



Polycom RSS 2000 Getting Started Guide

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Notice

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Portions, aspects and/or features of this product are protected under United States Patent Law in accordance with the claims of United States Patent No: US 6,300,973; US 6,496,216; US 6,757,005; US 6,760,750; and US7,054,820.

PATENT PENDING

Regulatory Notices

United States Federal Communication Commission (FCC)

Part 15: Class A Statement. This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC

Rules. Test limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates uses and can radiate radio-frequency energy and, if not installed and used in accordance with the instruction manuals, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his or her own expense.

CE & UL Mark

Polycom Inc., declares that the Polycom RSS2000 is in conformity with the following relevant harmonized standards:

EN 60950-1:2001
EN 55022: 1998+A1:2000+A2:2003 class A
UL Listed (USA)
CUL Listed (Canada)

Following the provisions of the Council Directive 1999/CE on radio and telecommunication terminal equipment and the recognition of its conformity.

Compliant with European Battery Directive 2006/66/EC

To comply with the European Battery Directive 2006/66/EC, dispose of weak and worn out batteries in accordance with local and national regulations.

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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.

Table 1 Hardware Specification

Parameter	Description
Hardware Capability	Pentium 4, 2.8Mhz, 2G 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
Operation System	Windows XPEK OS

First Time Installation and Configuration

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 MGC+ 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 the power switch.



Initial RSS 2000 IP Configuration

The system is shipped with a default IP configuration:

