用Unity语音邮件集成在CallManager和Avaya S8700/G650之间配置Q.SIG PRI Trunk

目录

简介 先决条件 要求 使用的组件 规则 测试设置 测试拓扑 思科和Avaya IP-PBX系统之间的互操作性 Avaya S8700/G650 IP-PBX系统的程序 Cisco Call Manager程序 Cisco 3745 配置 经过测试的Cisco和Avaya IP-PBX系统之间的互操作性 集成Cisco Unity Voice Mail以支持Cisco和Avaya IP电话 将Cisco Unity添加到Cisco Call Manager 经测试的Cisco Unity语音邮件功能 相关信息

<u>简介</u>

本文档旨在为思科客户和业务合作伙伴提供在Cisco Call Manager和Avaya S8700/G650之间配置 Q.SIG PRI中继的步骤。此外,本文档详细介绍如何在Cisco Call Manager平台上添加Cisco Unity以 为Cisco和Ava提供语音邮件支持的步骤aya IP电话。在需要IP-PBX互操作性和语音邮件集成的情况 下,这一点尤其重要。Avaya配置屏幕截图是使用标准仿真工具创建的。另外,您还可以使用Avaya Site Administration(ASA)工具在Avaya S8700/G650上执行配置任务。两种情况下的输出显示相同 。本IP-PBX互操作性和语音邮件集成文档仅供外部使用。

<u>先决条件</u>

<u>要求</u>

本文档没有任何特定的要求。

<u>使用的组件</u>

本文档中的信息基于以下软件和硬件版本:

- 使用的Avaya IP-PBX系统是运行Avaya Communication Manager 2.0的Avaya S8700/G650。 Q.SIG功能集是此软件版本的标准。
- •本文档中使用的Avaya IP电话是运行电话固件版本2.01的4610SW和4620。
- 使用Cisco Call Manager 4.1.(2)来使用NM-HDV模块控制3745媒体网关控制协议(MGCP)网关 ,运行Cisco IOS® 12.2.15ZJ3版。Cisco IOS® 12.3.8.T版也重复了测试5。
- •运行4.0(4)版SR1的Cisco Unity用于语音邮件集成测试。

本文档中的信息都是基于特定实验室环境中的设备编写的。本文档中使用的所有设备最初均采用原 始(默认)配置。如果您使用的是真实网络,请确保您已经了解所有命令的潜在影响。

规则

有关文档规则的详细信息,请参阅 Cisco 技术提示规则。

<u>测试设置</u>

使用的Avaya IP-PBX系统是运行Avaya Communication Manager 2.0的Avaya S8700/G650。 Q.SIG功能集是此软件版本的标准。使用的AvayaIP电话是运行电话固件版本2.01的4610SW和 4620。在Cisco侧,Cisco Call Manager 4.1.2用于使用NM-HDV模块控制3745 MGCP网关,运行 Cisco IOS®版12.2.15ZJ3。Cisco IOS® 12.3.8.T5版也重复了测试。运行4.0(4)SR1版的Cisco Unity用于语音邮件集成测试。

<u>测试拓扑</u>

Ethernet Serial Digital/Analog

with Cisco Unity Voice Mail integration



<u>思科和Avaya IP-PBX系统之间的互操作性</u>

接下来的部分提供步骤和屏幕截图,帮助您在运行Avaya Communication Manager 2.0的Avaya S8700/G650和运行Call Manager版本4.1(2)的Cisco 3745 MGCP设备(提供物理ISDN)的Cisco Call Manager平台之间配置Q.SIG中继与Avaya S8700/G650的PRI连接。

<u>Avaya S8700/G650 IP-PBX系统的程序</u>

请完成以下步骤:

1. 登录S8700服务器。运行**display system-parameters customer命令**,以确保S8700服务器上启 用了所有必要的Q.SIG功能。

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3. 配置中继组。键入add trunk-group #,其中#是所需中继。接下来的三个屏幕截图与中继配置 相关。创建中继组后,将23个DS0通道添加到该组。以下是端口分配的示例:01A0901表示 :Gateway# 1、机柜A、Slot# 9、DS0 channel# group1。

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display trunk-group 1		Page 1 of 22
	TRUNK GROUP	
Group Number: 1	Group Tupe: isdn	CDR Reports: n
Group Name: QSIG TRUNKING	COR: 90	TN: 1 TAC: *01
Direction: two-way	Outgoing Display? y	Carrier Medium: PRI/BRI
Dial Access? y	Busy Threshold: 99	Night Service:
Queue Length: 0		
Service Type: tie	Auth Code? n	TestCall ITC: rest
Far	End Test Line No:	
TestCall BCC: 4		
Codeset to Send Dis	plau: Ø Codeset to S	end National IEs: 6
Max Message Size to	Send: 260	
Supplementary Service Prot	ocol: b Digit Handli	ng (in/out): enbloc/enbloc
Trunk Hunt: asce	nd	QSIG Value-Added? y
	D:	igital Loss Group: 13
Calling Number - Delete:	Insert:	Numbering Format: pub-unk
Bit Rate: 1200	Synchronization	: async Duplex: full
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					TRUNK GROUP			
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	Port	Code	SFx	Name	Night	Sig Grp		
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3:	01A 09 03	TN464	G			1		
4.5	01A 09 04	TN464	G			1		
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6:	01A 09 06	TN464	G			1		
7:	01A 09 07	TN464	G			1		
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9 :	01A 09 09	TN464	G			1		
10:	01A0910	TN464	G			1		
11:	01A0911	TN464	G			ă.		
12:	01A0912	TN464	G			1		
13:	01A0913	TN464	G			1		
14:	0100914	TN464	G			1		
15:	01A0915	TN464	G			1		
1								

4. 添加信令组并指向之前创建的中继组。

display) sign	aling-	group	11	STONAL TH	e epoup	
					STONHLIN	G GROUP	
Group	Nunbe	r: 1	Ass	ociated Primary	Group Type Signaling D-Channel	: isdn-pr ? y : 01A0924	ri Max number of NCA TSC: 10 4 Max number of CA TSC: 10 Trunk Group for NCA TSC: 1
	Trunk Su	Group ppleme	for ntary	Channel Servic	Selection e Protocol	: 1 : b	X-Mobility/Wireless Type: NO Network Call Transfer? n
Command	1:			an a			

