Avaya J100 Series SIP Release 4.2.0.0 Readme

This file is the Readme for the Avaya J100 Series SIP Release 4.2.0.0 Feature Pack software (J100 SIP 4.2.0.0). This file describes the contents of the Nov 2026 (**4.2.0.0.11**) release software distribution package.

J100 SIP 4.2.0.0 software is supported on the Avaya J129, J139, J159, J179 and J189 IP Phones used with Avaya Aura®, Avaya IP Office™, and select OpenSIP platforms. J100 SIP 4.2.0.0 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.

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Compatibility

The Avaya J129, J139, J159, J179 and J189 IP Phones using J100 SIP 4.2.0.0 software are supported with:

- Avaya Nexus® 26.3 Platform
- 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.x (Avaya Aura® Communication Manager 10.2.x, Avaya Aura® Session Manager 10.2.x, Avaya Aura® System Manager 10.2.x, Avaya Aura® Presence Services 10.2.x) and associated feature/service packs
- IP Office™ 12.3
    - ***Refer to IP Office documentation for specific compatibility.***
- 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=4.1.1 for an up-to-date listing of compatible products.

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New Support in J100 SIP 4.2.0.0

The following new features are included in 4.2.0.0 Feature Pack:

Feature	Description
Enrollment over Secure Transport (EST) RFC 7030 - Client Identity Certificates	Introduces support for Enrollment over Secure Transport (EST) as defined in RFC 7030 for deploying and renewing Client Identity Certificates over HTTPS.
Support ECC/ECDSA (Elliptic Curve Cryptography)	EST extends certificate enrollment and encryption to support modern Elliptic Curve Cryptography (ECC) and ECDSA key pairs alongside traditional RSA.
Nexus / CCI Mode & Dedicated PPM Server Separation	Decouples the Personal Profile Manager (PPM) configuration/retrieval service from the primary SIP signaling path for Avaya Nexus (CCI) architectures.
Nexus SIP Authentication with SIPSHA256 & SIPUSERNAME (Force Login)	Introducing SHA-256 password hash authentication for SIP registration, MD5 digest is not supported on Nexus.
911 Inform Dispatchable Location Support	Publishes the phone's physical hardware MAC address in SIP headers to support emergency dispatchable location identification via 911 Inform integration.
Nexus - post migration from DHCP, J100 performs a partial reset	Feature ensures that J100 series endpoints maintain operational continuity during the migration process from an Avaya Aura environment to a Nexus-managed infrastructure. The primary goal is to seamlessly transition the device to align with the new system parameters post-migration without having to manually reset the phone to defaults.
Restore JSeries H.323 Contacts to SIP Contacts	Enable users and administrators migrating from H.323 firmware to SIP firmware (e.g., Aura to 3PCC / MS Teams SIP Gateway / Zoom) to import their existing personal contacts stored on a backup server via BRURI.
Dynamic Frequency Selection (DFS) Wi-Fi Channel Support	Adds administrative control to enable the use of 5 GHz DFS channels (U-NII-2 and U-NII-2 Extended: channels 52–64 and 100–144) on Wi-Fi-enabled J100 deskphones (Applicable only when WLAN_COUNTRY US).
Domain Prefix / Suffix Domain Comparison for Call Log	Controls how the phone compares the remote party SIP domain against the configured SIPDOMAIN when formatting Recents / Call Log entries and initiating redial/callback.

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Documentation for J100 SIP 4.2.0.0

The following documentation has been updated for this release:

- Using Avaya J129 SIP IP Phone for Avaya Nexus
- Using Avaya J139 SIP IP Phone for Avaya Nexus
- Using Avaya J159 SIP IP Phone for Avaya Nexus
- Using Avaya J169 and J179 SIP IP Phones for Avaya Nexus
- Using Avaya J189 SIP IP Phone for Avaya Nexus
- Integrating Avaya J100 Series IP Phones with Avaya Nexus
- 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.x.x" -> "Product Documents". They are also available on https://documentation.avaya.com under "Phones and Devices" -> "Avaya J100 Series IP Phones".

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J100 SIP 4.2.0.0 (4.2.0.0.11) Package Content

The J100 SIP 4.2.0.0 package (J100-IPT-SIP-R4_2_0_0-111226.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 4.2.0.0 software.
Note: There is a second J189 Hardware version that requires a separate FW image. For more information, please see Appendix 1.

- FW_S_J129_R4_2_0_0_11.bin – application binary file for J129
- FW_S_J139_R4_2_0_0_11.bin – application binary file for J139
- FW_S_J159_R4_2_0_0_11.bin – application binary file for J159
- FW_S_J169_R4_2_0_0_11.bin – application binary file for J169
- FW_S_J179_R4_2_0_0_11.bin – application binary file for J179
- FW_S_J189_R4_2_0_0_11.bin – application binary file for J189
- FW_S_J189A_R4_2_0_0_11.bin – application binary file for J189
- FW_JEM24_R1_0_1_0_27.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

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- 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

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    - 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 SHA-256 signature files and a certificate file.
- Avaya Global Software License Terms Jun-2024.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 Appendix 3.**

Advisements with J100 SIP 4.2.0.0 software

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



"3PCC" versions of the J129/J139/J159/J169/J179/J189 hardware are pre-configured for interworking with Open SIP. Refer to Appendix 1. **"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)

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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 turned off.

