Polycom ™ RSS 2000 V2.0.0.000 Getting Started guide

General Safety Precautions

Follow these rules to ensure general safety:

• Keep the area around the Polycom RSS 2000 unit clean, free of clutter and well ventilated.

• Decide on a suitable location for the equipment rack that will hold the RSS 2000 unit and is near a grounded power outlet.

• • Use a regulating uninterruptible power supply (UPS) to protect the RSS 2000 unit from power surges and voltage spikes, and to keep it operating in case of a power failure.

Hardware Specification
Pentium 4, 2.8Mhz,1.5G RAM,250G Hardisk. • Form Factor: 1U 19” rack mount • Height: 1.73” (44 mm) • Width: 16.83” (430 mm) • Depth: 15.35” (390 mm) • Gross Weight: 22.4 lbs (10.2 kg) • Power Supply: Thermal controlled 220W ATX AC power supply w/PFC • AC Voltage: 100 - 240 VAC, 60-50 Hz, 5-3 Amps XP OS

Preparations

Obtain the following information from your network administrator:
• RSS 2000 unit, Subnet Mask and Default Gateway IP addresses
• Gatekeeper IP address, Prefix, and E.164 of the RSS 2000.

Unpacking and Installing the RSS 2000

1 Place the RSS 2000 unit on a stable flat surface in the selected location.

2 To connect to the power source, insert the power cable into the Power connector on the rear panel of the RSS 2000 unit and insert the Power cable into the power source socket.

3 Connect the LAN cable to LAN1 in the back of the system.

4 Turn on power switch.

Initial RSS 2000 IP Configuration

The system is shipped with a default IP address:

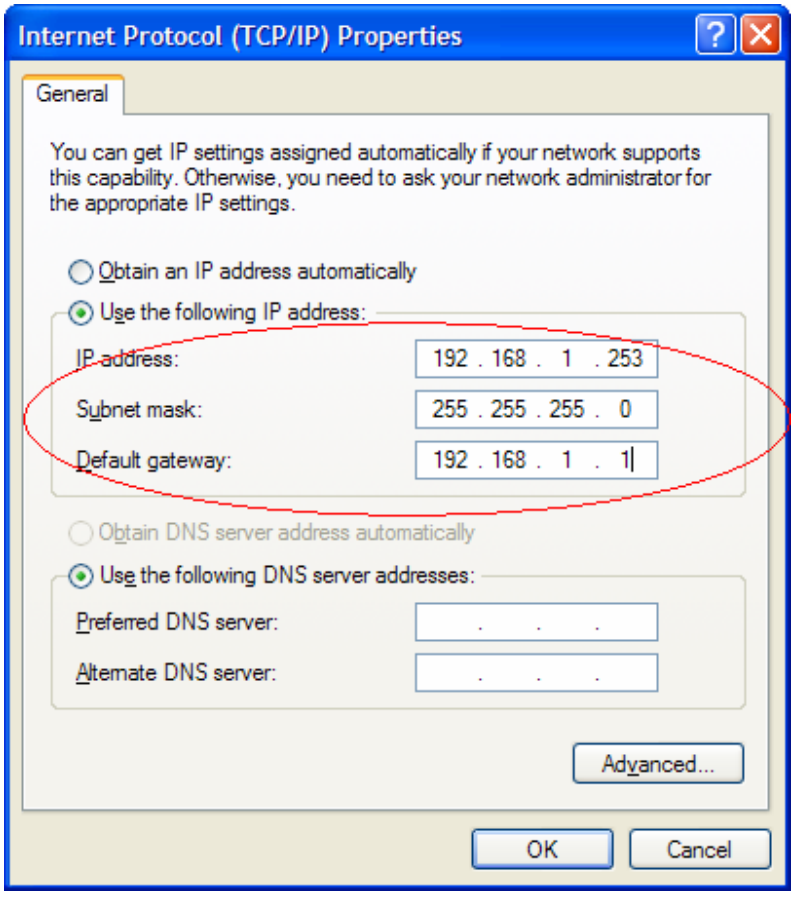
IP Address:192.168.1.254
Subnet Mask: 255.255.255.0
Gateway: 192.168.1.1

