Avaya J100 Series SIP Release 4.1.6.0 Readme

This file is the Readme for the Avaya J100 Series SIP Release 4.1.6.0 Feature Pack software (J100 SIP 4.1.6.0). This file describes the contents of the Oct 2024 (**4.1.6.0.6**) release software distribution package.

J100 SIP 4.1.6.0 software is supported on the Avaya J129, J139, J159, J169, J179 and J189 IP Phones used with Avaya Aura®, Avaya IP Office™, and select OpenSIP platforms. J100 SIP 4.1.6.0 software will not load or operate on any other models.

This release supersedes all previous Avaya J100 Series SIP software releases. Avaya recommends that all customers using Avaya J100 Series SIP software upgrade to this version at their earliest convenience.

The information in this document is accurate as of the issue date and subject to change.

Please refer to the Advisements in this file for important information prior to deploying this software.

Compatibility

The Avaya J129, J139, J159, J169, J179 and J189 IP Phones using J100 SIP 4.1.6.0 software are supported with:

- Avaya Aura® Platform 8.1.3.0 (Avaya Aura® Communication Manager 8.1.3.0, Avaya Aura® Session Manager 8.1.3.0, Avaya Aura® System Manager 8.1.3.0, Avaya Aura® Presence Services 8.1.3.0) and associated feature/service packs
- Avaya Aura® Platform 10.1.0.0 (Avaya Aura® Communication Manager 10.1.0.0, Avaya Aura® Session Manager 10.1.0.0, Avaya Aura® System Manager 10.1.0.0, Avaya Aura® Presence Services 10.1.0.0) and associated feature/service packs
- Avaya Aura® Platform 10.2.0.0 (Avaya Aura® Communication Manager 10.2.0.0, Avaya Aura® Session Manager 10.2.0.0, Avaya Aura® System Manager 10.2.0.0, Avaya Aura® Presence Services 10.2.0.0) and associated feature/service packs
- Avaya Aura® Call Center Elite 8.1.3.x,10.1.0.0, 10.2.0.0
- IP Office™ 10.0 SP7 / 10.1 SP3 (J129 only)
  - ***Refer to IP Office documentation for specific compatibility.***
- IP Office™ 11.0 or later for J129/J169/J179
  - ***Refer to IP Office documentation for specific compatibility.***
- IP Office™ 11.0 SP1 or later for J129/J139/J169/J179
  - IP Office™ 11.0 FP4 or later for support of Bluetooth on J179
  - ***Refer to IP Office documentation for specific compatibility.***
- IP Office™ 11.0 FP4 SP2 or later for J159
  - ***Refer to IP Office documentation for specific compatibility.***
- IP Office™ 11.1 FP1 or later for J189
  - ***Refer to IP Office documentation for specific compatibility.***
- IP Office™ 12.1 or later for IPv6
- Open SIP Platforms
  - Broadsoft Broadworks R22.0
  - Asterisk R16
  - FreeSWITCH 1.8.5
  - Netsapiens v41.2.2
  - Metaswitch CFS V9.5

- Avaya Cloud Office by Ring Central™

Refer to https://secureservices.avaya.com/compatibility-matrix/menus/product.xhtml?name=J100+-+SIP&solution=false&version=4.1 for an up-to-date listing of compatible products.

New Support in J100 SIP 4.1.6.0

The following new features are included in 4.1.6.0 Feature Pack:

Theme of this Service Pack	Description
J100 CCMS over IPv6 support	• IPv6 is supported on J100 SIP 4.0.0.0 and later for Aura environments. At that time IPO did not support IPv6 so interop could not be tested. • IPO 12.1.x supports IPv6 and this J100 SIP Feature Pack provides fixes for issues found now that IPO IPv6 CCMS is available. • Limitation: IPO 12.1 does not support IPv6 for J129
AXP Private Extended Scale delayed ringing per call	• For a group call, designated help desk members are always available to receive calls. These extensions will always immediately ring. • Other group members extensions ring can be delayed for a specified time, the intent is to only ring if the reception fails to pick-up the call. • J100 SIP sets receive a Alert-info header in the SIP INVITE to indicate when delayed ringing should occur and for how long: • Example: Alert-Info: cid:internal@avaya.com;avaya-cm-alert-type=internal;avaya-cm-alert-delay=5
USB headset support for IP Office	• In this release support for USB headsets in IP Office is supported. • J159 (type A) and J189 (type A and C) are the only J100 phones that have USB ports. • Headset functionality includes Answer, Drop, Hold/Unhold, Mute/Unmute.
J139 WML support	• This is a J139 feature parity with J159 feature. (These phones have the same size display) • J159 supported the WML browser as of 4.0.11.0 and greater. • WML Exclusions: Display Push is not supported on J159 or J139

Theme of this Service Pack	Description
Improve Web UI Export	• The WebUI provides an export and import settings feature • The export functionality previously exported all settings including internal and many non settable settings, sometimes giving the impression that these can also be imported. • The export feature has been improved to only show non default settings and provides clear headers to show settings source. • This is useful in troubleshooting different phone behavior since the list of non default settings can be compared with another phone to quickly identify the differences. • There are 2 ways to get an exported settings file, one is from the WebUI and the second is from a phone report.
J100 Series to include user=phone tag	• For Broadsoft environment, callback functionality from the call logs requires J100 SIP sets to use the user=phone tag (if present) in a SIP INVITE to create the call log. • When the "user-phone" tag is received in an incoming Invite, the domain part of the URI is disregarded, and the local domain is used instead for the callback.
Default Logs should describe why the phone is deciding to reboot	• This is a Serviceability feature that captures the reason for the phone application rebooting. • There are many reasons why a phone reboots and logging has been enhanced to capture the reason. • The Bootlog has been enhanced to include the reboot reason as well.
Missed calls shown as Forward calls when LNCC is used (Workplace parity feature)	• Some customers do not agree with current undelivered call reason string and forwarding icon for LNCC calls. Since they do not have a coverage path configured, their intention when activating LNCC is to avoid disturbing the user with a second call. Instead of showing the forwarding icon, they would prefer it to be displayed as a regular missed call icon with the reason indicated as 'Second call off.' • This feature provides the ability to change the LNCC call log display by making it configurable, and to have a consistent representation across different products with similar functionality, i.e. Workplace

Documentation for J100 SIP 4.1.6.0

The following documentation has been updated for this release:

- Quick Reference for Avaya J129 SIP IP Phones in Avaya Aura®
- Quick Reference for Avaya J139 SIP IP Phones in Avaya Aura®
- Quick Reference for Avaya J159 SIP IP Phones in Avaya Aura®
- Quick Reference for Avaya J169 and J179 SIP IP Phones in Avaya Aura®
- Quick Reference for Avaya J189 SIP IP Phones in Avaya Aura®
- Using Avaya J129 SIP IP Phones in Avaya Aura®
- Using Avaya J139 SIP IP Phones in Avaya Aura®
- Using Avaya J159 SIP IP Phones in Avaya Aura®
- Using Avaya J169 and J179 SIP IP Phones in Avaya Aura®
- Using Avaya J189 SIP IP Phones in Avaya Aura®
- Using Avaya J100 Series IP Phones for Call Center Agents
- Using Avaya J100 Expansion Module for SIP
- Avaya J100 Series IP Phone Overview and Specifications
- Installing and Administering Avaya J100 Series SIP IP Phones in Avaya Aura®

The following documentation has not been updated for this release:

- Using Avaya J129 SIP IP Phone in Open SIP
- Using Avaya J139 SIP IP Phone in Open SIP
- Using Avaya J159 SIP IP Phone in Open SIP
- Using Avaya J169 and J179 SIP IP Phones in Open SIP
- Using Avaya J189 SIP IP Phone in Open SIP
- Installing and Administering Avaya J100 Series SIP IP Phones in Open SIP
- Quick Reference for Avaya J129 SIP IP Phone in Open SIP
- Quick Reference for Avaya J139 SIP IP Phone in Open SIP
- Quick Reference for Avaya J159 SIP IP Phone in Open SIP
- Quick Reference for Avaya J169 and J179 SIP IP Phones in Open SIP
- Quick Reference for Avaya J189 SIP IP Phone in Open SIP

The following Partner Configuration guides are included below for reference:

- Broadsoft Partner Configuration Guide – J100 Series
- Asterisk Partner Configuration Guide – J100 Series
- FreeSWITCH Partner Configuration Guide – J100 Series

These documents are available on http://support.avaya.com under "J100 Series IP Phones " -> "SIP 4.1.x" -> Documents. They are also available on https://documentation.avaya.com under "J100 Series Phones".

