



Release Notes: SoundPoint/SoundStation IP - SIP Software Revision

These release notes cover Polycom's SoundPoint/SoundStation IP - SIP version 1.4.1 released December 17th, 2004.

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 21, 2004.



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Release Notes: SoundPoint/SoundStation IP - SIP System Requirements

Platform	BootROM version
SoundPoint IP 300	2.6.0 or greater
SoundPoint IP 301	2.6.0 or greater
SoundPoint IP 500	2.6.0 or greater
SoundPoint IP 501	2.6.0 or greater
SoundPoint IP 600	2.6.0 or greater
SoundStation IP 4000	2.6.0 or greater

The most current *bootrom.ld* file is available on the Polycom Resource Network (<http://extranet.polycom.com/>) to authorized resellers.

3rd Party Support

BroadSoft BroadWorks versions 10.0 and 11.1
Sylantro version 3.1

Detailed Description of Software Revisions

Version 1.4.1

Added or Changed Features

- 7967: Added configurable '+' global prefix character to E.164 user parts in sip: URIs

Removed Features - None.

Corrections

- 8282: Application can get into reboot loop when polling configuration
- 9146: Speakerphone indicator turns off on second call to the same line
- 9162, 9226, 9525: Speakerphone indicator turns off when audio active in specific scenarios
- 9240: The phone responds with 482 Loop Detected when server responds to a challenge
- 9313: Bridged Line shows as active after call abandoned in some scenarios
- 9385: 2833 payload type change during local conference establishment can result in no audio on two legs of conference



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- 9503: Volume adjustments from Audio Diagnostics display can put volume setting out of range until next reboot

Configuration File Parameter Changes

.cfg File	Action	Parameter	Description
sip	added	voIpProt.SIP.requestURI.E164.addGlobalPrefix	If set to 1, '+' global prefix is added to E.164 user parts in sip: URIs. Default = 0.

Version 1.4.0

Added or Changed Features

- 1259: Added automatic periodic boot server poll for upgrade
- 2402: Added phone restart menu command
- 5761: Added support for SoundStation IP 4000 hardware platform
- 7175: Made provisioning file cache more intelligent
When TFTP is used for provisioning, the names of the ".ld" and ".cfg" files on the server no longer have to change for the phone to recognize that the files have changed. This requires bootROM version 2.6.0 or greater.
- 7970: Integrated transfer and conference with automated dialing / speed dial feature
- 8232: Added DHCP VLAN Discovery
This depends on having BootROM version 2.6.0 or greater
- 8304: Local conference on SoundStation IP 4000 only available if G.729 codec not enabled
- 9118: Added support for IP 301 hardware platform

Removed Features

- 8896: Removed idle display microbrowser configuration

Corrections

- 7003: <mac>-phone.cfg file can be saved as non-well-formed XML - excluded Unicode in attribute name
- 7424: Phone ignores short DHCP packets
- 7838: Incoming call to shared line which is remotely active cannot be answered
- 7839: While in a call, handsfree indicator turns off upon receiving Subscribe



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- 7850: A Held Bridged Line Appearance indicates Idle in some scenarios
- 7911: Phone adds extra tabs into MAC-phone.cfg files
- 7946: Remotely active Bridged Line means line cannot be used to initiate a call
- 7947: A remote call cannot be retrieved if a second line is active
- 8096: Incorrect termination LED and icon display in some shared line scenarios
- 8119: Unnecessary NOTIFY's sent in some situations with Bridged Line Appearances
- 8151: The call index in signaling is wrong when resuming a Bridged Line
- 8194: When using the "offline" state, Presence can stop working for 30 minutes
- 8275: Receiving a check-sync can cause the file system to be reformatted on a SoundPoint IP 500
- 8447: In some Bridged Line scenarios, SoundPoint IP 300 clears display while in a call
- 8533: Default configuration files should not contain an SNTP server
- 8746: P-Asserted-Identity in re-INVITE is not displayed
- 8747: Phone caches orbit number after pickup in some scenarios
- 8853: Shared line icon (and LED) indicate offering when remote Cisco phone is proceeding
- 8857: Conference call to same extension connects, locks phone
- 8899: Phone does not display a call appearance and cannot resume hold in specific scenario
- 8999: No audio after re-INVITE (SDP problem)
- 9000: TLS in via has been changed to TCP
- 9024: UI can get into wrong state in a particular BLA scenario
- 9054: Phones with multiple BLA lines will only show one as remote
- 9011: Phone should not reboot if polling fails due to ftp server unavailability
- 9112: Phone should send 415 and 488 to indicate different cases in SDP negotiation.
- 9322: SoundPoint IP 300 does not give warning when Network Link is down



