



## Avaya One-X® Deskphone SIP Release 6.0 Service Pack 4 Readme

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Avaya one-X® Deskphone SIP release 6.0 Service Pack 4 (a.k.a. SP4) is software for the Avaya 9608, 9611G, 9621G and 9641G IP Deskphones and supports the SIP protocol.

This release can be used with

- Avaya Aura® Session Manager 6.0 and later.
- Avaya Aura® Communication Manager 6.0 and later
- Communication Manager 4.x or 5.x.

SP4 contains user selectable handset audio equalization and some bug fixes to Deskphone SIP 6.0.3. We strongly encourage all customers who are currently running Deskphone SIP 6.0, 6.0.1, 6.0.2, 6.0.3 releases to upgrade as soon as possible to this Service Pack.

User Selectable handset audio equalization Notes

### 9600 Series SIP Customizable System Parameters

This table lists the parameters that you can customize in the 46xxsettings file, their default values, parameter descriptions, and valid values.

Parameter Name	Default Value	Description and Value Range
ADMIN_HSEQUAL	1	Handset Equalization alternative permission flag. Valid values are: 1 = Use handset equalization that is optimized for acoustic TIA 810/920 performance. 2 = Use handset equalization that is optimized for electrical FCC Part 68 HAC telecoil performance.

### About administering audio equalization

The Federal Communication Commission (a branch of the US Government) in its Part 68 standard, requires support for Hearing Aid Compatibility (HAC). This is an alternative way to provide audio equalization on a handset, from the acoustic standards specified in TIA-810/920

and S004, and may be of benefit to some users of t-coil capable hearing aids.

As of Release 6.0.4, the Avaya one-X® Deskphone support the ability to choose either of these standards. Because individual organizations and users differ in how they might want to implement this choice, the telephone provides 3 ways to specify the desired audio equalization:

- **Settings File**— The administrator can set ADMIN\_HSEQUAL. The default value, 1, specifies Handset equalization that is optimized for acoustic TIA 810/920 performance unless otherwise superseded by Local Procedure or User Option. The alternate value, 2, specifies HAC.
- **Local Procedure**— When users are denied access to Options for administrative reasons, but individual users need an equalization value other than the one in the settings file, the HSEQUAL Local Procedure (as documented in the Avaya one-X® Deskphone H.323 Installation and Maintenance Guide for 9608, 9611G, 9621G, and 9641G Deskphones) provides a “backdoor” to allow the telephone to be administered with the desired audio equalization value. “Default” uses the settings file value unless superseded by User Option. “Audio Opt.” is optimized for TIA-810/920 acoustic performance, and “HAC Opt.” is optimized for HAC telecoil performance.
- **User Option**— The user can select “Default” (which uses the settings file value unless superseded by Local Procedure), “Audio Opt.” which uses Handset equalization that is optimized for acoustic TIA 810/920 .performance, or “HAC Opt.” which uses Handset equalization that is optimized for electrical FCC Part 68 HAC telecoil performance.
- Handset equalization options are effected in the following order:
  - a. The telephone will use the User Option value if one was selected and saved.
  - About administering audio equalization
  - b. Otherwise, if a Local Procedure value was selected and saved, the telephone will use the local Procedure value.
  - c. Otherwise, if a Settings file value is specified and saved the telephone will use that value.
  - d. If none of the above options have been set, the telephone will use Handset equalization that is optimized for TIA-810/920 acoustic performance.

**Note:** The options **Default**, **Audio Opt** and **HAC Opt** that are available for Handset equalization are mutually exclusive, meaning only one can be activated at a time.

