

cisco



Collaboration Sizing Tool Solution Report

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Customer Name: ipcafe.net 11/3/2018 23:23

Unified CM 12.0(1)

Solution Name: collaboration

Unified Communications Manager

Software Release

Deployment Model Unified CM Trace Level Detailed Trace Compression On Number of Regions 31 Number of Locations / Branches 2 Number of Device Pools 2 CDR On CMR Off Internet Protocol version Off Internet Protocol version IPv 4 Endpoints S Number of SIP Non Secure Audio Phones with en-bloc dialing 50 Number of SIP Secure Audio/Video Phones with en-bloc dialing 50 Number of Mobile Client Devices - Audio 100 Total Number of Devices 650 Total Number of System Users 100 Total Number of System Users 100 Total Number of System Users 200 Average Busy Hour Call Attempts (BHCA) per User Excluding Scheduled Conference Calls and Unified CE 3.00 BHCA Incoming from the PSTN 65% BHCA Incoming from the PSTN 65% BHCA Outgoing to the PSTN 180 Percentage of Total PSTN BHCA through H.323 Trunks (GK Controlled) 0% Perce	Software Release	Offined CW 12.0(1)
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Percentage of Intracluster BHCA Total Intracluster BHCA Percentage of Total Intracluster BHCA IP to IP Percentage of Total Intracluster BHCA IP to PSTN to IP (VoPSTN) Dial Plan Directory Numbers (DNs) and Shared Lines	BHCA Outgoing to Other Clusters	0%
Total Intracluster BHCA Percentage of Total Intracluster BHCA IP to IP Percentage of Total Intracluster BHCA IP to PSTN to IP (VoPSTN) Dial Plan Directory Numbers (DNs) and Shared Lines		-
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Percentage of Total Intracluster BHCA IP to PSTN to IP (VoPSTN) Dial Plan Directory Numbers (DNs) and Shared Lines		
Dial Plan Directory Numbers (DNs) and Shared Lines		
Directory Numbers (DNs) and Shared Lines	Percentage of Total Intracluster BHCA IP to PSTN to IP (V	0PSIN) 0%
·	Dial Plan	
Total Number of DNs 650	Directory Numbers (DNs) and Shared Lines	
	Total Number of DNs	650

Number of DNs Shared Across Additional Endpoints	0
Partitions Number of Partitions	10
Number of Calling Search Spaces	5
Number of Translation Patterns	30
Routes	
Number of Route Patterns	8
Number of Route Lists	2
Number of Route Groups	2
Service Advertisement Framework / Call Control Discovery	
Number of Advertised DN Patterns	0
Number of Learned DN Patterns	0
Global Dial Plan Replication (GDPR)	
DN Specific Data	0
Alternate Numbers Added to Local Digit Analysis	0
Alternate Numbers Not Added to Local Digit Analysis	0
Number of Provisioned URIs	U
Imported Catalogs Imported Patterns	0
Imported URIs	0
Learning	O
Alternate Numbers	0
URIs without URI Specific PSTN Failover	0
URIs with URI Specific PSTN Failover	0
Patterns	0
Hunt Pilot	
Number of Hunt Pilots	30
Number of Hunt Lists	30
Total Number of Circular/Sequential Line Groups	30
Average Number of Members in a Circular Line Group	5
Total Number of Broadcast Line Groups	0
Applications	
The Number of Extension Mobility Users Using the Extension Mobility Cross Cluster Feature	0
Total Number of Extension Mobility Users	0
Total Number of Mobility Users	100
Average Number of Remote Destinations or Mobility Identities per User	1.0
Average BHCA for Two Stage Dialing (Mobile Voice Access, Enterprise Feature Access)	0.00
Total Number of Unified CM Assistants	0
Total Number of Unified CM Managers	0
Number of Lines or DNS on Unified CM Manager Assistant CTI Route Point Total Number of Web Dialer Users	0.0
Total Number of Attendant Console Servers Deployed	0
Number of CTI Route Points	10
Average Number of Lines or DNs per CTI Route Points	1.0
Average BHCA per CTI Route Point	100.00
Number of CTI Ports	120
Average Number of Lines or DNs per CTI Port	1.0
Average BHCA per CTI Port	8.00
Product of Number of Applications and 3rd Party CTI Controlled End Points	0.0
Average Number of Lines or DNs per 3rd Party CTI Controlled End Point	1
Total number of DNs Being Monitored	0
Percentage of Mobile Clients with Deskphone Call Log Integration	0%
Average BHCA per Mobile Client User for Dial-via-Office	0.00
Average Number of Applications per CTI Controlled Device	1

