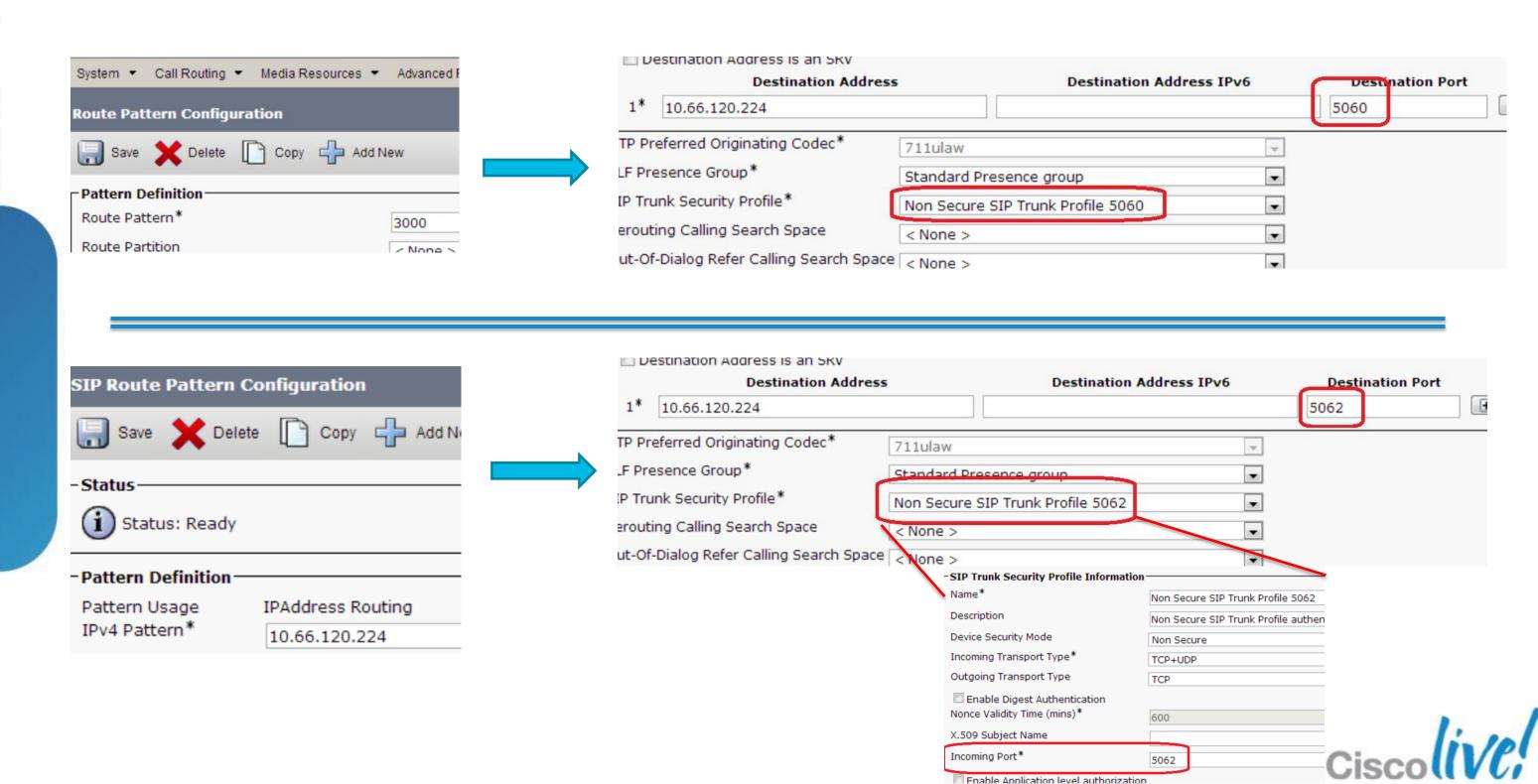


SIP Trunking to CUCM





SIP Trunking to CUCM



Cisco Public

Audio Parameters



- There is no loss in capacity when using complex/low bitrate codecs For the best user experience we recommend G722 for the best quality audio. Other codecs include G711 and G729
- Can set QoS for SIP Audio Outbound Call-back
- Unified Communications Sizing Tool CWMS is now available http://tools.cisco.com/cucst/faces/newSol.jsp
- The most commonly purchased edition of CWMS has TLS/SRTP audio encryption available
 - Turkish and Russian customers may only purchase the "-AU" edition which lacks TLS/SRTP and is thus compliant with Russian / Turkish import laws



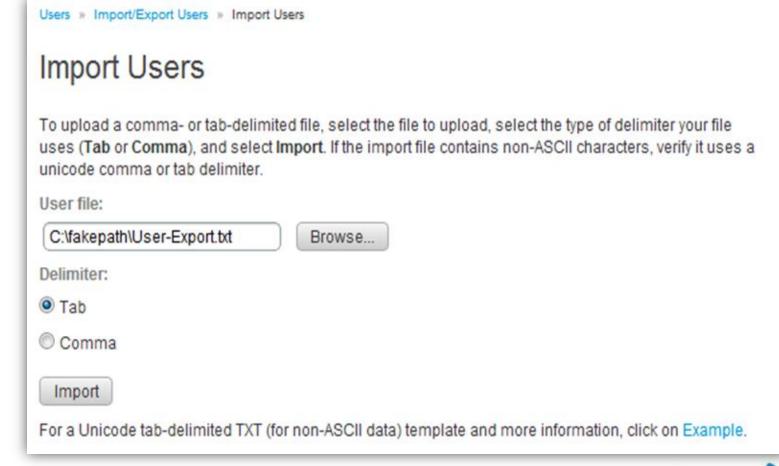
End User Management/SSO



Managing User Profiles in WebEx

There are three options:

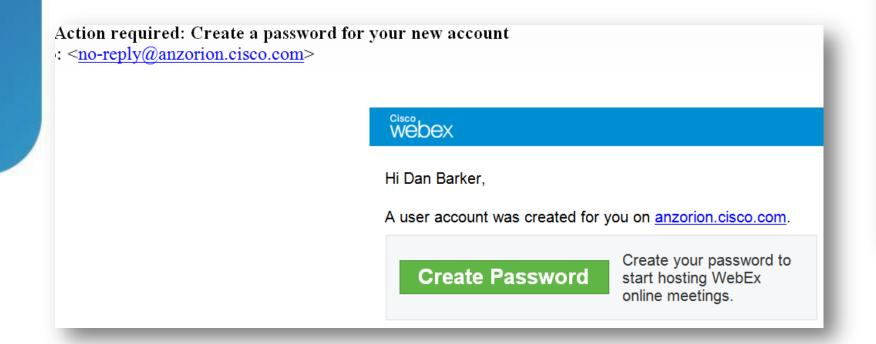
- Manually define individual using administrative GUI
- Bulk import based upon .CSV
- Federated SSO (Automated)
 - SAML 2.0 SSO End User Authentication
 - Auto-Create Profile (Optional)

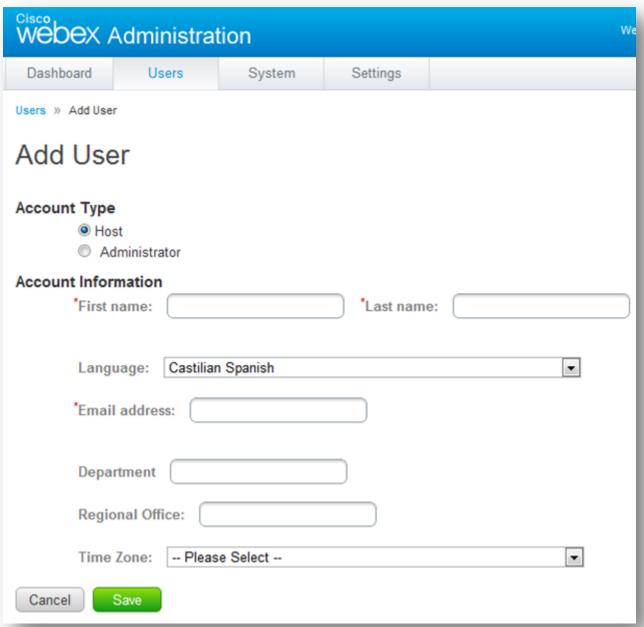




User Profile Parameters

- Required Fields (First Name, Last Name, Email)
- Optional (10) customisable fields available
- User receives email to set password



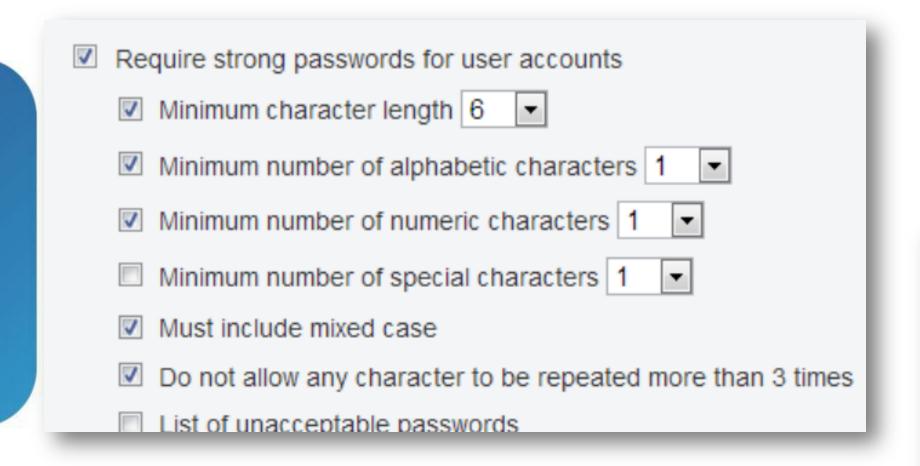




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User Authentication

 Administrators can manage accounts and password requirements, as well as deactivate accounts.







CWMS Single Sign On

- Enabled by Administrator if needed
- Users do not need to remember WebEx usernames or password
- No user passwords are stored
- Requires an Identity and Access Management (IAM) system that conforms to:
 - Security Assertion Markup Language (SAML) 2.0
- Customers use native 'Attribute/Group' filtering capabilities found in the IDMS to allow groups of users access permissions
- WebEx Server Internet Reverse Proxy (IRP) allows authentication through firewall as long as IAM will allow authentication as well from outside firewall.
- X.509 Security Certificate uploaded into WebEx Server



WebEx SSO Customer Requirements

- SAML 2.0 Compliant Identity & Access Management System (IAM)
 - Microsoft Windows Server AD Federated Services(ADFS) and Geneva
 - CA SiteMinder
 - Ping Identity PingFederate
 - Sun Microsystems OpenSSO Enterprise
 - Others SAML 2.0 compliant

- X.509 Digital Certificate & SSL TLS Encryption
 - Granted by Certificate Authority Or Customer generated



Integrated Windows Authentication (IWA)

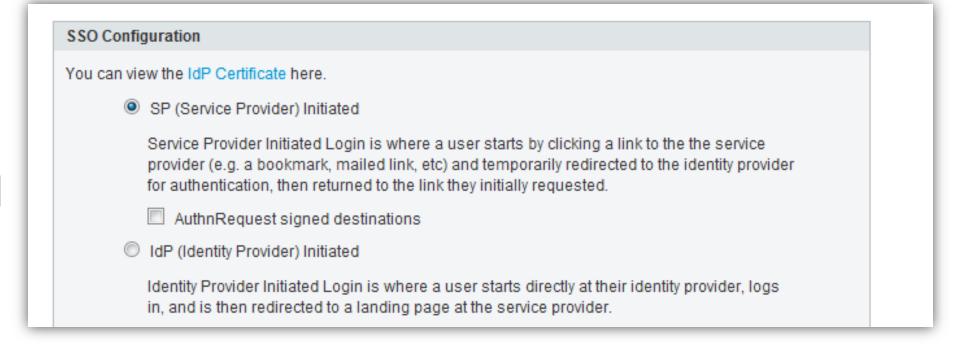
- Customer AD Federated Services (ADFS) needs to be configured for IWA
- After logging into Windows PC, no need to enter UserID/Password for WebEx meetings/scheduling
- Windows generates Kerberos/NTLMSSP token which IDMS validates and WebEx Federated SSO does not prompt for any userID /Password.