The following features are not supported in this release:

- Exchange Contact Integration
- Presence feature on Presence Server 6.0/6.1 for Aura environment
- WML Push
- Large Text Font
- MX Conferencing
- IM-Instant Messaging

## Avaya Aura® Communication Manager (CM) Compatibility

### Best practices

- SIP Transport Protocols

SIP Proxy / Phone Connection Type	UDP	TCP	TLS
Avaya Aura™ Session Manager (as primary controller)	Not recommended	Recommended	Recommended
B5800 Branch Gateway	Supported	Recommended	Not supported
AudioCodes (as secondary controller )	Not recommended	Recommended	Supported
Avaya Aura™ Survivable Remote. (as Primary controller )	Not recommended	Recommended	Recommended
Cisco ISR (as secondary controller)	Not recommended	Recommended	Not supported

**Table of Phone Connection Types for Survivability Configurations**

*'Recommended' means minimal latency in the detection of a Failover condition*

- The AudioCodes SIP gateways tested for interoperability are the MP114 and MP118; the recommended firmware revision, 5.60A.010.005, is available at the Avaya Support Site.
- The Cisco gateways tested for interoperability are the Cisco [ISR] ; the minimum firmware revision is c2800nm-ipbasek9-mz.124-20.YA2.bin
- When the phone is failed over to a non-Avaya secondary controller (AudioCodes/Cisco): It is best that all the phones in the environment are operating in same transport protocol. There may be a few call-based issues if the phones are using different transport protocols.

### Feature Compatibility Matrix for Communication Manager (CM)

Release 6.0.4 Feature Compatibility Matrix	Minimum SM version Required	Minimum CM Version Required

SBM-24/BM12 button module – Feature button assignments and operation	ASM 6.1 SP1, SP2, SP3, SP4 and SP5	6.0.1 SP6, patch 19350.
SBM-24/BM12 button module – Autodial assignments and operation	ASM 6.1 SP1, SP2, SP3, SP4 and SP5	6.0.1 SP6, patch 19350.
SBM-24 button module – Bridged Call Appearance (BCA) and Call Appearance (CA) operation	ASM 6.1 SP1, SP2, SP3, SP4 and SP5	6.0.1 SP6, patch 19350.
Auto Answer	ASM 6.1 SP1, SP2, SP3, SP4 and SP5	6.0.1 SP6, patch 19350.
Deactivation of Call Forward On Busy Do Not Answer	ASM 6.1 SP1, SP2, SP3, SP4 and SP5	6.0.1 SP6, patch 19350.

Features from prior SIP phone releases that have dependencies on CM versions are shown in the table below:

Prior SIP Release Feature	Minimum CM Version Required
Visiting User (Applicable for SES environment only)	5.0 or later
Extend Call	6.0 and later
All features other than those noted in this table	4.0 and later

### Software compatibility matrix

Avaya Aura® Communication Manager	6.0.1 SP5 SP6, patch 19350 (including SP2, SP3, SP4 and

	SP5)
Avaya Aura Session Manager 6.x	6.0 SP2 6.1 SP4 and SP5

### Basic steps for setting up 9608, 9611, 9621 and 9641 SIP telephones

The basic steps for setting up new 9600 SIP telephones:

- Define an HTTP Server to host the telephone firmware downloads and settings files
- Define a list of SIP Proxies
- Define SIPDOMAIN
- Define a Time Server (SNTP protocol) and parameters
- Provision CM/SES/SM for new 9600 telephones (For CM 5.2 and later provision the 9608, 9611G, 9621G and 9641G as 9640SIP set type and for CM 5.1 and prior releases provision them as 9600SIP set types )
- Optionally, if DHCP is used in the network, appropriate DHCP scope needs to be provisioned on the phone.

### Setting up Primary and Secondary Controllers

The minimal settings required for provisioning SIP Proxies are:

- **SIPDOMAIN:** The domain name that the phones operate in. All proxies are assumed to support the same domain.
- **SIP\_CONTROLLER\_LIST:** This parameter consolidates SIP controller parameters for IP address, port, and transport protocol into a single configuration parameter. The parameter setting should be a list of controller information where the format for each controller entry is "host:port;transport=xxx"
- **SIMULTANEOUS\_REGISTRATIONS :** This parameter should be set to the number of Session Managers that the phone will register with in the configuration.

**Example:** SET SIP\_CONTROLLER\_LIST  
proxy1:5060;transport=tcp,proxy2:5060;transport=tcp

#### SIP\_CONTROLLER\_LIST (setting through Windows DHCP server):

In DHCP scope option set as

- **SIP\_CONTROLLER\_LIST="Proxy1:<port>;transport=xxx,Proxy2:<port>;transport=yyy"**  
Where: Proxy1 is the primary SES server address and Proxy2 is the secondary SIP server address. And xxx and yyy are the transport protocols of respective server.