Percentage of Users Simultaneously Receiving Unicast Mol- Number of Audio Sources Designated for Multicast MoH Percentage of IP to IP Intracluster calls through RSVP Agents/Off- Percentage of IP to IP Intercluster calls through RSVP Agen Total Number of RSVP Agents/Off-box HW or SW MTPs an Percentage of Calls Being Conferenced (Unscheduled Conf Total Number of Conferencing Resources	box HW ots/HW Mind Transc	r SW MTPs TPs/Trans		oders	0	% 0 % 0 % 0 %
Unified Communications Manager: Output						
Unified Communication Manager Platform IM & Presence Service Platform Max Unified CM Call Processing Server Pairs per Cluster Unified CCX Deployment			Mix	1,0	000 use 000 use rver pai nd Ager	rs irs
Capacity Utilization per Call Processing Server Call Processing Capacity Utilized per Call Processing VM Memory Capacity Utilized per Call Processing VM Endpoints Capacity Utilized per Call Processing VM CTI Capacity Utilized per Call Processing VM				4.48% 3.31% 89.00% 15.80%		
Minimal System Requirements Estimated Min Number of Clusters Publisher/TFTP/Backup Call Processing VMs Number of Unified CM Call Processing VMs Minimal Number of IM & Presence Service VM Pairs Total Number of VMs (minimal)						1 1 1 1 4
	VMs	vCPU	RAM (GB)	vDisk (GB)	vNIC	
Total Unified CM VM Resources	4	6	20	320	4	

IM & Presence Service

Software Release	IM and Presence Service 12.0(1)
High Availability Deployment	Yes
Number of Unified Presence Users	100
Average Number of Audio / Video Endpoints used by each Presence Enabled	User 1
Percentage of Users using XMPP Client (Remaining Users Using SIP Client)	0.00%
Percentage of XMPP Clients over BOSH (CAXL)	0.00%
Average Active Contact List Size per User	75
Inter-cluster Deployment	No
Federation Deployment	No
Percentage of Users with Exchange Connection	50.00%
Exchange Connection Version	WEBDAV
Percentage of Above Users with Exchange Connection in a Meeting	5.00%
Number of IMs per User during Busy Hour	25
Type of Chat Enabled	None
Average Number of Call Related of State Changes per User during Busy Hou	r 8
Average Number of User Initiated State Changes per User during Busy Hour	0.5
Presence Web Service	No
Compliancy Enabled (No/Yes)	No

Cisco Expressway

Software Release	Expressway X8.10
Percentage of SIP Endpoints and Desktop Clients Registered Through Expressway	5%
Percentage of Mobile Clients Registered Through Expressway	100%

HideMe	5%
HideMe	5%
Traffic Summary	
Total Number of Devices Registered Through Expressway (5% of 550 SIP Endpoints/Desktops + 100% of 100 Mobile)	128
Total Number of Concurrent Hybrid Services Calls	0
Total Number of Concurrent MRA Calls	9
Total Number of Concurrent B2B Video Calls Through Expressway	0
Total Number of Concurrent B2B Audio Calls Through Expressway	0
Platform Selection	
Mobile and Remote Access Platform Type	Large
Mobile and Remote Access High Availability Deployment	Yes
Separate Expressway Cluster for B2B Traffic	No

Output

	VMs	vCPU	RAM (GB)	vDisk (GB)	vNIC	
Total Expressway VM Resources	4	32	32	528	8	

Voice Messaging

Voice Messaging System
Unity Connection Release
Unity Connection 12.0(1)

Total of 1 Site Type Specified

Number of Type 1 Sites	1
Unity Connection Configuration	Unified Messaging / Integrated Messaging
VoiceMail Integration Type	SCCP
Number of Voice Messaging Users per Location	0
Number of Voice Messaging Users with Jabber Client per	Site 0
Secure Jabber (SSL) Enabled	No
Percentage of Office 365 Users	0%
Percentage of Incoming Calls Redirected to VoiceMail Sys	
Average Message Length	1.00
Percentage of Users Checking Voice Messages During the	
Peak Voice Messaging System Usage Interval (min)	10.00
Average Messages Retrieval Session Length (min)	3.00
Blocking Probability	1%
Unity Connection Web Inbox Users	Yes
IMAP Non-IDLE Clients	No
IMAP IDLE Clients	Yes
System Level Recording Format	G.711
On the Line Codec	G.711
Any Voice Recognition Sessions?	Yes
Any Text to Speech Sessions?	Yes
Platform	20,000 users (10GB RAM & larger vDisk)
VMWare ESXi 5.5+ Latency Sensitivity Option Set to High	
High Availability Deployment	Yes
Suggested Number of VMs Needed per each Type 1 Site	0
Maximum Voice Recognition Sessions (ASR) per VMs Allo	
Maximum Text to Speech Sessions (TTS) per VMs Allow	
Ports per VMs	250

Cisco Meeting Server

Software Release Conference Type Conference Quality Average Meeting Size Number of Simultaneous Meetings Server Platform Number of Concurrent Recording Sessions Number of Concurrent Streaming Sessions Redundancy Requirement	Cisco Meeting Server 2.2
Total CMS Equipment	
Number of CMS 1000 Servers Needed (Including Redundancy Requirement)	0
Cisco Meeting Management	
Software Release	CMM 1.0
Number of Concurrent Cisco Meeting Management Operators	0
High Availability Deployment	Yes
Total CMM Equipment	
Server Platform: None	0
TelePresence Management Suite	
Software Release	TMS 15.5
Estimated Number of Concurrent Scheduled Conferences	0
Estimated Number of Participants in Concurrent Scheduled Conferences	0
Estimated Number of Controlled Devices	0
Number of Controlled Systems Endpoints	0
Number of Endpoints Bookable in Microsoft Exchange	0
HideMe	0
TMS System:	Regular TMS