Federated SSO Types

- IdP Initiated
 - Identity Provider Initiated
 - SAML 2.0

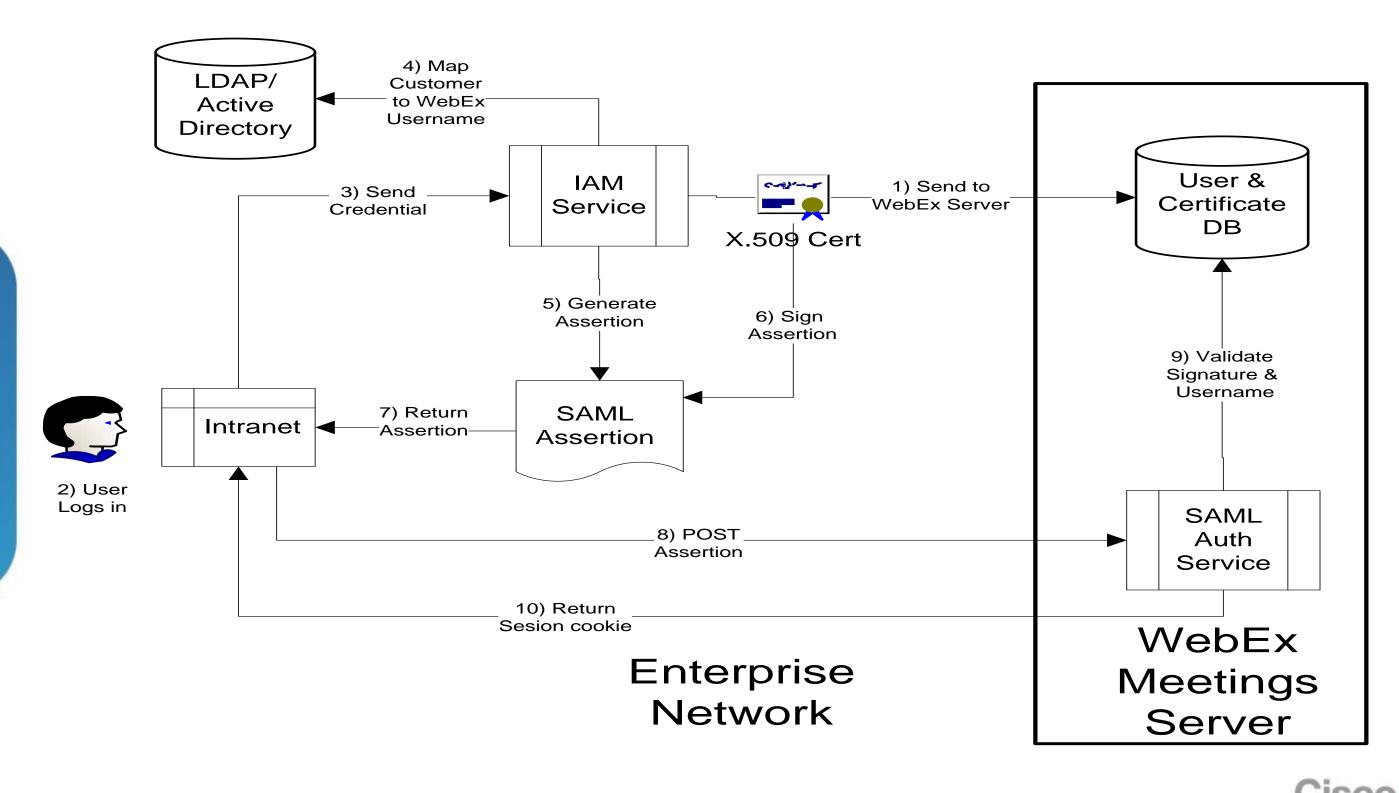
- SP Initiated
 - Service Provider Initiated
 - (WebEx Server)
 - o SAML 2.0



PingFederation 6.5.2, ADFS V.2, OpenAM 9.5.4



SSO Authentication Process flow SP Initiated



Auto-Account Creation & Update

- Admin Settings for SAML 2.0
- Mandatory creation fields
 - o lastname, firstname, email
- WebEx Server User Profiles receive all default permissions
 - Single logout

 Auto account creation

 Auto account update

 Remove UID domain suffix for Active Directory UPN





High Availability



CWMS Redundancy Models – 3 options

- Non-redundant Centralised (Recommended for initial deployment)
 - No redundant components
 - Single Data Centre only
 - With Internet Reverse Proxy (IRP) for External Access or without IRP
- Level 1: High Availability (HA) (Can be added on after initial deployment)
 - Centralised Single Data Centre multiple servers/blades (N+1)
 - Active/Active resiliency load sharing between all like VM's
 - <1ms latency between VMs</p>
 - With Internet Reverse Proxy (IRP) or without IRP (no external web access)



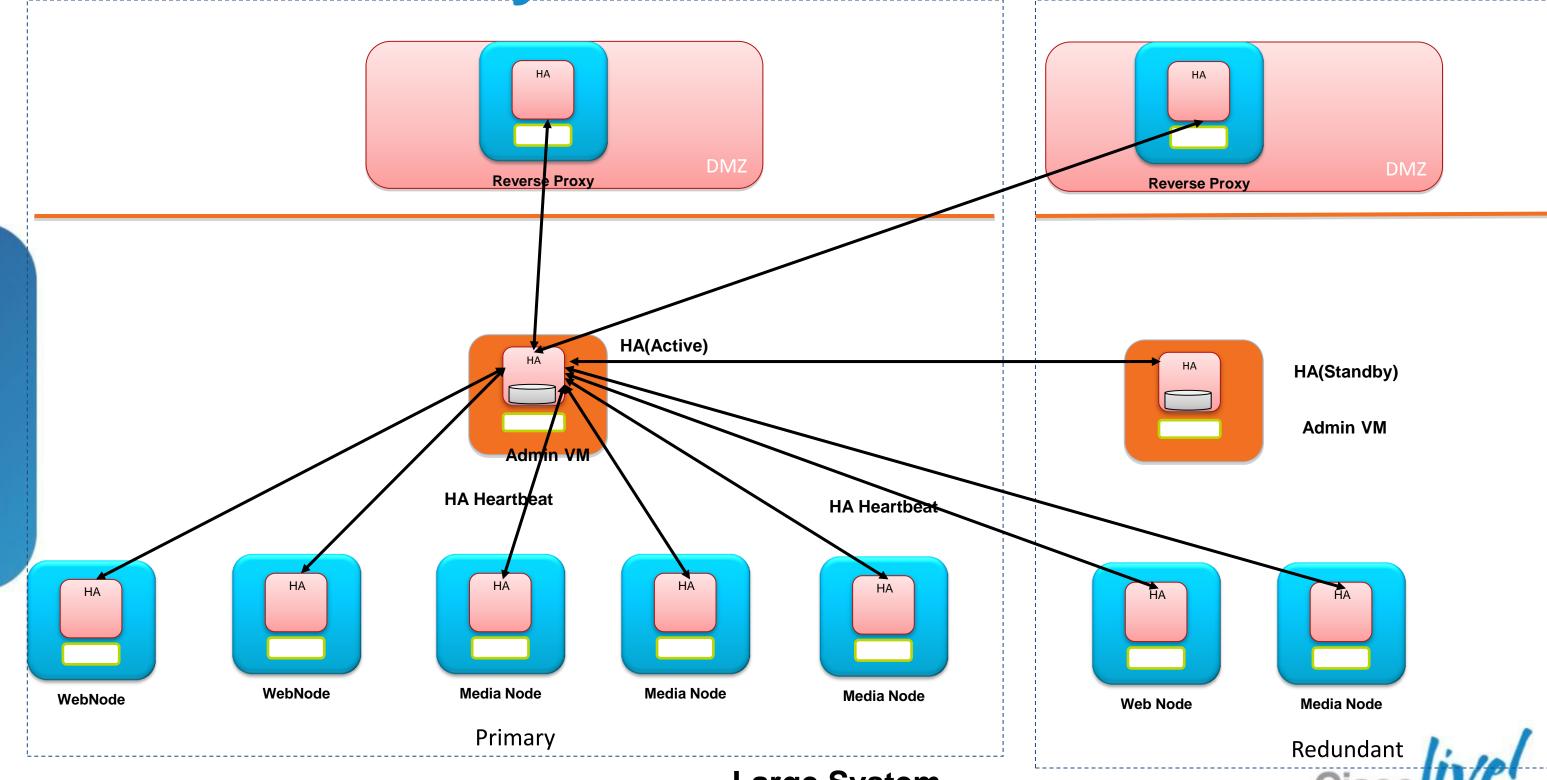
- Level 2: Disaster Recovery (DR) (Can be added on after initial deployment)
 - Dual Data Centre model "cold standby" mode
 - Multiple ways to "enable" this site
 - Requires IT manual intervention to use DR Site system
 - Restore DB, change DNS routing, change CUCM SIP Routing



