

Avaya Solution & Interoperability Test Lab

Application Notes of Avaya and Polycom H.323 Video Solution Consisting of Polycom CMA 4000 with Avaya Aura[™] Communication Manager – Issue 1.0

Abstract

These Application Notes describe a compliance tested solution comprised of Avaya Aura[™] Communication Manager and the Polycom CMA 4000. The solution described in these Application Notes pertains only to H.323 interoperability between Avaya Aura[™] Communication Manager and the aforementioned Polycom gatekeeper.

Information in these Application Notes has been obtained through DevConnect compliance testing and additional technical discussions. Testing was conducted via the DevConnect Program at the Avaya Solution and Interoperability Test Lab.

1. Introduction

This Application Notes describes a compliance tested solution comprised of Avaya AuraTM Communication Manager and Polycom CMA 4000 Gatekeeper. Connectivity between Polycom and Avaya devices is via H.323 signaling. This configuration provides basic point-to-point and multipoint Video/Audio calls through Avaya AuraTM Communication Manager and Polycom Gatekeeper.

1.1. Interoperability Compliance Testing

The interoperability compliance testing included basic feature testing.

Feature tests focused on:

- Point to point calls
- Multipoint audio and video calls
- Ad-hoc Conference calls
- Polycom RMX based Conference
- Media shuffling
- Basic Telephony
 - o Hold
 - o Unhold
 - Mute Audio and Video
 - Unmute Audio and Video
 - o Transfer
 - o Video start/stop

1.2. Support

Technical support on Polycom can be obtained through the following:

Web: <u>http://www.polycom.com/support/</u>

2. Network Topology

The configuration in **Figure 1** was used to compliance test Polycom Video Solution interoperability with Avaya Video Solution where some of the Polycom video endpoints were registered to Communication Manager and the others were registered to the **Polycom CMA**. Various types of video and audio calls were tested across the H.323 trunk. The configuration in **Figure 2** was used to test Polycom Interop Test Configuration with Avaya AuraTM Communication Manager Neighbored Gatekeeper where only the Avaya video endpoints (one-X Communicator and IP Softphone) were registed to Communication Manager and all the Polycom CMA. Various types of video and audio calls were tested across the H.323 trunk.



Figure 1: CM Integration & CM Neighbored Gatekeeper



Figure 2 - CM Neighbored Gatekeeper

3. Equipment and Software Validated

The following equipment and software were used for the sample configuration provided:

Equipment	Software
Avaya Aura [™] Communication Manager	5.02.0.947.3-17436
Avaya Gateway G650	
IPSI	FW044
CONTROL-LAN	FW032
Medpro (TN2602AP)	FW044
Polycom CMA 4000	4.01.00.ER030

4. Configure the Avaya Aura[™] Communication Manager

This section provides the procedures for configuring Avaya AuraTM Communication Manager. The configuration page in this section are accessed using Communication Manager System Access Terminal (SAT). Log in with the appropriate credentials. The procedures include the following areas:

- Verify Communication Manager License
- Administer IP Node Name for Communication Manager
- Administer Dial Plan
- Administer Signaling Group and Trunk Group
- Administer Routing Pattern
- Administer AAR Analysis Table
- Administer Uniform Dial Plan

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- Administer Network Region
- Administer Codec Set

4.1. Verify Communication Manager License

Verify that the Communication Manager license has proper permissions for features illustrated in these Application Notes. If not then contact the Avaya sales team or business partner for a proper license file.

For Ad-hoc video conferencing there needs to be some ports available on the system-parameters customer-options form "Maximum Administered Ad-hoc Video Conferencing Ports:".

change system-parameters customer-options IPTIONAL FEATURES		Page	2	of	11
IP PORT CAPACITIES Maximum Administered H.323 Trunks: Maximum Concurrently Registered IP Stations: Maximum Administered Remote Office Trunks: Maximum Concurrently Registered Office Stations: Maximum Concurrently Registered IP eCons: Max Concur Registered Unauthenticated H.323 Stations:	8000 18000 0 128 12000	USED 211 21 0 0 0 0			
Maximum Video Capable Stations: Maximum Video Capable IP Softphones: Maximum Administered SIP Trunks:	12000 12000 7000	12 27 1619			
Maximum Administered Ad-hoc Video Conferencing Ports:	8000	80			
Maximum Number of DS1 Boards with Echo Cancellation:	0	0			
Maximum IN2501 VAL Boards: Maximum Media Gateway VAL Sources:	250	0			
Maximum TN2602 Boards with 80 VoIP Channels:	128	0			
Maximum IN2602 Boards With 320 VolP Channels: Maximum Number of Expanded Meet-me Conference Ports:	300	0			

4.2. Administer IP Node Name for Communication Manager

Enter the **change node-names ip** command and add an entry for the Polycom CMA Gatekeeper as shown in the sample configuration screen below. The actual node name and IP address may vary. Submit these changes.