J100 SIP 4.1.6.0 (4.1.6.0.6) Package Content

The J100 SIP 4.1.6.0 package (J100-IPT-SIP-R4_1_6_0-092424.zip) contains all the files necessary to upgrade Avaya new or previously installed Avaya J129/J139/J159/J169/J179/J189 IP Phones to the J100 SIP 4.1.6.0 software.
Note: There is a second J189 Hardware version that requires a seperate FW image. For more information please see Appendix 1.

- FW_S_J129_R4_1_6_0_6.bin – application binary file for J129
- FW_S_J139_R4_1_6_0_6.bin – application binary file for J139
- FW_S_J159_R4_1_6_0_6.bin – application binary file for J159
- FW_S_J169_R4_1_6_0_6.bin – application binary file for J169
- FW_S_J179_R4_1_6_0_6.bin – application binary file for J179
- FW_S_J189_R4_1_6_0_6.bin – application binary file for J189
- FW_S_J189A_R4_1_6_0_6.bin – application binary file for J189
- FW_JEM24_R1_0_1_0_26.bin – application binary file for the JEM24
- J100Supgrade.txt – This file is downloaded by the IP Phones and instructs the phone on how to upgrade to this version of software.
- Predefined language files for phone display:
    - Mlf_J129_BrazilianPortuguese.xml
    - Mlf_J129_CanadianFrench.xml
    - Mlf_J129_CastilianSpanish.xml
    - Mlf_J129_Chinese.xml
    - Mlf_J129_Dutch.xml
    - Mlf_J129_English.xml
    - Mlf_J129_German.xml
    - Mlf_J129_Hebrew.xml
    - Mlf_J129_Italian.xml
    - Mlf_J129_Japanese.xml
    - Mlf_J129_Korean.xml
    - Mlf_J129_LatinAmericanSpanish.xml
    - Mlf_J129_ParisianFrench.xml
    - Mlf_J129_Polish.xml
    - Mlf_J129_Russian.xml
    - Mlf_J129_Turkish.xml
    - Mlf_J139_Arabic.xml
    - Mlf_J139_BrazilianPortuguese.xml
    - Mlf_J139_CanadianFrench.xml
    - Mlf_J139_CastilianSpanish.xml
    - Mlf_J139_Chinese.xml
    - Mlf_J139_Dutch.xml
    - Mlf_J139_English.xml
    - Mlf_J139_German.xml
    - Mlf_J139_Hebrew.xml
    - Mlf_J139_Italian.xml
    - Mlf_J139_Japanese.xml
    - Mlf_J139_Korean.xml
    - Mlf_J139_LatinAmericanSpanish.xml
    - Mlf_J139_ParisianFrench.xml
    - Mlf_J139_Polish.xml
    - Mlf_J139_Russian.xml
    - Mlf_J139_Thai.xml

- Mlf_J139_Traditional_Chinese.xml
- Mlf_J139_Turkish.xml
- Mlf_J159_Arabic.xml
- Mlf_J159_BrazilianPortuguese.xml
- Mlf_J159_CanadianFrench.xml
- Mlf_J159_CastilianSpanish.xml
- Mlf_J159_Chinese.xml
- Mlf_J159_Dutch.xml
- Mlf_J159_English.xml
- Mlf_J159_German.xml
- Mlf_J159_Hebrew.xml
- Mlf_J159_Italian.xml
- Mlf_J159_Japanese.xml
- Mlf_J159_Korean.xml
- Mlf_J159_LatinAmericanSpanish.xml
- Mlf_J159_ParisianFrench.xml
- Mlf_J159_Polish.xml
- Mlf_J159_Russian.xml
- Mlf_J159_Thai.xml
- Mlf_J159_Traditional_Chinese.xml
- Mlf_J159_Turkish.xml
- Mlf_J169_J179_Arabic.xml
- Mlf_J169_J179_BrazilianPortuguese.xml
- Mlf_J169_J179_CanadianFrench.xml
- Mlf_J169_J179_CastilianSpanish.xml
- Mlf_J169_J179_Chinese.xml
- Mlf_J169_J179_Dutch.xml
- Mlf_J169_J179_English.xml
- Mlf_J169_J179_German.xml
- Mlf_J169_J179_Hebrew.xml
- Mlf_J169_J179_Italian.xml
- Mlf_J169_J179_Japanese.xml
- Mlf_J169_J179_Korean.xml
- Mlf_J169_J179_LatinAmericanSpanish.xml
- Mlf_J169_J179_ParisianFrench.xml
- Mlf_J169_J179_Polish.xml
- Mlf_J169_J179_Russian.xml
- Mlf_J169_J179_Thai.xml
- Mlf_J169_J179_Traditional_Chinese.xml
- Mlf_J169_J179_Turkish.xml
- Mlf_J189_Arabic.xml
- Mlf_J189_BrazilianPortuguese.xml
- Mlf_J189_CanadianFrench.xml
- Mlf_J189_CastilianSpanish.xml
- Mlf_J189_Chinese.xml
- Mlf_J189_Dutch.xml
- Mlf_J189_English.xml
- Mlf_J189_German.xml
- Mlf_J189_Hebrew.xml
- Mlf_J189_Italian.xml
- Mlf_J189_Japanese.xml
- Mlf_J189_Korean.xml
- Mlf_J189_LatinAmericanSpanish.xml

    - Mlf_J189_ParisianFrench.xml
    - Mlf_J189_Polish.xml
    - Mlf_J189_Russian.xml
    - Mlf_J189_Thai.xml
    - Mlf_J189_Traditional_Chinese.xml
    - Mlf_J189_Turkish.xml
- Eight extended Korean ring tone files:
    - KoreanRT1.xml
    - KoreanRT2.xml
    - KoreanRT3.xml
    - KoreanRT4.xml
    - KoreanRT5.xml
    - KoreanRT6.xml
    - KoreanRT7.xml
    - KoreanRT8.xml
- AvayaLanguageTool_SIP.xlsm – Excel tool for creating additional language files
- One certificate file:
    - av_prca_pem_2033.txt – Avaya Product Root CA certificate with an expiration date of 2033
- Avaya-J100IpPhone-MIB.mib – mib file
- release.xml
- A "signatures" subdirectory containing signature files and a certificate file. Both SHA-1 and SHA-256 signature files are included
- Avaya Global Software License Terms 052023.pdf

System specific parameters should be entered into the 46xxsettings.txt file which is available for separate download at http://support.avaya.com. **New/changed configuration parameters with this release of software are shown in**

Advisements with J100 SIP 4.1.6 software

3PCC Hardware – cannot be used with Avaya Aura® or Avaya IP Office™

Customers can purchase "3PCC" versions of the J129/J139/J159/J169/J179/J189 hardware which are pre-configured for interworking with Open SIP platforms such as Broadsoft, Zang Office, and Asterisk. **When using J100 3.0.0.1 or later software, the "3PCC" hardware cannot be converted for use on Avaya Aura® or Avaya IP Office™.**

J179 with Expansion Modules (JEM24) – 5-volt power supply may be required

There are certain power requirements when connecting the JEM24 expansion modules to the phone. Depending upon the amount of power supplied by the power source over Ethernet, it may be necessary to power the phone by a separate 5 Volt power supply. Please see the *Power Specifications* section in the "Installing and Administering Avaya J100 IP Phones".