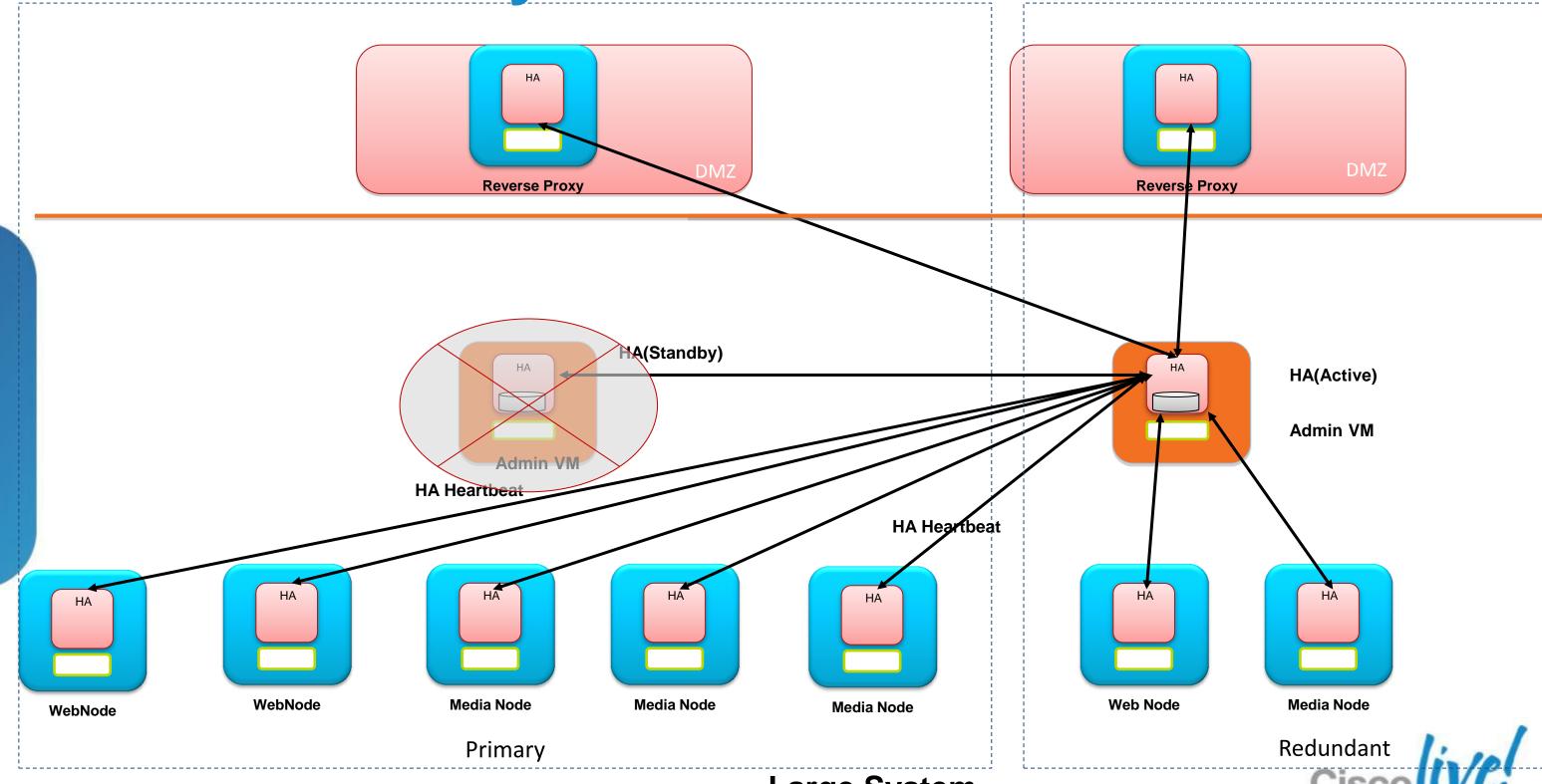
High Availability

- The goal of adding a redundant system is to provide "no single point of failure".
- The redundant systems for Micro, Small and Medium are exactly same as the primary systems in terms of VMs/nodes.
- The Large redundant system has one each of the Admin, Media, Web and DMZ on the redundant side.
- In case of failure of the 'Active HA' on the primary Admin VM, the 'Active HA' can failover to the redundant Admin VM.
- There is no failback of HA to the Primary Admin VM unless there is a failure on the redundant Admin VM.

Redundant System



Redundant System



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System Status

System » Properties

Properties

Primary System				
Virtual Machines	Hostname	IPv4	IPv6	Status
2000_Users_Admin	orion-webadmin- vm30.cisco.com	172.27.224.120		✓ Good
2000_Users_Internet_Reverse_Proxy	orion-webadmin-vm3.cis	sco.com 10.194.133.157		✓ Good
2000_Users_Media	orion-webadmin- vm33.cisco.com	172.27.224.123		✓ Good
2000_Users_Media	orion-webadmin- vm34.cisco.com	172.27.224.124		✓ Good
2000_Users_Media	orion-webadmin- vm35. cisco. com	172.27.224.125		⊗ Down
2000_Users_VVeb	orion-webadmin- vm31.cisco.com	172.27.224.121		✓ Good
2000_Users_Web	orion-webadmin- vm32.cisco.com	172.27.224.122		✓ Good

High Availability System				
Virtual Machines	Hostname	IPv4	IPv6	Status
2000_Users_Internet_Reverse_Proxy	orion-webadmin-vm4.cis	co.com 10.194.133.158		✓ Good
2000_Users_VVeb	orion-webadmin- vm45.cisco.com	172.27.224.135		✓ Good
2000_Users_Admin	orion-webadmin- vm44.cisco.com	172.27.224.134		✓ Good
2000_Users_Media	orion-webadmin- vm46.cisco.com	172.27.224.136		✓ Good





Recordings



CWMS Recording Elements

Combined files include any of these functions used in meetings

- Application Share, Desktop Share
- Document View, Presentation, Whiteboard
- Participant List who's speaking/sharing
- HQ Video (view from Presenter)
- Chats
- Polls
- File Share(s)



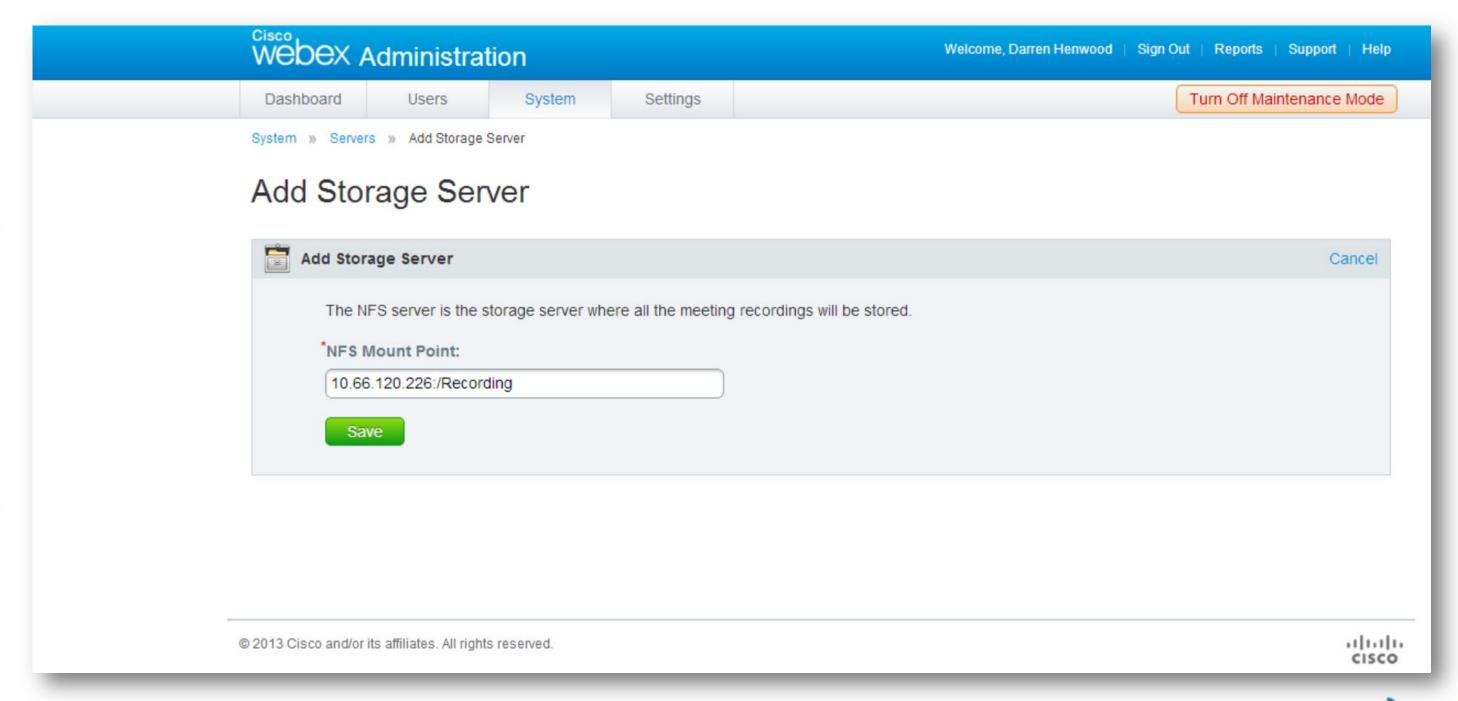
Recordings

- Recordings are streaming only (no download or conversion supported)
- WebEx ".arf" formats (proprietary)
- A unique URL link to the current recording is associated so that a user can look up at the meeting later.
- Available to both internal and external users via URL Link
 - External users via Internet Reverse Proxy (IRP)
- Recordings Saved period is End User controlled no automated expiration
- Administrator can Enable or Disable Recordings system wide
- Requires Customer provided NFS Server on network for Recording storage



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CWMS Recording Setup







General



Cisco Jabber Integration

Cisco Jabber integration

Requires CWMS 1.1

Windows XP, Vista and Windows 7 only

Currently, no SSO (Single Sign On) support

Launch WebEx meeting from daily calendar

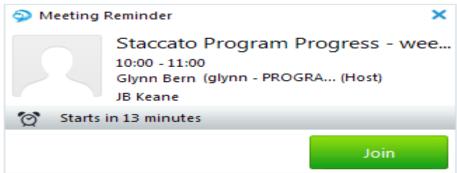
Launch an instant WebEx meeting

Remind me of my upcoming meetings

Jabber for Mac, iPad and iPhone

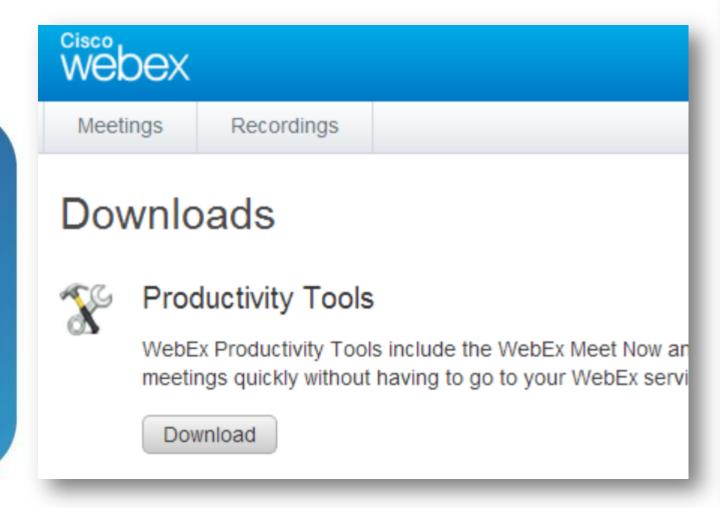
Road-map for CWMS Phase II

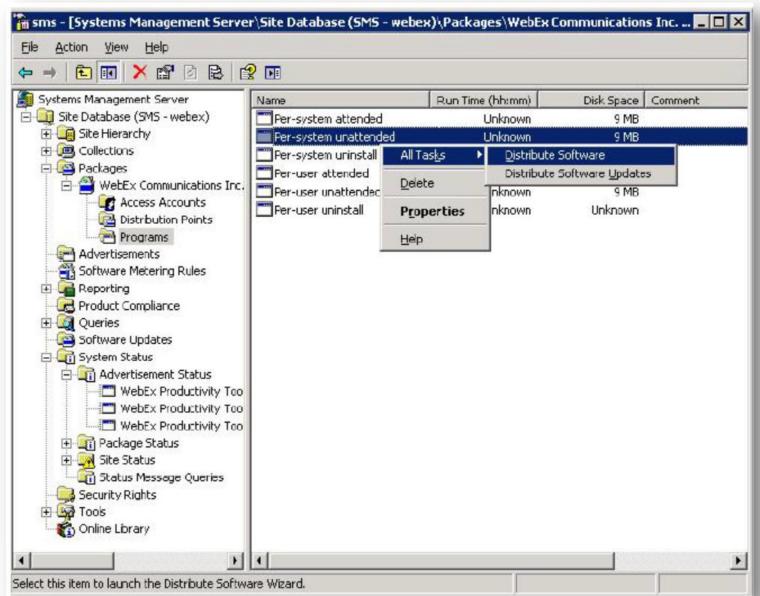






Productivity Tools Distribution







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Upgrade Procedure



Version format: 1.0.1.157.A [Major.Minor.Maintenance.BuildNumber.Line]

Fresh installation

In the form of OVA: cisco-webex-meetings-servers-1.0.1.6.A.ova

Update

In the form of ISO: cisco-webex-meetings-servers-1.0.1.101.A.ISO ISO package for an official release is available if an update to this release from prior release is supported