Page 1 of

2

```
      change node-names ip
      IP NODE NAMES

      Name
      IP Address

      video8730clan3B
      135.9.88.5

      DefaultGW
      135.9.88.245

      SQA_CMA4000
      135.9.88.45

      medpro
      135.9.88.6
```

4.3. Administer Dial Plan

Enter the **change dialplan analysis** command. Add an entry for local **ext** (extension), **dac** (dial access code), and **fac** (feature access code) as shown in the screen shot below. Submit these changes. 4 is the fac for "Auto Alternate Routing (AAR) Access Code" (see admin on screen capture below), 5xxxx series are the local extensions of the Avaya IP Softphone, One-X Communicator, and Polycom End Points registered to the Communication Manager, and #xxx is the dac for the trunk groups.

```
change dialplan analysis
                                                                Page 1 of 12
                            DIAL PLAN ANALYSIS TABLE
                                  Location: all Percent Full: 1
                            Dialed Total Call Dialed Total Call
String Length Type String Length Type
      Dialed Total Call
      String
               Length Type
    4
                1 fac
                 5
    5
                      ext
    7
                 7
                       ext.
     #
                 4
                       dac
```

change feature-access-codes	Page 1 of 9
FEATURE ACCESS CO	CODE (FAC)
Abbreviated Dialing List1 Access Code:	:
Abbreviated Dialing List2 Access Code:	:
Abbreviated Dialing List3 Access Code:	:
Abbreviated Dial - Prgm Group List Access Code:	:
Announcement Access Code:	: *10
Answer Back Access Code:	: *11
Attendant Access Code:	:
Auto Alternate Routing (AAR) Access Code:	: 4
Auto Route Selection (ARS) - Access Code 1:	: 9 Access Code 2:
Automatic Callback Activation:	: *12 Deactivation: *13
Call Forwarding Activation Busy/DA: *14 All:	: *15 Deactivation: *16
Call Forwarding Enhanced Status: Act:	: Deactivation:
Call Park Access Code:	: *17
Call Pickup Access Code:	: *18
CAS Remote Hold/Answer Hold-Unhold Access Code:	: *69
CDR Account Code Access Code:	:
Change COR Access Code:	:
Change Coverage Access Code:	:

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4.4. Administer Signaling Group and Trunk Group

Prior to configuring a H.323 trunk group for communication with Polycom CMA Gatekeeper, an h.323 signaling group must be configured. Enter the **add signaling-group 33** command and add an entry for Polycom CMA Gatekeeper as shown below. Submit these changes. **NOTE:** The field "Trunk Group for Channel Selection: " can't be populated with any number (33 in this case) until the trunk group on the next step is administered. Don't forget to come back to the signaling-group form and populate this field with the appropriate trunk group.

add signaling-group 33 Page 1 of 5 SIGNALING GROUP Group Number: 33 Group Type: h.323 Remote Office? nMax number of NCA TSC: 0SBS? nMax number of CA TSC: 0Priority Video? nTrunk Group for NCA TSC: IP Video? **y** Priority Video? n Trunk Group for Channel Selection: **33** TSC Supplementary Service Protocol: a T303 Timer(sec): 10 LRQ Required? Y RRQ Required? n ia Encryption? n LRQ Required? n H.245 DTMF Signal Tone Duractor, Near-end Node Name: video8730clan38 Far-end Node Name: video8730clan38 Far-end Listen Port: 1719 H.245 DTMF Signal Tone Duration(msec): Far-end Node Name: SQA CMA4000 Near-end Listen Port: 1719 Calls Share IP Signaling Connection? n Media Encryption? n Bypass If IP Threshold Exceeded? n DTMF over IP: out-of-band Direct Link Loss Delay Timer(sec): 90 Enable Layer 3 Test? n Int H.235 Annex H Required? n Direct IP-IP Audio Connections? y IP Audio Hairpinning? n Interworking Message: PROGress H.323 Station Outgoing Direct Media? n DCP/Analog Bearer Capability: 3.1kHz