Cisco Webex Meetings Server

Total TMS Equipment

Software Release	WebEx Meetings Server 2.8
Number of Knowledge Users	0
System Usage	
Minutes per Month (thousands)	0
Knowledge Users Conference Usage	Average
Actual Peak Usage (concurrent users)	0
Video Usage	
Percentage of Conferences with HQ Video	0%
Traffic Description	
Required Top of the Hour Dialin Duration (min)	5
Percentage of Users that Join Conferences from Within the Enterprise	75%
Gateway/Itercluster/Inter-Enterprise Trunks	SIP
Deployment Requirements	
vCenter co-resident (50-user or 250-user systems)	No
External Access	Yes
NIC allowed in DMZ	No
High Availability	Single Data Center
Disaster Recovery	No
High Availability for Disaster Recovery Site	No

Minimal System Requirements

System Size: 50-User

	VMs	vCPU	RAM (GB)	vDisk (GB)	vNIC
50P - Admin VM Only	1	6	24	1024	3
50P - IRP VM Only	1	6	12	300	3

	VMs	vCPU	RAM (GB)	vDisk (GB)	vNIC	
Total WebEx Meetings VM Resources Needed	2	12	36	1324	6	

Gateways

GW Group 1

Percentage of PSTN TDM-IP IPT Load to Gateway Group 1 100% Cisco 2911 Gateway Platform **IOS** Release 15.6(3)M **Dedicated Voice Gateway** Gateway Type **Blocking Probability Physical Locations** 1 GW Used as Unified SRST or Unified CME No **Gateway Voice Security** No Encryption **PSTN** Integration T1 Gateways Group 1 Needed 1 DS0s per GW Group 1 Needed 48 T1s per GW Group 1 Needed 2 GW Group 1 DS0 Utilization 33.33% GW Group 1 Resource Capacity Utilization 12.72%

Unified Contact Center Express

Software Release Unified CCX 11.6(1)

Inbound Traffic

Service Level Goal (SLG)	90%
Target Answer Time (seconds)	30
Percentage of Incoming calls through Unified Border Element (IP-IP GW)	0%

Self Service

Average Call Treatment Time (sec)	60
Inbound BHCA	0

Traffic Mix

Call Type 1 Answered by Agents

Percentage of Total Calls	100%
Average Talk Time (sec)	180
Average Wrapup Time (sec)	60
Average Call Treatment Time -VRU (sec)	60
Wait Before Abandon - Tolerance (sec)	150
Percentage of Calls Transferred	10%
Percentage of Calls Conferenced	5%

Direct Preview Outbound Traffic

Options

Package Type High Availability Deployment	Premium No
Total Number of Concurrent Agents Handling Inbound Calls	10
Of the Total, Number of Concurrent Agents Handling Preview Outbound Calls	0
Of the Total, Number of Concurrent Agents Handling Predictive /Progressive Outbound Calls	0
Of the Total, Number of Concurrent Agents Handling Emails	0
Number of Supervisors	10
Maximum Number of Customer Service Queues (CSQs) Required	0
Do you want to add any of the following products: CR or AQM?	No
Do you want to add a Workforce Management Server?	No
Number of Configured Workforce Management (WFM) Users	0
Total Number of Concurrent Workforce Management (WFM) Users	0
Codec for Unified CCX Based Recording and Playback Sessions	G.711
Number of Unified CCX Based Simultaneous Recording and Playback Sessions	0
Number of Simultaneous Silent Monitoring Sessions	0
Number of Simultaneous Remote Monitoring Sessions	0
Number of Simultaneous Finesse Workflow Based Recording Sessions	0
Number of Simultaneous Agent Chat Sessions	0
Number of Simultaneous Historical Reporting Sessions	0
Number of Simultaneous Skills Manager Sessions	0
Number of Inbound IVR Ports	0
Number of Outbound IVR Ports	0
Number of VXML Ports	0
Simple or Complex Grammar for ASR Ports	Simple
Number of ASR Ports	. 0
Number of TTS Ports	0
Do you want to add an IPCC Gateway PG?	No
Percentage of Unified CCX Calls being Recorded	0%
Output	
BHCC Values	97
Inbound	0
Outbound	
Unified CCY Servers	

Unified CCX Servers

Selected Unified CCX Package Type Premium
Primary Platform 100 Agents
Standby Platform None
Unified CCX Server Available Capacity 0%

Workforce Management Server

WFM Server WFM Server Available Capacity

None
0%

VM Requirements

Total VM Resources 1 VMs, 2 vCPUs, 10 RAM, 146 vDisk, 1 vNICs

Licenses & UC on UCS Servers

License TypeUnified Workspace License Meeting120UCL Contact Center Express Agent + Supervisor licenses20Expressway Business to Business Video or Audio Sessions100Personal Multiparty Licenses (included with CUWL Meeting)120