There are two ways to change the initial IP address of the sytem:

1. Via a cross over LAN cable
2. Via a RS232 or Telnet Console.

1. Changing the initial IP address via a cross over LAN cable

1. Connect a cross over LAN cable to LAN1 in the RSS 2000.
2. Set your laptop to the same segment of the RSS
    a. For example (in your laptop IP config setting):

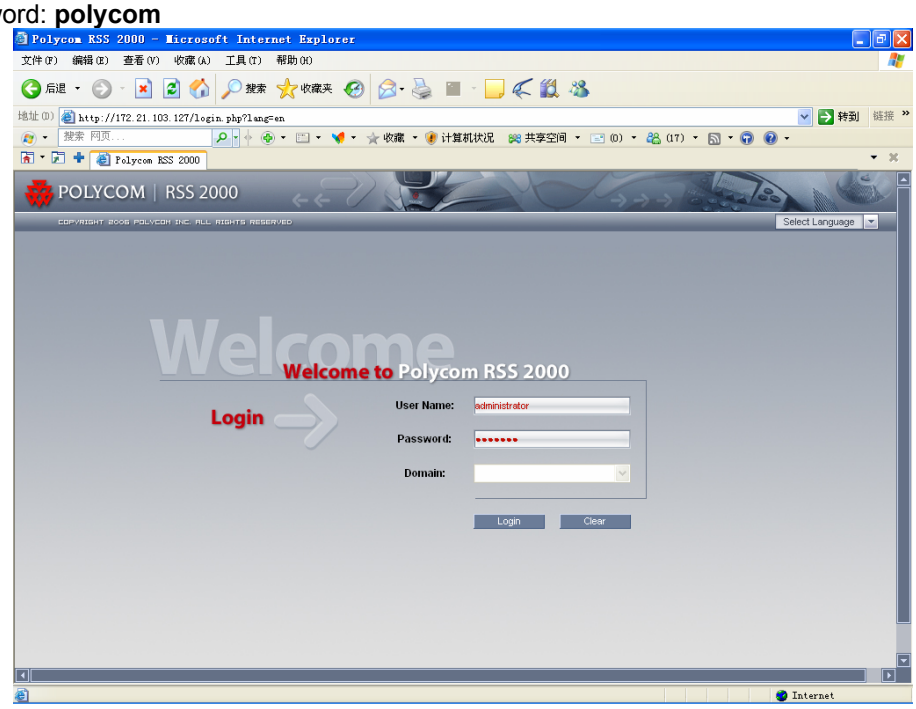


3. Open internet explorer and browse to:

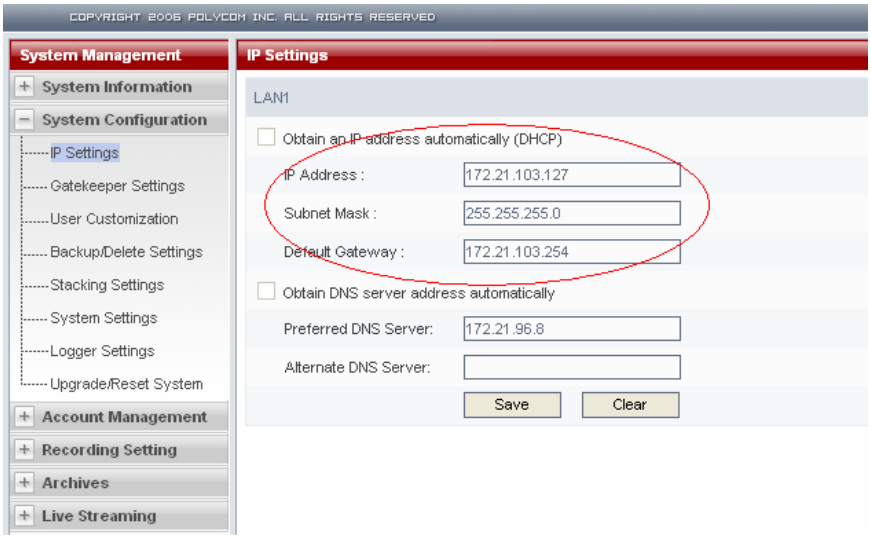
http://192.168.1.254

4. Login to the system.

User name: **administrator**
Password: **polycom**



5. Go to **system configuration->IP setting** and modify the IP address , you can set a static IP or chose DHCP . Click the **save** button and than reset the system.