Enter the **add trunk-group 33** command and add an entry for the Polycom CMA Gatekeeper as shown in the sample configuration. Submit these changes.

add trunk-gro	ар 33		Page 1 of 21
Group Number:	33	Group Type: isdn	CDR Reports: y
Group Name:	H.323 TG to CM	A 4000 COR: 1	TN: 1 TAC: #033
Direction:	two-way	Outgoing Display? y	Carrier Medium: H.323
Dial Access?	У	Busy Threshold: 255 Nig	ht Service:
Queue Length:	0		
Service Type:	tie	Auth Code? n	
		Member .	Assignment Method: auto
			Signaling Group: 33
			Number of Members: 10

4.5. Administer Routing Pattern

Enter the **change route-pattern 33** command and add an entry for Polycom CMA Gatekeeper as shown in the sample configuration section. Submit these changes.

```
change route-pattern 33
                                                                1 of
                                                                       3
                                                          Page
                Pattern Number: 4 Pattern Name: Polycom CMA4000
                         SCCAN? n Secure SIP? n
   Grp FRL NPA Pfx Hop Toll No. Inserted
                                                                DCS/ IXC
   No Mrk Lmt List Del Digits
                                                                QSIG
                        Dgts
                                                                Intw
1: 33 0
                                                                n user
 2:
                                                                n user
 3:
                                                                    user
                                                                n
 4:
                                                                n
                                                                    user
 5:
                                                                n
                                                                    user
 6:
                                                                    user
                                                                n
    BCC VALUE TSC CA-TSC ITC BCIE Service/Feature PARM No. Numbering LAR
   0 1 2 M 4 W Request
                                                    Dgts Format
                                                  Subaddress
1: yyyyyn n
                         rest
                                                                   none
2: y y y y y n n
                         rest
                                                                   none
3: yyyyyn n
                         rest
                                                                   none
4: yyyyyn n
                         rest
                                                                   none
5: y y y y y n n
6: y y y y y n n
                         rest
                                                                   none
                         rest
                                                                   none
```

4.6. Administer AAR Analysis Table

Enter the **change aar analysis 0** command and add an entry for Polycom CMA Gatekeeper as shown in the sample configuration below. Submit these changes.

change aar analysis O						Page 1 of 2
	A	AR DI	GIT ANALYS	IS TABI	ΞE	
			Location:	all		Percent Full: 1
Dialed	Tot	al	Route	Call	Node	ANI
String	Min	Max	Pattern	Туре	Num	Reqd
2	7	7	999	aar		n
3	7	7	999	aar		n
4	5	5	33	aar		n
5	7	7	999	aar		n
6	7	7	999	aar		n
7	7	7	999	aar		n
81	5	5	33	lev0		n

4.7. Administer Uniform Dial Plan

Enter the **change uniform-dialplan 0** command and add an entry for Polycom CMA Gatekeeper as shown in the sample configuration below. Submit these changes.

```
change uniform-dialplan 0 Page 1 of 2
UNIFORM DIAL PLAN TABLE Percent Full: 0
Matching Insert Node
Pattern Len Del Digits Net Conv Num
81 5 0 aar n
```

