



Avaya Video Conferencing Solutions Quick Setup

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Your company's "telecommunications equipment" includes both this Avaya product and any other voice/data/video equipment that can be accessed by this Avaya product (that is, "networked equipment").

An "outside party" is anyone who is not a corporate employee, agent, subcontractor, or is not working on your company's behalf. Whereas, a "malicious party" is anyone (including someone who might be otherwise authorized) who accesses your telecommunications equipment with either malicious or mischievous intent.

Such intrusions might be either to/through synchronous (time-multiplexed and/or circuit-based), or asynchronous (character-, message-, or packet-based) equipment, or interfaces for reasons of:

- Utilization (of capabilities special to the accessed equipment)
- Theft (such as, of intellectual property, financial assets, or toll facility access)
- Eavesdropping (privacy invasions to humans)
- Mischief (troubling, but apparently innocuous, tampering)
- Harm (such as harmful tampering, data loss or alteration, regardless of motive or intent)

Be aware that there might be a risk of unauthorized intrusions associated with your system and/or its networked equipment. Also realize that, if such an intrusion should occur, it might result in a variety of losses to your company (including but not limited to, human/data privacy, intellectual property, material assets, financial resources, labor costs, and/or legal costs).

Responsibility for Your Company's Telecommunications Security

The final responsibility for securing both this system and its networked equipment rests with you — Avaya's customer system administrator, your telecommunications peers, and your managers. Base the fulfillment of your responsibility on acquired knowledge and resources from a variety of sources including but not limited to:

- Installation documents
- System administration documents
- Security documents
- Hardware/software-based security tools
- Shared information between you and your peers
- Telecommunications security experts

To prevent intrusions to your telecommunications equipment, you and your peers must carefully program and configure:

- Your Avaya-provided telecommunications systems and their interfaces
- Your Avaya-provided software applications, as well as their underlying hardware/software platforms and interfaces
- Any other equipment networked to your Avaya products

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Federal Communications Commission Statement

Part 15:

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Overview

This Quick setup guide covers the basic administration tasks to set up SIP and H.323 video endpoints. For detailed information, see *Avaya video conferencing Solutions Networking Guide 6.0*. This guide is intended for technicians installing the following video endpoints:

SIP endpoints

- Avaya Series 1000 Video Conferencing Endpoints
- Avaya one-X[®] Communicator

H.323 endpoints

- Polycom HDX video calling systems
- Polycom RMX video conferencing bridge platforms
- Polycom PathNavigator/CMA Gatekeeper
- Avaya one-X[®] Communicator

Prerequisites

- Avaya Aura[™] Communication Manager Release 6.0 is installed and functional.
- Avaya Aura[™] System Manager 6.0 is installed and functional.
- Avaya Aura[™] Session Manager is installed and functional.
- The SIP or H.323 endpoint is installed installed and functional.

Note:

Installation of video features on the endpoints requires Session Manager to be configured. For instructions, see *Administering Avaya Aura[™] Session Manager* on <http://support.avaya.com>.

Note:

All Avaya Aura[™] components and endpoints must be connected to the network and able to communicate with each other.

- Familiarity with System Manager domains, SIP entities, entity links, locations, routing, and dial patterns.
- Familiarity with administering Communication Manager, Domains on Signaling Group and IP Network Regions, AAR/ARS routing, and endpoint interfaces.

- Perform a network readiness test or network assessment to ensure your network is capable of supporting bandwidth demands of video over IP. Avaya recommends implementing quality of service (QoS) across your network

Configuration of SIP video endpoints on Communication Manager 6.0

This section provides the procedure to configure video calling facility on SIP endpoints with Communication Manager 6.0.

Enabling video on Communication Manager

The following steps describe administration on both interfaces, SAT and System Manager. Only the fields that require change are mentioned, the rest may be left as default.