2.Changing the initial IP address via an RS232 Console or Telnet

Another option to modify the IP address of the RSS 2000 is using the RS232 console.

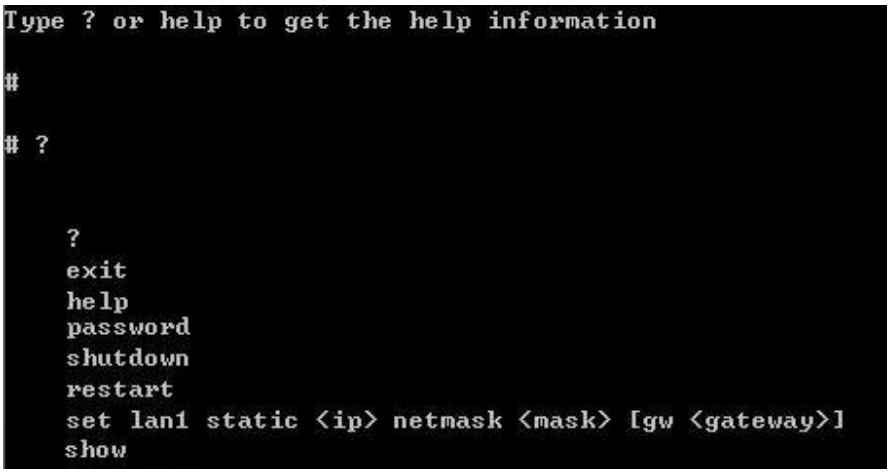
1.Connect to the RS232 port – and activate the console (9600, 8bits)

Login: **Administrator** (or any administrator password)
When logged in to the console, you will see the current IP address of the system.

Help
? – show all available commands
Changing the IP Address:
set LAN1 static 172.21.100.20 mask 255.255.224.0 [gw 172.21.96.254]

Reset Password (back to polycom)
User can reset the password of the administrator to default to 'polycom'

reset password



Note !

The same steps apply also for Telnet connection.

Only one console can be connected at any given time (either Telnet or RS232 not both).

The system is now ready for use, for additional configuration refer to the user guide.

POLYCOM

RSS 2000 Maximum Capacity

Scenario	Description	Maximum Capacity
Conference Recording	How many conferences can be recorded simultaneously	2 conference or 2 EPs dialing in the same time1 H239 recorded link at a time
Point to Point recording	How many point to point calls can be record (if both are dialing into the POLYCOM ™ RSS 2000)	1
H323 Playback	How many conferences can be playback in H323	10
Archive view	How many streaming can be reviewed (unicast) – based on the Web Server capacity	50
Stacking	How many RSS can be stacked to support ?	There is no limitation for the amount of RSSs that can be in a single stacking group. 1.In stacking mode , each RSS2000 still can support 10 H.323 playback .For example :one H.323 endpoint connect to RSS-A , it playback an archive from RSS-B stacking with RSS-A , the H.323 playback resource it occupied is taken from RSS-A . 2. Archive view from the web in stacking mode will web resources from the RSS that the archive is base, not from the RSS that the user is connect to.

Network TCP/UDP ports used by RSS2000

Usage		Type	Port Range
Manager		TCP	81
Web		TCP	80
Trace		UDP	30011
Endpoint/ H.323	Gatekeeper	UDP	1719
	RAS	UDP	1720
	Q.931 Socket	TCP	1720
	H.245 Socket	TCP	1730-1739
	Audio / Video / Data	UDP	2000-2099
Media	Live Broadcast	TCP	1800-1801
	On Demand Archive	TCP	2800-2859

POLYCOM

Polycom ™ RSS 2000 V2.0 Release Notes

New Features (Compare with V1.1.0.001)