IP Address: **192.168.1.254**

Subnet Mask: **255.255.255.0**

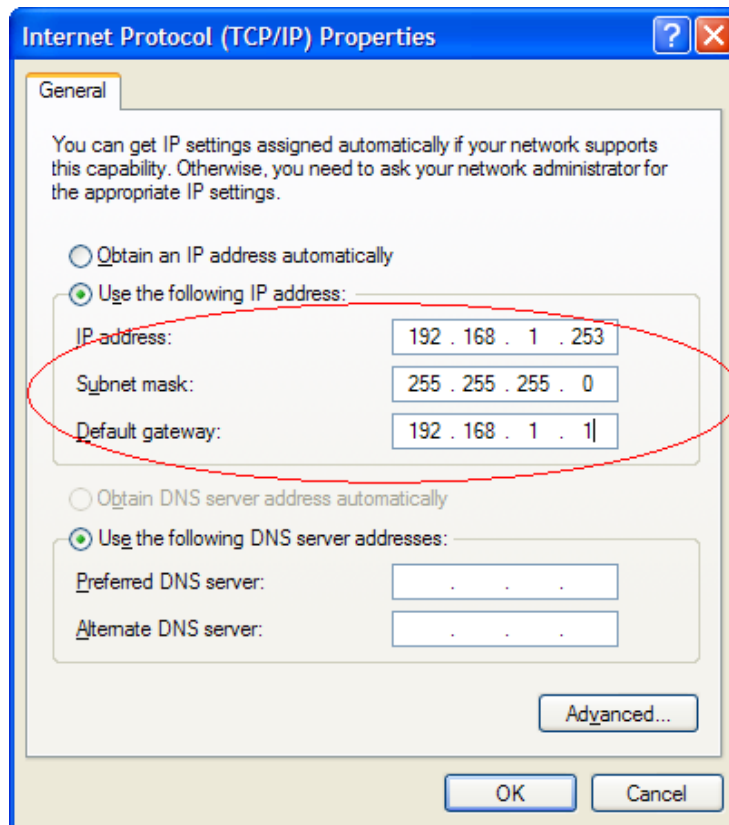
Gateway: **192.168.1.1**

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

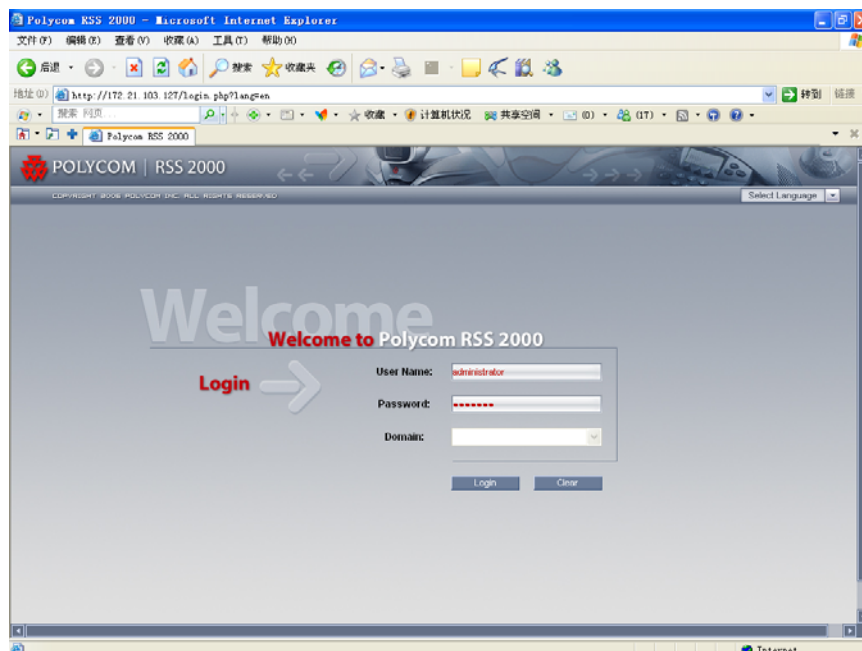
- Via a cross over LAN cable
- Via a RS232 or Telnet Console.

Changing the initial IP address via a cross over LAN cable

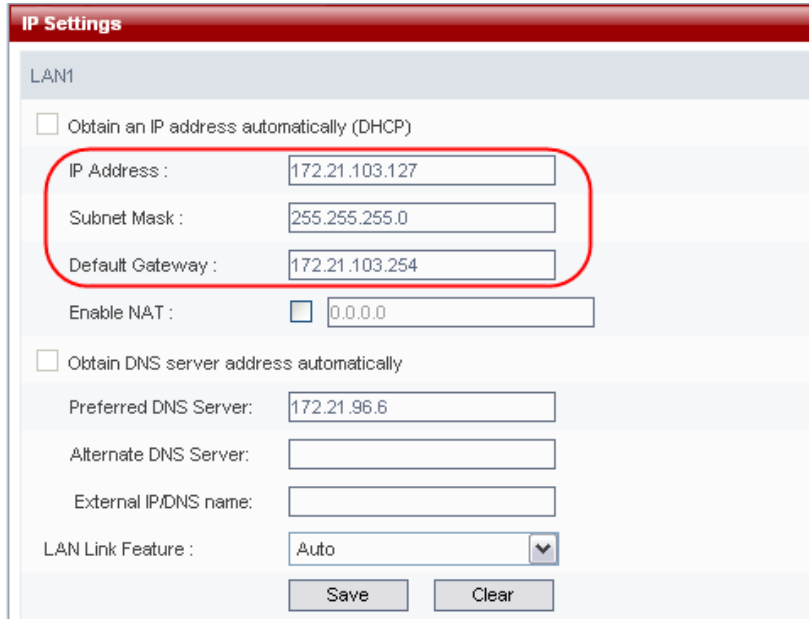
- 1 Connect a cross over LAN cable to LAN1 in the RSS 2000.
- 2 Set your laptop to the same segment of the RSS
For example (in your laptop IP config setting):



- 3 Open a browser and go to: **http://192.168.1.254**
- 4 Login to the system , RSS 2000 have 2 default accounts.
 User name: **administrator**, Password: **polycom**
 User name: **POLYCOM**, Password: **POLYCOM**



- 5 Go to system configuration->IP setting and modify the IP address. You can set a static IP or choose DHCP. Click the save button and then reset the system.



IP Settings

LAN1

Obtain an IP address automatically (DHCP)

IP Address : 172.21.103.127

Subnet Mask : 255.255.255.0

Default Gateway : 172.21.103.254

Enable NAT : 0.0.0.0

Obtain DNS server address automatically

Preferred DNS Server: 172.21.96.6

Alternate DNS Server:

External IP/DNS name:

LAN Link Feature : Auto

Save Clear

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.