5. 添加路由模式并将其指向信令组。在本例中,路由模式4指向步骤4中创建的信令group# 1。

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								Pattern N	unber	: 4	Patter Secu	'n Name: Jre SIP?	isdn t n	est			
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1	y	y	y	y	y	n	n		rest								none

6. 在AAR表中添加一个条目,以便使用您创建的路由模式来路由呼叫。在本示例中,对Cisco IP电话分机4XXX的呼叫使用以4开头的AAR表条目,该条目又指向路由模式4。

olay aar analysis 4				TO TAD		Pa	ge 1	of	
		IHK UI	GIT HNHLY	212 IHBI	LE	Percent	t Full	-	2
Dialed	Tot	al	Route	Call	Node	ANI			
String	Min	Max	Pattern	Туре	Nun	Reqd			
4	4	4	20	aar		y			
4	7	7	999	aar		n			
4001	4	4	4	aar		y			
4008	4	4	4	aar		ÿ			
4015	4	4	4	aar		n			
44	4	4	4	aar		U			
5	4	4	10	aar		n			
5	7	7	999	aar		n			
5001	4	4	25	aar		n			
5 85 8	4	4	10	aar		n			
555	7	7	4	aar		n			
7	7	7	999	aar		n			
70007950	8	8	45	aar		n			
8	7	7	999	aar		n			
88001	5	5	65	aar		n			

7. 确保在每部IP电话上启用主叫方ID以发送主叫方名称。

display station 7007	Page 2 of	- 4
	STATION	
FEATURE OPTIONS		
LWC Reception: spe	Auto Select Any Idle Appearance?	n
LWC Activation? y	Coverage Msg Retrieval?	Ų.
LWC Log External Calls? n	Auto Answer:	none
CDR Privacy? n	Data Restriction?	n
Redirect Notification? y	Idle Appearance Preference?	n
Per Button Ring Control? n		
Bridged Call Alerting? n	Restrict Last Appearance?	U
Active Station Ringing: continuous		470 °
H.320 Conversion? y Service Link Mode: as-needed	Per Station CPN - Send Calling Humber?	y
Multimedia Hode: enhanced	Audible Message Waiting?	n
MWI Served User Tupe: asia-mwi	Display Client Redirection?	n
	Select Last Used Appearance?	n
	Coverage After Forwarding?	s
	Hultinedia Earlu Answer?	n
	Direct IP-IP Audio Connection	ns? u
Emergency Location Ext: 7007	IP Audio Hairpinning?	y ĺ

<u>Cisco Call Manager程序</u>

请完成以下步骤:

:

1. 在"服务"参数下,确保正确设置"开始路径替换最小值"和"最大时间值",以防止出现任何问题 (如发夹)。接下来的两个屏幕截图与Q.SIG服务参数设置相关

Clusterwide Pa	arameters (Feature - Path Replacen	nent)
Parameter Name	Parameter Value	Suggested Value
Path Replacement Enabled*	True	False
Path Replacement on Tromboned Calls*	True	True
Start Path Replacement Minimum Delay Time (sec)*	5	0
Start Path Replacement Maximum Delay Time (sec)*	10	D
Path Replacement T1 Timer (sec) *	30	30
Path Replacement T2 Timer (sec)	15	15

Start Path Replacement Minimum Delay Time (sec)*	5		0
Start Path Replacement Maximum Delay Time (sec)*	10		0
Path Replacement T1 Timer (sec) *	30		30
Path Replacement T2 Timer (sec) *	15		15
Path Replacement PINX Id	4444	Î.	
Path Replacement Calling Search Space	< None >		

2. 将Cisco 3745添加为MGCP网关,并为Q.SIG PRI配置NM-HDV T-1模块。接下来的五个屏幕 截图与此配置相关

cancel refresh enter	clear	help go to page next page prev page	• · · · · · · · · · · · · · · · · · · ·
display ds1 01A09			Page 1 of 2
The Section of the section of the		DS1 CIRCUIT PACK	
			0010
Location:	01809	Name:	US16
Bit Rate:	1.544	Line Coding:	DVZS
Line Compensation:	1	Franing Mode:	est
Signaling Mode:	isdn-pri		
Connect:	bpx	Interface:	peer-naster
TN-C7 Long Timers?	n	Peer Protocol:	0-216
Interworking Message:	PROGress	Side:	a
Interface Companding:	mulau	CRC?	n
Idle Code:	111111111		
		DCP/Analog Bearer Capability:	3.1kHz
Slip Detection?		Near-and CSII Tupos	they
Silp Decection:		Hear-enu usu Type. I	Jener
Echn Cancellation?	n		
	45,053,526,242,024		THE REAL PROPERTY OF THE PROPERTY OF THE REAL PROPE