Features	Description
CFS	Charge For Software – Polycom Process for Software registration and version control. Stacking is a chargeable SW option and require a special keycode to be enabled
Active Directory – LDAP Integration	Ability to receive the list of Users and login information from the Active Directory
Complete integration with the HDX remote	Control Recording and streaming via the HDX remote
Stacking/Hunting improvement	View archive via multiple systems both on the web and on the H323 playback
Log in the background Support	Quality improvements feature – Troubleshooting enhancements
Integration with Polycom Video Media Center (VMC)	API Improvements for notifying an external system for a new recording session and other notifications, so they can provide live streaming capabilities in the external systems
Archive Search improvements	Search and sorting options for archives.
Web UI and H323 menu customization / MultiLANguage Support	Allow the ability to customized the Web UI look and feel and the H323 menu
Media Tool Kit - Transcoding, iPod Convert and upload utility	Tool kit for offline convert
Restore Factory Default	Option for the administrator to restore factory default and cleanup all the archives in the hardisk (manufacturing process improvements)
Video Preview	Ability to view a snap shot of the archive in H323 playback menu
G.722.1 Annex C (SIREN 14 Standard) Support	Support for the standard G.722.1 Annex C
Security Settings	Microsoft Security upgrade for XP OS
DNS Support	Support for DNS
NTP Support	Support for Network Time Protocol
RTSP Support	Allow skip forward, backward for archives !
FTP Support	Download archives (multiple) via FTP
Password Lock for ordinary user	Prevent ordinary user from changing his password

POLYCOM

RSS2000 Policies and Limitations

Subject	Description
H.323 Alias length	The maximum length of the system H.323 alias name is 16 characters
Console Service	RS232 configuration: Baud rate 9600, Data bits 8, Parity None, Stop bits 1, Flow control OFF. ONLY ONE connection to the Console service is allowed, either by RS232 or by Telnet, but not both.
Endpoint menu	1. When schedule a dial out & record from the Web UI, RSS will loopback the video and NEVER show the menu unless a menu operation (FECC arrow keys or DTMF 2/4/6/8) is given from the endpoint. 2. When a pre-defined endpoint dials into the RSS and the endpoint has the "immediate recording" option, RSS will do the same as above. 3. When inviting an endpoint to a P2P recording room (using E.164 number of the P2P room followed by #/* and E.164 number of the invited endpoint), the inviting endpoint will have the menu and the invited endpoint won't have the menu 4. When two endpoints meet at a P2P recording room, only one of them can have the menu at a time.
P2P recording maximum bandwidth	Maximum bandwidth for a P2P recording room is 1024K. If video protocol for P2P recording room is H.264, then the maximum bandwidth is 768K
Archive file size	If the media file size exceeds 4GB, downloading it from Web UI may be incomplete.
Media Player Support	Windows Media Player 9/10 is required. WMP 10 is recommended. RealPlayer can also be used if WMP is properly installed. QuickTime player is not supported. Some third party media player such as Media Player Classic (MPC) and VLC can also be used, but they were not certify
Archive playback	Archive playback with WMP does not support playback controls: Pause/Resume/FF/Backward, etc
H.323 playback	During H.323 playback, if there is packet loss and endpoint requests I-Frame, RSS cannot apply the request. Since all audio/video data are from the media file.
System Reset	**Hard reset (power off and on) is not recommended.** Reset should be done via the Web UI or Console service whenever possible.
Japanese support	In RSS2000 V2.0 , Japanese has been disabled , we will support Japanese version in v2.1
LDAP integration	Microsoft Active Directory only
H.323 preview	1. Only two H323 devices can receive Preview –Meaning when there are 2 endpoints previewing on RSS2000 , the third one connect to RSS2000 will not receive preview , if these two endpoints receiving preview stop to preview or disconnect ,the third one still cannot receive , it need to re-connect . 2. HD Endpoint cannot receive preview 3. No Transcoding for Preview – Meaning archive recorded in H263 will not be able to be preview by an endpoint connected in H264 and vice versa, however – endpoint support H264 and H263 – in case the archive is in H263 – the playback will work well.
Archive Converter	When using the RSS2000ArchiveConverter – the transcoded file loaded back to the RSS will be limited to 20 FPS