Table 1: Enabling video on Communication Manager

1	<p>Enabling Multimedia IP SIP Trunking feature on Communication Manager System Management Interface</p> <ol style="list-style-type: none"> 1. Log in to the Communication Manager System Management Interface. 2. Click Licensing > Administration and navigate to the Feature Administration page. 3. Verify that the Multimedia IP SIP Trunking feature is set to yes.
2	<p>Enabling Multimedia IP SIP Trunking feature</p> <ol style="list-style-type: none"> 1. On the System Manager interface, click Elements > Feature Management > Parameters > System Parameters - Customer Options. 2. Click the arrow icon next to the Select Device(s) from Communication Manager List. 3. Select the appropriate Communication Manager, and click Show List. 4. Select the radio button in the first column and click View. 5. Click Next Page and ensure the feature Multimedia IP SIP Trunking is set to y. <p>Alternatively:</p> <ul style="list-style-type: none"> • On the Communication Manager SAT screen, enter <code>display system-parameters customer-options</code> and ensure the feature Multimedia IP SIP Trunking is set to y.

Table 1: Enabling video on Communication Manager

3	<p>Enabling video for the SIP signaling group</p> <ol style="list-style-type: none"> 1. On System Manager, click Elements > Feature Management > Network - Signaling Groups. 2. On the Signaling Groups page, click the arrow icon next to the Select Device(s) from Communication Manager List. 3. From the Communication Manager list, select the appropriate Communication Manager, and click Show List. 4. Select the appropriate Signaling Group Number and click edit to set parameters as mentioned below: <ul style="list-style-type: none"> ● IP Video : y ● Direct IP-IP Audio connections : y ● Initial IP-IP Direct Media : y <p>Alternatively:</p> <p>On the Communication Manager SAT screen, enter change signaling-group n and set parameters as mentioned below:</p> <ul style="list-style-type: none"> ● IP Video : y ● Direct IP-IP Audio connections : y ● Initial IP-IP Direct Media : y <p>Note: Modifying the default Priority video option is not necessary. See <i>Avaya video conferencing Solutions Networking Guide 6.0</i> for further details.</p>
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Table 1: Enabling video on Communication Manager

<p>4</p>	<p>Identifying the IP-codec-set</p> <ol style="list-style-type: none"> 1. Note the values of the Near-end Node Name and Far-end Network Region fields. 2. If the Near-end Node Name field is set to PROCR, the listed value is used. If the Near-end Node Name field is set to CLAN, enter <code>list ip-interface clan</code> to find the correct CLAN and make a note of the slot value. These values are used to determine the IP-Codec-set. 3. On the Communication Manager SAT screen, enter <code>display ip-interface procr/slot</code>. 4. Note the value of the Network Region field. 5. On the Communication Manager SAT screen, enter <code>display-ip-network-region</code> and move to the Inter Network Region Connection Management page. 6. Ensure the dst rgn number aligns with the Far-end Network Region . Make note of the codec set number.
<p>5</p>	<p>Adding video to ip-codec-set</p> <ol style="list-style-type: none"> 1. On the SAT screen enter <code>change ip-codec-set n</code> , where n is the codec set number used by the SIP signalling group. 2. Add or change the appropriate audio codecs as required. Set the following Multimedia parameters: <ul style="list-style-type: none"> ● Allow Direct-IP Multimedia : y ● Maximum Call Rate for Direct-IP Multimedia : 1024 Kbits <p>Note: These values are examples only. 1024 allows for 720p High Definition. Higher resolutions require more bandwidth. See <i>Avaya video Conferencing Solutions Networking Guide</i> for further details.</p> <ul style="list-style-type: none"> ● Maximum Call Rate for Priority Direct-IP Multimedia: 2048 Kbits <p>Note: This applies to priority video users and is not required for minimal administration. See <i>Avaya video Conferencing Solutions Networking Guide</i> for further details.</p> <p>Note: Verify that the list of audio codecs on the first page includes at least one of the audio codecs supported by the video endpoint, such as G.722 or G.711</p>

Administration of Avaya Series 1000 Video Conferencing and Avaya one-X[®] Communicator video endpoints and users using System Manager

Perform the following steps to configure all Avaya Series 1000 Video Conferencing Endpoints and Avaya one-X[®] Communicator with SIP video. This section describes how to use System Manager to create an endpoint template and how to add users using these templates.