OR:

**SIP\_CONTROLLER\_LIST="Proxy1,Proxy2:<port>;transport=xxx"**

In the later case, the first controller will take default port (5061) and transport type (TLS) and second controller will take assigned values in the SIP\_CONTROLLER\_LIST.

### **SIP\_CONTROLLER\_LIST (setting through Linux DHCP server (httpd.conf))**

In the below examples, Proxy1 is the primary SES server address and Proxy2 is the secondary SIP server address. And xxx and yyy are the transport protocols of respective server.

For Linux, we would have to use '\' as an escape character for quoting the value inside the already quoted **name = value** pair.

E.g. When using single SIP CONTROLLER

```
"HTTPSRVR=aaa.aaa.aaa.aaa,SIP_CONTROLLER_LIST=\"xxx.xxx.xxx.xxx: 5060; transport=tcp\"";
```

When using Multiple SIP CONTROLLERS, please follow the below examples

```
"HTTPSRVR=aaa.aaa.aaa.aaa,SIP_CONTROLLER_LIST=\"xxx.xxx.xxx.xxx: 5060; transport=tcp,yyy.yyy.yyy.yyy: 5060; transport=tcp\"";
```

- **Note:** When viewing the SIP proxy list from the Craft menu, it may contain additional proxies obtained from other data sources which cannot be deleted through the Craft menu. Only proxies entered through the Craft menu can be deleted. Further settings are optional:
- **CONFIG\_SERVER\_SECURE\_MODE** When the phone is using HTTPS to communicate with PPM, it reuses the connection per HTTP 1.1.Specifies the communication mode used to access the configuration server. This parameter applies only to new 9600 phones models.
  - 0 for use HTTP (default) SIP 6.0
  - 1 for use HTTPS
  - 2 for use HTTPS if SIP transport mode is TLS; otherwise, use HTTP

Note: Default value is 0 in SIP 6.0 on the new 9600 phones. Default value is 1 in SIP 2.6 and 0 in SIP 2.5 release.
- **FAILBACK\_POLICY:** This is a string 'admin' or 'auto'. When set to 'auto' (the default), if the phones detect that a disabled primary server has recovered, they will attempt to register to the highest priority available controller in the SIP proxy server list, and will stop using the Secondary. If set to 'admin', the phones will never autonomously attempt to leave a working server. Admin failback needs to be invoked from the system manager for that particular user. Please leave this parameter to its default value i.e 'Auto'

- **RDS\_INITIAL\_RETRY\_TIME:** Parameter that indicates the initial delay for a retry for connecting to the PPM server. The default value is 2 seconds and provisioning is through the settings file and can be set in the range of 2 to 60 seconds.
- **RDS\_MAX\_RETRY\_TIME:** Parameter that indicates the maximum delay interval before giving up on connecting to the PPM server. The default value is 600 seconds and provisioning is through the settings file and can be set in the range of 2 to 3600 seconds.
- **RDS\_INITIAL\_RETRY\_ATTEMPTS:** Parameter that indicates how many times PPM adaptor should try to download from PPM before giving up on connecting to the PPM server. The default value is 15 attempts and provisioning is through the settings file and can be set in the range of 1 to 30 attempts.
- **SIPREGPROXYPOLICY:** This is a string, 'alternate' or 'simultaneous'. If set to 'alternate' (the default), the phones will only register to one server at a time. If set to 'simultaneous', the phones will maintain an active registration on all provisioned servers. Simultaneous is only supported in a Session Manger (SM) environment.
  - Recommendation is alternate for SES environment or SM-nonAST. For SM environment the recommendation is simultaneous.
- Note: **CONTROLLER\_SEARCH\_INTERVAL:** This is the time that the phone waits to complete the maintenance check for monitored controllers. This value is the wait period in seconds. Range is 16 secs to 3600secs.
- .For SIP 6.0.1, recommended option for this setting is 16 seconds, so  
SET CONTROLLER\_SEARCH\_INTERVAL 16

### Invalid Proxy Settings

If an invalid proxy server address is programmed on the phone (via the administration screen, accessed through Craft procedures, or via the settings file) and a login is attempted and cancelled, rebooting the phone is not sufficient to recover as the phone will continue to attempt to contact the invalid proxy.