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Configuration File Parameter Changes

.cfg File	Action	Parameter	Description
ipmid	added	voice.codecPref.IP_4000.G711Mu voice.codecPref.IP_4000.G711A voice.codecPref.IP_4000.G729AB	Codec preferences for SoundStation IP 4000 platform. Note that the phone will host local conferences only if the G.729 codec is not included in the list of preferences i.e. voice.codecPref.IP_4000.G729AB = blank
ipmid	added	voice.gain.rx.analog.chassis.IP_4000 voice.gain.rx.analog.ringer.IP_4000 voice.gain.rx.digital.chassis.IP_4000 voice.gain.rx.digital.ringer.IP_4000 voice.gain.tx.analog.chassis.IP_4000 voice.gain.tx.digital.chassis.IP_4000 voice.aes.hf.duplexBalance.IP_4000.x voice.ns.hf.IP_4000.enable voice.ns.hf.IP_4000.signalAttn voice.ns.hf.IP_4000.silenceAttn voice.rxEq.hf.IP_4000.enable voice.rxEq.hf.IP_4000.type voice.rxEq.hf.IP_4000.size voice.rxEq.hf.coef.IP_4000.x voice.txEq.hf.IP_4000.enable voice.txEq.hf.coef.IP_4000.x	Parameters to support SoundStation IP 4000 platform.
ipmid	removed	tcpIpApp.sn timer.resyncTime	The SNTP resynchronization now has an automatic retry mechanism which replaces this parameter.
ipmid	added	ind.class.2.state.34.index to ind.class.2.state.37.index	
ipmid	added	ind.gi.IP_4000.x.y	Indicators for SoundStation IP 4000 platform.
ipmid	added	log.level.change.dns	Logging level control for DNS module.
ipmid	added	prov.polling.enabled prov.polling.mode, prov.polling.period, prov.polling.time	Controls for automatic periodic boot server poll for upgrade. prov.polling.enabled turns this on or off, default = 0. prov.polling.mode can be rel (relative) or abs (absolute), default = abs. prov.polling.period is the polling period in seconds, default = 86400, min. = 3600. Rounded up to the nearest number of days in abs mode. In rel mode measured relative to boot time. prov.polling.time is used only in abs mode. It is specified as hh:mm, default = 03:00.
ipmid	changed	attributes under the “bitmaps” tag	New SoundStation IP 4000 bitmaps have been added. Update this whole section.
ipmid	changed	attributes under the “Animations” tag	New SoundStation IP 4000 animations have been added. Update this whole section.
ipmid	removed	all .obs parameters in voice section	SoundPoint IP 400 platform no longer supported.



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.cfg File	Action	Parameter	Description
sip	added	voIpProt.SIP.WM50	0 means phone will support Windows Messenger 4.7, this is the default. 1 means phone will support Windows Messenger 5.0
sip	added	voIpProt.SIP.keepalive.sessionTimers	1 means enable session timer 0 means disable session timer, this is the default. When session timer is disabled, the phone will not declare "timer" in "Support" header in INVITE. The phone will still respond to the re-INVITE or UPDATE. The phone will not try to re-INVITE or do UPDATE even if remote endpoint asks for it.

Version 1.3.4

Added or Changed Features - None.

Removed Features - None.

Corrections

- 9122: Local ringback continues after remote ringback received

Version 1.3.3

Added or Changed Features - None.

Removed Features - None.

Corrections

- 8149: User hears ringing in earpiece when second incoming call is received
- 8156: VLAN tagged sockets leak memory
- 8450: One-way audio after 3 blind transfers
- 8545: Sometimes phone doesn't ring if shared line is used remotely on Cisco phone to call private line
- 8832: Broadsoft shared call appearance line seize problem
- 8833: The phone should not send SUBSCRIBE for line-seize with expire 0
- 8862: Multiple line call-info header needs to be supported
- 8881: Slow memory leak with some configurations



Release Notes: SoundPoint/SoundStation IP - SIP

Version 1.3.1

Added or Changed Features

- 7129: Created new icons for new ACD features
- 7357: Added ACD softkeys
- 7452: Added line indicator animation for ACD logged-out state
- 7558: Added making session timer optional
- 7574: Added all essential SIP configuration items to local menus
- 7591: Added making Windows Messenger 5.0 support optional
- 7747: Made auto call appearance focus change part of call waiting optional
- 7881: Changed local menu configuration overrides to use line number rather than address as identifier
- 7945: Added support for user=phone in response and request

Removed Features - None.