J189 with Expansion Modules (JEM24)

There are specific power requirements when connecting the JEM24 expansion modules to the phone. Power can be supplied by PoE or by a 5V power adapter. The J189 has a physical switch to set PoE power level. The two settings are high (H) and low (L).

When the phone is powered using a 5V power adapter you can connect up to 2 JEM24 expansion modules.

When the phone is powered using PoE then the physical PoE switch on the back of the phone must be set to "H" in order to connect 1 or 2 JEM24 expansion modules.

NOTE: The PoE power level switch should only be changed when the phone is not running.

Public Certificates

J100 SIP software includes 64 built-in public CA certificates from a wide range of vendors which can be used instead of having to explicitly add them via a TRUSTCERTS parameter. The use of these certificates is controlled by the ENABLE_PUBLIC_CA_CERTS parameter. A full list of the certificates is included in Appendix B of "Installing and Administering Avaya J100 IP Phones" and "Installing and Administering Avaya J100 Series IP Phones in an Open SIP environment".

J129/J139/J159/J169/J179/J189 IP Phones – Minimum software release

Avaya periodically releases new hardware variations of the J100-Series IP Phones typically to address a need to change hardware components. That change may require a new version of software to support the new hardware. This then forces a minimum software release supported on that hardware. ***Attempts to downgrade these models to lower versions of software will be rejected***. Refer to Appendix 1.

Adding Feature buttons on the Phone Screen in Avaya Aura™

When deploying a J100 IP Phone on Avaya Aura®, there are three ways to make feature buttons appear on the Phone Screen:

- If using Avaya Aura® 7.1.3.3 or later, tag the feature as a "Favorite" in SMGR. This will place the Feature button on the specified key on the Phone Screen
- Features not tagged as "Favorite" in SMGR can be placed on the Phone Screen using the SET PHONEKEY parameter in the 46xxsettings.txt file (this can be applied generically to all phones, on a group basis, or on a MAC-specific basis)
- Using the Phone Key Customization feature the end user can add a Feature key to the Phone Screen (Settings -> Phone -> Phone Keys Customization)

Language Localization Software Tool and Localized Language Files

Avaya includes a Language Localization Tool (AvayaLanguageTool_SIP.xlsm) as part of the software download package. This tool allows users to create custom downloadable language files for the J100-series in addition to the built-in language files.

Additional information on the tool as well as already-made localized language files can be found at https://support.avaya.com/downloads/download-details.action?contentId=C2019925105008420_7&productId=P1661

Limitations with IPv6

J100 SIP 1.5.0 and later includes support for IPv6 interworking. The following are known limitations of the J100 SIP 4.0.0 or later implementation:

- Open SIP Interoperability
- Extended rebind
- LLDP configuration of IPv6 related settings is not supported
- Microsoft Exchange integration over IPv6 must use an FQDN for EXCHANGE_SERVER_LIST. i.e. SET EXCHANGE_SERVER_LIST exch1.myco.com
- The following functionality is only supported via IPv4
    - Push
    - Avaya Diagnostic Server (ADS / SLAMon)
    - Shared Control / Deskphone Mode
    - Interworking with CC Elite.

SSH – Remote Access (EASG)

J100 SIP software contains an SSH server which is used only by Avaya Services for debugging purposes. The SSH server supports only Avaya Services Logins ("craft" and

"sroot"). By enabling Avaya Services Logins, you are granting Avaya access to your system. This is required to maximize the performance and value of your Avaya support entitlements by allowing Avaya to resolve product issues in a timely manner. By disabling Avaya Services Logins, you are preventing Avaya access to your system. This is not recommended as it can impact Avaya's ability to provide support for the product. Unless the customer is well versed in managing the product themselves, Avaya Services Logins should not be disabled. The access to the SSH server is protected by EASG (Enhanced Access Security Gateway).

Support for SHA2-signed software files

The software files are signed using SHA-256 digital signatures. J100 SIP software is only capable SHA-256 digital signature verification.

Utility Server 7.1 is the minimum software version required to install J100 4.1.6.0 zip packages

Earlier versions of the Utility Server are not able to install J100 SIP 4.1.6.0 software packages.

Support for OCSP

J100 SIP software supports OCSP (Online Certificate Status Protocol) for checking whether certificates presented to the phone by servers are good, revoked, or unknown. If a certificate is revoked, the TLS connection will not be established or will be closed (in the case of an ongoing TLS connection). OCSP is supported for 802.1x (EAP-TLS), SIP over TLS, WiFi (EAP-TLS) and HTTPS.

MLPP – Limitations during a server failure

Call override/preemption is not available during a preserved call caused by inability to access Session Manager.

Bi-Directional EHS – Compatible Headsets

Compatibility testing of the Bi-Directional EHS functionality with headsets from 3rd-party vendors is undertaken through the Avaya DevConnect program.

Microsoft Exchange Integration using EWS

If Microsoft Exchange Integration is enabled and the phone is connecting to Exchange Server 2010 or later, Exchange Web Services (EWS) is used for the connection. This connection is secured using HTTPS by default which means that the phone is required to validate the Exchange Server identity certificate. To validate the certificate, the TRUSTCERTS parameter in the settings file must include the root certificate of the Certificate Authority (CA) which issued the Exchange Server identity certificate. This configuration will work if the identity certificate was directly issued by the CA root certificate.

If a public CA such as VeriSign is used to obtain an identity certificate for the Exchange Server, the identity certificate will be issued by an intermediate CA certificate and not by the root. In this case, both the root and intermediate CA certificates must be installed on the phone using TRUSTCERTS or the HTTPS connection will fail. In general, if the Exchange Server identity certificate is issued by an intermediate CA, all certificates from the intermediate CA up to the

root must be included in TRUSTCERTS for installation on the phone so that the entire certificate chain is available for validation.

Debug mode

As a general guide, it should be noted that response times could be impacted when debug or syslog is enabled

Do not enable debug level logs unless you are debugging an issue, phone performance will be noticeably slow if too many debug categories are enabled.

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" . The host should be specified only by an IP address when interworking with Avaya Aura™. This applies to all sources of the SIP_CONTROLLER_LIST parameter which includes DHCP, LLDP, Web interface and the 46xxsettings.txt file.

Security Certificates – IP Address versus FQDN

There is an industry movement towards the use of a FQDN (Fully Qualified Domain Name) instead of an IP address for the Subject Alternate Name or Subject Common Name for security certificates. J100 software supports a FQDN_IP_MAP parameter which specifies mapping of FQDNs to IP addresses for the purpose of validating an FQDN identity found in a server certificate.

Note: Starting in 4.0.11, the phone supports use of FQDN when connecting to Aura so the use of FQDN_IP_MAP to get proper validation of server certificate identity is no longer required.

SRTP (Media Encryption)

In order to correctly use SRTP, there are various components within the network that you must correctly configure. For J100 Series IP Phones to function properly with SRTP in an Avaya Aura© environment, you must configure the equivalent parameters in Communication Manager or System Manager. Avaya strongly recommends that the following three parameters on the J100 Series IP Phones and the equivalent Communication Manager parameters must match:

SET ENFORCE_SIPS_URI 1
SET SDPCAPNEG 1
SET MEDIAENCRYPTION X or
SET MEDIAENCRYPTION X,Y or
SET MEDIAENCRYPTION X,Y,Z

J100 software supports AES-256 media encryption. Care must be taken to properly configure the encryption parameter when this is used in conjunction with other devices that do not support AES-256.

Multi Device Access

Refer to the "Avaya Aura Multi Device Access White Paper" which is available on http://support.avaya.com for known limitations.

Language support

The J129 IP Phones does not support an Arabic, Thai, or Traditional Chinese user interface.

Language localization tool and additional language packages can be found at support.avaya.com site here.

Ringtone and Ringtone Wave Files

Numeric only naming conventions should be avoided with ringtone names (E.g. 12345.wav). The maximum allowed size of an individual ringtone file is 512 KB. The maximum allowed size of all ringtone files is 5120 KB.