Patch

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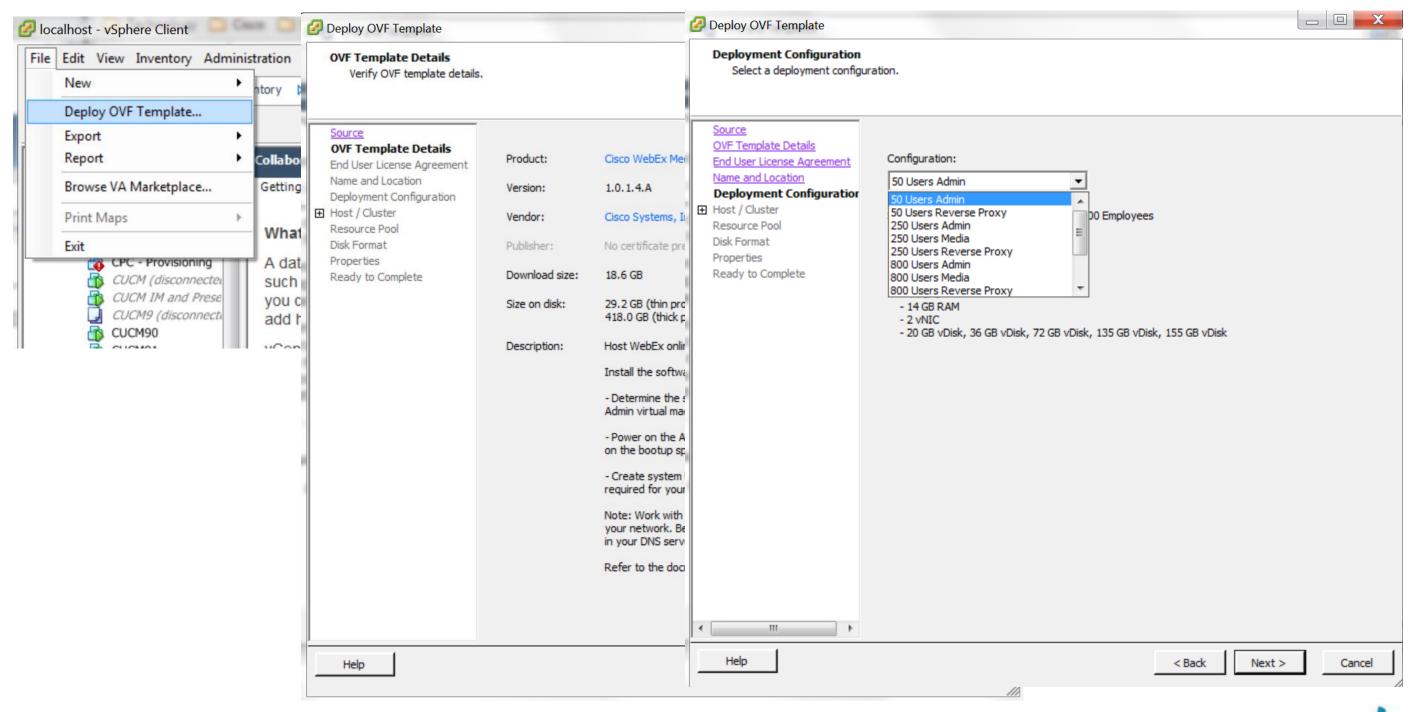
Always in the form of ISO package

Upgrade, Expand

Use OVA install new System



vCenter – Creating OVA



Troubleshooting – Logs



Support

Open/View Support Cases

Looking for technical support? Open a case with Cisco Technical Assistance Center (TAC). To open a case, you must have a service contract.

Cisco Technical Assistance Center (TAC): http://www.cisco.com/cisco/web/support/index.html

Debugging

Generate and examine logs to help debug your system. If you need additional assistance, contact the TAC.

A customer support representative might request that you create a Remote Support Account that the TAC can use to access your system.

Logs

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Remote Support Account

Type	Log File
Audio (SIP Signalling)	\logs\ccapi
Core	\logs\core

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Resources



Resources

CWMS Planning Guide

http://www.cisco.com/en/US/docs/collaboration/CWMS/b_planningGuide.pdf

CWMS System Requirements

http://www.cisco.com/en/US/docs/collaboration/CWMS/b_System_Requirements.html

CWMS Administration Guide

http://www.cisco.com/en/US/docs/collaboration/CWMS/b_administrationGuide.pdf

CWMS Release Notes

http://www.cisco.com/en/US/docs/collaboration/CWMS/b_Release_Notes.pdf

Single Sign On Material

https://developer.cisco.com/web/webex-developer/sso-reference





Q&A



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communities, and on-demand and live activities throughout the year. Log into your Cisco Live portal and click the "Enter Cisco Live 365" button.

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Appendix

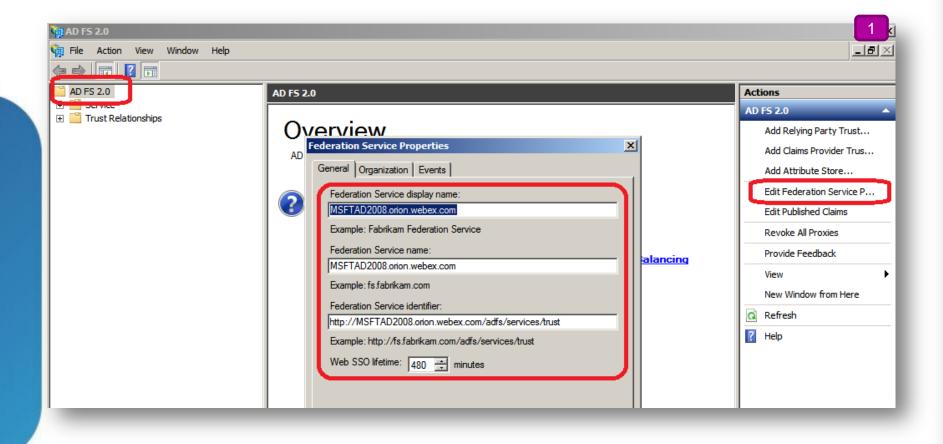


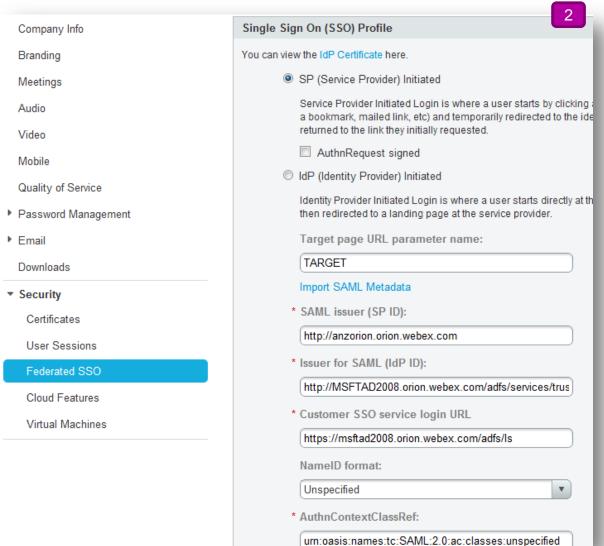


Single Sign On Details



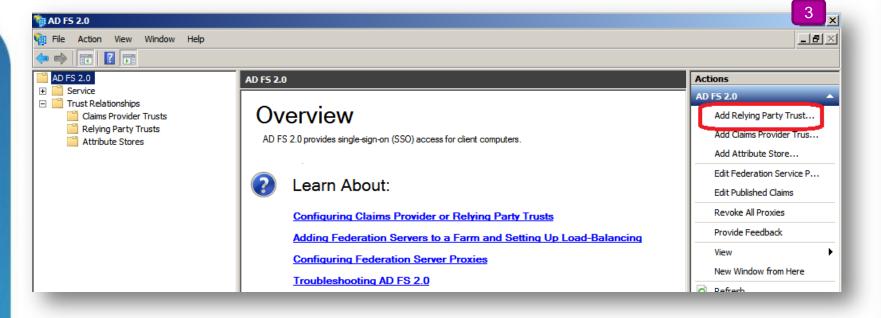
Enabling SSO for CWMS

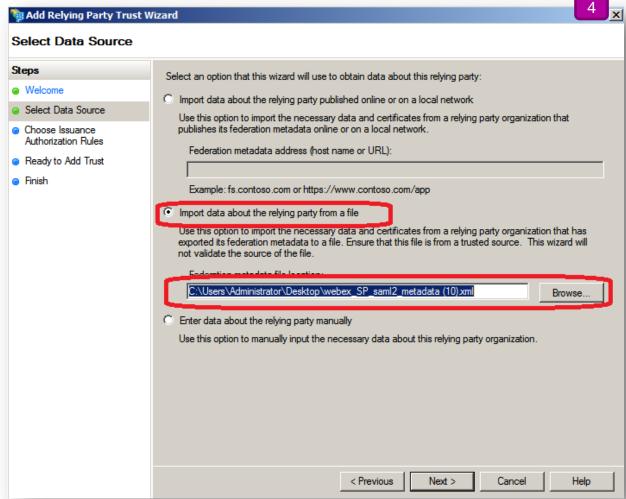






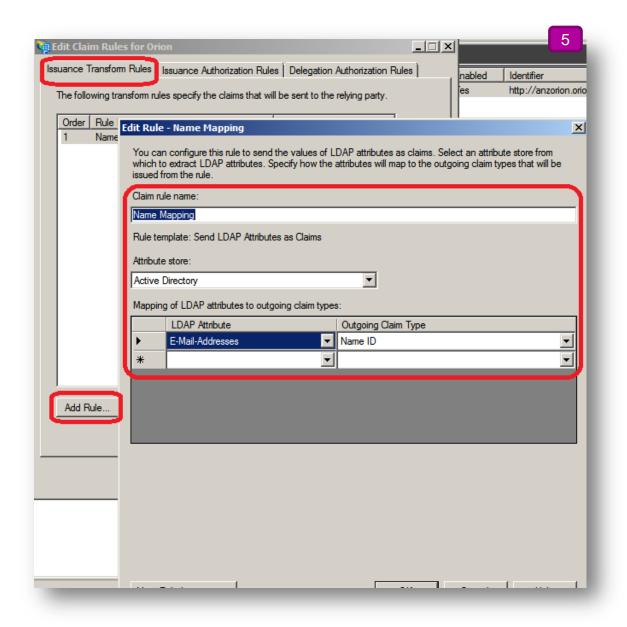
Enabling SSO for CWMS



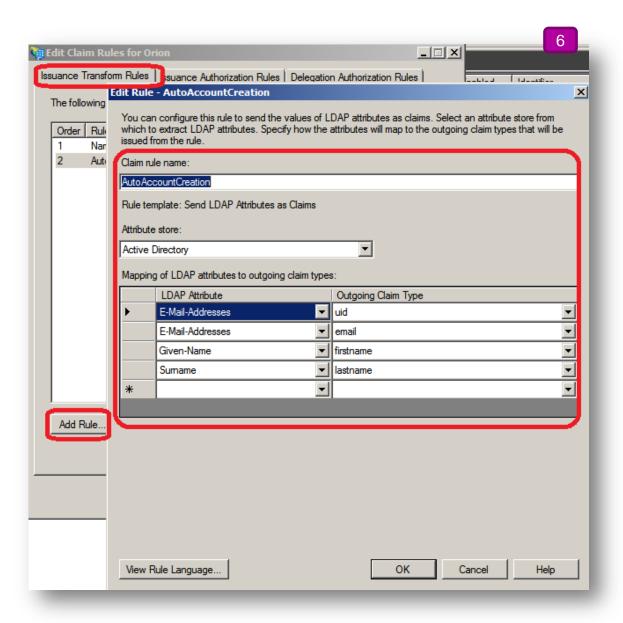




Enabling SSO for CWMS



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Other – Details on SSO Outlook Plugin Authentication