Corrections

- 7200: Large directory can cause phone to take 10 minutes to start
- 7506: Phone cannot monitor Windows Messenger's status
- 7557: The phone stops the call when 501 received for UPDATE
- 7570: Voice Mail cannot be accessed with standard SoundPoint IP 300 user interface
- 7571: Mute LED can turn off after Registration event on SoundPoint IP 300 and SoundPoint IP 500
- 7603: Directory file saved with contacts outside of <item_list> element can cause phone to freeze when rebooting
- 7658: ACD login timed out automatically
- 7702: Call Waiting calls block outgoing DTMF signalling
- 7835: Re-registration takes place too soon after a failed registration
- 7837: Phone can send NOTIFY with wrong x-line-id value
- 7878: Phone should not honor the NOTIFY state change if a call is in the Alerting state
- 7882: Ring Type settings can apply to the wrong line after a reboot



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- 8011: Addresses returned by SRV lookups can be used out of order
- 8172: re-SUBSCRIBE can send the wrong request-URI

Configuration File Parameter Changes

.cfg File	Action	Parameter	Description
ipmid	added	call.callWaiting.prompt	If set to 1, an incoming call received when another call is active will change the User Interface focus (call appearance and soft keys). Default = 0.
ipmid	changed	lcl.datetime.date.format	Changed from “D,dM” to “D,Md”
ipmid	changed	lcl.datetime.date.longFormat	Changed from 0 to 1
ipmid	changed	attributes under the “bitmaps” tag	ACD-related fields have been changed. Update this whole section.
ipmid	changed	attributes under the “Animations” tag	ACD-related fields have been changed. Update this whole section.
phone1	added	reg.x.acd-login-logout, reg.x.acd-agent-available	If both are set to 1 for registration ‘x’, the ACD feature will be enabled for that registration.

Version 1.3.0

Added or Changed Features

- 3724: Added support for true blind transfer
- 3767: Added graphical private label feature
- 4395: Added support for SIP-based Bridged Line Appearances
- 4443: Added support for an XHTML MicroBrowser
- 5328: Added image and sub-image labels and part numbers
- 5345: Added ability to disable Call Lists individually
- 5386: Added recognition of Instant Messages from Windows Messenger 5.0
- 5698: Added custom call-progress tones to country-specific selection
- 5834: Added new date formats
- 5846: Added support for directed call pick-up
- 5849: Added support for group call pick-up
- 5855: Added support for call park/retrieve
- 5897: Added support for centralized conferencing
- 5914: Added support for remote missed call notification



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- 5916: Added support for server-based last call return
- 5917: Added support for ACD login/logout
- 5919: Added support for basic SIMPLE presence
- 5920: Added support for ACD agent available/unavailable
- 5926: Added support for 484 Address Incomplete response
- 5993: Added support for draft-ietf-sipping-dialog-package-03.txt
- 6270: Added support for new MWI draft – draft-ietf-sipping-mwi-04.txt
- 6275: Changed SNTP synchronization to have a retry mechanism
- 6329: Added interoperability support for Windows Messenger 5.0
- 6738: Added configuration option to turn on/off time/date locally
- 6850: Changed fail-over behavior when using static server list
- 6851: Changed registration status feedback to no longer fake registered status in certain situations
- 6852: Added allowing number dialing when not registered
- 6855: Added partner-specific configuration files
- 6856: Added using ICMP feedback to enhance fail-over performance
- 7009: Added support for sending compact headers
- 7213: Added alternate vendor flash support
- 7274: Changed custom configurable ring types to use non-default ringers and call-waiting tones

Removed Features

- 6069: Removed call progress tone selection from user setup domain
- 7028: Removed duplicate configuration parameters from phone1.cfg file
- 7344: DND and other volatile parameters are no longer saved in flash

Corrections

- 5244: Assignment of speed dial function to hard key does not work
- 5379: Presence status mismatch with Windows MSM 5.0
- 5540: Phone doesn't interoperate with SIPURA2000 (audio port opened too late)
- 6073: Calls on unregistered lines cannot be disabled