Creating a template

Table 2: Creating a template

1	<p>Creating a custom template for any SIP endpoint on System Manager</p> <ol style="list-style-type: none"> 1. Click Elements > Templates > Endpoint, select Communication Manager 6.0 on the Endpoint Templates page and click New. Set the following parameters: <ul style="list-style-type: none"> ● Set Type : 9630SIP, an alias for the 1000 series endpoints ● Template Name : Avaya recommends naming the template according to its AV10x0 type and Communication Manager release, such as AV1010_CM_6_0. ● COR : 1 ● COS : 1 or an appropriate cos group for priority video calling and bit-rate management <p>Note: This applies to priority video users and is not required for minimal administration. See <i>Avaya video Conferencing Solutions Networking Guide 6.0</i> for further details.</p> <ul style="list-style-type: none"> ● SIP trunk : AAR or specific SIP trunk used between System Manager and Communication Manager 2. Select the IP video check box.
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Table 3: Creating a template

1	<p>Enabling Call Appearance feature</p> <ol style="list-style-type: none"> 1. To enable the Call Appearance feature, click Button Assignment, and set the main buttons to call appr as follows : <ul style="list-style-type: none"> ● Avaya 1010 : 1 ● Avaya 1020 : 1 ● Avaya 1030 : 1 ● Avaya 1040 : 3 ● Avaya one-X[®] Communicator : 3 ● Avaya 1050 : 7 <p>Note: The call appearances must be set to the maximum limit permitted for each endpoint.</p> 2. Select the IP SoftPhone check box for Avaya one-X[®] Communicator. When you select this check box, the title of the check box changes to IP Video SoftPhone. 3. Click Commit, and repeat this step for each endpoint.
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Adding video users

Table 4: Adding video users

1	<p>Creating a New User Profile</p> <p>On System Manager, click Users > Manage Users and click on New to open the New User Profile page. Fill in the following fields:</p> <ul style="list-style-type: none"> ● Last Name ● First Name ● Login Name : Example: ext@sip domain ● Authentication Type : Basic ● SMGR Login Password : ● Shared Communication Profile Password : Corresponds to the authorization password for the series Avaya Series 1000 Video Conferencing Endpoints and the password for Avaya one-X[®] Communicator.
2	<p>Assigning an address</p> <p>On the New User Profile page, click the Communication Profile drop-down arrow and under Communication Address click New. Set the following parameters:</p> <ul style="list-style-type: none"> ● Type : Avaya SIP ● Fully Qualified Address : ext@sip domain, which must match the Login Name in step 1.

Table 4: Adding video users

3	<p>Enabling Session Manager Profile</p> <p>Select the check box corresponding to Session Manager profile and set the following parameters:</p> <ul style="list-style-type: none"> ● Primary Session Manager : Appropriate option ● Secondary Session Manager : None ● Origination Application Sequence : Appropriate Communication Manager Server ● Terminating Application Sequence : Appropriate Communication Manager Server ● Survivability Server : None ● Home Location : Appropriate option
4	<p>Creating an Endpoint Profile</p> <ol style="list-style-type: none"> 1. On the New User Profile page, under Communication Profile, check the Box corresponding to Endpoint Profile. 2. Select the appropriate Communication Manager system and set the following parameters: <ul style="list-style-type: none"> ● Extension : same as ext from Assigning an address in step 2 ● Template : <i>templatename</i>, where <i>templatename</i> is the name created in Table 2: Creating a template on page 8 ● Port : IP 3. Click Commit.

Configuring the Avaya Series 1000 Video Conferencing Endpoints

Perform the following steps to configure all Avaya Series 1000 Video Conferencing Endpoints using the **IR Remote Control**. You can also configure each endpoint using a Web browser. See the Networking Guide for more information. If configuring the endpoint for the first time, you see the initial configuration wizard. You may set up the endpoint using the wizard or skip this process.