Headset Profiles

J100 SIP 1.5.0.0 and later software supports "Headset Profiles"[1] to provide optimum performance for different brands of headsets. An up-to-date version of the profile <-> vendor cross reference can be found at https://downloads.avaya.com/css/P8/documents/100173755.

Avaya Session Border Controller for Enterprise

For all IP Phones which are remotely connected through an SBCE, please ensure that the following is set in the 46xxsettings.txt file

```
SET WAIT_FOR_REGISTRATION_TIMER 40
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SIP Transport Protocols

TCP or TLS are the recommended transport protocols. UDP transport is not supported with J100 SIP software except in a OpenSIP environment.

Encryption – SHA2 and RSA 2048

J100 software supports RSA 2048-bit length encryption keys and supports the SHA2 (224, 256, 384, and 512) hash algorithms. This has been certified for HTTPS usage for web-based administration of these phone sets. When the TLS server-client handshake is initiated, this IP Phone (operating as the client) is able to send its Identity certificate with an enhanced digital signature (SHA2/2048 key). Additionally, this IP Phone is able to receive and validate server Identity certificates which have an enhanced digital signature (SHA2/2048 key).

Interworking – Avaya Diagnostic Server (ADS)

[1] J129 does not support a headset

Avaya J100 SIP Release 2.0.0.0 and later supports the ADS server. The SLMSRVR parameter must be set in the 46xxsettings.txt file for this version of the agent to register with ADS. In addition, a valid certificate file must be downloaded via TRUSTCERTS.

Avaya Diagnostic Server 3.0.3 is the minimum release to support the J129 IP Phone, the J169 IP Phone and the J179 IP Phone.

Avaya Diagnostic Server 3.0.4 is the minimum release to support the J139 IP Phone.

Avaya Diagnostic Server 3.1.0 is the minimum release to support the J159 IP Phone.

Avaya Diagnostic Server 3.1.1 is the minimum release to support the J189 IP Phone.

Avaya Diagnostic Server 3.2 is the minimum release to support remote worker for the J159 IP Phone and the J189 IP Phone.

"Desk Phone" Mode and Lock

Avaya one-X® Communicator, Avaya Workplace and similar UC applications from Avaya support a "Desk Phone" (Shared Control) mode in which the UC application can control an associated IP Phone. An IP Phone supports a "Lock" mode, which can be entered either manually or automatically, which prevents the dialing of any number except for an emergency number using the keypad of the IP Deskphone. If an IP Phone is in Shared Control with a UC application and is also in a "Lock" state, placing a call from the UC application will still result in the call being established from the IP Phone.

Demo Certificates – Avaya Aura® Session Manager 6.3.8 and newer

New installations of Avaya Aura® Session Manager Release 6.3.8 generate SIP and HTTPS (PPM) certificates signed by System Manager CA during installation. Previous versions used a demo Avaya certificate which is deprecated as it does not meet current NIST security standards. The generated Session Manager certificates signed by System Manager CA do not contain all the attributes (SIP domain, IP address, etc.) required by the Avaya IP Phone to correctly validate them. For that reason, it is recommended to replace them. To replace the Session Manager certificates signed by System Manager CA to comply with the IP Phone requirements, follow the "Installing Enhanced Validation Certificates for Session Manager" section of the Session Manager Administration Guide. Optionally customers could replace the Session Manager certificates for those signed by a third-party CA. For more details, follow the Session Manager Administration Guide.
Upgrading to Avaya Aura® Session Manager Release 6.3.8 or later preserves the demo Avaya certificates used on SIP and HTTPS (PPM) TLS connections. When using J100 Series IP Phones, the demo Avaya certificates MUST be replaced. Refer to the Session Manager Administrator Guide for more details.

Removal of Avaya SIP Root CA Certificate

The Avaya SIP Root CA Certificate for demo certificates (av_sipca_pem_2027.txt) is not included in the installation package. As noted above, the demo certificate has been deprecated as it does not meet current NIST security standards.

Interworking – TLS 1.3

Starting with release 4.1.1.0, J100 software supports TLS 1.3.

J100 software also includes a configuration parameter (TLS_VERSION) which can be used to configure the IP Phone to only use TLS 1.3. Care must be taken to only use this parameter when all components to which the IP Phone will communicate using TLS also support TLS 1.3.

J129 - Presence

The J129 does not display presence in an Avaya Aura® network or have the ability to manually set a presence state. The J129 publishes presence information for other clients that support viewing presence.

The J139, J159, J169, J179 and J189 display presence, publish presence, and can manually set a presence state.

VLAN separation

The J100 software supports 3 versions of VLAN separation; 1) Full VLAN separation, 2) Partial VLAN separation and 3) No VLAN separation. However, the J129 IP Phone does NOT support partial VLAN separation.

Avaya highly recommends that voice and data traffic be separated by VLANs and that voice traffic has its own VLAN.

Features not supported on the J129 Phone

The following features are not supported by the J129 IP Phone with J100 software:

- Exchange integration, WML browser, URI dialing, simultaneous display of caller name and number, redial by list, conference roster list, missed call filtering, displaying presence, downloadable ringtones, Favorites, Personalize labels
- Bridge call appearances (except MDA)
- MLPP, Call Pickup, Hunt Group Busy, Team Button, Enhanced Call Forward, Dial Intercom, Exclusion, LNCC, Priority Calls, Whisper Page, Busy Indicator
- Interworking with Contact Center Elite (CC Elite)
- Bluetooth

Features not supported on the J139 Phone

The following features are not supported by the J139 IP Phone with J100 software:

- Interworking with Contact Center Elite (CC Elite)
- Wifi and Bluetooth

Features not supported on the J159 Phone

The following features are not supported by the J159 IP Phone with J100 software:

- Interworking with most Contact Center Elite (CC Elite) (Agent login and logout is supported)

J129 with IP Office – Features supported

The following features are supported by the Avaya J129 IP Phone when deployed on Avaya IP Office™: Attended transfer, Unattended transfer, transferring a call by selecting a contact or recents, personal directory, voice mail, manual dial mode, conference.

The following features are supported by the Avaya J129 IP Phone when deployed on Avaya IP Office™ using a **short code**: Call Forward, Call Forward Busy, Call Park/Unpark, Do Not Disturb, Automatic Call Back, Private Call, Speed Dial.

J139 with IP Office – Features supported / not supported

The following features are supported by the Avaya J139 IP Phone when deployed on IP Office™:

- Basic call handling on *Call Appearances and Line Appearances only* – Making a call, Call presentation, Answer, Hold, Transfer, Conference, Drop
- IP Office Directory (Personal and System)
- IP Office Call History