Subject	Description
Calling with IP address to an RSS that is register with a GK - the call is rejected	When working in routed mode with a gatekeeper, devices that are trying to call to the RSS – with IP address, will be rejected if they are not register to the same GK. This is the right policy when working with routed mode on the GK
MGC Integration	When working with the MGC in Video switching mode – the RSS will indicate HD You can disable HD or define the minimum rate for HD in the single point recording setting in the RSS V2.0, or as alternative disable the HD in system.cfg of the MGC
HDX Interoperability	Playback of H263 recording to the HDX may result with some video artifacts
Stacking	1,Each RSS 2000 is capable of 2 recording and 8 H323 playbacks (total of 10 H323 Connections). When using the RSS Hunting option (When registering to the SE200/PathNavigator or Radvision GK) – the GK will hunt to the next available RSS after the RSS is full with 10 H323 connection. 2. Only the archives, the view right of which was “Allow All”, can be shared. ‘3 . During stacking, the archives, that wasn’t saved on the local RSS2000, can not be deleted, and it’s properties can not be modified.
Multicast	Multicast support is not applicable at current time. This option may be offered in the future, as a SW option upgrade.

JIRA#	Subject	Description
RSS-120	Overlapping names	The monitor screen displays an overlapping names of VSX8000 and RSS in a MGC meeting room
RSS-136	VSX 5000-8000 Interoperability	The RSS 2000 support the VSX 5000-8000 when the VSX is set to motion (Not Sharpness nor Promotion)
RSS-141 VNGR-4291	RMX 2000 Interoperability	The RMX 2000 connects secondary to the RSS 2000 in the rate of 64Kbps (No support for G.728 at the RMX 2000 (RMX 2000 connect to the HDX and VSX at G.729A in 64K which is not supported by the RSS 2000)) – recording at this low video rate is not recommended in any case.
RSS-142	RMX 2000 Interoperability	While RSS2000 is connected to RMX2000 in SIF when the RMX is set to Sharpness , an archive of it is tagged as H.264 SD.
RSS-137	ViewStation Interoperability	ViewStation show blue then green screen at the beginning of a connection to RSS2000
RSS-121	IVRs	When recording an IVR message – it's require to add additional 1 second of silence for each recording, to prevent message truncation with VSX and Viewstations
RSS-129	Maximum frame rate for recording and playback	Maximum frame rate for recording and playback in the recording room is 20 fps in H.264 and 25 fps in H.261/H.263
RSS-130	Point to Point recording	HD is not supported in Point to Point recording. When using an HD endpoint it's recommended to dial directly to the recording room [RSS2000 Prefix][Recording Room Prefix] and not to connect to the Recording room via the H323 Menu.
RSS-157	Embedded Multipoint on the VSX	When recording a multipoint on a VSX – first connect the endpoint to the VSX and only than connect to the RSS 2000
RSS-148	Sony HG90 version: 2.11 Beta Interoperability	Sony HG90 can connect in HD only. The RSS 2000 menu is in CIF (Not in HD) as so the HG 90 will connect as secondary.
RSS-153	H239 Content resolution	The RSS 2000 support H263 content (Not H264) – as most endpoint currently support H263 content – in order to prevent interoperability issue, when playing back the stream (In H323) the RSS will not support H264 content (Lower common nominator)
RSS-154	Econf integration	France Telecom eConf can not get video from RSS
RSS-147	Aethra X7 integration	Connect Aethra X7 to RSS2000 @1920K ,the X7 sends 720p, but receives CIF from the RSS2000. RSS2000 can only support CIF/SIF for menu .

Pending issues

JIRA#	Subject	Description
RSS-189	Integration with MGC	When working with the MGC in Video switching mode – the RSS will indicate HD You can disable HD or define the minimum rate for HD in the single point recording setting in the RSS V2.0
RSS-132 RSS-133	HDX Interoperability	Playback of H263 recording to the HDX may result with some video artifacts
RSS-207	Cisco Gatekeeper	Cisco GK is supported with the RSS 2000, however, RSS hunting option is not supported, each RSS must have a unique alias when registering to the Cisco GK.