Table 5: Configuring Avaya Series 1000 Video Conferencing Endpoints

1	Click the blue System Menu Button on the remote. Select Admin Preferences by using the arrow buttons. Log on to the video endpoint. The default password is 1234.
2	<p>Setting General Parameters</p> <p>Select Network, click General, and set the following parameters:</p> <ul style="list-style-type: none"> ● DHCP : If DHCP is in use, ensure the DHCP server is up and then select Enabled. If the DHCP is not in use, select Disabled. ● IP Address : The IP address assigned to the actual endpoint ● Subnet Mask : Appropriate entry ● Default Gateway : Appropriate entry ● Host Name : Appropriate entry ● DNS server : Appropriate entry ● Network Speed : Auto ● 802.1X Authentication : Disabled

Table 5: Configuring Avaya Series 1000 Video Conferencing Endpoints

<p>3</p>	<p>Enabling SIP protocol Select Communications, click on SIP, and set the following parameters:</p> <ul style="list-style-type: none"> ● SIP Username : ext. This parameter is the same as step 1 of Table 4: Adding video users on page 10 ● Authorization Name : Same as SIP Username ● Authorization Password : Same as the Shared Communication Profile Password used in step 2 of Table 4: Adding video users on page 10 ● SIP registrarion : Through Proxy ● SIP Proxy : Enabled ● Proxy Hostname : Session Manager FQDN or IP address used for registration. This is the Session Manager Security Module / SIP Entity IP address or corresponding FQDN. ● SIP Registrar : Enabled ● Registrar Hostname : Same as Proxy Hostname ● TCP Signalling : Enabled
<p>4</p>	<p>Confirming Registrar Status Select Communication, click SIP and confirm if:</p> <ul style="list-style-type: none"> ● Registrar Status: Registered

Configure H.323 video endpoints on Communication Manager 6.0

This section provides a set of guidelines to configure video calling facility on H.323 endpoints with Communication Manager 6.0.

Configure Polycom VSX/HDX Series Video Conferencing Systems and V500/V700 Video Calling Systems

Use the following procedure to configure Polycom VSX/HDX video conferencing systems and V500 and V700 video calling systems. When setting up these systems, you will need to know the following:

- Maximum number of VSX/HDX, V500, and V700 systems on your network.
- PIN for each VSX/HDX/V500/V700 system. The PIN can consist of a maximum of eight numeric characters and is defined by the System Administrator.
- The key code that combines the Avaya option with any other Polycom options.
- If the VSX/HDX system has the multipoint option or IMCU option. If so, you must combine the Polycom Software License for this capability with the Avaya Option Polycom Software License to create a single Key Code to input into the unit.
- IP address of the voice system
- IP codec sets you want to use
- IP network regions you want to use

Configuring Polycom Endpoints

Use this procedure to configure the Video calling facility for all Polycom endpoint users.

Table 6: Configuring Polycom Endpoints

1	<p>Enter display system-parameters customer-options to verify the Maximum Video Capable Stations (page 2 of screen). This number is provided by the RFA license file. The Maximum Video Capable Stations was determined using the following criteria:</p> <ul style="list-style-type: none"> ● Each V500/700 system is considered to be one station ● Each single-point VSX/HDX system is considered to be one station ● Each VSX multipoint system can be three to six stations <p>Each HDX system can be three stations for multipoint plus four and seven for multipoint plus eight multipoint licensed options for the HDX9004. The HDX9002 only has multipoint plus 4 as an option.</p>
2	<p>Enter change cos to set Priority Video Calling (page 2 of screen) for the appropriate COS levels.</p>
3	<p>Enter add station to add a station for the Polycom system. Set the following parameters:</p> <ul style="list-style-type: none"> ● Type :H.323 ● Security Code : the “pin” you will administer for the VSX, HDX, V500 or V700 system ● IP Video : y ● If you want this station to be able to make priority video calls, make sure you select a COS level that has Priority Video Calling enabled. (See Step 2) ● On page 2 of the screen, set Direct IP-IP Audio Connections to y <p>Note: You can create an alias for VSX/HDX stations.</p>

Add Users/stations to Polycom endpoints

Use this procedure to add users/stations to the Polycom endpoints.