4.8. Administer Network Region

Enter the **change ip-network-region 2** command and add entries as shown in sample configuration below. Submit these changes.

```
Page 1 of 19
change ip-network-region 2
                                     IP NETWORK REGION
  Region: 2
Location: 1
                    Authoritative Domain: dr.avaya.com
   Name: video_endpoints
                        Intra-region IP-IP Direct Audio: yes
Inter-region IP-IP Direct Audio: yes
IP Audio Hairpinning? v
MEDIA PARAMETERS
      Codec Set: 1
   UDP Port Min: 2048
   UDP Port Max: 65535
DIFFSERV/TOS PARAMETERS
Call Control PHB Value: 46
Audio PHB Value: 46
Video PHB Value: 36
RTCP Reporting Enabled? y
RTCP MONITOR SERVER PARAMETERS
Use Default Server Parameters? y
DIFFSERV/TOS PARAMETERS
         Video PHB Value: 36
802.1P/Q PARAMETERS
Call Control 802.1p Priority: 7
        Audio 802.1p Priority: 0
        Video 802.1p Priority: 5
                                            AUDIO RESOURCE RESERVATION PARAMETERS
H.323 IP ENDPOINTS
                                                                    RSVP Enabled? n
 H.323 Link Bounce Recovery? y
Idle Traffic Interval (sec): 20
   Keep-Alive Interval (sec): 5
              Keep-Alive Count: 5
```

```
2 of 19
change ip-network-region 2
                                                                Page
                               IP NETWORK REGION
INTER-GATEWAY ALTERNATE ROUTING / DIAL PLAN TRANSPARENCY
Incoming LDN Extension:
Conversion To Full Public Number - Delete:
                                              Insert:
Maximum Number of Trunks to Use for IGAR:
Dial Plan Transparency in Survivable Mode? n
BACKUP SERVERS (IN PRIORITY ORDER)
                                    H.323 SECURITY PROFILES
                                     1
                                         any-auth
1
 2
                                     2
 3
                                     3
 4
                                     4
 5
 6
                                     Allow SIP URI Conversion? y
TCP SIGNALING LINK ESTABLISHMENT FOR AVAYA H.323 ENDPOINTS
  Near End Establishes TCP Signaling Socket? y
                      Near End TCP Port Min: 61440
                      Near End TCP Port Max: 61444
```

4.9. Administer Codec Set

Enter the **change ip-codec-set 1** command and add entries as shown in sample configuration below in bold. Submit these changes.

```
change ip-codec-set 1
                                                                Page
                                                                       1 of
                                                                              2
                          IP Codec Set
   Codec Set: 1
   AudioSilenceFramesPacketCodecSuppressionPer PktSize(ms)
1: SIREN14-32K
                             1
                                       20
2: G.722-64K2203: G.711MUn2204: G.729An220
5:
 6:
7:
    Media Encryption
1: none
 2:
 3:
```

Page 2 of 2 change ip-codec-set 1 IP Codec Set Allow Direct-IP Multimedia? y Maximum Call Rate for Direct-IP Multimedia: 1920:Kbits Maximum Call Rate for Priority Direct-IP Multimedia: 1920:Kbits Mode Redundancy FAX relay 0 Modem off 0 3 TDD/TTY US Clear-channel n 0

5. Configure the Polycom CMA 4000 Gatekeeper

This section discusses the configuration of Polycom CMA Gatekeeper when it is integrated with Communication Manager.

Refer to the **Polycom® CMA[™] System Getting Started Guide** that comes with the unit for configuring the Polycom CMA for the first time and run the First-time Setup Wizard.

- Neighboring Gatekeeper
- Dial Rules
- Site Configuration
- Site-Links
- Endpoints

5.1. Neighboring Gatekeepers

Open a web browser, enter <u>http://x.x.x.x</u> for the URL, where x.x.x.x is the IP address of the Polycom CMA Gatekeeper. Login with appropriate credentials. Click on the **Admin** tab, **Gatekeeper Settings** and then **Neighboring Gatekeepers**. Select the **Add** button to add a new entry to the table. Enter the **Name, Description, Gatekeeper IP Address, Port, and Gatekeeper Identifier** as shown in the sample configuration and click on **Save**.

		🐺 POLYCOM	CMA 4000
You are here: Admin	> Gatekeeper Settings > Neigł	boring Gatekeepers	
NAVIGATION	Add		
Primary Gatekeep	Name	Description	
Alternate Gatekee	😽 Add Neighbor		
Neighboring Gatek	Name	video8730clan3B	
ACTIONS	Description	CM Gatekeeper - CLAN 01B12	
bbA 😂			
🛃 Edit			
Delete	Gatekeeper IP Address	135.9.88.5	
	Port	1719	
	Gatekeeper Identifier	video8730clan3B	
		Save Cancel	
	·		Count: 1
Friday, September 18,	2009 10:48:32 AM		System Alerts

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5.2. Dial Rules

Click on the Admin tab, Dial Plan and Sites, and then Dial Rules. Select the Add button to add a new entry to the table. Under the General Information option, enter the Name, Description, and Priority. Check the Enabled box. Select Prefix from the Pattern Type drop-down field and All from the Applicable Site drop-down field.

Note: This example below is just one way of how to setup a Dialing Rule, configure as appropriate.