cancel refresh e	nter clear	help go to pag	e next page pr	ev page	
display trunk-grou	ip 1			Page	1 of 22
		TRUNK GROUP			
Group Number: 1 Group Name: QSIG Direction: two- Dial Access? y Queue Length: 0 Service Type: tie TestCall BCC: 4 TRUNK PARAHETERS Codeset t Max Messag Supplementary Se	TRUNKING way Ou Far Er o Send Displa je Size to Ser rvice Protoco Hunt: ascend	TRUNK GROUP Group Typ CO utgoing Displa Busy Threshol Auth Cod nd Test Line N ay: Ø Code nd: 260 ol: b Digi	e: isdn R: 90 Y? y d: 99 e? n o: set to Send t Handling QS	CDR Rep TN: 1 Carrier Med Night Servi TestCall National IEs (in/out): ent	orts: n TAC: *01 lium: PRI/BRI ce: ITC: rest : 6 loc/enbloc
Colling Number - D	alata: Ir	acout.	Digi	tal Loss Grou	p: 13
Calling Number - D Bit Disconnect Superv Answer Supervisio	elete: In Rate: 1200 vision - In? y on Timeout: 0	nsert: Synchro y Out?y	Nu nization: a	inbering Forma isync Duple	t: pub-unk x: full
dicelau truck group	1			Page	6 06 22
display trunk-group	1	TRUNK GROUP		Page	6 of 22
display trunk-group	1	TRUNK GROUP Administ	ered Nember	Page s (min/max):	6 of 22
display trunk-group GROUP MEMBER ASSIGN	1 Hents	TRUNK GROUP Administ Tota	ered Member l Administe	Page s (min/max): red Hembers:	6 of 22 1/23 23
display trunk-group GROUP MEMBER ASSIGN Port Code 1: 01A0901 TN464 2: 01A0902 TN464 3: 01A0903 TN464 4: 01A0903 TN464 5: 01A0905 TN464 6: 01A0905 TN464 7: 01A0906 TN464 8: 01A0908 TN464 9: 01A0908 TN464 10: 01A0910 TN464 11: 01A0911 TN464 13: 01A0913 TN464 14: 01A0915 TN464	HENTS Sfx Name G G G G G G G G G G G G G G G G G G G	TRUNK GROUP Administ Tota Night	ered Member l Administe Sig G 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Page s (min/max): red Hembers: rp	6 of 22 1/23 23

	ShT	ay	<u> </u>	gna]	ing-	group 1							
								SIGNALING	GROUP				
Gi	rou	p	Nun	ber:	a i	Associal Prima	Gro ted Si ary D-	oup Type: ignaling? -Channel:	isdn-pri y 01A0924	Max ni Max i	umber of M number of	ICA TS CA TS	C: 10 C: 10
			Tru	nk (Supp	roup	for Chani ntary Serv	nel Se vice F	election: Protocol:	1 b	X-Mobili Netwo	ty/Wireles rk Call Tr	ansfe	e: NONE r? n
Coi	mma	nd	-										
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3. 最后,创建Cisco Call Manager代答组,以提供PBX的路径建议分机。确保呼叫代答号码也输入到路径PINX替换ID服务参数中(请参阅步骤#1)。此外,Avaya系统需要路由模式才能路由到代答组。

play aar analysis 4						Page	1 of	2
	e e	IAR DI	GIT ANALY	SIS TABI	LE	Deveent F		្ន
						rercent F	u11:	2
Dialed	Tot	al	Route	Call	Node	ANI		
String	Min	Max	Pattern	Type	Nun	Regd		
4	4	4	28	aar		y .		
4	7	7	999	aar		ñ		
4001	4	4	4	aar		V		
4008	4	4	4	aar		Ű.		
4015	4	4	4	aar		n		
44	4	4	4	aar		ý l		
5	4	4	10	aar		ñ		
5	7	7	999	aar		n		
5001	4	4	25	aar		n		
5 05 0	4	4	10	aar		n		
555	7	7	4	aar		n		
7	7	7	999	aar		n		
70007950	8	8	45	aar		n		
8	7	7	999	aar		n		
88001	5	5	65	aar		n		

注意:确保Cisco CallManager Service Parameters (Advanced)下的这两个集群范围参数(设 备 — PRI和MGCP网关)与PBX中的Q.SIG配置匹配。所有PBX中继必须完全配置为这些 Cisco CallManager参数。ASN.1 ROSE OID编码:此参数指定如何为远程操作服务元素 (ROSE)编码调用对象ID(OID)。 除非思科支持工程师另有指示,否则请将此参数设置为默认值 。这是必填字段,默认值为**使用本地值**。以下是此参数的有效值:**使用本地**值,该值受大多数 电话系统支持,当Q.SIG变体服务参数设置为ISO(协议配置文件0x9F)时必须使用。使用全 局值(ISO),仅在连接的PBX不支持使用本地值时使用。使用全局值(ECMA),如果Q.SIG变型 服务参数设置为ECMA(协议配置文件0x91),则必须使用该值。Q.SIG变体:此参数指定当中 继配置为Q.SIG时,在出站Q.SIG设施信息元素中发送的协议配置文件。除非思科支持工程师 另有指示,否则请将此参数设置为默认值。这是必填字段,默认值**为ISO(协议配置文件** 0x9F)。以下是此参数的可用值:ECMA(协议配置文件0x91),通常与ECMA PBX一起使 用,并且只能使用协议配置文件0x91。如果此服务参数设置为ECMA(协议配置文件 0x91),则ASN.1 Rose OID编码服务参数必须设置为使用全局值(Use Global Value)ECMA)。ISO(协议配置文件0x9F),这是当前的ISO建议。如果此参数设置为 ISO(协议配置文件0x9F),则ASN.1 Rose OID编码服务参数必须设置为使用本地值。警告 :当使用集群间中继时, Cisco CallManager不支持ECMA, 在CallManager Administration的 Trunk Configuration窗口中, Tunneled Protocol字段设置为Q.SIG。如果将此服务参数设置为 ECMA(协议配置文件0x91),则所有集群间中继的"隧道协议"字段必须设置为"无"。

Clusterwide P	arameters (Device - PRI and MGCP Gateway)	
Parameter Name	Parameter Value	Suggested Value
ASN.1 ROSE OID Encoding*	Use Local Value	Use Local Value
QSIG Variant*	ISO (Protocol Profile 0x9F)	ISO (Protocol Profile 0x9F)
Caller ID		
Calling Name Not Available Timeout (msec)*	2000	2000
Calling Party Number Screening Indicator*	CallManager sets the screening indicator value - Default setting	CallManager sets the screening indicator value - Default setting
Change B- Channel Maintenance Status 1		
Change B- Channel		

<u>Cisco 3745 配置</u>

这是Cisco 3745 MGCP设备**上的show version**和**show running-configuration**命令输出。Cisco 3745上的控制器T1 1/0连接到Avaya S8700/G650 DS1 PRI卡。Q.SIG信令在Cisco 3745和Avaya S8700/G650之间的PRI链路上配置。