- Visual Voice

Include basic operation and call handling feature controls by default via IP Office Features Menu

- DND
- Forwarding
- Mobile Phone Call Twinning (User must first be administered to permit Mobile Twinning by a system Administrator).
- Hot Desking

Allow basic call handling feature controls to be administered as button features by a system Administrator

- Call Park
- Call Pickup
- Call Page
- Call Recording
- Auto Call-back
- Account Code
- Authorization Code
- User BLF (*NOTE: Requires IP Office 11.0 FP4*)
- Group BLF (*NOTE: Requires IP Office 11.0 FP4*)

Allow basic agent controls to be administered as button features by a system Administrator

- Hunt Group Membership
- Agent Status
- After Call Work
- Coaching Request

The following features are <u>not</u> supported by the Avaya J139 IP Phone when deployed on IP Office™:

Advanced Call Presentation / Handling:

- MADN
- Bridged Appearances
- Coverage Appearances

IP Office Features/Status Menus:

- Advanced Call Pickup
- Advanced Call Park
- DND exceptions
- Account / Authorization Code
- Auto Answer Controls
- Withhold Number
- Coverage Ring Controls
- Advanced Hunt Group Controls: (Multi Membership, Group Status, Group Configuration)
- Self-Administration
- System Administration

Button configuration:

- Hands-free Answer
- Automatic Intercom
- Specific Call Dial Types
- Conference Meet-Me
- Self-Administration
- System Administration
- Advanced Hunt Group Controls (Group Status, Group Configuration)
- Agent Supervisor Features: (Call Steal, Call Listen, Call Intrude, Coaching Intrusion)

Others:

- 9600/J100 Push API
- WML Browser
- Exchange Calendar/Contact Integration
- Multicast Paging

J159/J169/J179/J189 with IP Office – Features supported / not supported

The following features are supported by the Avaya J159/J169/J179 IP Phone when deployed on IP Office™:

- Basic call handling on *Call Appearances and Line Appearances only* – Making a call, Call presentation, Answer, Hold, Transfer, Conference, Drop

- IP Office Directory (Personal and System)
- IP Office Call History
- Visual Voice

Include basic operation and call handling feature controls by default via IP Office Features Menu

- DND
- Forwarding
- Mobile Phone Call Twinning (User must first be administered to permit Mobile Twinning by a system Administrator).
- Hot Desking

Allow basic call handling feature controls to be administered as button features by a system Administrator

- Call Park
- Call Pickup
- Call Page
- Call Recording
- Auto Call-back
- Account Code
- Authorization Code
- User BLF
- Group BLF

Allow basic agent controls to be administered as button features by a system Administrator

- Hunt Group Membership
- Agent Status
- After Call Work
- Coaching Request

The following features are also supported by the Avaya J159/J169/J179 IP Phone when deployed on IP Office™:

Advanced Call Presentation / Handling:

- MADN
- Bridged Appearances
- Coverage Appearances

IP Office Features/Status Menus:

- Advanced Call Pickup
- Advanced Call Park
- DND exceptions
- Account / Authorization Code
- Auto Answer Controls
- Withhold Number
- Coverage Ring Controls
- Advanced Hunt Group Controls: (Multi Membership, Group Status, Group Configuration)
- Self-Administration
- System Administration

Button configuration:

- Hands-free Answer
- Automatic Intercom
- Specific Call Dial Types
- Conference Meet-Me
- Self-Administration
- System Administration
- Advanced Hunt Group Controls (Group Status, Group Configuration)
- Agent Supervisor Features: (Call Steal, Call Listen, Call Intrude, Coaching Intrusion)

The following features are not supported by the Avaya J159/J169/J179 IP Phone when deployed on IP Office™:

- Personalization (i.e. ability to reconfigure the button layout)
- 9600/J100 Push API
- WML Browser
- Exchange Calendar/Contact Integration
- Multicast Paging

Deploying the J129/J139/J159/J169/J179/J189 in OpenSIP Platform

The J129/J139/J159/J169/J179/J189 are supported with Broadsoft Broadworks, Zang Office, Asterisk, FreeSwitch, and Netsapiens. IP phone configuration file (settings file) must be deployed from a file server (HTTP or HTTPS). User backup/restore must also be deployed from a file server (HTTP or HTTPS). SIP Transport = TLS is not supported. For these phones to work in an OpenSIP environment, configuration file (settings file) must have following parameter configured with value as given:

- SET ENABLE_AVAYA_ENVIRONMENT 0
- SET DISCOVER_AVAYA_ENVIRONMENT 0
- SET ENABLE_IPOFFICE 0

See "Installing and Administering Avaya J100 Series IP Phones in an Open SIP environment" for more detail.

Provisioning of File Server Address

Phone can be provisioned using HTTP/S File Server. The HTTP/S File Server address can be provided to the phone through one of the following methods:

- DHCP
- LLDP
- CRAFT/Web Interface
- Device Enrolment Service (DES)

HTTPS file server has priority over the HTTP file server if both configured.

Once provisioned using one of the above methods, HTTP/S file server address can also be changed through settings file by using following parameters:

- For HTTP → HTTPSRVR, HTTPDIR, HTTPPORT
- For HTTPS → TLSSRVR, TLSDIR, TLSPORT

Once File server address is changed through settings file it will override the file server address provided through DHCP or LLDP. Thus, it is advised to use this option only if different server address needs to be provided to override the DHCP.

If HTTPS file server address is configured in setting file, phone will contact to HTTPS server immediately after the download of settings file without any reboot.

Note:

Please take a note that when HTTPS file server address is configured in settings file, configure SET HTTPSRVR "" in the settings file to override the HTTPSRVR value received from DHCP. Commenting out the HTTPSRVR parameter will not override the value received from DHCP.

Preconfig keys considerations

Added in Release 4.0.2.0 and improved in Release 4.0.8.0 is the ability to pre-configure keys using the 46xxsettings.txt file or the WebUI.

Due to multiple ways you can configure keys in an Aura environment please be aware if you are configuring keys in System Manager, WebUI, and the 46xxsettings.txt file that conflicts may arise.

Note: If you downgrade your phone software from version 4.0.8.0 or greater to a version less than 4.0.8.0, users lose their labels and favorites, modified on the phone and administrators lose labels and favorites, modified through the phone web interface.

Note: MDA groups must use the same preconfig.

For more details please refer to the "Installing and Administering Avaya J100 IP Phones".

PHONEKEY customization limitations

CCElite phones are not supported by PHONEKEY customization.

Recents (Call History) – limitations when downgrade from 4.0.3.0 or later

Starting in J100 SIP 4.0.3.0, call logs are encrypted on the phone. If the phone is downgraded from 4.0.3.0 to any previous release, then the **call logs will be lost** since the older release will not be able to read the encrypted logs. This will occur in all environments except Avaya Aura® when centralized call logging is enabled. If centralized call logging is enabled, then Recents will be preserved on downgrade from 4.0.3.0 to older firmware versions.

Exchange Calendar Integration migrating to OAuth authentication