**Procedure for erasing an invalid proxy server address:** During the re-boot sequence, press the "Program" soft key to present the CRAFT menu, select the CLEAR option to clear the phone values and reboot the phone. The valid proxy values can be re-programmed by adding them to the settings file before the reboot, or through phone programming from the CRAFT menu during the boot.

For more details refer to the SIP Administration Guide which can be downloaded from <http://support.avaya.com>.

## SIP 6.0 SP4 Package Content

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The package contains the readme file and all the files necessary to upgrade Avaya's new 9600 IP telephones to SIP Release 6.0.4 The following files are included in each package

- S96x1\_SALBR6\_0\_4r4\_V470.tar – The 9600 SIP phone application tar file for the 9608,9611G,9621G and 9641G deskphones
- S96x1\_UKR\_V8r1901\_V8r1901.tar– The 9600 SP1 SIP Kernel and root file system tar file 9608,9611G,9621G and 9641G phones
- 96x1Supgrade.txt – This file is downloaded by the Avaya IP telephones and instructs the telephones on how to upgrade. DO NOT EDIT this file. You MUST USE the 96x1Supgrade.txt file included in this package to upgrade to SP4 SIP for 9608,9611G,9621G and 9641G phones
  - Note that this file is designed for environments in which all 9608, 9611G, 9621G and 9641G endpoints will be upgraded to SP4 SIP phone application and kernel / root file system files.  
This file can not be used to upgrade existing 9600 phones.
- release.xml – An XML file that is designed to be used with Avaya Integrated Management (AIM) through the Software Update Manager (SUM).
- Fifteen predefined language files:
  - Mlf\_Arabic.xml
  - Mlf\_BrazilianPortuguese.xml
  - Mlf\_CanadianFrench.xml
  - Mlf\_CastilianSpanish.xml
  - Mlf\_Chinese.xml
  - Mlf\_Dutch.xml
  - Mlf\_English.xml
  - Mlf\_German.xml
  - Mlf\_Hebrew.xml
  - Mlf\_Italian.xml
  - Mlf\_Japanese.xml
  - Mlf\_Korean.xml
  - Mlf\_LatinAmericanSpanish.xml
  - Mlf\_ParisianFrench.xml
  - Mlf\_Russian.xml
- Eight extended Korean ring tone files:
  - KoreanRT1.xml
  - KoreanRT2.xml
  - KoreanRT3.xml
  - KoreanRT4.xml
  - KoreanRT5.xml
  - KoreanRT6.xml
  - KoreanRT7.xml

- KoreanRT8.xml
- Four certificate files:
  - av\_csca\_pem\_2032.txt      Avaya Call Server CA certificate with an expiration date of 2032
  - av\_prca\_pem\_2033.txt      Avaya Product Root CA certificate with an expiration date of 2033
  - av\_sipca\_pem\_2011.txt      Avaya SIP Root CA certificate with an expiration date of 2011
  - av\_sipca\_pem\_2027.txt      Avaya SIP Root CA certificate with an expiration date of 2027
- To upgrade your Avaya 9608, 9611G, 9621G and 9641G IP Telephones to SIP Release SP4:
  - Unzip the zip file in the root directory of the outbound file directory of your HTTP server.
  - Make any adjustments required by your environment to your 46xxsettings.txt file.

#### Other configurations files

- 46xxsettings.txt    System specific parameters should be entered into this file. This file is not included in the package and available on the Avaya support site. This file is updated and improved frequently. Please check the site for newest version.