Table 7: Add users/stations to Polycom endpoints

1	Install the Polycom system and connect it to your network.
2	Upgrade the Polycom system software (if necessary).
3	Using a web browser, access the Polycom home page for the unit, and select Admin Settings > Network > IP Network .
4	Check the Enable IP H.323 check box.
5	Check the Display H.323 Extension check box.
6	In the H.323 Extension (E.164) box, enter the station number you specified for this system on the Avaya Communication Manager system.
7	From the Use Gatekeeper box, select Specify with PIN.
8	In the Gatekeeper IP Address box, enter the IP address of the CLAN or PCLAN followed by: 1719 (to specify the correct port to use).
9	In the Authentication PIN box, enter the security code you entered in Step 5.
10	In the Number box in the Gateway area, enter the extension you specified in Step 8.
11	Select the Enabled PVEC check box.
12	In the Type of Service box in the Quality of Service area, select the appropriate setting. Both IP Precedence and Diffserve are supported. Contact your Network Administrator for this information.
13	In the Type of Service Value boxes (Video, Audio, and Far End Camera Control), enter the QoS values for the IP Network Region settings in which the VSX/HDX station belongs.
14	Select the Dynamic Bandwidth check box.
15	From the Maximum Transmit Bandwidth box, select the setting that matches the Maximum Call Rate for Direct-IP Multimedia setting you specified for the Avaya Communication Manager system.
16	From the Maximum Receive Bandwidth box, select the setting that matches the Maximum Call Rate for Direct-IP Multimedia setting you specified for the Avaya Communication Manager system.
17	Complete the Firewall and Streaming sections as necessary.
18	When finished, click the Update button.
19	Repeat Steps 1 through 18 for each Polycom system.

Configuring Polycom RMX Series Video Conferencing Bridge Platform

Use this procedure to configure the Polycom RMX series video conferencing Bridge platform.

Table 8: Configuring Polycom RMX Series Video conferencing on Bridge Platform

1.	Enter change node-names ip to add an entry for the RMX system. Be sure to enter the IP address of the IP board for the RMX system.
2	<p>Enter add trunk-group to add a two-way trunk group for the RMX system. Set the following parameters:</p> <ul style="list-style-type: none"> ● Group Type: ISDN ● Direction: Two-way ● Carrier Medium: H.323 ● Service Type: Tie
3	<p>Enter add signaling-group to add a signaling group for the RMX system. Set the following parameters:</p> <ul style="list-style-type: none"> ● Group Type: H.323 ● IP Video: y ● Priority Video. If you want all incoming calls to receive priority video transmissions: y ● Trunk Group for Channel Selection to the two-way trunk group you added. ● Near-end Node Name. PROCR may be used for all systems and CLAN may be used for systems with port networks. ● Near-end Listen Port: 1720 ● LRQ Required: n ● RRQ Required: y ● Enable Layer 3 Test: n ● Far-end Node Name to the name you entered for the RMX system ● Far-end Listen Port: 1720 ● Far-end Network Region ● Calls Share IP Signaling Connection: n ● Direct IP-IP Audio Connections: y ● IP Audio Hairpinning: n

Table 8: Configuring Polycom RMX Series Video conferencing on Bridge Platform

4	Use the change trunk-group n command (where n is the trunk group you added in Step 2) to add members to the trunk group. The number of members depends on the maximum simultaneous calls an RMX supports.
5	Use the change route-pattern n command (where n is the route pattern you want to use) to create a route pattern that points to the two-way trunk group.
6	Install the Polycom system and connect it to your network.
7	Upgrade the Polycom system software (if necessary).
8	Access the Polycom home page for the unit.
9	From the Setup menu, select the System Configuration tab.
10	Under the MCMS_PARAMETERS_USER, configure the following settings: <ul style="list-style-type: none"> ● MCU_DISPLAY_NAME: POLYCOM RMX-2000 ● ENABLE_AUTO_EXTENSION: YES ● NUMERIC_CONF_ID_LEN: 5 ● CP_REGARD_TO_INCOMING_SETUP_RATE: NO ● NUMERIC_CONF_ID_MAX_LEN: 8 ● NUMERIC_CONF_ID_MIN_LEN: 4 ● TERMINATE_CONF_AFTER_CHAIR_DROP: NO ● H323_FREE_VIDEO_RESOURCES: NO
11	Under CS_MODULE_PARAMETERS, add: H245_TUNNELING: YES
12	Create an H.323 service, and enter the CLAN or PROCR IP address of the Communication Manager system as the primary gatekeeper. Confirm through a status signaling group that the RMX has registered.
13	Create a meeting room to use a test direct dial conference ID.