CCME_CUE_3745# sh vers Cisco Internetwork Operating System Software IOS (tm) 3700 Software (C3745-IS-M), Version 12.2(15)ZJ3, EARLY DEPLOYMENT RELEASE SOFTWARE (fc2) TAC Support: http://www.cisco.com/tac Copyright (c) 1986-2003 by cisco Systems, Inc. Compiled Thu 25-Sep-03 22:25 by eaarmas Image text-base: 0x60008954, data-base: 0x61C2C000 ROM: System Bootstrap, Version 12.2(8r)T2, RELEASE SOFTWARE (fc1) ROM: 3700 Software (C3745-IS-M), Version 12.2(15)ZJ3, EARLY DEPLOYMENT RELEASE SOFTWARE (fc2) CCME_CUE_3745 uptime is 39 minutes System returned to ROM by reload System image file is "flash:c3745-is-mz.122-15.ZJ3.bin" cisco 3745 (R7000) processor (revision 2.0) with 246784K/15360K bytes of memory. Processor board ID JMX0814L3E2 R7000 CPU at 350Mhz, Implementation 39, Rev 3.3, 256KB L2, 2048KB L3 Cache Bridging software. X.25 software, Version 3.0.0. SuperLAT software (copyright 1990 by Meridian Technology Corp). Primary Rate ISDN software, Version 1.1. 2 FastEthernet/IEEE 802.3 interface(s) 25 Serial network interface(s) 1 terminal line(s) 2 Channelized T1/PRI port(s) 1 ATM AIM(s)

```
2 Voice FXS interface(s)
2 Voice E & M interface(s)
1 cisco service engine(s)
DRAM configuration is 64 bits wide with parity disabled.
151K bytes of non-volatile configuration memory.
125184K bytes of ATA System CompactFlash (Read/Write)
Configuration register is 0x2102
CCME_CUE_3745# sh run
Building configuration...
Current configuration : 3291 bytes
1
version 12.2
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
1
hostname CCME_CUE_3745
!
logging queue-limit 100
1
voice-card 1
dspfarm
1
voice-card 5
dspfarm
1
ip subnet-zero
!
1
no ip domain lookup
1
isdn switch-type primary-qsig
!
no voice hpi capture buffer
no voice hpi capture destination
1
!
ccm-manager mgcp
ccm-manager music-on-hold
ccm-manager config server 172.28.221.18
ccm-manager config
mta receive maximum-recipients 0
!
!
controller T1 1/0
framing esf
linecode b8zs
 pri-group timeslots 1-24 service mgcp
!
controller T1 1/1
framing sf
linecode ami
!
1
1
interface FastEthernet0/0
 description CCME-CUE-3745_to_cat3550
 no ip address
 duplex auto
 speed auto
!
interface FastEthernet0/0.1
```

```
encapsulation dot10 99
1
interface FastEthernet0/0.2
description NEW_S8700_G650
encapsulation dot1Q 300
ip address 172.28.221.49 255.255.255.240
ip helper-address 172.28.221.19
h323-gateway voip bind srcaddr 172.28.221.49
1
interface FastEthernet0/0.3
description MODULAR_MESSAGING_SOLUTION
encapsulation dot1Q 900
ip address 172.28.221.129 255.255.255.240
ip helper-address 172.28.221.19
!
interface FastEthernet0/0.4
encapsulation dot1Q 301
ip address 10.1.3.1 255.255.255.128
ip helper-address 172.28.221.19
!
interface FastEthernet0/0.5
 encapsulation dot1Q 302
ip address 10.1.3.129 255.255.255.128
ip helper-address 172.28.221.19
1
interface FastEthernet0/0.6
encapsulation dot10 90
ip address 90.1.1.254 255.255.255.0
ip helper-address 172.28.221.19
1
interface Serial0/0
description CCME-CUE-3745_to_3600
ip address 25.0.0.1 255.0.0.0
clockrate 256000
no fair-queue
1
interface Serial1/0:23
no ip address
no logging event link-status
isdn switch-type primary-qsig
isdn incoming-voice voice
isdn bind-13 ccm-manager
isdn bchan-number-order ascending
no cdp enable
Ţ
interface Service-Engine2/0
no ip address
shutdown
!
router eigrp 100
network 10.0.0.0
network 25.0.0.0
network 90.0.0.0
network 172.28.0.0
auto-summary
!
ip http server
ip classless
1
call rsvp-sync
1
voice-port 1/0:23
1
voice-port 4/0/0
```

```
1
voice-port 4/0/1
1
voice-port 4/1/0
!
voice-port 4/1/1
1
macp
mgcp call-agent 172.28.221.18 2427 service-type mgcp version 0.1
mgcp dtmf-relay voip codec all mode out-of-band
mgcp rtp unreachable timeout 1000 action notify
mgcp package-capability rtp-package
no mgcp package-capability res-package
mgcp package-capability sst-package
no mgcp timer receive-rtcp
mgcp sdp simple
mgcp fax t38 inhibit
mgcp rtp payload-type g726r16 static
!
mgcp profile default
1
!
1
dial-peer cor custom
!
dial-peer voice 1 pots
application mgcpapp
port 1/0:23
1
dial-peer voice 999410 pots
application mgcpapp
port 4/1/0
!
1
line con 0
password cisco
 login
line 65
flush-at-activation
no activation-character
no exec
transport preferred none
 transport input all
line aux 0
line vty 0 4
password cisco
login
!
end
```

经过测试的Cisco和Avaya IP-PBX系统之间的互操作性

本节提供通过Q.SIG PRI中继在Cisco Call Manager 4.1(2)平台和运行Communication Manager 2.0的Avaya S8700/G650之间测试的功能列表:

- 名称和号码显示(双向)
- 呼叫转移
- 两个系统之间的会议呼叫

<u>集成Cisco Unity Voice Mail以支持Cisco和Avaya IP电话</u>

此时,可以使用Q.SIG中继在运行Avaya Communication Manager 2.0的Avaya S8700/G650与运行 Call Manager版本4.1(2)的Cisco Call Manager平台之间进行呼叫,并且Cisco 3745 MGCP设备提供 物理ISDNPRI连接到Avaya S8700/G650。Cisco Call Manager平台上可以添加Cisco Unity服务器