Exchange Integration basic authentication for EWS is not supported for newly created tenants as of Oct 13, 2020. This is replaced by OAuth authentication which is supported on J100 in Release 4.0.7.0 and greater. Please see the user guide for further details.

USB Headset support

J100 J189 and J159 provide support for standard USB HID headsets. This includes basic call control features.

Depending on the Headset vendor implementation, model specific features may or may not work. Support of feature set may be limited by specific headset model capabilities.

Upgrade to SIP 4.0.10 and greater from SIP 4.0.8.0

J100 SIP phones being upgraded to 4.0.10 and greater from 4.0.8.0 must upgrade to 4.0.9.0 first.

NOTE: Although direct upgrade from 4.0.8 to 4.0.10 and greater may work for phones fresh out of the box, it may fail for some existing phones that are in use.

JEM custom backgrounds and screensavers

The JEM built in backgrounds for J169 are all greyscale to match the greyscale of J169. In 4.0.14 and later custom JEM backgrounds and screensavers are supported. Since the JEM is capable of color display you can load a custom color background or screensaver on a JEM attached to a greyscale J169 phone. If you want your custom JEM background or screensaver to be greyscale then you will need to provide a greyscale custom image as the phone will not enforce greyscale conversion for JEM attached to J169 phones.

SSO considerations

- **Lock screen Application**

  If the lock screen application is enabled (ENABLE_PHONE_LOCK = 1) or lock screen timer (PHONE_LOCK_IDLETIME > 0) are enabled, the user will need to know the password to unlock the phone. Although this is no different than without SSO the end user is less likely to know the password since they did not use it to login. If you enable locking then plesase make sure to enable the user lock PIN by setting LOCK_MODE to 1 so the end user can define and manage their lock pin.

- **Setting GROUP from System Manager**

  If users will be regularly logging out and logging back in then it is not recommended to assign GROUP to the phone in System Manager. Doing this will cause the phone to reboot after SSO login causing a longer login process.

802.1x EAP TLS changes

Prior to R4.1.1 the J100 SIP phones will always start the 802.1x supplicant when EAP is enabled.

Starting in R4.1.1 the J100 SIP phones will not start the 802.1x supplicant if there is no identity certificate or any trust certificate installed on the phone and EAP is enabled with method TLS.

See DOT1XEAPTLSONLYWITHCERT parameter for further details.

J100 4.1.6.0 Resolved Issues (since J100 4.1.5.0)

The following table includes issues which are resolved with this release of software compared to J100 4.1.5.0.6

External ID	Internal ID	Issue Description
Avaya Aura®		
1-22284031292 1-A8TNYEI	SIP96X1-109793	J179 D03 phone shows Memory Warning error
1-22231549402 1-A8M9LLI	SIP96X1-109737	sometimes phone will not terminate OOD refer from CM with any terminated reply like 200ok Notify or 4xx error message Notify, just leave the refer dialog open.
1-21987306922 1-A7C1I42	SIP96X1-109597	Auto reconnect of deskphone mode does not work when "ENABLE_SHARED_CONTROL_PROMPT 1 " is used
	SIP96X1-108759	Phone cannot install SCEP#2 and SCEP#3 with CN in upper case if CN of SCEP#1 is set with lower case
Avaya Cloud Office™		
IP Office™		
	SIP96X1-109693	FQDN support in controller list for IPV6 CCMS
	SIP96X1-109792	IPO IPv6 CCMS - There is no voice when J100 phone is in active call
	SIP96X1-109801	IPO IPv6 CCMS - Phone J100 couldn't failover because lack of IP of IPO secondary in SIP Controller List
	SIP96X1-109890	One way audio when J100 IPv6 only calls Workplace in IPv4 mode
	SIP96X1-109915	Allow DUAL_IPPREF parameters to be set via DHCP
	SIP96X1-109968	Phones should always use FQDN to log in to IPO IPv6 CCMS & IPO IPv4 CCMS regardless of the manual SIP proxy list order
CCElite		
Open SIP		
All Platforms		
Wifi		
Web User Interface		
Button Module (JEM24)		

Unresolved issues in J100 4.1.6.0

The following table includes unresolved issues with this release of software which were known as of the issue date of this document.

External ID	Internal ID	Issue Description
Avaya Aura®		
	SIP96X1-110419	Phone with FIPS mode enabled gets stuck, reboots then generates core dump tLdapGetPage when load LDAP TLS mode
Avaya Cloud Office™		
	SIP96X1-110536	A J139 phone is not registered back to ACO server after failover to IPO and failback to ACO.
IP Office™		
Open SIP		
	SIP96X1-41164	HTTP redirect to HTTPS fails certificate validation, connection fails *work-around: reconfigure phone URL to HTTPS*
	SIP96X1-66640	Do not to use Web UI>Environment Settings>3PCC Server Mode = Netsapiens even though it shows, use generic
All Platforms		
	SIP96X1-89301	The phone does not download TRUSTCERTS list when user defines a HTTPs URL to the phone (SET ENABLE_PUBLIC_CA_CERTS=1 in settings file) *work-around: use HTTP or SET ENABLE_PUBLIC_CA_CERTS=0*
	SIP96X1-88631	L149 USB mute control drops call *work-around: use mute control on phone, this is a wired USB headset*
	SIP96X1-105186	certinfo does not update after a bootup/getupdates *work-around:* reboot the phone one more time, certinfo is created on bootup and if a cert was added after boot then the cli status may be stale
Web User Interface		
	SIP96X1-94382	Language Dutch imported from WebServer is not displayed on phone UI *work-around:* Import Dutch language file from settings file
	SIP96X1-102120	Customized softkey is not displayed if it was earlier set from Web UI and it is removed before setting it via 46xxsettings on J100 phone. *work-around:* Page level reset to default needs to be done to completely get rid of the softkey configured from WEB

External ID	Internal ID	Issue Description
Bluetooth		
	SIP96X1-105473	There isn't incoming call alert and cannot answer the call via Bluetooth when Incoming call popup is disabled.
Button Module (JEM24)		
	BUTTONMODULE -426	JEM24 doesn't report upgrade failure in case of invalid FW file
Wifi		

Appendix 1 – Supported Hardware and Minimum Software Release

J100 SIP 4.1.6.0 software is supported on the following models of IP Phones. Models may ship from the factory with a different load of software pre-installed. As such, they should be upgraded to this release on first installation.

Note: Comcodes indicated with an asterisk (*) have an End-of-Sale Notification and include a link to the corresponding end-of-sale document.

Comcode	Short Description	Model(s)	Replaced by
700512392 *	J129 IP PHONE	J129D01A	700513638
700513638 *	J129 IP PHONE NO PWR SUPP	J129D02A	700514813
700512969 *	J129 IP PHONE 3PCC W/O PWR SUPP	J129D01A	700513639
700513639 *	J129 IP PHONE 3PCC W/CERT	J129D02A	700514814
700514813 *	J129 IP PHONE 5V	J129D03A	700513916
700515186 *	J129 IP PHONE 5V ENCRYPTION DISABLED	J129D03X	700515187
700514814 *	J129 IP PHONE 5V 3PCC	J129D03A	700513917
700513916	J139 IP PHONE GLOBAL	J139D01A J139D01B	
700515187	J139 IP PHONE ENCRYPTION DISABLED	J139D01X	
700513917 *	J139 IP PHONE 3PCC	J139D01A J139D01B	700513916
700513918	J139 IP PHONE TAA	J139D01A J139D01B	
700514634	J139 IP PHONE ORANGE	J139D01A J139D01B	
700512394	J159 IP PHONE GLOBAL	J159D01A J159D01B	
700515188	J159 IP PHONE ENCRYPTION DISABLED	J159D01X	