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".

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J129/J139/J159/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

The following are known limitations of the J100 SIP 4.1.0 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
- Wi-Fi
- 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

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"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 4.2.0.0 zip packages.

Earlier versions of the Utility Server are not able to install J100 SIP 4.2.0.0 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, Wi-Fi (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.

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.

Advisement: existing Exchange customers may experience outage

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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" .This applies to all sources of the SIP_CONTROLLER_LIST parameter which includes DHCP, LLDP, Web interface and the 46xxsettings.txt file.

Note: Starting in 4.0.11, the phone supports SIP_CONTROLLER_LIST defined with FQDNs.

Security Certificates – IP Address versus FQDN

Using a Fully Qualified Domain Name (FQDN) instead of an IP address for the Subject Alternate Name or Subject Common Name in security certificates is the industry standard. 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 when the phone connects via IP address only and the server presents a certificate with an FQDN only.

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

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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 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
```

SIP Transport Protocols

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

Encryption – SHA2, RSA, and ECC (ECDSA)

J100 software supports RSA 2048-bit and 4096-bit encryption keys, ECC ECDSA keys on the secp256r1 and secp384r1 curves, and the SHA2 (224, 256, 384, and 512) hash algorithms. 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 with RSA 2048/4096 or ECDSA secp256r1/secp384r1). Additionally, this IP Phone is able to receive and validate server Identity certificates which have an enhanced digital signature (SHA2 with RSA 2048/4096 or ECDSA secp256r1/secp384r1).

Support for these encryption and digital signature algorithms has been certified for HTTPS used by the phone's web-based administration interface.

[1] J129 does not support a headset

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Interworking – Avaya Diagnostic Server (ADS)

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 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.

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, J179 and J189 display presence, publish presence, and can manually set a presence state.

VLAN separation

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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)
- Wi-Fi 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™:

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- 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

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- 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/J179/J189 with IP Office – Features supported / not supported

The following features are supported by the Avaya J159/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

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- 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/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/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/J179/J189 in OpenSIP Platform

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The J129/J139/J159/J179/J189 are supported with Broadsoft Broadworks, 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 are 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.

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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 Integration migrations

Exchange Integration basic authentication for EWS is not supported for newly created tenants as of Oct 13, 2020. This was 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.

EWS will be disabled in Exchange Online in October 2026, there are no changes to EWS in Exchange Server.

Final EWS for Exchange Online shutdown will occur on April 1, 2027. For instructions how to continue using EWS in Exchange Online after October 2026 until April 1, 2027, please see: https://techcommunity.microsoft.com/blog/exchange/exchange-online-ews-your-time-is-almost-up/4492361

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.

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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.

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 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.

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J100 4.2.0.0.11 Resolved Issues (since J100 4.1.11.0)

The following table includes issues which are resolved with this release of software compared to J100 4.1.11.0.10

External ID	Internal ID	Issue Description
Avaya Aura®		
1-AX34H9B 1-23606570739	SIP96X1-116456	Phone not parsing the geolocation header
1-AW0NA7O 1-23675892174	SIP96X1-116267	J100 phone is not replying to the SIP INVITE
1-AVNYOY9 1-23470072214	SIP96X1-115973	J100 phone missed call history shows FQDN instead of the original calling party number
1-AT7SDAN 1-23519352342	SIP96X1-115217 SIP96X1-114800	J100 phone extension changing from 5 digit to E164 format
Avaya Cloud Office™		
N/A		
IP Office™		
N/A		
CCElite		
N/A		
Open SIP		
N/A		
All Platforms		
	SIP96X1-117161	Remove eMudhra root CA and block compromised intermediate certs.
Wi-Fi		
N/A		
Web User Interface		
N/A		
Button Module (JEM24)		
N/A		

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Unresolved issues in J100 4.2.0.0

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

External ID	Internal ID	Issue Description
Avaya Aura®		
Avaya Cloud Office™		
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 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*
	SIP96X1-116640	J100 phone fails to authenticate with an LDAP server using Mutual TLS 1.3 (mTLS v1.3)
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
Bluetooth		
	SIP96X1-105473	No incoming call alert and cannot answer the call via Bluetooth when Incoming call popup is disabled.
Button Module (JEM24)		
Wifi		

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Appendix 1 – Supported Hardware and Minimum Software Release

J100 SIP 4.2.0.0 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~~ 700517252
700513638 *	J129 IP PHONE NO PWR SUPP	J129D02A	~~700514813~~ 700517252
700512969 *	J129 IP PHONE 3PCC W/O PWR SUPP	J129D01A	~~700513639~~ 700517252
700513639 *	J129 IP PHONE 3PCC W/CERT	J129D02A	~~700514814~~ 700517252
700514813 *	J129 IP PHONE 5V	J129D03A	~~700513916~~ 700517252
700515186 *	J129 IP PHONE 5V ENCRYPTION DISABLED	J129D03X	700515187
700514814 *	J129 IP PHONE 5V 3PCC	J129D03A	~~700513917~~ 700517252
700517252	J129 IP PHONE GLOBAL	J129D03A	
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	
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

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Comcode	Short Description	Model(s)	Replaced by
700514468 *	J169 IP PHONE GLOBAL 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	

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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

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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

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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
4.1.7.0	4.1.7.0.5	Jan 2025	https://downloads.avaya.com/css/P8/documents/101092321
4.1.8.0	4.1.8.0.8	Apr 2025	https://downloads.avaya.com/css/P8/documents/101092697
4.1.9.0	4.1.9.0.8	July 2025	https://downloads.avaya.com/css/P8/documents/101093326
4.1.10.0	4.1.10.0.7	Oct 2025	https://downloads.avaya.com/css/P8/documents/101094241
4.1.10.1	4.1.10.1.3	Feb 2026	https://downloads.avaya.com/css/P8/documents/101094921
4.1.11.0	4.1.11.0.9	Apr 2026	https://downloads.avaya.com/css/P8/documents/101095479

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

New parameters