,以便为Cisco和Avaya IP电话提供语音邮件支持。要启用此功能,管理员需要在Cisco Call Manager平台上配置Cisco Unity。本节包含如何在Cisco Call Manager Administration管理页面上配 置Cisco Unity的屏幕截图的步骤。

注意: 大多数配置都在思科语音邮件端口向导上执行。

将Cisco Unity添加到Cisco Call Manager

请完成以下步骤:

1. 在"功能"下,选**择"语音邮件">"语音邮件端口向导**"。选择**创建新语音邮件服务器**并向其添加端 口,然后单**击下一步**。

display station /00/	Page 2 of 4
	STATION
FEATURE OPTIONS	
LWC Reception: spe	Auto Select Any Idle Appearance? n
LWC Activation? y	Coverage Msg Retrieval? y
LWC Log External Calls? n	Auto Answer: none
CDR Privacy? n	Data Restriction? n
Redirect Notification? y	Idle Appearance Preference? n
Per Button Ring Control? n	
Bridged Call Alerting? n	Restrict Last Appearance? y
Active Station Ringing: continuous	
H.320 Conversion? y Service Link Node: ac-peoded	Per Station CPN - Send Calling Number? y
Multimedia Node: as needed	Audible Message Waiting? n
HWI Served User Tune: asia-mui	Disnlau Client Redirection? n
the original about the dord the	Select Last Used Annearance? n
	Coverage After Forwarding? s
	Hultinedia Farlu Answer? n
	Direct IP-IP Audio Connections? u
Emergency Location Ext: 7007	IP Audio Hairpinning? u

2. 输入思科语音邮件服务器名称,如AvayaUM3,然后单击Next。

System Route Plan Service Feature Device User Application Help	
Cisco CallManager Administration	dh.
Cisco Voice Mail Port Wizard	
Cisco Voice Mail Server	
Add ports to a new Cisco Voice Mail Server using this name: AveyeUM3	
Back Next Cancel	

3. 选择所需的语音邮件端口数,然后单击"下**一步"**。

System Route Plan Service Feature Device User Application Help Cisco CallManager Administration For Cisco IP Telephony Solutions
Cisco Voice Mail Port Wizard
Cisco Voice Mail Ports
AvayaUM3 currently has 0 ports configured. How many ports do you want to add? 2
Back Next Cancel