- SSO Authentication
- WebEx productivity tools (Outlook Integration, One Click, etc) share a common Client Authentication Module (CAM)
- CAM opens a browser window to a customer-hosted authentication web page
- Customer's IDMS generates a SAML assertion and posts to WebEx Server
- WebEx Server authenticates and optionally provisions the user and returns a session ticket
- Productivity tools then collectively utilise the session ticket for subsequent XML API requests
- SAML 2.0 Assertion formats supported

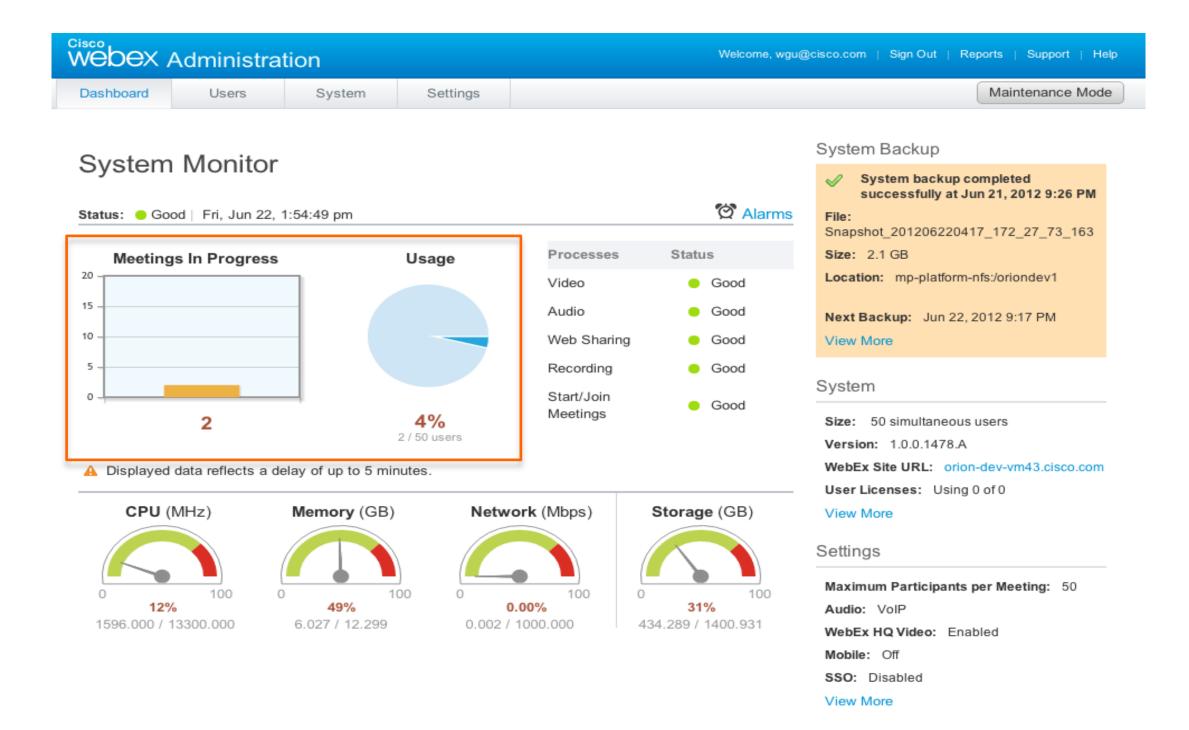




Administration Portal

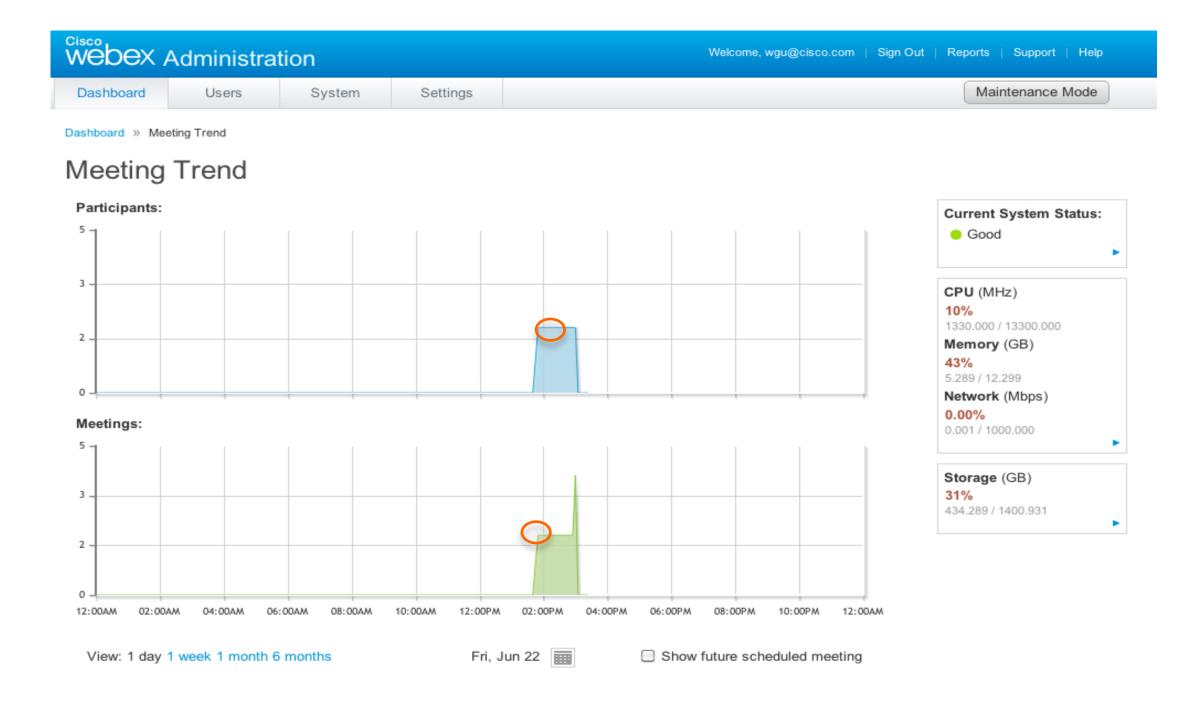


Administration Dashboard





Meeting Trend