Configuring Ad-hoc Video Conferencing for a Polycom RMX Video Conferencing Bridge Platform

To configure Ad-hoc conferencing for a Polycom RMX video conferencing bridge platform, perform the following steps:

Table 9: Configuring Ad-hoc video for Polycom RMX video Conferencing Bridge Platform

1	Perform the procedures in the section Table 8: Configuring Polycom RMX Series Video conferencing on Bridge Platform on page 13 to configure the Polycom RMX system.
2	Enter <code>display system-parameters customer-options</code> to verify the Maximum Administered Ad-hoc video Conferencing Ports (page 2 of screen). The maximum number of Ad-hoc video conferencing ports allowed is the sum of the ports on your RMX systems. For example, if you have an RMX20 system and an RMX80 system, the maximum number of ports is 100.
3	Enter <code>change cos</code> to set Ad-hoc video Conferencing (page 2 of screen) for the appropriate COS levels.

Table 9: Configuring Ad-hoc video for Polycom RMX video Conferencing Bridge Platform

4	<p>Use the <code>add video-bridge</code> command to configure a video bridge for the RMX system. Set the following parameters:</p> <ul style="list-style-type: none"> ● Name to the name for this video bridge (for example, Ad Hoc video Bridge - RMX). ● Max Ports to the maximum number of Ad-hoc conferencing ports you want to assign to this bridge. (The minimum you can enter is 3.) This is equivalent to the number of ports for Ad-hoc use on the associated RMX. You can use Max Ports to limit the extent of Ad-hoc usage of an RMX and thereby reserve ports for scheduled usage ● Trunk Groups to the administered two-way ISDN H.323 trunk groups you added . All entries must be of the same carrier type (that is, all H.323 trunks) ● Far End Resource Info :y ● ID Range to the range of ports. The IDs you specify on this form must NOT be configured on the RMX. You must leave these IDs free for the factory to create its own conferences there. Note that AAR and UDP are not used to connect to these meeting room numbers. Conference IDs (and factory numbers) are completely independent of the dial plan ● Priority Factory Number. This number represents the Entry Queue created on the RMX and corresponds to a priority conference service level (for example, 784 Kbps). The Priority Factory Number must NEVER be in the conference ID range. If this field is left blank, all conferences can use the bridge. However, priority conferences will try to find a video bridge that has a priority factory (if there is one) ● Standard Factory Number. This number represents the Entry Queue created on the RMX and corresponds to a standard conference service level (for example, 384 Kbps). The Standard Factory Number must NEVER be in the conference ID range. If this field is left blank, non-priority conferences cannot use this video bridge. A conference started by a priority user with non-priority users may be moved to a priority bridge, and the non-priority users will connect to it and receive video <p>Note: You must specify either a Priority Factory Number or a Standard Factory Number. Do not leave both fields blank.</p>
5	<p>Create conference profiles for Ad-hoc (and Meeting Room) style conferences.</p> <p>Note: Ensure to choose Auto Layout under the video settings.</p>
6	<p>Create the two entry queues (one for Ad-hoc conferences, and one for priority conferences).</p>

Table 9: Configuring Ad-hoc video for Polycom RMX video Conferencing Bridge Platform

7	<p>For the Conference IVR Service, perform the following steps:</p> <ul style="list-style-type: none"> ● Under the Welcome tab, disable the Enable Welcome Messages check box ● Under the Conference Chairperson tab, disable the Chairperson messages check box ● Under the Conference Password tab, disable the Enable Password Messages check box
8	<p>Under the General tab, perform the following steps:</p> <ul style="list-style-type: none"> ● Deselect any .wav file for the first to Join announcement ● Disable roll call ● Disable click and view
9	<p>Under the IVR Service tab, click the music icon, and set a silence .wav file as the IVR message. A silence .wav file will disable music from being played to the first party who joins the conference. To create a silence .wav file:</p> <ul style="list-style-type: none"> ● Open the Windows Sound Recorder application. ● From the File menu, select Save As ● In the Save As dialog box, click Change ● In the Name box, enter silence.wav ● From the Format box, select PCM ● From the Attributes box, select 16.00 kHz, 16 Bit, Mono ● Click OK

Display Capacity for Ad-hoc video Conferencing.