4. 输入语音邮件端口的说明和设备池。在示例配置中,输入Avaya VMailPorts作为说明,输入 Default作为设备池。

display trunk-group 1	Page 2 oF 22
TRUNK FEATURES	
ACA Assignment? n	Measured: internal Widehand Sunnort? n
	Internal Alert2 n Maintenance Tests2 u
	Dete Destuistien 10 Maintenance resust y
	Data Restriction? n NGH-ISC Trunk Member: 10
	Send Name: y Send Calling Number: y
Used for DCS? n	Hop Dat? v
Sunnress # Autnulsing? n	Numbering Format: public
Autoping Chappel ID Encoding	· ovelucius IIII IE Treatmont: coruico-prouider
ourgoing channel to Encourny	. exclusive out it freatment. Service-provider
	Replace Restricted Numbers? n
	Replace Unavailable Numbers? n
	Send Called/Busu/Connected Number: u
Cond UNIT TEO	
send oor ter y	
Send UCID? y	
Send Codeset 6/7 LAI IE? U	Ds1 Echo Cancellation? n
Path Penlacement with Retent	ion2 u
rach kepiacehent with ketent	rom à
SBS? n	Network (Japan) Needs Connect Before Disconnect? y
. 输入起始目录号码(如4406)和氢	显示(如语音邮件),然后单击"下 一步" 。
. 输入起始目录号码(如4406)和氢 	显示(如语音邮件),然后单击"下 一步" 。
. 输入起始目录号码(如4406)和显 cancel refresh enter clear	显示(如语音邮件),然后单击"下 一步" 。 help go to page next page prev page Page 1 of 2
. 输入起始目录号码(如4406)和显 cancel refresh enter clear display ds1 01A09	显示(如语音邮件),然后单击"下 一步" 。 heip <u>go to page</u> next page prev page Page 1 of 2
. 输入起始目录号码(如4406)和显 cancel refresh enter clear display ds1 01A09	显示(如语音邮件),然后单击"下 一步" 。 help go to page next page prev page Page 1 of 2 DS1 CIRCUIT PACK
. 输入起始目录号码(如4406)和5 cancel refresh enter clear display ds1 81889	显示(如语音邮件),然后单击"下 一步" 。 heip <u>go to page next page prev page</u> Page 1 of 2 DS1 CIRCUIT PACK
. 输入起始目录号码(如4406)和5 cancel refresh enter clear display ds1 81A89 Location: 81A89	显示(如语音邮件),然后单击"下 一步" 。 help go to page next page prev page Page 1 of 2 DS1 CIRCUIT PACK Name: QSIG
. 输入起始目录号码(如4406)和5 cancel refresh enter clear display ds1 01A09 Location: 01A09 Bit Rate: 1.544	显示(如语音邮件),然后单击"下 一步" 。 heip go to page next page prev page Page 1 of 2 DS1 CIRCUIT PACK Name: QSIG Line Coding: b8zs
. 输入起始目录号码(如4406)和5 cancel refresh enter clear display ds1 01A09 Location: 01A09 Bit Rate: 1.544 Line Compensation: 1	显示(如语音邮件),然后单击"下 一步" 。 help go to page next page prev page Page 1 of 2 DS1 CIRCUIT PACK Name: QSIG Line Coding: b8zs Franing Mode: esf
. 输入起始目录号码(如4406)和5 cancel refresh enter clear display ds1 01A09 Location: 01A09 Bit Rate: 1.544 Line Conpensation: 1 Signaling Mode: isdn-pri	显示(如语音邮件),然后单击"下 一步" 。 help go to page next page prev page Page 1 of 2 DS1 CIRCUIT PACK Name: QSIG Line Coding: b8zs Franing Mode: esf
. 输入起始目录号码(如4406)和5 cancel refresh enter clear display ds1 01A09 Location: 01A09 Bit Rate: 1.544 Line Conpensation: 1 Signaling Mode: isdn-pri Connect: pbx	显示(如语音邮件),然后单击"下 一步" 。 help go to page next page prev page Page 1 of 2 DS1 CIRCUIT PACK Name: QSIG Line Coding: b8zs Franing Hode: esf Interface: peer-naster
. 输入起始目录号码(如4406)和5 cancel refresh enter clear display ds1 01A09 Location: 01A09 Bit Rate: 1.544 Line Conpensation: 1 Signaling Mode: isdn-pri Connect: pbx TN-C7 Long Timers? n	显示(如语音邮件),然后单击"下 一步" 。 help go to page next page prev page Page 1 of 2 DS1 CIRCUIT PACK Name: QSIG Line Coding: b8zs Franing Hode: esf Interface: peer-master Peer Protocol: Q-SIG
. 输入起始目录号码(如4406)和5 cancel refresh enter clear display ds1 01A09 Location: 01A09 Bit Rate: 1.544 Line Conpensation: 1 Signaling Mode: isdn-pri Connect: pbx TN-C7 Long Timers? n Interworking Message: PROGress	显示(如语音邮件),然后单击"下 一步" 。 help go to page next page prev page Page 1 of 2 DS1 CIRCUIT PACK Name: QSIG Line Coding: b8zs Franing Hode: esf Interface: peer-master Peer Protocol: Q-SIG Side: a
. 输入起始目录号码(如4406)和5 cancel refresh enter clear display ds1 01A09 Location: 01A09 Bit Rate: 1.544 Line Compensation: 1 Signaling Mode: isdn-pri Connect: pbx TN-C7 Long Timers? n Interworking Message: PROGress Interface Companding: mulaw	With the second secon
. 输入起始目录号码(如4406)和5 cancel refresh enter clear display ds1 01A09 Location: 01A09 Bit Rate: 1.544 Line Compensation: 1 Signaling Mode: isdn-pri Connect: pbx TN-C7 Long Timers? n Interworking Message: PROGress Interface Companding: mulaw Idle Code: 1111111	With the second secon
. 输入起始目录号码(如4406)和氢 cancel refresh enter clear display ds1 01A09 Location: 01A09 Bit Rate: 1.544 Line Compensation: 1 Signaling Mode: isdn-pri Connect: pbx TN-C7 Long Timers? n Interworking Message: PROGress Interface Companding: mulaw Idle Code: 1111111	2示(如语音邮件),然后单击"下 一步 "。 heip go to page next page prev page Page 1 of 2 DS1 CIRCUIT PACK Name: QSIG Line Coding: b8zs Franing Hode: esf Interface: peer-naster Peer Protocol: Q-SIG Side: a CRC? n P/Apalon Bearer Capability: 3.1kHz
. 输入起始目录号码(如4406)和5 cancel refresh enter clear display ds1 01A09 Location: 01A09 Bit Rate: 1.544 Line Compensation: 1 Signaling Mode: isdn-pri Connect: pbx TN-C7 Long Timers? n Interworking Message: PROGress Interface Companding: mulaw Idle Code: 11111111	With the second secon
. 输入起始目录号码(如4406)和5 cancel refresh enter clear display ds1 01A09 Location: 01A09 Bit Rate: 1.544 Line Compensation: 1 Signaling Mode: isdn-pri Connect: pbx TN-C7 Long Timers? n Interworking Message: PROGress Interface Companding: mulaw Idle Code: 11111111	2示(如语音邮件),然后单击"下一步"。 heip go to page next page prev page Page 1 of 2 DS1 CIRCUIT PACK Name: QSIG Line Coding: b8zs Framing Mode: esf Interface: peer-master Peer Protocol: Q-SIG Side: a CRC? n P/Analog Bearer Capability: 3.1kHz
. 输入起始目录号码(如4406)和5 cancel refresh enter clear display ds1 01A09 Location: 01A09 Bit Rate: 1.544 Line Compensation: 1 Signaling Mode: isdn-pri Connect: pbx TN-C7 Long Timers? n Interworking Message: PROGress Interface Companding: mulaw Idle Code: 11111111	Name: QSIG Line Coding: b8zs Framing Mode: esf Interface: peer-master Peer Protocol: Q-SIG Side: a CRC? n P/Analog Bearer Capability: 3.1kHz
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输入起始目录号码(如4406)和気 cancel refresh enter clear display ds1 01A09 Location: 01A09 Bit Rate: 1.544 Line Compensation: 1 Signaling Mode: isdn-pri Connect: pbx TN-C7 Long Timers? n Interworking Message: PROGress Interface Companding: mulaw Idle Code: 11111111 DC	Reference of ACH Area of the second of the
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. 输入起始目录号码(如4406)和场 cancel refresh enter clear display ds1 01009 Location: 01A09 Bit Rate: 1.544 Line Compensation: 1 Signaling Mode: isdn-pri Connect: pbx TN-C7 Long Timers? n Interworking Message: PR0Gress Interface Companding: mulaw Idle Code: 1111111 DC Slip Detection? n Echo Cancellation? n	Log (如语音邮件),然后单击"下一步"。 hep go to page next page prev page Page 1 of 2 DS1 CIRCUIT PACK Name: QSIG Line Coding: b8zs Framing Mode: esf Interface: peer-master Peer Protocol: Q-SIG Side: a CRC? n P/Analog Bearer Capability: 3.1kHz Near-end CSU Type: other
. 输入起始目录号码(如4406)和5 cancel refresh enter clear display ds1 01A09 Location: 01A09 Bit Rate: 1.544 Line Compensation: 1 Signaling Mode: isdn-pri Connect: pbx TN-C7 Long Timers? n Interworking Message: PROGress Interface Companding: mulaw Idle Code: 11111111 DC Slip Detection? n Echo Cancellation? n	And Control of the answer of