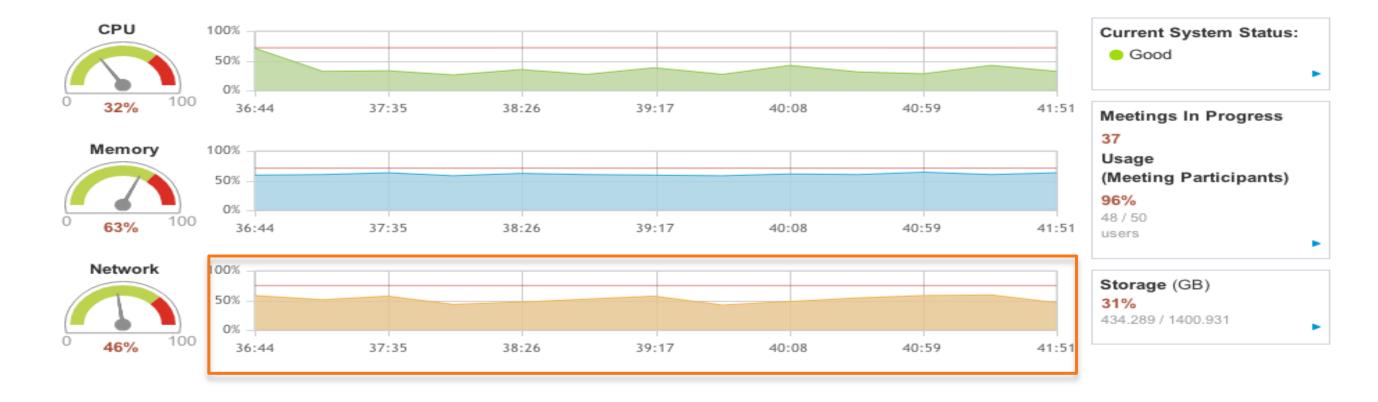


Resource History



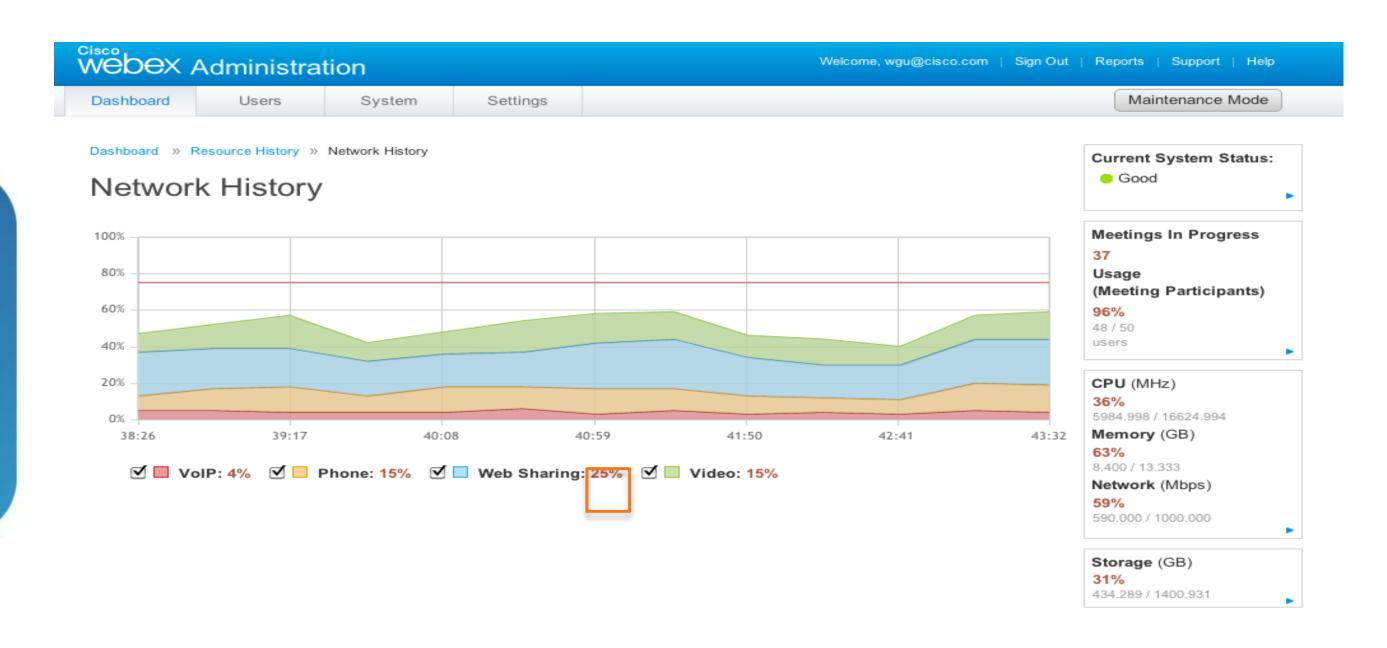
Dashboard » Resource History

Resource History



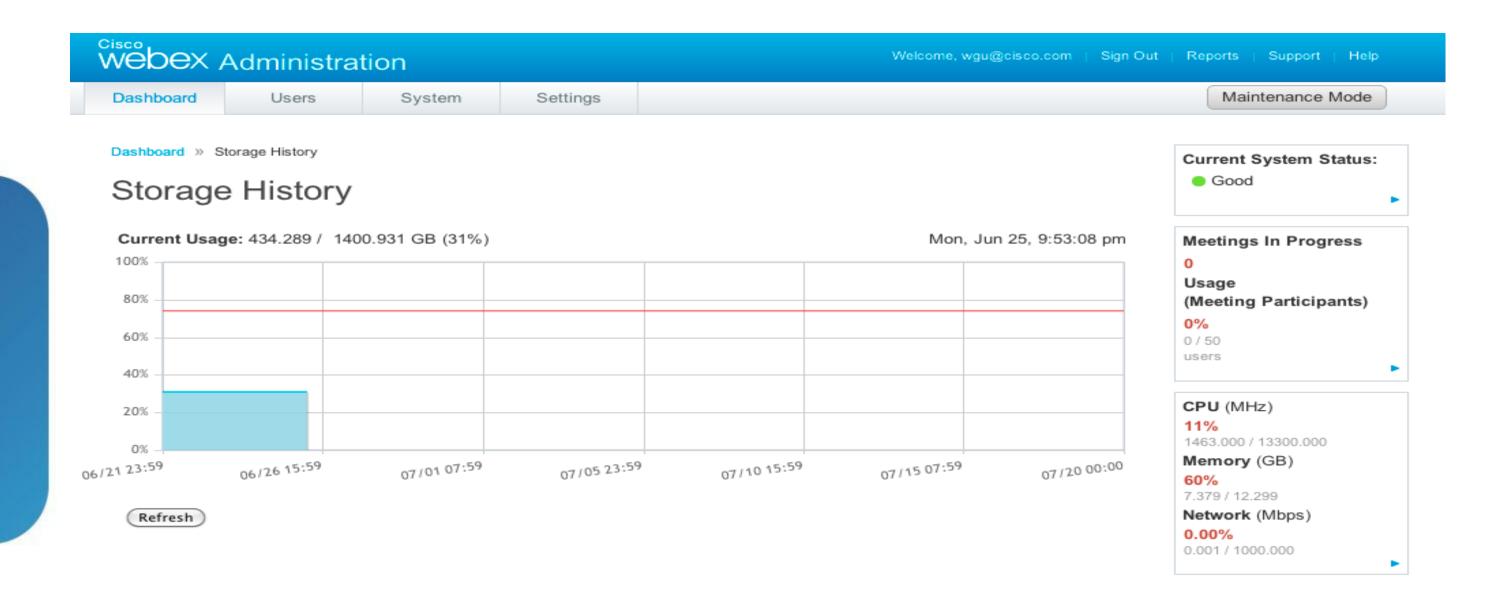


Network History



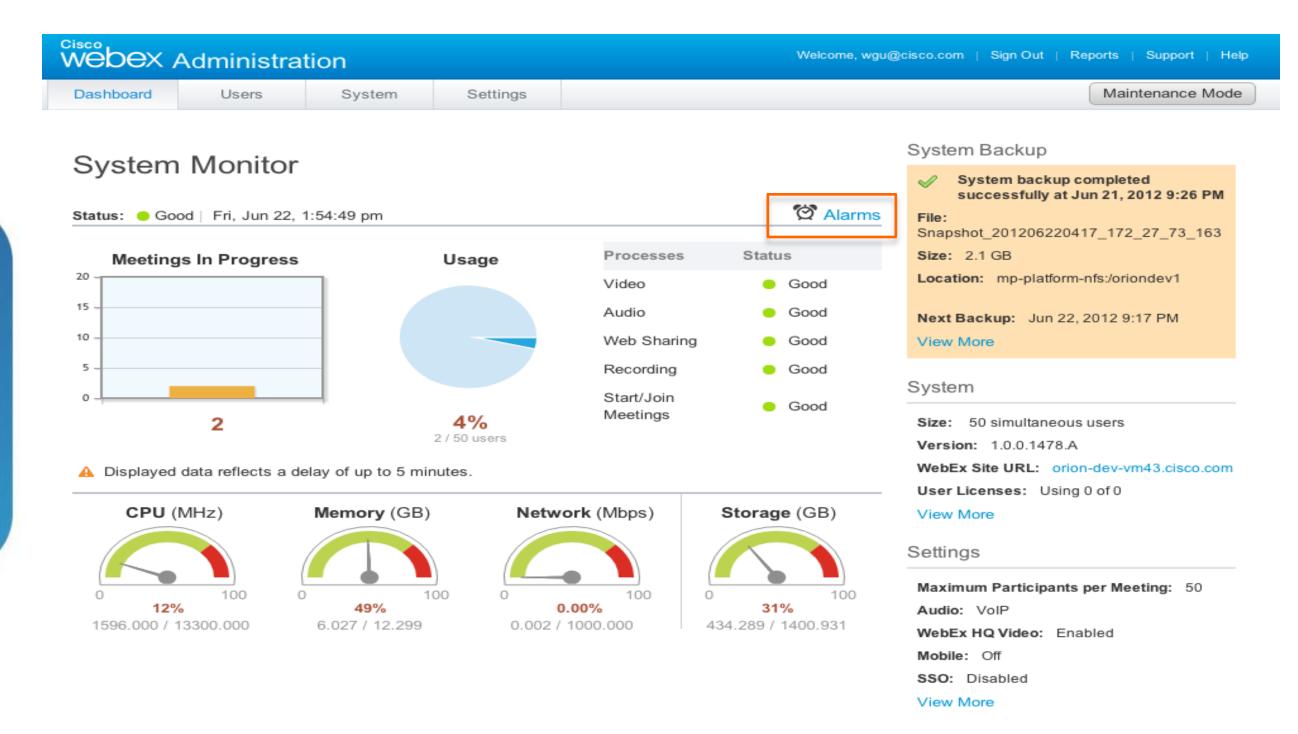


Storage History





Administration Dashboard





Alarm Thresholds



Dashboard » Alarms

Alarms

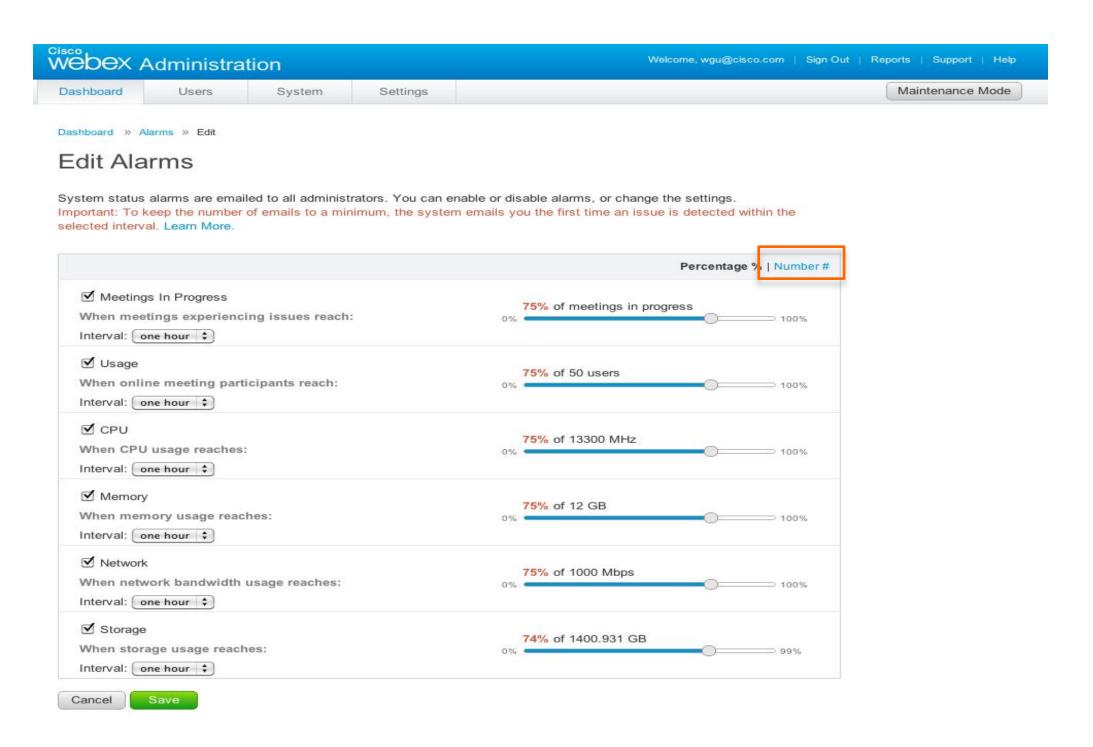
System status alarms are emailed to all administrators. You can enable or disable alarms, or change the settings. Important: To keep the number of emails to a minimum, the system emails you the first time an issue is detected within the selected interval. Learn More.