700512395	J159 IP PHONE TAA	J159D01A J159D01B	

Comcode	Short Description	Model(s)	Replaced by
700512970 *	J159 IP PHONE 3PCC	J159D01A	700512394
700515582	J159 IP PHONE ORANGE	J159D01A J159D01B	
700513634 *	J169 IP PHONE NO PWR SUPP	J169D01A J169D01B J169D02A	700513569
700515189 *	J169 IP PHONE ENCRYPTION DISABLED	J169D01X J169D02X	700515190
700513635 *	J169 IP PHONE TAA	J169D01A J169D01B J169D02A	700513629
700513636 *	J169 IP PHONE 3PCC	J169D01A J169D01B J169D02A	700513630
700514468 *	J169 IP PHONE GLOBLE WHITE	J169D01A J169D01B J169D02A	700514469
700514757 *	J169 IP PHONE NO BEZEL	J169D01A J169D01B J169D02A	700514758
700514635	J169 IP PHONE ORANGE	J169D01A J169D01B J169D02A	
700513569	J179 IP PHONE GLOBAL	J179D02A J179D03A J179D03B	
700515190	J179 IP PHONE ENCRYPTION DISABLED	J179D02X J179D03X	
700513629	J179 IP PHONE TAA	J179D02A J179D03A J179D03B	
700513630 *	J179 IP PHONE 3PCC	J179D02A J179D03A J179D03B	700513569
700514469	J179 IP PHONE GLOBLE WHITE	J179D02A J179D03A J179D03B	
700514636	J179 IP PHONE ORANGE	J179D02A J179D03A J179D03B	
700514758	J179 IP PHONE NO BEZEL	J179D02A J179D03A J179D03B	
700512396	J189 IP PHONE GLOBAL	J189D01A J189D01B	
700512397	J189 IP PHONE TAA	J189D01A J189D01B	
700512971 *	J189 IP PHONE 3PCC	J189D01A	700512396
700515191	J189 IP PHONE ENCRYPTION DISABLED	J189D01X	

Avaya periodically releases new hardware variations of the J100-Series IP Phones typically to address a need to change hardware components. That change may require a new version of software to support the new hardware. This then forces a minimum software release supported on that hardware. ***Attempts to downgrade these models to lower versions of software will be rejected***.

The following table provides a matrix of the different models of J100 Series IP Phones including hardware generations and any limitation on supported software version. The "Model" information can be found on the label on the outside of the shipping box, on the label on the back of the IP Phone, within the Information menus available from the screen of the phone, remotely via LLDP, remotely via the Web Interface (SIP software), and remotely via SNMP. The "Hardware Revision" can be found on the label of the box on the same line as the "Model" information, and also found on the label on the back of the phone on the first row.

Model	Hardware Revision(s)	Minimum SIP Software	Minimum H.323 Software
J129D01A	all	1.0.0.0.43	N/A
J129D02A	01 to 07	2.0.0.0.45	N/A
J129D02A	08 and greater	3.0.0.1.6	N/A
J129D03A	01 to 11	4.0.2.0.8	N/A
J129D03A	12 and greater	4.0.3.1.4	N/A
J139D01A	01 to 05, 07, 08	3.0.0.0.20	N/A
J139D01A	06, 09 to 11	3.0.0.1.6	N/A
J139D01A	12 to 20	4.0.0.0.21	N/A
J139D01A	21 to 24	4.0.3.1.4	N/A
J139D01A	25 to 30	4.0.8.0.13	N/A
J139D01A	31 to 33	4.0.11.0.3	N/A
J139D01B	34 and greater	4.0.12.0.6	N/A
J159D01A	01 to14	4.0.3.1.4	6.8.5.02
J159D01B	15 and greater	4.0.12.0.6	6.8.5.3.2
J169D01A	01 to 03	1.5.0.0.15	6.7.0.02
J169D01A	04 to 07	3.0.0.1.6	6.8.0.03
J169D01B	08 to 18	4.0.0.0.21	6.8.0.03
J169D01B	19 and greater	4.0.3.1.4	6.8.3.04
J179D02A	01 to 03	1.5.0.0.15	6.7.0.02
J179D02A	04 to 08	2.0.0.0.45	6.7.0.02
J179D03A	09 to 11	4.0.1.0.11	6.8.2.02
J179D03A	12 to 18	4.0.2.0.8	6.8.2.02
J179D03A	19 to 33	4.0.3.1.4	6.8.3.04
J179D03B	34 and greater	4.0.12.0.6	6.8.5.3.2
J189D01A	01 to 15	4.0.6.1.4	6.8.5.02
J189D01B	16 and greater	4.0.12.1.x	6.8.5.3.2

Appendix 2 – Release History

The following table provides a history of the J100 SIP software releases. The "ID" column shows the identifier of this software which is seen in the "About" menu item.

Release	ID	Date	Link to Readme file
1.0.0.0	1.0.0.0.43	Dec 2016	https://support.avaya.com/css/P8/documents/101033485
1.1.0.0	1.0.0.0.15	Mar 2017	https://support.avaya.com/css/P8/documents/101037079
1.1.0.1	1.0.0.1.3	Aug 2017	https://support.avaya.com/css/P8/documents/101042514
1.5.0.0	1.5.0.0.15	Mar 2018	https://support.avaya.com/css/P8/documents/101047039
2.0.0.0	2.0.0.0.45	April 2018	https://support.avaya.com/css/P8/documents/101048016
3.0.0.0	3.0.0.0.20	July 2018	https://support.avaya.com/css/P8/documents/101050223
3.0.0.1	3.0.0.1.6	Aug 2018	https://support.avaya.com/css/P8/documents/101051793
3.0.0.2	3.0.0.2.2	Nov 2018	https://support.avaya.com/css/P8/documents/101053115
4.0.0.0	4.0.0.0.21	Dec 2018	https://support.avaya.com/css/P8/documents/101054005
4.0.0.1	4.0.0.1.2	Mar 2019	https://support.avaya.com/css/P8/documents/101056162
4.0.1.0	4.0.1.0.11	Apr 2019	https://support.avaya.com/css/P8/documents/101056525
4.0.2.0	4.0.2.0.8	July 2019	https://support.avaya.com/css/P8/documents/101058668
4.0.2.1	4.0.2.1.3	July 2019	https://support.avaya.com/css/P8/documents/101059981
4.0.3.0	4.0.3.0.10	Oct 2019	https://support.avaya.com/css/P8/documents/101060975
4.0.3.1	4.0.3.1.4	Nov 2019	https://support.avaya.com/css/P8/documents/101062454
4.0.4.0	4.0.4.0.10	Jan 2020	https://support.avaya.com/css/P8/documents/101063151
4.0.5.0	4.0.5.0.10	Apr 2020	https://support.avaya.com/css/P8/documents/101065323
4.0.6.0	4.0.6.0.7	June 2020	https://support.avaya.com/css/P8/documents/101068496
4.0.6.1	4.0.6.1.4	Aug 2020	https://support.avaya.com/css/P8/documents/101070109
4.0.6.1	4.0.6.1.6	Sep 2020	https://support.avaya.com/css/P8/documents/101070565
4.0.7.0	4.0.7.0.7	Oct 2020	https://support.avaya.com/css/P8/documents/101071218
4.0.7.1	4.0.7.1.5	Dec 2020	https://support.avaya.com/css/P8/documents/101072194
4.0.8.0	4.0.8.0.14	Mar 2021	https://support.avaya.com/css/P8/documents/101074480
4.0.9.0	4.0.9.0.4	Apr 2021	https://support.avaya.com/css/P8/documents/101075292
4.0.10.0	4.0.10.0.4	July 2021	https://support.avaya.com/css/P8/documents/101076605
4.0.10.1	4.0.10.1.2	Aug 2021	https://support.avaya.com/css/P8/documents/101077135
4.0.10.2	4.0.10.2.1	Oct 2021	https://support.avaya.com/css/P8/documents/101078268
4.0.10.2	4.0.10.2.2	Dec 2021	https://support.avaya.com/css/P8/documents/101078268
4.0.10.3	4.0.10.3.2	Dec 2021	https://support.avaya.com/css/P8/documents/101079719
4.0.11.0	4.0.11.0.3	Feb 2022	https://support.avaya.com/css/P8/documents/101080577
4.0.12.0	4.0.12.0.6	Apr 2022	https://support.avaya.com/css/P8/documents/101081376
4.0.12.1	4.0.12.1.1	May 2022	https://support.avaya.com/css/P8/documents/101081837
4.0.13.0	4.0.13.0.6	July 2022	https://support.avaya.com/css/P8/documents/101082968
4.0.14.0	4.0.14.0.7	Oct 2022	https://support.avaya.com/css/P8/documents/101083795
4.1.0.0	4.1.0.0.7	Jan 2022	https://support.avaya.com/css/P8/documents/101084676

Release	ID	Date	Link to Readme file
4.1.1.0	4.1.1.0.7	Apr 2022	https://downloads.avaya.com/css/P8/documents/101085556
4.1.2.0	4.1.2.0.11	Oct 2023	https://downloads.avaya.com/css/P8/documents/101087001
4.1.2.1	4.1.2.1.1	Feb 2024	https://downloads.avaya.com/css/P8/documents/101087449
4.1.3.0	4.1.3.0.6	Jan 2024	https://downloads.avaya.com/css/P8/documents/101088004
4.1.4.0	4.1.4.0.5	Apr 2024	https://downloads.avaya.com/css/P8/documents/101088985
4.1.5.0	4.1.5.0.6	July 2024	https://downloads.avaya.com/css/P8/documents/101090998
4.1.6.0	4.1.6.0.6	Oct 2024	https://downloads.avaya.com/css/P8/documents/101091653

Appendix 3 – New and changed 46xxsettings.txt parameters

The latest version of the 46xxsettings.txt file can be downloaded from

https://support.avaya.com/support/en/download/1399860368103?productId=P1661&releaseId=SIP%204.1.x

New parameters