6. 下一个屏幕会问,"是否要将这些目录号码添加到线路组?"选择是。将目录号码添加到新线路组,然后单击"下一步"。

cancel	refresh	enter	clear	help	go to page	next page	prev page			
display	trunk-g	roup 1						Page	1 0f	22
				TRUNK	GROUP					
Group N Group Dire Dial A Queue L Service	umber: 1 Name: 0 ction: t ccess? y ength: 0 Tupe: t	SIG TRU wo-way	NKING	Gr Dutgoing Busy T A	oup Type: COR Display hreshold: uth Code	isdn 90 9 99	TN: 1 Carr Nigh T	CDR Repo ier Medi t Servic estCall	rts: n TAC: *0 Jn: PRI 2: ITC: re	1 /BRI st
501 4100	Type: e		Far	End Test	Line No:			cocourt .		
TestCal TRUNK P	1 BCC: 4 ARAHETER Codese Nax Mes	S t to Sei sage Si	nd Disp ze to S	lay: 0 end: 260	Codese	et to Se	nd Natio	nal IEs:	6	
Supp1	enentary	Servic	e Proto	col: b	Digit	Handlin	ig (in∕ou	t): enblo	oc/enbl	oc
	Tru	ink Hunt	: ascen	d		Di	QSIG Val qital Lo	ue-Added ss Group	? y : 13	
Calling Discon Answer	Number E nect Sup Supervi	- Deleto it Rate pervision sion Tin	e: : 1200 n - In? meout:	Insert: y Out? Ø	Synchroni Y	lzation:	Numberin async	g Format Duplex	: pub-u : full	nk

7. 输入与您之前输入的语音邮件服务器匹配的线路组名称,例如AvayaUM3。

display trunk-group 1	Page 2 of 22
TRUNK FEATURES	
ACA Assignment? n	Heasured: internal Wideband Support? n
	Internal Alert? n Maintenance Tests? y
	Data Restriction? n NCA-TSC Trunk Member: 10
	Send Name: y Send Calling Number: y
Used For DCS? n	Hop Dgt? y
Suppress # Outpulsing? n	Numbering Format: public
Outgoing Channel ID Encoding:	exclusive UUI IE Treatment: service-provider
377 - 29 	
	Replace Restricted Numbers? n
	Replace Unavailable Numbers? n
	Send Called/Busy/Connected Number: y
Send UUI IE? y	
Send UCID? y	
Send Codeset 6/7 LAI IE? y	DS1 Echo Cancellation? n
where a second one works a second	
Path Replacement with Retention	onr y
cheg - M	stumpt (Issae) Mande Persont Defeue Discovered u
2823. U M	etwork (Japan) Neeus connect before disconnect? y

8. 下一个屏幕显示目前为止输入的配置。如果配置没有更改,请单击**完成**。

ispl	ay truni	(-group	1				Page	6 OF	22
					TRUNK GROUP				
					Administ	tered Members (min/	max):	1/23	
ROUP	MEMBER	ASSIGN	HENT	s	Tota	al Administered Hem	bers:	23	
	Port	Code	SFx	Name	Night	Sig Grp			
1:	01A 89 81	TN464	G		्र 				
2:	01A 09 02	TN464	G			1			
3:	01A 09 03	TN464	G			1			
4.5	01A 09 04	TN464	G			1			
5:	01A 09 05	TN464	G			1			
6:	018 09 06	TN464	G			1			
7:	0100907	TN464	G			3			
8 :	01A 09 08	TN464	G			1			
9:	01A 09 09	TN464	G			1			
10:	0140910	TN464	G			1			
11:	0160911	TN464	G			1			
12:	0140912	TN464	G			1			
13:	01A0913	TN464	G			1			
14:	0160914	TN464	G			1			
15:	0100915	TN464	G			1			
		1000	12						

9. 在寻线**列表管理网页上单**击添加新寻线列表。

display) sign	aling-	group	1			
					SIGNALING	GROUP	
Group	Nunbe	r: 1	Ass	ociated Primary	Group Type: Signaling? D-Channel:	isdn-pri y 01A0924	Max number of NCA TSC: 10 Max number of CA TSC: 10 Trunk Group for NCA TSC: 1
	Trunk Su	Group	for ntary	Channel Service	Selection: Protocol:	1 b	X-Mobility/Wireless Type: NONE Network Call Transfer? n
			and sol <u>f</u> t				
Bartonetta				defendence des			
Command	1:			ana ing an			

10. 输入寻线列表名称和说明,例如Avaya VMailHL。此外,为Cisco Call Manager**组**选择 Default。

car	ncel		ſ	efre	sh		ente	er clear	he	elp	go to page	next page	prev page				
isp	11	ay	r	out	te-	-pa	atter	n 4						-	Page	1 0	F 3
								Pattern N	unber	: 4	Patter Seci	'n Name: ure SIP?	isdn t n	est			
	GI	rp D	FF	۹L	NF	'n	Pfx Mrk	Hop Toll Lmt List	No. Del Dats	Inse Digi	rted ts					DCS/ QSIC	/ IXC G
1:	1		1	1	46	38		4								n	user
2:																n	user
3:																n	user
4:																n	user
5:																n	user
6:																n	user
	ļ	800	្ត	UNL.	UE		TSC	CA-TSC	ITC	BCIE	Service	e/Featuro	e BAND	No.	Numbe	ring	LAR
		1	~	•	4	w		Request					200	odde	FUFMa	1	
4								bobood ad	wart				Sur	auur	ess nub_u	inte -	0000
	2	8	2	2	2		2	as-neeueu	Post						pan-a	ink .	none
÷.	2	8	2	2	2	2			Post								none
	2	2	2	2	2				Pact								none
2.	2	2	2	2	2				Pact								none
2.	2	2	2	2	2				rest								none
U -	4	9	2	2	9				rest	65							none