One provisioning example may be helpful. Assumptions:

- ❖ 96xx SIP telephone IP address: 10.10.10.20
- ❖ SIP telephone network mask: 255.255.255.0
- ❖ SIP telephone gateway: 10.10.10.1
- ❖ HTTP file server: 10.10.20.200
- ❖ SES IP address (primary controller): 10.10.20.192
  - TLS transport protocol, default so not explicitly specified in setting
- ❖ AudioCodes/Cisco IP address(secondary controller ): 10.10.20.193
  - TCP transport protocol, explicitly set in setting file
- ❖ SNTP Server IP address: 10.10.30.147
- ❖ The SIP domain: mynetwork.com
- ❖ Time zone where IP telephone is provisioned: Eastern Daylight Savings Time (following the current rules where Daylight Savings Time begins on the first Sunday of April and ends on the last Sunday of October – for more information on provisioning DST see the 4600 Series IP Telephone LAN Administration Guide)

The following are a minimum group of settings for the 46xxsettings.txt file to make the 96xx telephone operational:

```

SET SNTPSRVR      10.10.30.147
SET GMTOFFST      -5:00
SET DSTOFFSET      1
SET DSTSTART       1SunApr2L
SET DSTSTOP        LSunOct2L
SET SIP_CONTROLLER_LIST
                  10.10.20.192:5061;transport=tls,10.10.20.193:5060;transport=tcp
SET SIP_MODE       0
SET SIPDOMAIN      mynetwork.com
    
```

SET SIMULTANEOUS REGISTRATIONS 2 The number of Session Managers

If the 96x1 SIP telephone is not acquiring its address courtesy of a DHCP server, it must be provisioned on the phone, itself, through the use of the phone administration menu. Once in the "Admin Procedures" menu, the "ADDR" submenu will allow the administrator to provision the following fields:

Phone: 10.10.10.20

## Issues resolved with SIP 6.0 SP4

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SIP 6.0 SP4 SIP R6.0 SP3 and includes all improvements from post SP3

Issues resolved in this release include:

Defect ID	Defect Name
SIP96x1-5930	MWI light is not turned on even phone received "Messages-Waiting: yes" notification (SR: 1-2323420334)
SIP96x1-5932	HTTP/HTTPS GET AMADMIN issue with port 81/411 respectively (SR 1-1422491343)
SIP96x1-5931	Phone does not send DTMF, have to reboot the phone to fix the issue. (SR: 1-2342387291)
SIP96X1-6214	Apply correct gain values for sidetone and volumedB
SIP96X1-6088	EEPROM values incorrect leading to incorrect handset and headset audio levels
SIP96X1-6279	AGC performance issues
PHONEX6-379	Audio issues
PHONEX6-171	Intermittent kernel panic during bootup dhcp
SIP96X1-6401	Phone stuck and then restarted during WML click to dial.

## Unresolved issues in SIP 6.0 SP4

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Defect ID	Defect Name
SIP96x1-5854	Speaker shuts down when handset is placed on hook, but the next call when answered comes thru the speaker again. One can hit the speaker button till blue in the face, only clears after power cycled. (SR SR1-3442250372)
SIP96x1-6320	TRANSER and CONFERENCE no speech path
SIP96x1-6103	96x1 phones display incorrect number while making a outgoing call SR-1-3392249291 (US Cellular Test Lab)
SIP96x1-4683	On mixed-user take over user remains logged in on two phones. (SR: 1-3388664343)
SIP96x1-6258	Button on phone display does not update after ACB activation (1-1MBZKUI)
SIP96x1-6036	SIP hard phone issue with EC500 (SR 1-3469178052)
SIP96x1-6319	Fails to login during repeated login/logout
SIP96x1-6126	Packetization delay is not properly Packet size as set with CM
SIP96x1-6227	Emergency calling pop up does not appear on the screen when phone goes off hook in active state
SIP96x1-6426	BCA Phone is ringing forever for the below scenario.

## License Agreements

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It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software.

(Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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This library's function is primarily to read and display MNG animations. It is not meant as a full-featured image-editing component! It does however offer creation and editing functionality at the chunk level. (future modifications may include some more support for creation and or editing)

Harfbuzz (delivered with Qt 4.5)

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pam 1.0.1-2

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libcap 2.06

Upstream Author: Andrew G. Morgan <morgan@linux.kernel.org>

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zlib 1\_2\_3

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#### THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel Email local part: ph10 Email domain: cam.ac.uk University of Cambridge Computing Service, Cambridge, England.

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libstdc++ 4.3\_2

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bind 9.5.0-29.b2

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Http Curl 7.15.1

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racoon2

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Xinetd 2.3.14-3.1

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db4 4.6.21-1

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