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- 6122: Phone does not attempt to download <mac>-phone.cfg in specific scenario
- 6222: <mac>-phone.cfg file can be saved with illegal ASCII characters in attribute name
- 6223: Cannot reset user settings when <mac>-phone.cfg file is corrupt
- 6287: Multiple 180 responses are ignored
- 6292: Network Settings accessible from the menu allow the user to set an invalid BootSrv Option.
- 6317: The phone does not build route set in 18x response
- 6395: Copy all the parameters in the route set
- 6753: Forward does not work with Live Communications Server
- 6755: Phone does not return to idle screen after transfer in some cases
- 6777: Treat 0.0.0.0 as a substitute for NULL for outbound proxy
- 6881: Pressing Handsfree button caused phone to redial on rare occasions
- 6994: Registration process and call processing should be decoupled
- 7151: Phone takes about 18 minutes to start with misconfigured DNS server
- 7166: Directory contact related features do not work with some servers
- 7172: The call-info expiry time is not honored by the phone
- 7188: Phone reboots when receiving a long instant message with no spaces
- 7345: Remote call state query works only for first Held call
- 7353: Update called party information in call appearance display as soon as possible
- 7483: Bridged Line configuration with route configuration can crash the phone in some situations
- 7508: A specific malformed TCP packet can cause the phone to lock up
- 7520: 'A' records are cached improperly if SRV is not attempted
- 7526: SUBSCRIBE failure is not handled properly

Configuration File Parameter Changes

.cfg File	Action	Parameter	Description
ipmid	added	up.localClockEnabled	Turns idle display date and time on and off.



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.cfg File	Action	Parameter	Description
ipmid	added	voice.gain.rx.analog.chassis.IP300, voice.gain.rx.analog.ringer.IP300	Additional fields to support the SoundPoint IP 300 platform.
ipmid	added	call.lastCallReturnString	String sent to server when “last call return” is activated.
ipmid	added	bitmap.IP_300.x.name	Additional fields to support the SoundPoint IP 300 platform.
ipmid	added	bitmap.IP_500.62.name, bitmap.IP_500.63.name, bitmap.IP_500.64.name	Additional fields to support new features on the SoundPoint IP 500 platform.
ipmid	added	bitmap.IP_600.66.name, bitmap.IP_600.67.name, bitmap.IP_600.68.name,	Additional fields to support new features on the SoundPoint IP 600 platform.
ipmid	added	ind.anim.IP_300.x.frame.y.bitmap, ind.anim.IP_300.x.frame.y.duration	Additional fields to support the SoundPoint IP 300 platform.
ipmid	added	ind.anim.IP_500.40, 41, 42, 43, 44.frame.y.bitmap, ind.anim.IP_500.40, 41, 42, 43, 44.frame.y.duration	Additional fields to support new features on the SoundPoint IP 500 platform.
ipmid	added	ind.anim.IP_600.39, 40, 41, 42, 43.frame.y.bitmap, ind.anim.IP_600.39, 40, 41, 42, 43.frame.y.duration	Additional fields to support new features on the SoundPoint IP 600 platform.
ipmid	added	ind.class.2.state.30, 31, 32, 33.index	Additional fields to support new features.
ipmid	added	ind.class.8.state.3.index	Additional field to support new features.
ipmid	added	ind.gi.IP_300.x.index, ind.gi.IP_300.x.class, ind.gi.IP_300.x.physX, ind.gi.IP_300.x.physY, ind.gi.IP_300.x.physW, ind.gi.IP_300.x.physH	Additional fields to support the SoundPoint IP 300 platform.
ipmid	added	log.level.change.mb log.level.change.ib	Additional log level control parameters for new modules.