11. 此屏幕捕获是成功添加寻线列表的结果。点击添加线路组。

	A	IAR DI	GIT ANALY	SIS TABI	LE	Percent Fu	11:	2
Dialed	Tot	al	Route	Call	Node	ANI		
String	Min	Max	Pattern	Туре	Nun	Reqd		
4.	4	4	20	aar		у		
4	7	7	999	aar		n		
4991	4	4	4	aar		У		
4008	4	4	4	aar		У		
4015	4	4	4	aar		n		
44	4	4	4	aar		y		
5	4	4	10	aar		n		
5	7	7	999	aar		n		
5001	4	4	25	aar		n		
5 05 0	4	4	10	aar		n		
555	7	7	4	aar		n		
7	7	7	999	aar		n		
70007950	8	8	45	aar		n		
8	7	7	999	aar		n		
88001	5	5	65	aar		n		

12. 选择之前配置的线路组。在本例中,它是AvayaUM3。

display station 7007	Page 2 of 4
	STATION
FEATURE OPTIONS	
LWC Reception: spe	Auto Select Any Idle Appearance? n
LWC Activation? y	Coverage Hsg Retrieval? y
LWC Log External Calls? n	Auto Answer: none
CDR Privacy? n	Data Restriction? n
Redirect Notification? y	Idle Appearance Preference? n
Per Button Ring Control? n	
Bridged Call Alerting? n	Restrict Last Appearance? y
Active Station Ringing: cont	nuous
H.320 Conversion? y	Per Station CPN - Send Calling Number? y
Multimedia Made: opha	end Audible Meccane Waiting? n
MUI Served User Tune: asia	mui Dicnlau Client Redivection? n
init served user type. dsty	Soloet Last lised Onesware? n
	Couprane Ofter Forwarding? c
	Hultinodia Farlu Ancume? n
	Direct IP-IP Oudio Connections? u
Emergency Location Ext: 7887	IP Audio Hairninning u
courgency cocación exe. roor	in nouro nari priming: y

13. 下一个屏幕截图显示成功插入线路组的结果。

Hunt List ୍ଦୁo	nfiguration	Add a new Hu Back to Find/List Hun Dependency Re	nt List t Lists acords
Hunt List Details	Hunt List: Avaya VMail	HL	
AvayaUM3	Status: Line Group insert con	npleted	
	Copy Update Delete	e Reset	
	Hunt List Information		
	Hunt List Name*	Aveya VMail HL	
	Description	Avaya VMail HL	
	Cisco CallManager Group*	Default 💌	
	Enable this Hunt List (change effective on Update; no reset required)	
	Hunt List Member Infor	mation	
	Add Line Group		
	Selected Groups* (ordered by highest priority)	5UM3	÷
		▼ ▲	
	Removed Groups (to be removed from Hunt List when you dick Update)		

14. 转到Route Plan > Route/Hunt > Hunt Pilot。从Hunt Pilot屏幕中单击Add a New Hunt Pilot。

System Foute Plan Service Feature Devic	e User Application Help	
Cisco CallManager Administr For Cisco IP Telephony Solutions	ation dim	Sesteres
Find and List Hunt Pilot	S Add a New Hu	int Pilot
No current search		
Find Hunt Pilots where Pattern and show 20 items per page To list all items, dick	Find without entering any search text.	
' 15. 在寻线引导(如4408)中输入 	,然后选择寻线列表(如Avaya VI go to page next page prev page	Mail HL),然后单击 插入 。
display ds1 01A09		Page 1 of 2
	DS1 CIRCUIT PHCK	
Location: 01A09	Name: QS	IG
Line Compensation: 1	Franing Mode: es	zs F
Signaling Mode: isdn-pri		
TN-C7 Long Timers? n	Peer Protocol: 0-	er-naster SIG
Intervorking Message: PROGress	Side: a	
Interface Companding: mulaw	CRC? n	
Ture Loue. TTTTTTT	DCP/Analog Bearer Capability: 3.	1kHz

16. 转到Feature > Voice Mail > Voice Mail Pilot,然后在结果的屏幕上单击Add a New Voice Mail Pilot。

Slip Detection? n

Echo Cancellation? n

Near-end CSU Type: other

cancel	refresh	enter	clear	help	go to page	next page	prev page			
display	trunk-	group 1						Page	1 of	22
				TRUNK	GROUP					
Group N Group Dire Dial A Queue L Service TestCal TRUNK P Suppl	umber: Name: ction: ccess? ength: Type: 1 BCC: ARAHETE Codes Nax Me ementar	1 QSIG TRU two-way y 0 tie 4 RS et to Se ssage Si y Servic	NKING Far I nd Displ ze to So e Protoc	Gr Dutgoing Busy T A End Test Lay: 0 end: 260 col: b	oup Type: COR: Display hreshold: Line No: Codese Digit	isdn 90 99 99 n et to Se Handlin	(TN: 1 Carri Night To end Nation	CDR Report TA ier Medium t Service: estCall IT nal IEs: 6 t): enbloc	s: n C: *01 : PRI/ C: res /enblo	'BRI it
	Tr	unk Hunt	: ascen	1			OSIG Valu	e-Added?	u	
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17. 输入与先前配置的寻线引导号匹配的语音邮件引导号。在本例中,寻线引导号和语音邮件引 导号均为4408。

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18. 转到功能>语音邮件>语音邮件配置文件,然后单击添加新的语音邮件配置文件。

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19. 输入语音邮件配置文件名称和说明,如AvayaVMailProfile,并在步骤17中选择语音邮件引导 号。在这种情况下,语音邮件引导号为4408。

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20. 单击**功能>语音邮件>留言等待指示器>添加新留言等待号**码以添加留言等待指示器(MWI)开 /关号码。此处包含两个屏幕截图,用于显示消息等待指示灯开/关号码。

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555	7	7	4	aar		n		
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经测试的Cisco Unity语音邮件功能

以下是Cisco Unity语音邮件功能列表,该功能已通过Avaya IP电话进行测试,该电话用于通过Cisco Call Manager 4.1(2)平台和运行Communication Manager 2.0的Avaya S8700/G650之间的Q.SIG PRI中继访问Cisco Unity语音邮件:

- 内部问候语
- 忙线问候语
- MWI
- 轻松访问消息

相关信息

- •<u>语音技术支持</u>
- 语音和统一通信产品支持
- <u>Cisco IP 电话故障排除</u>
- <u>技术支持和文档 Cisco Systems</u>