To display the capacity for Ad-hoc video conferencing on the Communication Manager system:

Table 10: Display capacity for Ad-hoc video conferencing.

1	Use the display capacity command to access the System Capacity form.
2	Go to page 7. Ad-hoc video Conferencing Ports displays the following Ad-hoc video conferencing information: <ul style="list-style-type: none">● Used: The number of video conferencing ports currently in use● Available: The number of video conferencing ports currently available● System Limit: the total number of video conference ports in your system. (This is the sum of Used ports and available ports)

Administering Polycom PathNavigator/ CMA Gatekeepers

Perform the following steps to configure a Polycom PathNavigator/CMA Gatekeepers:

Table 11: Administering Polycom PathNavigator/ CMA Gatekeepers

1	<p>Use the change ip-codec-set 1 command to set the following parameters:</p> <ul style="list-style-type: none"> ● Allow Direct-IP Multimedia to y (page 2 of screen). ● Maximum Call Rate for Direct-IP Multimedia. This setting is the combined audio and video transmit rate or receive rate for non-priority (normal) video calls. You can use this setting to limit the amount of bandwidth used for normal video calls. For example, if you select 384 Kbits, a maximum of 384 Kbits will be used to transmit and to receive audio/video ● Maximum Call Rate for Priority Direct-IP Multimedia. This setting is the combined audio and video transmit rate or receive rate for priority video calls. You can use this setting to limit the amount of bandwidth used for priority video calls. For example, if you select 384 Kbits, a maximum of 384 Kbits will be used to transmit and to receive audio/video
2	<p>Use the change ip-network-region command to put the gatekeeper in its own network region. Set the following parameters:</p> <ul style="list-style-type: none"> ● Intra-region IP-IP Direct Audio: NO ● Inter-region IP-IP Direct Audio: NO ● Security Procedures 1 to any-auth (page 2 of screen) ● video Norm (page 3 of screen) to the amount of bandwidth that you want to allocate for the normal video pool to each IP network region ● video Prio (page 3 of screen) to the amount of bandwidth that you want to allocate for the priority video pool to each IP network region ● video Shr (page 3 of screen). Specify whether the normal video pool can be shared for each link between IP network regions
3	<p>Enter change node-names ip to add an entry for the Polycom PathNavigator gatekeeper. Be sure to enter the IP address of the IP board for the gatekeeper.</p>

Table 11: Administering Polycom PathNavigator/ CMA Gatekeepers

4	<p>Use the add signaling-group command to add a signaling group for the gatekeeper. Set the following parameters:</p> <ul style="list-style-type: none"> ● Group Type: H.323 ● IP video: y ● Priority video. If you want all incoming calls to receive priority video transmissions, select y ● Near-end Listen Port: 1719 ● LRQ Required: y ● Far-end Node Name to the name you entered for the gatekeeper in Step 3. ● Far-end Listen Port: 1719 ● Far-end Network Region to the IP network region you specified in Step 2. ● Direct IP-IP Audio Connections: y ● IP Audio Hairpinning: y
5	<p>Use the add trunk-group command to add a trunk group for the gatekeeper. Set the following parameters:</p> <ul style="list-style-type: none"> ● Group Type: ISDN ● Carrier Medium: IP ● Add members to this trunk group
6	<p>Use the change signaling-group n command (where n is the signaling group you added in Step 4) to set Trunk Group for Channel Selection to the trunk group you added in Step 5.</p>
7	<p>Create a route pattern to the gatekeeper.</p>
8	<p>Configure the gatekeeper.</p>

Configuring Avaya one-X[®] Communicator

Avaya one-X[®] Communicator can be configured with either SIP or H.323 protocol. Ensure the check box corresponding to **Enable Video** is selected on the endpoint. To configure one-X Communicator using SIP or H.323 protocol, see *Avaya one-X[®] Communicator Getting Started Guide*.

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