



Release Notes
BootROM Application
SoundPoint® and SoundStation® IP

Version 3.2.2 B
22 December 2006

Part Number 3804-11069-322B

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1 General

1.1 Software Revision

These release notes cover Polycom's SoundPoint/SoundStation IP - BootROM version 3.2.2RevB.

1.2 Document Revision

These release notes may be updated during the life of this release as any issues are reported. This document was last updated December 22, 2006.

1.3 Hardware Support

This release is compatible with the following Polycom products:

- SoundPoint IP 300
- SoundPoint IP 301
- SoundPoint IP 430
- SoundPoint IP 500
- SoundPoint IP 501
- SoundPoint IP 600
- SoundPoint IP 601
- SoundPoint IP 650
- SoundStation IP 4000 SIP

1.4 Image Signatures

Cryptographic signatures have been added to all downloaded image files as a security feature. BootROM's 3.0.0 and later require that an image has a valid signature to prevent malicious code from being used. Since no prior bootROMs have this signature it is not possible to downgrade the bootROM below 3.0.0. Similarly it will not be possible to run older applications. Care should be taken when deciding to upgrade to later bootROMs.

1.5 BootROM Upgrade/Downgrade Path

Due to some enhancements that have been added to the bootROM software, it is not always possible to go to certain versions even if the hardware is compatible. The following table lists the upgrade/downgrade paths that are not supported:

From	Upgrade	Downgrade
1.x	2.x, 3.x	
2.0.x, 2.1.x	2.5.x, 2.6.x, 3.x	1.x
2.2.x	3.x	1.x, 2.0.x, 2.1.x
2.3.x, 2.4.x	3.x	1.x, 2.0.x, 2.1.x, 2.2.x
2.5.x	3.x	1.x, 2.0.x, 2.1.x, 2.2.x
2.6.x		1.x, 2.0.x, 2.1.x, 2.2.x
3.0.x		1.x, 2.x
3.1.0, 3.1.1		1.x, 2.x
3.1.2, 3.1.3, 3.2.x		1.x, 2.x – All platforms All versions below 3.1.2 - SSIP 4000 only

2 Changes by Release

2.1 *Version 3.2.2RevB*

2.1.1 Added or Changed Features

- 14874: Add support for SoundPoint IP 650 platform.

2.1.2 Removed Features

None.

2.1.3 Corrections

- 18766: Ethernet transmit level is low on IP430 platform.

2.2 *Version 3.2.2*

2.2.1 Added or Changed Features

- 17412: Add ability to set Ethernet link mode on IP430 and IP 4000 platforms.

2.2.2 Removed Features

None.

2.2.3 Corrections

- 17134: BootROM 'About' screen on IP430 shows incorrect VLAN initially for few seconds and then goes to the correct one.

2.3 *Version 3.2.1*

2.3.1 Added or Changed Features

- 11678: Add template support in master config. file.
- 15930: Add ability to set Ethernet link mode on IP 601.

2.3.2 Removed Features

None.

2.3.3 Corrections

- 12337: LCD flickers on IP 430.
- 15956: Phone fails to up/download file after an up/download fails during data transfer.
- 16021: Ftp downloads may fail because phone improperly times out connect attempts.
- 16629: Set transfer time-out for image file download to worst case scenario.

2.4 *Version 3.2.0 (Beta Only)*

2.4.1 Added or Changed Features

- Add support for IP4000 PoE PIM.
- 13552: Improve boot-up diagnostics.
- 13813: Add the ability for file transfers to attempt to contact multiple IP's per DNS name.
- 14400: Phone can take up to 30 minutes to boot when HTTP goes through TCP timeouts.
- 14625: BootROM takes 15 minutes if DNS server IPs are not valid.

2.4.2 Removed Features

None.

2.4.3 Corrections

- 14673: @ character is not accepted as part of the FTP user name, password, or filename.
- 14844: Failed downloads of pre-existing files causes deletion of pre-existing files.
- 15614: Having different parameters in flash based on platform can cause issues.

2.5 *Version 3.1.3 RevD*

2.5.1 Added or Changed Features

None.

2.5.2 Removed Features

None.

2.5.3 Corrections

- 12337: LCD flickers on IP430.

2.6 *Version 3.1.3 RevC*

2.6.1 Added or Changed Features

- 12414: Add support for IP 430 hardware platform.

2.6.2 Removed Features

None.

2.6.3 Corrections

- 15986: BootROM boots from a cached copy after downloading a wrong signature load.

2.7 *Version 3.1.3 RevB*

2.7.1 Added or Changed Features

- 9873: Maintain Ethernet link during boot-up sequence on IP 4000.

2.7.2 Removed Features

None.

2.7.3 Corrections

None.

2.8 *Version 3.1.3*

2.8.1 Added or Changed Features

- 14052: Add ability to disable Expansion Module support and reduce CDP power requirements accordingly.
- 14886: Change the power reported via CDP to the minimum required value.