			😽 РС	DLYCON	n CM	A 4000
Conference						
You are here: Admin >	Dial Plan and Sites > Dial R	ules				
NAVIGATION	Add					
Sites	Name Pattern Typ	e Pattern Data	Routing Action	Site	Priority	Enabled
Site-Links	Add Dialing Rule					×
Site Topology						
Services		Name	CM-5			
Dial Rules	General Information					
LCR Tables	Routing Action	Description	CM Extensions S	5xxxx		
	Gateway Services					
ACTIONS	Gateway Services	Priority	10			
🛤 Add		Enabled				
🛃 Edit		Pattern Type	Prefix			
💭 Delete		Applicable Site	All	▼]		
	· · · · · · · · · · · · · · · · · · ·	Ok	Cancel			Help
L L						
Friday, September 18, 200	09 11:34:39 AM					System Alerts

Under the **Routing Action** option, enter the appropriate **IP Address Pattern Data** (e.g., 5) and select **Route to a trusted neighbor** from the **Action to Perform** drop-down field. The **IP Address Pattern Data** is for routing calls, so in this example any number dialed starting with a 5 will route to the trusted neighbor as administered in the **Action to Perform**.

		₩	POLYCO	M°I CMA	A 4000
Conference Endpo You are here: Admin > Dial Pl					
NAVIGATION Add					
Sites Add Dia	ling Rule				×
Site-Links					
Site Topology Gene	ral Information Data 9	tring Manipulation			
Services	ing Action IP Add	ess Pattern Data	5		
Dial Rules Trust	ed Neighbors Start V	alue E	nd Value		
LCR Tables Gate	way Services # Char	acters to Remove	0 None		
ACTIONS		Prefix to Add			
🕼 Add					
🛃 Edit	Action	to Perform			
💭 Delete		Action	Route to a trusted neig	hbor 🛛 🔻	
		Ok Cancel			Help
Friday, September 18, 2009 11:3					

Under the **Trusted Neighbors** option, select the Gatekeeper that was administered earlier and move it over to the **Selected Neighbors** column. Click **Ok**.

			🐺 POL	усом [.] СМ	1A 4000
Conference					
You are here: Admin					
NAVIGATION	Add				
Sites	Name Pattern Typ	e Pattern Data	Routing Action Site	Priority	Enabled
Site-Links	Add Dialing Rule				X
Site Topology					
Services		Available N	leiahbors	Selected Neighb	ors
Dial Rules	General Information			video8730olao3B	
LCR Tables	Trusted Neighbors			Videoo/Socialisb	
	Gateway Services				
ACTIONS					
💭 Add					
🛃 Edit					
💭 Delete					
		1		Move Up Mo	ve Down
		Ok	Cancel		Help
Friday, September 18, 2					

5.3. Site Configuration

Click on the Admin tab, Dial Plan and Sites, and then Sites. Select the Add button to add a new entry to the table. Under the General Info option enter the Site Name and Description. Select appropriate values for the Default LCR Table, Assignment Method, and Label Color drop-down field.

Note: This example below is just one way of how to setup a Site, configure as appropriate.

			🐝 POLYCON	a" CMA 4000"
Conference E				
You are here: Admin > D				
NAVIGATION	Name Descr	iption	Country Code Area Cod	e Max Bit Rate (kbps)
Sites	Edit Site			2000000
Site-Links Site Topology Services	General Info ISDN Number Assignment	Site Name Description	My Region:Primary Site Default Site	2000000
LCR Tables	Routing / Bandwidth Subnets	Override ITU Dialing Rules PBX Access Code		
SITE ACTIONS		Country Code Area Code # Of Digits in Subscriber Num		
		Default LCR Table Assignment Method Label Color	None V No Auto Assignment V	
Friday, September 18, 2009	1404.6344.920	Ok Cancel		Help System Alerts

Under the **Routing / Bandwidth** option leave all of the default values.

Conference Ends	point Network Device Use Plan and Sites > Sites	r Reports Admin	🐳 РО	LYCOM [®] (CMA 4000" 1 Log Ove Help
NAVIGATION Sites Site-Links Site Topology Services Dial Rules LCR Tables SITE ACTIONS SITE ACTIONS C Add Edit Site Provision	it Site General Info ISDN Number Assignment Routing / Bandwidth Subnets	 ption Internet calls are not allo Allowed via H.323 Aware Allowed via H.323 aware Call Signaling IPv4 Addr Port Call Max Bit Rate (kbps) 	Country Code wed Firewall SBC or ALG 0 2000000	Area Code	Max Bit Rate (kbps)

Under the **Subnets** option, type in the **Subnet IP Address/Mask** and click **Add**. This information will be displayed in the Subnet table as seen below. Click on **Ok**.