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

Login: **polycom** (or any administrator password)

When you first login 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)

A user may reset the password of the administrator to the default of 'polycom'

```
# reset password
```

```
Type ? or help to get the help information
#
# ?

?
exit
help
password
shutdown
restart
set lan1 static <ip> netmask <mask> [gw <gateway>]
show
```



- The same process applies also for Telnet connections.
- Only one console session can be active at any given time (either Telnet or RS232, not both).

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

RSS 2000 Maximum Capacity

Table 2 Maximum Capacity

Scenario	Description	Maximum Capacity
Conference Recording	How many conferences can be recorded simultaneously?	2 conference recording links, or 2 endpoints dialing in the same time. Only 1 recording session at a time may utilize H.239.
Point to Point recording	How many point to point calls can be recorded (if both are dialing into the POLYCOM™ RSS 2000)?	1 point to point call can be recorded, as the two connections to the recording room utilize both available ports on the RSS 2000.
H323 Playback	How many recordings can be simultaneously played back in H323?	10 recordings. This includes playback from the local RSS 2000, or from other units in a clustering group. When H264 Content and AES Encryption are used, the H323 playback capacity is reduced to 5 connections. H264 Content and AES Encryption can be enabled/disabled in the system configuration.
Archive playback (WMV Unicast)	How many streams/archives can be simultaneously viewed (unicast)?	50 streams/archives.
Archive playback (Multicast)	How many streams/archives can be simultaneously viewed (multicast)?	2 streams can be viewed using the RSS 2000 Multicast Viewer. The archives must be enabled for multicast streaming. See the User Guide for details, please refer the section about Record settings – multicast Settings in chapter 2 .
Clustering	How many RSS 2000 devices can be clustered in a single group?	There is no limitation for the amount of RSS 2000 devices that can be in a single clustering group. <ol style="list-style-type: none"> In clustering mode, each RSS 2000 still supports 10 H.323 playback sessions. For example: One H.323 endpoint connects to RSS-A to playback an archive residing on RSS-B (B is in a clustering group with A in this example). The H.323 playback resource it occupies is taken from RSS-A, even though the archive resides on RSS-B. RSS-A has 9 additional H.323 playback sessions available, while RSS-B still has all 10 sessions available. WMV playback via the archive list in the web UI of a clustered RSS 2000 will utilize unicast streaming resources from the RSS device where the archive actually resides, not from the clustered device that the user is connected to. Note this is the reverse of the resource usage behavior for H.323 playback.

Network TCP/UDP ports used by RSS 2000

Table 3 TCP/UDP ports used by RSS 2000

Usage		Type	Port Range
Manager		TCP	81
Web		TCP	80
https		TCP	443
Trace		UDP	30011
Endpoint/ H.323	Gatekeeper	UDP	1719
	RAS	UDP	1720
	Q.931 Socket	TCP	1720
	H.245 Socket	TCP	1730-1739
	Live Broadcast	TCP	1800-1801
	Audio / Video Data	UDP	2000-2099
Media	On demand Protocol	TCP	554
	On Demand Archive	TCP (optional)	554
	On Demand Archive	UDP(optional)	Random (for source port)

Notes Regarding On Demand Archive

The UDP ports used for on demand archives are randomly chosen. There are two ways to configure firewalls and Windows Media Player for usage with RSS 2000 on demand archives.

- 1 Open an outbound UDP port range matching what is used by Windows Media Player, or open all UDP ports outbound from RSS 2000 to effectively bypass the firewall for outbound traffic. Also open the port range used by Windows Media Player for inbound traffic to the viewing PC. This range is configurable in Windows Media Player, as seen in Figure 1 (Windows Media Player defaults shown). The user can check RTSP/UDP, check 'Use ports' and define the port range.
- 2 Disable UDP connections in Windows Media Player to force a TCP-only connection. This configuration utilizes only TCP port 554. As seen in Figure 2, unchecking RTSP/UDP removes the user's ability to specify a port range and forces all connections to use TCP 554 only.