2.8.2 Removed Features

None.

2.8.3 Corrections

- 13793: For HTTP digest authentication, cnonce from our phone is not random.
- 14489: Phone won't upload all log files to TFTP boot server if log_file_directory specified on MAC.cfg doesn't exist on IP 300, IP 400 and IP 500.
- 15104: CDP incorrectly advertises new link duplex levels on IP 4000

2.9 *Version 3.1.2*

2.9.1 Added or Changed Features

- 13910: Prevent SSIP 4000 from downgrading to BootROM versions that have bug #13361.

- 13911: Auto detect and correct bug #13361 on SSIP 4000.

2.9.2 Removed Features - None.

2.9.3 Corrections - None.

2.10 Version 3.1.1

2.10.1 Added or Changed Features

- 13475: User agent headers for HTTP will include the MAC address of the phone when SAS-VP is enabled.

2.10.2 Removed Features - None.

2.10.3 Corrections

- 13361: SSIP 4000 may lose the custom CA Certificate or the SAS-VP ID after file system activity.

2.11 Version 3.1.0

2.11.1 Added or Changed Features

- 8761: Added IP 601 support.

2.11.2 Removed Features - None.

2.11.3 Corrections

- 11857: Phone ignores short DHCP packets on SSIP 4000 SIP.

2.12 Version 3.0.1

2.12.1 Added or Changed Features

- 11633: Use flash credentials when URLs lack them.

2.12.2 Removed Features - None.

2.12.3 Corrections

- 2179: FTP password is present in the boot logs.
- 11409: Provisioning may not work reliably with the proftpd FTP server on Linux.
- 11417: Phone may not be able to boot from a remote subnet.

2.13 Version 3.0.0

2.13.1 Added or Changed Features

- 7663, 8970, 9299: Added ability to specify addresses as URLs.
- 7847: Added support for HTTP boot server transport for SPIP 301/501/600/601 and SSIP 4000.
- 7895: Add support for provisioning signed images only.
- 9579: Allow specific master config file to be specified in boot server URL.

2.13.2 Removed Features

- 11973: Removed support for port mode (Active) FTP server configurations
Use an FTP server/firewall that supports passive mode connections.

2.13.3 Corrections

- 9043: Phone does not reboot after a CDP VLAN change.

2.14 Version 2.6.2

2.14.1 Added or Changed Features - None.

2.14.2 Removed Features - None.

2.14.3 Corrections

- 8553: DHCP short packets are ignored in the BootROM. Not fixed for SoundStation IP 4000 SIP.
- 11278: DHCP decline not sent on duplicate IP address. Not fixed for SoundStation IP 4000 SIP.

2.15 Version 2.6.1

2.15.1 Added or Changed Features - None.

2.15.2 Removed Features - None.

2.15.3 Corrections

- 9447: Phone fails to boot if the boot server is not present and the application is not self-provisioning.
- 9537: When using TFTP, the phone does not display the “Phone could not contact the boot server” screen.
- 9581: Phone does not format the file system if the application does not fit.

2.16 Version 2.6.0

2.16.1 Added or Changed Features

- 5761: Added support for the SoundStation IP 4000 SIP.
- 7175: Made TFTP file provisioning consistent with FTP.
- 8232: Added DHCP VLAN Discovery.
- 8760: Added support for the SoundPoint IP 301.

2.16.2 Removed Features - None.

2.16.3 Corrections

- 6782: Invalid <MAC>.cfg can hang the phone.
- 8548: Phone waits 2.5 minutes for SNTP to fail.

2.17 Version 2.5.1

2.17.1 Added or Changed Features - None.

2.17.2 Removed Features - None.

2.17.3 Corrections - None.

2.18 Version 2.5.0

2.18.1 Added or Changed Features

- 5116: Added support for the SoundPoint IP 300.

2.18.2 Removed Features - None.

2.18.3 Corrections

- 5191: FTP provisioning fails if the FTP server root directory is not readable.
- 5623: Hitting the left arrow key before the cursor advances moves the cursor 2 spaces.
- 5668: Spaces in the admin password are ignored.
- 5754: Phone did not log out of FTP server after a BootROM update.

3 Notes

3.1 Distribution Files

The following files constitute the 3.2.2RevB distribution of the SoundPoint IP BootROM firmware. For centrally provisioned systems, copy these files to the boot server.

Files	Description
bootrom.ld	BootROM application executable, Release version 3.2.2.0386 for IP 650 Release Version 3.2.2.0354 for IP 430 Release Version 3.2.2.0019 for all other platforms

3.2 Outstanding Issues

- **11858: DHCP Decline on IP 4000 not sent if duplicate IP address is detected.**
Workaround: Remove the duplicate IP address.
- **13786: HTTP Digest Authentication does not work on IIS.**
Workaround: Use a different form of authentication, a different protocol or a different server.