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.cfg File	Action	Parameter	Description
ipmid	added	feature.6.name="calllist-received" feature.6.enabled="1" feature.7.name="calllist-placed" feature.7.enabled="1" feature.8.name="calllist-missed" feature.8.enabled="1" feature.9.name="url-dialing" feature.9.enabled="1" feature.10.name="cpt-settings" feature.10.enabled="0" feature.11.name="call-park" feature.11.enabled="0" feature.12.name="group-call-pickup" feature.12.enabled="0" feature.13.name="directed-call-pickup" feature.13.enabled="0" feature.14.name="last-call-return" feature.14.enabled="0" feature.15.name="acd-login-logout" feature.15.enabled="0" feature.16.name="acd-agent-availability" feature.16.enabled="0"	Feature flags for new features.
ipmid	added	mb.proxy mb.main.home mb.limits.nodes mb.limits.cache	Parameters to control microbrowser on IP 600. mb.proxy determines proxy to use, can be Null or <address>:<port>. mb.main.home specifies fully formed URL for microbrowser feature. mb.limits.nodes limits the number of tags the xml parser will handle, default=256. mb.limits.cache limits total size of objects downloaded for each page in bytes, default=200k.
ipmid	changed	lcl.datetime.date.xxx	Changed default values.
ipmid	changed	se.rt.8/9/10/11.ringer, se.rt.8/9/10/11.callWait	Changed default values.
ipmid	changed	attributes under the "bitmaps" tag	Various fields have been changed. Update this whole section.
ipmid	changed	attributes under the "indicators" tag	Various fields have been changed. Update this whole section.
sip	added	voIpProt.SIP.sendCompactHdrs	If set to 1, SIP headers generated by the phone use the short form.
sip	added	voIpProt.SIP.conference.address	If Null, conferences are set up on the phone locally. If set to some value, conferences are set up by the server using the conferencing agent specified by this address. The acceptable values depend on the conferencing server implementation policy.



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.cfg File	Action	Parameter	Description
sip	changed	voIpProt.SIP.useRFC2543hold changed from "0" to "1"	
phone1	added	reg.x.thirdPartyName	This field must match reg.x.address of the user you wish to have a Bridged Line with, reg.x.type is ignored if reg.x.thirdPartyName is not empty.
phone1	added	call.serverMissedCall.x.enabled	If set to 0, all missed-call events will increment the counter If set to 1, only missed-call events sent by the server will increment the counter.
phone1	removed	up.headsetMode, up.useDirectoryNames, up.oneTouchVoiceMail	Duplicated in ipmid.cfg

Known issues

The following problems are known to exist and will be addressed in a future release:

ID	Issue	Workaround
4310	No QoS support for signaling protocol (TCP)	The default QOS parameters will still be used for TCP signaling packets, and these may be specified in the ipmid.cfg configuration file.
5009	Only one leg of conference has audio if two other calls on Hold	Release calls on Hold before initiating a conference.
5085	Cannot answer an incoming call while directory is being saved	None
5723	Rapidly pressing termination button confuses call appearance	None
7521	Transfer from a shared line can be interrupted (other end of shared line can pick up call before Transfer completes)	None
9187	GMT Offset in flash is ignored if parameter exists in configuration files	Delete the tcpIpApp.snntp.gmtOffset parameter in ipmid.cfg to make the phone use the "GMT Offset" value set in flash
9292	SoundStation IP 4000 reboots upon downloading a wave file with a path containing '\' instead of '/'	Wave file paths must be specified using '/' e.g. "wavs/ring1.wav"



Release Notes: SoundPoint/SoundStation IP - SIP Distribution

The following files constitute the 1.4.1 distribution of the SoundPoint IP SIP application. For centrally provisioned systems, copy these files to the boot server, maintaining the folder hierarchy present in the zip file. Some of the configuration files must be modified. Refer to the *SoundPoint IP SIP Administrator Guide* for details. This document can be downloaded from the Polycom Resource Network (<http://extranet.polycom.com/>) by authorized resellers.

Files	Description
sip.ld	SIP application executable, revision 1.4.1.0040
ipmid.cfg	Core configuration file, revision 1.318
sip.cfg	Main SIP configuration file, revision 1.63
phone1.cfg	Example per-phone SIP configuration, revision 1.59
000000000000.cfg	Example master configuration file, revision 1.12
000000000000-directory~.xml	Example per-phone local contact directory XML file (edit and then remove '~' from name to seed phones which have no directory)
SoundPointIP-dictionary.xml	Dictionary files for multilingual support included (no multilingual support is available on the SoundPoint IP 300): Chinese, China (for SoundPoint IP 600 and SoundStation IP 4000 only) Danish, Denmark Dutch, Netherlands English, Canada English, United Kingdom English, United States French, France German, Germany Italian, Italy Norwegian, Norway Japanese, Japan (for SoundPoint IP 600 and SoundStation IP 4000 only) Korean, Korea (for SoundPoint IP 600 and SoundStation IP 4000 only) Portuguese, Portugal Russian, Russia Spanish, Spain Swedish, Sweden
SoundPointIPWelcome.wav	Start up welcome sound effect