75% of meetings in progress are experiencing issues
Interval: one hour

Online meeting participants reach 75% of 50 users
Interval: one hour

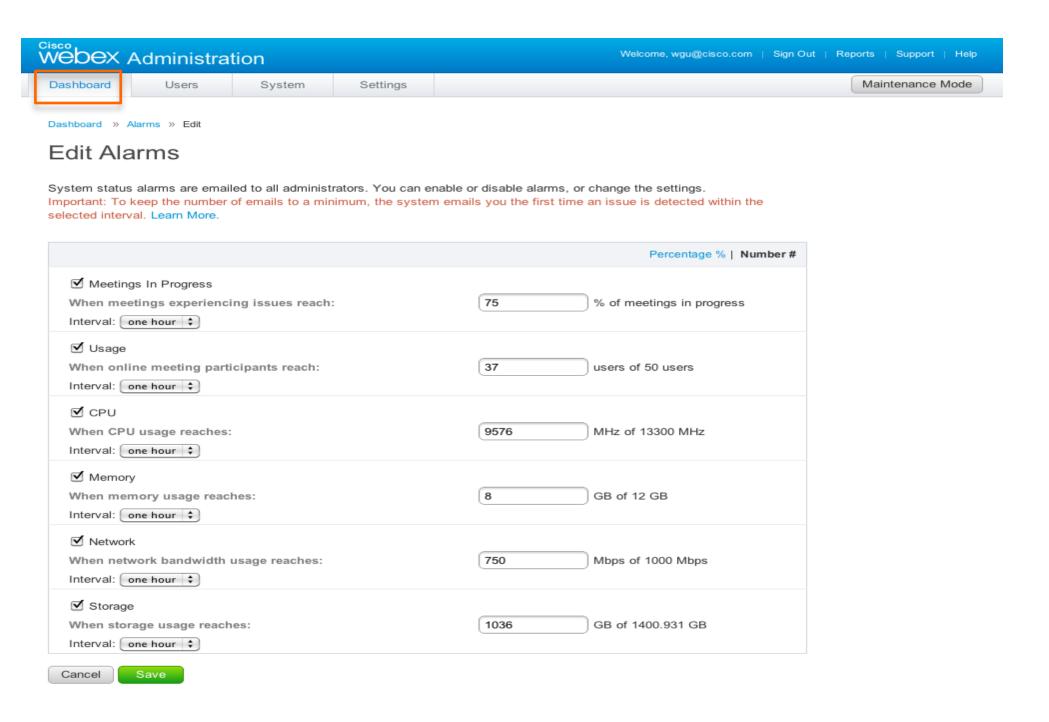


Edit Alarm Thresholds in Percentage





Edit Alarm Thresholds in Number

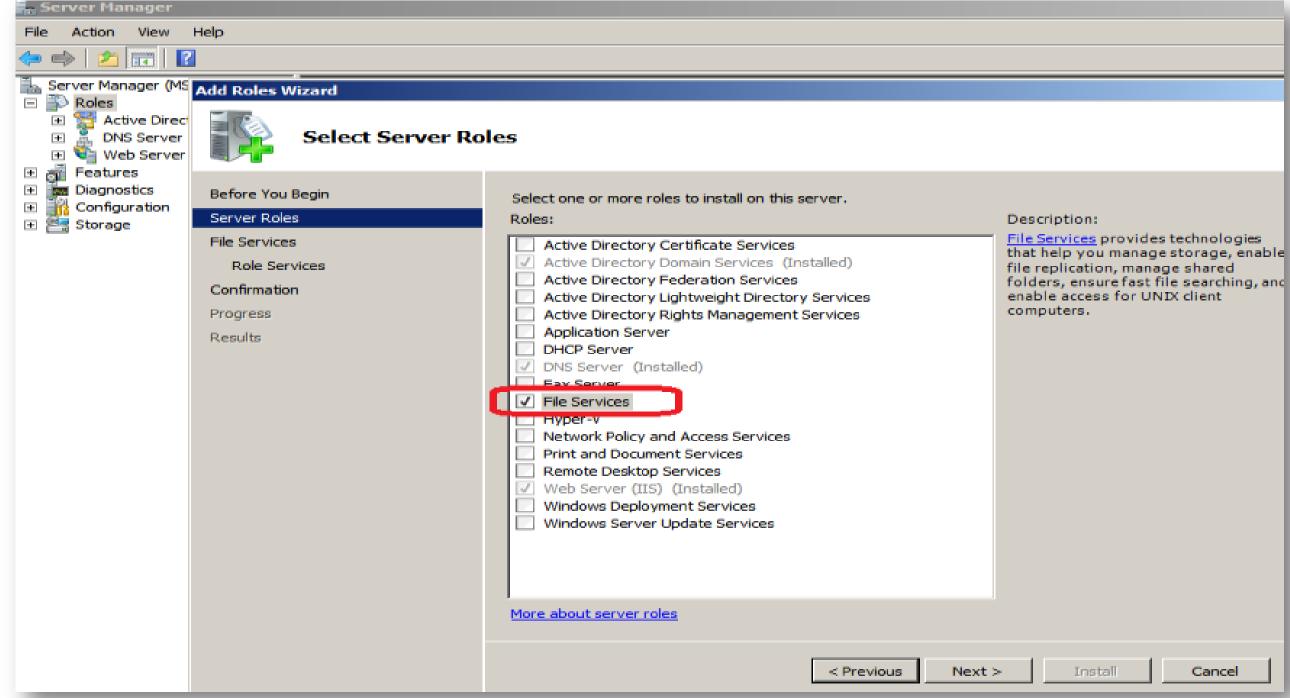


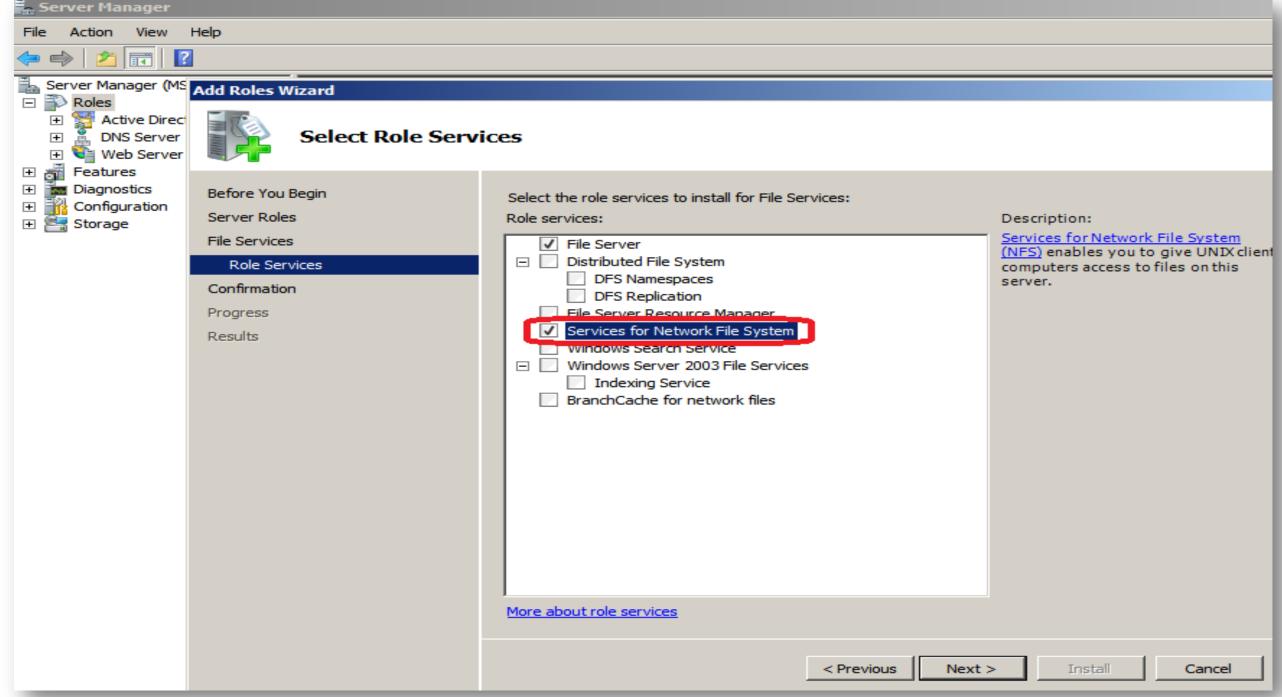


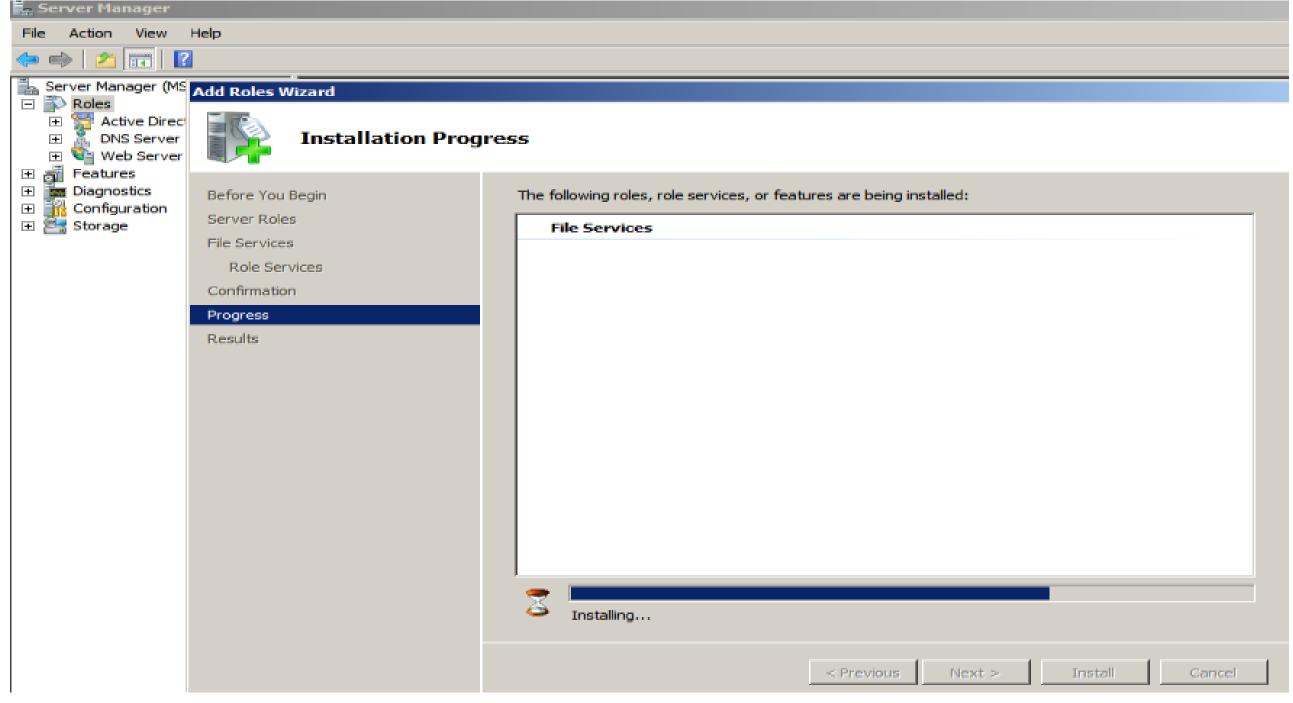


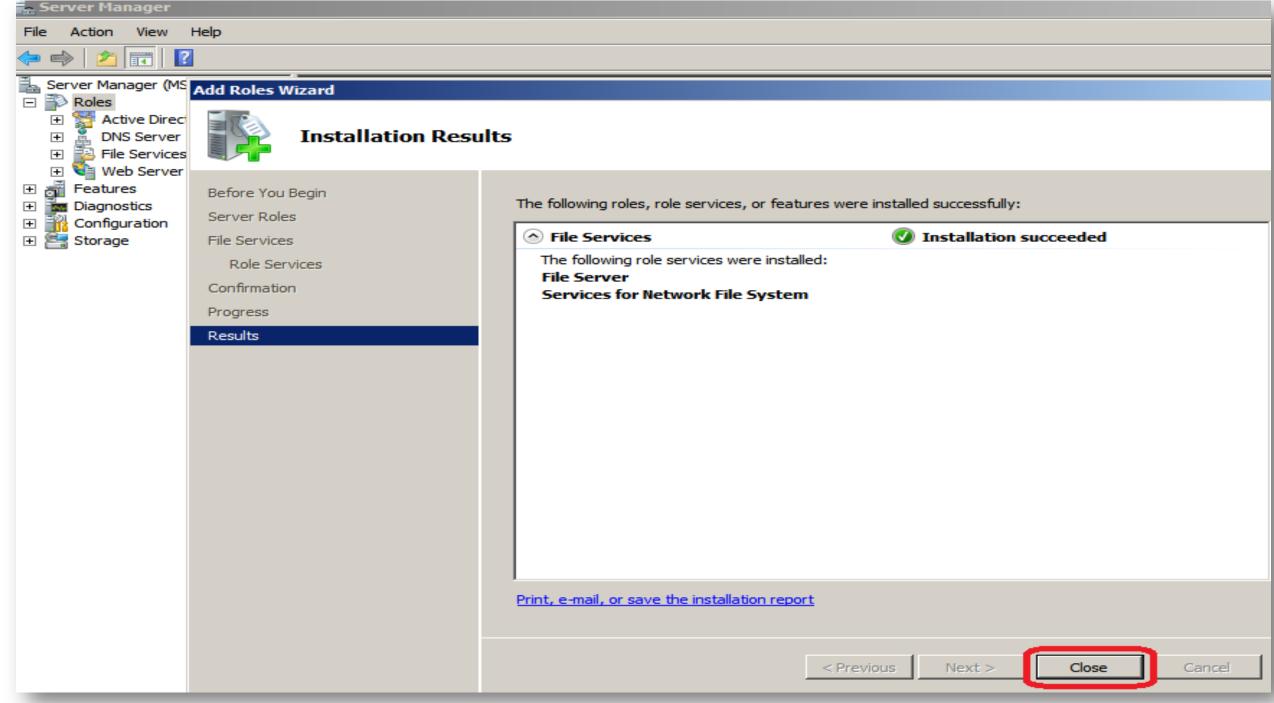
Setup Windows Server 2008 for NFS



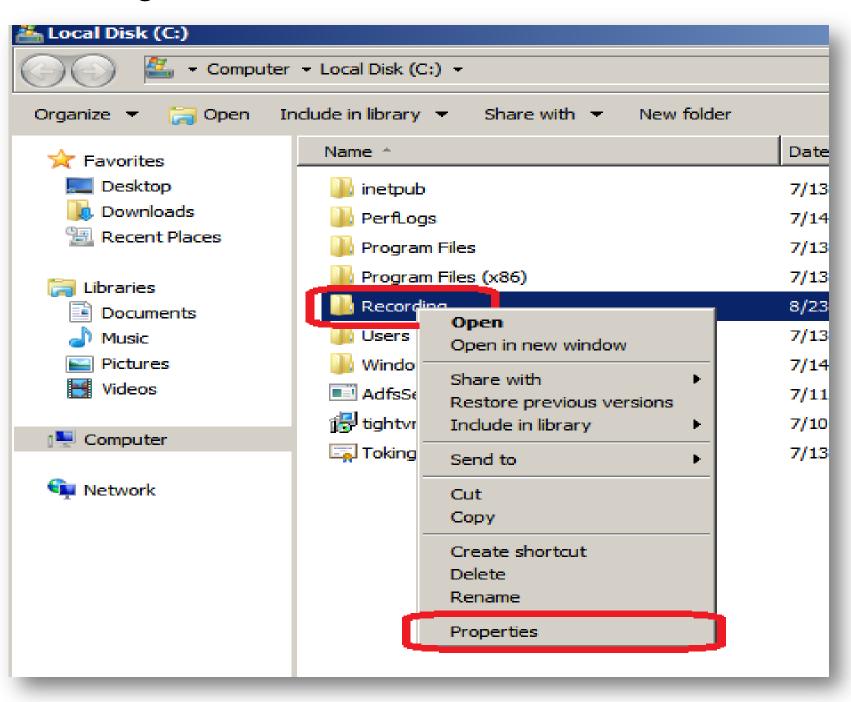




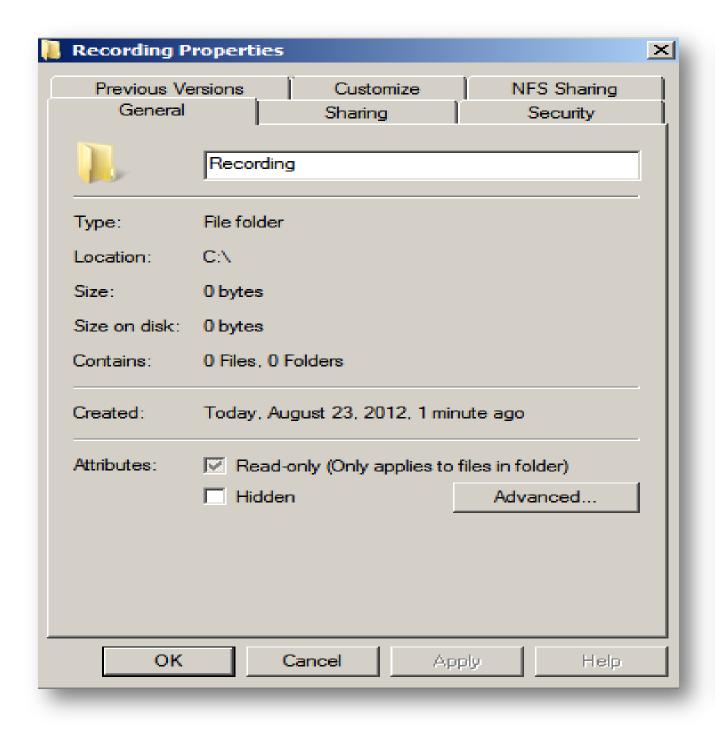


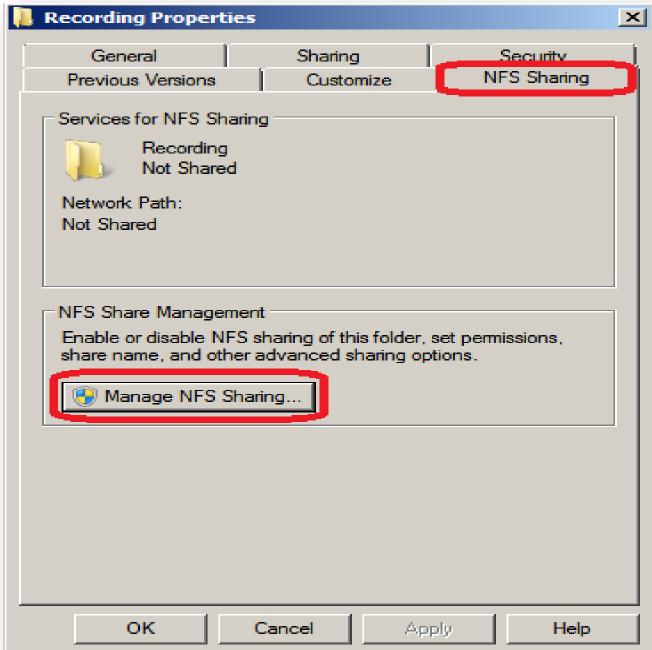


Create folder then right click

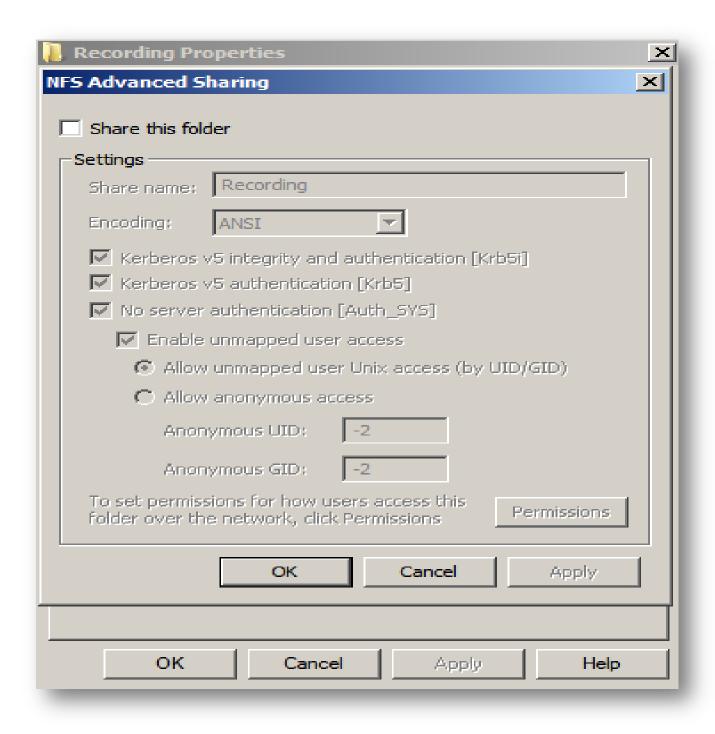


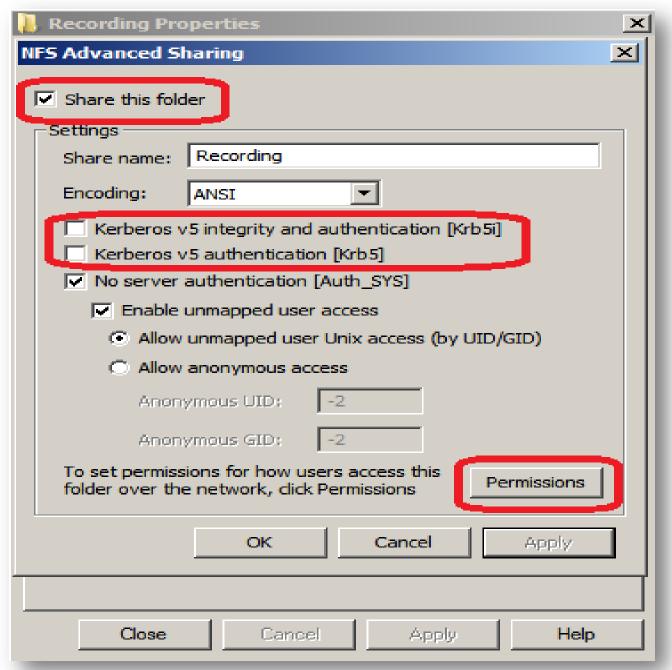




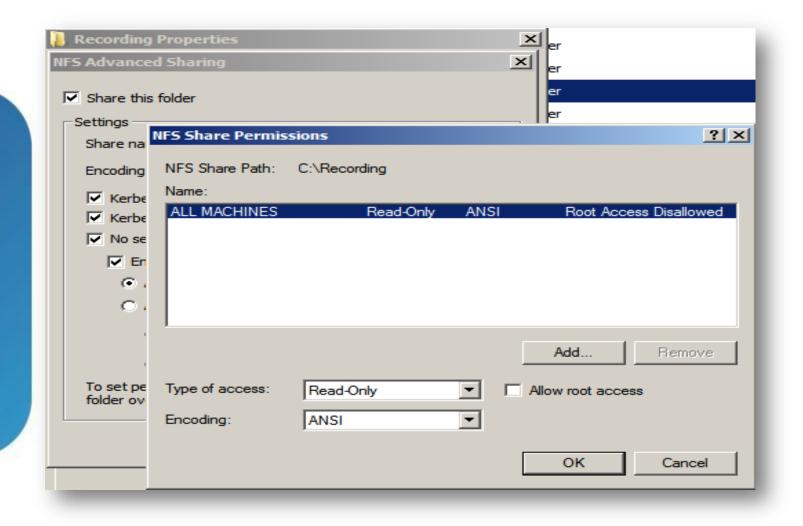


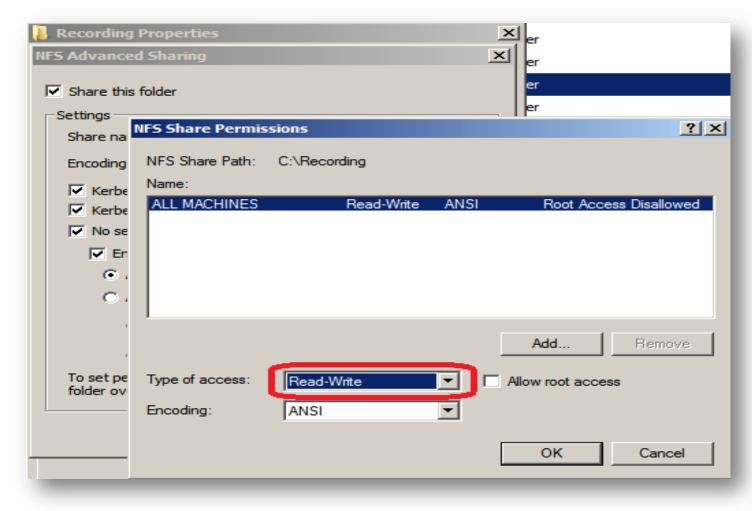
















Certificates



Types of Certificates

- Self-signed
 - Generated internally by the system at first launch
 - Recommended only for lab environments
 - Valid for 5 years
- Wildcard
 - Requested by CSR from external CA
 - Valid for all hosts within a single domain
- Subject alternative name (SAN)
 - Requested by CSR from external CA
 - All hosts in the system are listed in the certificate (except IRP hosts)

Wildcard vs. SAN

SAN

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- Considered more secure
- Invalidated if system hosts change
- Complete system must be set up (including HA) for CWMS to be able to generate a CSR with all host names
- Can be used for systems with sub domains

Wildcard

- Considered less secure
- Valid if system hosts change
- More flexible
- Cannot be used for systems with multiple sub domains



When are Certificates Invalidated

- If any host names or URLs in the system change, the certificate is not valid for the new hosts
- SSL certificates can become invalid due to the following;
 - The system size expanded

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- They system has been upgraded
- A high availability system has been added
- The WebEx site URL changed
- The Administration site URL changed
- The FQDN of the Admin virtual machine changed
- The current SSL certificate expired
- System generates a self signed SAN certificate with all new hosts
- Get new certificate or re-upload previous certificate, if still valid



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Request Certificate Interface