```
##
##################### CALL LOG SETTINGS ####################
##
## ENABLE_LNCC_CUSTOM_CALL_LOG Specifies if LNCC custom Call Log is enabled
## Supported for Aura environment only
## Value                          Operation
##   0                  LNCC call log should show existing behavior: forwarded missed call icon and missed call reason is "Limit incoming calls" (Default)
##   1                  LNCC Call log should show missed call log icon and text would show 'Second call off'
## This parameter is supported by:
##          J100 (except J129) and later R4.1.6.0 and later
## SET ENABLE_LNCC_CUSTOM_CALL_LOG 1
```

Changed parameters

```
######################## USB SETTINGS ########################
##
## ENABLE_USBHEADSET specifies whether USB Headset is enabled or disabled.
## Value  Operation
##   0    USB headset is disabled.
##   1    USB headset is enabled (default)
## This parameter is supported by:
##     J100 SIP R4.0.7.1 and later, J159 SIP R4.0.10.0 and later.
##     J100 SIP R4.1.6.0 and later supported in IPO-CCMS environment.
## SET ENABLE_USBHEADSET 0


################## SERVER SETTINGS (SIP) #################
##
## SIP_CONTROLLER_LIST specifies a list of IPv4 SIP controller designators, separated by commas without any intervening spaces.
## The list is used on IPv4-only and dual mode phones (if SIP_CONTROLLER_LIST_2 is not provided).
## Each controller designator has the following format:
## host[:port][;transport=xxx]
## host is an IP address in dotted-decimal (DNS name format is not supported unless stated otherwise below).
## [:port] is an optional port number.
## [;transport=xxx] is an optional transport type where xxx can be tls, tcp, udp or auto.
## "auto" means that the preferred transport is determined based on Name Authority Pointer (NAPTR) record retrieved for the SIP Controller FQDN configured. SRV records can be then used to retrieve port and the final FQDN for use.
## If a port number is not specified a default value of 5060 for TCP and UDP or 5061 for TLS is used.
## If a transport type is not specified, a default value of tls is used.
## The value can contain 0 to 255 characters; the default value is null ("").
## This parameter is supported by:
##     J129 SIP R1.0.0.0 (or R1.1.0.0); J100 SIP R2.0.0.0 and later; J139 SIP R3.0.0.0 and later, J159 SIP R4.0.3.0 and later, J189 SIP R4.0.6.1 and later
##          For IPO CCMS environment, FQDN format is supported for J100 phones starting R4.1.6.0
##      If the list contains a mix of FQDNs and IP addresses, only FQDNs will be used, IP addresses will be ignored.
##          For Aura environment, FQDN format is supported for J100 phones starting R4.0.11.0
##                  For the FQDN, DNR SRV records are not used, only DNS A and AAAA records are used.
##      If the list contains a mix of FQDNs and IP addresses, only FQDNs will be used, IP addresses will be ignored.
##          For OpenSIP environment, only one SIP controller is supported.
##      "auto" is supported in OpenSIP environment only. "auto" is supported by J100 SIP R4.0.0.0 and later.
##     J100 SIP R4.0.0.0 and later; used on dual mode phones if SIP_CONTROLLER_LIST_2 is not provided.
```

```
##        When 3PCC_SERVER_MODE = 1 (a BroadSoft server), SIP_CONTROLLER_LIST should contain one sip controller entry and host should be an FQDN (DNS name format).
##        The FQDN would resolve to primary and alternate servers to support redundant configuration.
##        When 3PCC_SERVER_MODE = 0 (a generic SIP server), SIP_CONTROLLER_LIST may contain one or two sip controller entries (to support redundant configuration).
##        "host" of sip controller entry could be an FQDN(DNS name format) or an IP address. If FQDN is provided, it will resolve to one primary server.
##        IPv6 is not supported for OpenSIP environment. In OpenSIP environment, there is no support for resolving an FQDN to an IPv6 address in the SIP_CONTROLLER_LIST or SIP_CONTROLLER_LIST_2.
##        IPv6 is supported for Aura environment and in Aura there is no support for FQDN yet (only IP addresses can be configured).
##            J169/J179 SIP R1.5.0
##            Avaya IX Workplace 3.1.2 and later; DNS name format is supported.
##      Avaya Vantage Devices SIP R1.0.0.0 and later; DNS name format is supported; UDP is not supported; not applicable when Avaya Vantage Open application is used.
##        IPv6 address is supported as well for Aura environment only. SIP_CONTROLLER_LIST_2 is not supported.
##      Avaya Vantage Connect Application SIP R1.0.0.0 and later; DNS name format is supported; TCP/TLS are supported in Avaya Aura, Avaya IP Office and OpenSIP environments. UDP is supported in OpenSIP environment only.
##        OpenSIP environment is supported from R2.0.1.0 and later. The configuration file from the Avaya Vantage Device combines the configuration of this parameter from all sources (in the following order):
##        UI, LLDP, DHCP, this file, PPM and AADS. R2.2.0.0 and later - IPv6 address is supported as well for Aura environment only. Please note that for dual stack controllers (IPv4/IPv6),
##        then FQDN shall be used to avoid multiple registration to the SAME controller over both IPv4 and IPv6 addresses. SIP_CONTROLLER_LIST_2 is not supported.
##      96x1 SIP R6.0 and later
##      96x0 SIP R2.4.1 and later
##      H1xx SIP R1.0 and later; udp is not supported.
## SET SIP_CONTROLLER_LIST proxy1:5555;transport=tls,proxy2:5556;transport=tls
## SET SIP_CONTROLLER_LIST proxy.example.com;transport=auto
##
## SIP_CONTROLLER_LIST_2
## Valid Values
##    String The comma separated list of SIP proxy/registrar servers
##    0 to 255 characters: zero or more IP addresses in dotted decimal or colon-hex format,
##    separated by commas without any intervening spaces.
##    Default: "" (null)
## Description
##    This parameter replaces SIP_CONTROLLER_LIST for dual mode phones. It is used on IPv6-only phones to provide the list of SIPv6 servers.
##    SIPv4 servers are ignored in IPv6-only mode. It is used to select the registration address.
##    The list has the following format: host[:port][;transport=xxx]
##    where:
##        - host: is an IP addresses in dotted-decimal format or hex format
##        - port: is the optional port number. If a port number is not specified the default
##              value (5060 for TCP, 5061 for TLS) will be used
##        - transport: is the optional transport type (where xxx is tls or tcp)
##                  If a transport type is not specified the default value TLS will be used
##    A dual mode controller has addresses of both families within curly brackets.
##    A settings file example is:
##        SIP_CONTROLLER_LIST_2 "{[2007:7::5054:ff:fe35:c6e]:5060;transport=tcp,47.11.15.142:5060;transport=tcp},
##                        {[2007:7::5054:ff:fe80:d4b0]:5060;transport=tcp,47.11.15.174:5060;transport=tcp}"
##    Dual mode phones use SIGNALING_ADDR_MODE to select SM IP addresses from SIP_CONTROLLER_LIST_2.
##    If SIGNALING_ADDR_MODE is 4, register to the first IPv4 address in SIP_CONTROLLER_LIST_2.
##    IPv4 only phones use SIP_CONTROLLER_LIST. Dual mode phones use SIP_CONTROLLER_LIST if SIP_CONTROLLER_LIST_2 is not provided.
##    SIP_CONTROLLER_LIST_2 should only be used if IPv6 addresses (FQDN is not supported) may be used for SIP signaling.
##    SIP_CONTROLLER_LIST_2 should not be used if FQDN (DNS name format) is used for sip controllers.
## This parameter is supported by:
##    J100 (except J129) starting R4.1.6.0 this parameter is supported in IPO CCMS environment for IPv6 addresses.
##    J169/J179 SIP R1.5.0; J100 SIP R2.0.0.0 and later, J139 SIP R3.0.0.0 and later, J159 SIP R4.0.3.0 and later, J189 SIP R4.0.6.1 and later
##    96x1 SIP R7.1.0.0 and later
## Example:
## Dual mode SIP controllers:
## SET SIP_CONTROLLER_LIST_2 "{[2007:7::5054:ff:fe35:c6e]:5060;transport=tcp,47.11.15.142:5060;transport=tcp},
## {[2007:7::5054:ff:fe80:d4b0]:5060;transport=tcp, 47.11.15.174 :5060;transport=tcp}"
## IPv6-only mode SIPv6 controllers:
##  SET SIP_CONTROLLER_LIST_2 "[2007:7::5054:ff:fe35:c6e]:5060;transport=tcp,[2007:7::5054:ff:fe80:d4b0]:5060;transport=tcp"
##
```

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