Conference Rodmint Natural Davise Ur	RC Same	LYCOM CMA 4000
Convertence Endpoint Nature Description Navia Sites Sites Sites Sites Sites Sites Description Sites Sites Sites Sites Sites Edit Sites Sites Sites Edit Sites Sites	Add Subnet IP Address/Mask Subnet IP Address/Mask 135.0.0.0/255.0.0.0	Area Code Max Bit Rate (kbps) Action Delete
Friday, September 18, 2009 12:25:40 PM	Ok Cancel	Help System Alerts

5.4. Site-Links

Click on the Admin tab, Dial Plan and Sites, and then Site-Links. Select Add to add a new entry to the table. Enter a Name and Description. For the From Site drop-down list, select the site that was just defined in the previous step. Select a value from the To Site drop-down field. Select Direct for the Link Type. Enter the Total Bandwidth, and Call Max Bit Rate. Click on Save.

Note: This example below is just one way of how to setup a Site-Link, configure as appropriate.

		с. 1914 г. – Каланан Каланан (т. 1914) 1914 г. – Каланан (т. 1914)	😽 POL	үсом	r CMA	4000°
T Conference Endpoint No						
You are here: Admin > Dial Plan and S	ites > Site-Links					
NAVIGATION Name	Description	From Site	To Site	Link Typ	Max Bandwidth	Max Bit Rate (k
Sites Add Site-Lin	k		i Internet/VPN	Direct	2000000	2000000
Site-Links Name	Internet to My Region:Prim					
Site Topology Description	Link between Default site a					
Services From Site	My Region: Primary Site 🛛 👻					
Dial Rules To Site	Internet/VPN					
LCR Tables						
Link Type	💿 Direct 🔘 MultiSite					
SITE LINK ACTIONS		_				
Generate MultiSity. Total Band	width (kbps) 2000000					
💭 Add 🛛 Call Max Bi	t Rate (kbps) 2000000					
of Edit						
🚰 Delete						
	Save Cancel					
Friday, September 18, 2009 02:23:25 PM						

6. General Test Approach and Test Results

The testing was successfully concluded with one caveat: The **# Characters to Remove** option in the Dial Rules section (section 5.2) doesn't work. If this option is administered to have a value other than 0 it doesn't actually remove any characters. The workaround is to either setup the call routing so it's not necessary to delete any character or modify Communication Manger's **inc-call-handling-trmt trunk-group** form to remove incoming digits.

7. Verification

This section provides the tests that can be performed to verify proper configuration of Avaya AuraTM Communication Manager and Polycom CMA Gatekeeper.

7.1. Verify Communication Manager

In the test configuration the Communication Manager and Polycom CMA are connected via the trunk group 33 and signaling group 33. In the screen captures below the status of the signaling group and H.323 trunk group shows **in-service**. If the H.323 trunk between the Communication Manager and Polycom CMA is not administered properly then the status would be out-of-service.

```
status signaling-group 33

STATUS SIGNALING GROUP

Group ID: 33

Group Type: h.323

Signaling Type: facility associated signaling

Group State: in-service
```

The status of trunk 0033/001 below shows Connected Ports **S01762**. In this example a call is originated by a Polycom endpoint registered to the CMA Gatekeeper making an inbound call to a video endpoint registered to CM via port S01762 over trunk 33.

status trunk 33					
		TRUNK G	ROUP STATUS		
Member	Port	Service State	Mtce Connected Ports Busy		
0033/001 0033/002 0033/003 0033/004 0033/005	T01844 T01845 T01846 T01847 T01848	<pre>in-service/active in-service/idle in-service/idle in-service/idle in-service/idle</pre>	no S01762 no no no		

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7.2. Verify Polycom CMA

There is no command or screen to display on the CMA to check the status of the interface between the CMA and Communication Manager. The best way to check the status is through Communication Manager (Section 7.1).

8. Conclusion

The H.323 Video interoperability between Communication Manager Gatekeeper and Polycom CMA 4000 Gatekeeper has been tested and passed.

9. Additional References

Avaya references, available at http://support.avaya.com

Polycom references are available at http://www.polycom.com/support/

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