```
###################### CERTIFICATES SETTINGS ######################
## EST_CERT_URL, EST_CERT_URL_2, EST_CERT_URL_3 specify the URL of the Enrollment over Secure Transport (EST) server
## from which the telephone should enroll or re-enroll for an identity certificate as per RFC 7030.
## Value must include https:// prefix.
## Value must include /.well-known/est/
## Value must not include credentials, See EST_CERT_USERNAME and EST_CERT_PASSWORD.
## Value may include arbitrary labels.
## Default value is NULL
## This parameter is supported by:
##     J100 SIP R4.2.0.0 onwards
## SET EST_CERT_URL https://www.example.com/.well-known/est/arbitraryLabel1
##
## EST_CERT_KEYLEN, EST_CERT_KEYLEN_2, EST_CERT_KEYLEN_3 specify the bit length of the public and private RSA key pair
## generated for the respective EST certificate request.
## Supported values
##   "2048" (Default)
##   "4096"
## This parameter is supported by:
##      J100 SIP R4.2.0.0 and later
## SET EST_CERT_KEYLEN 4096
##
## EST_CERT_USERNAME, EST_CERT_USERNAME_2, EST_CERT_USERNAME_3 specify the username to be provided (if not null)
## if an Enrollment over Secure Transport (EST) request challenges for authentication via HTTP Authenticate header.
## Values may contain 0 to 255 ASCII characters
## The default value is "$SERIALNO".
## If the value is defined as "", empty/null then the user will be prompted to enter the EST enrollment password.
## If the value contains "$SERIALNO", it will be replaced by the telephone's serial number in upper case.
```

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If the value contains "$MACADDR", it will be replaced by the telephone's MAC address in hex in lower case.
If the value contains "$MACADDR_UPPER", it will be replaced by the telephone's ethernet MAC address in upper case.
This parameter is supported by:
J100 SIP R4.2.0.0 and later
SET EST_CERT_USERNAME $MACADDR
##
EST_CERT_PASSWORD, EST_CERT_PASSWORD_2, EST_CERT_PASSWORD_3 specify the password to be provided (if not null)
if an Enrollment over Secure Transport (EST) request challenges for authentication via HTTP Authenticate header.
Values may contain 0 to 255 ASCII characters
The default value is "$SERIALNO".
If the value is defined as "", empty/null then the user will be prompted to enter the EST enrollment password.
If the value contains "$SERIALNO", it will be replaced by the telephone's serial number in upper case.
If the value contains "$MACADDR", it will be replaced by the telephone's MAC address in hex in lower case.
If the value contains "$MACADDR_UPPER", it will be replaced by the telephone's ethernet MAC address in upper case.
This parameter is supported by:
J100 SIP R4.2.0.0 and later
SET EST_CERT_PASSWORD $MACADDR
##
##EST_CERT_CN, EST_CERT_CN_2, EST_CERT_CN_3 specify the Common Name (CN) used in the SUBJECT of the respective
EST identity certificate enrollment or reenrollment.
Values may contain 0 to 255 ASCII characters
The default value is "$SERIALNO".
If the value is defined as "", empty/null then the user will be prompted to enter the EST enrollment password.
If the value contains "$SERIALNO", it will be replaced by the telephone's serial number in upper case.
If the value contains "$MACADDR", it will be replaced by the telephone's MAC address in hex in lower case.
If the value contains "$MACADDR_UPPER", it will be replaced by the telephone's ethernet MAC address in upper case.
During identity certificate reenrollment, the value must remain unchanged from the value used during the identity certificate enrollment.
EST certificate reenrollment will fail if this value is changed.
If a new value is explicitly desired, then remove the existing certificate by using
DELETE_MY_CERT, DELETE_EST_CERT, DELETE_EST_CERT_2, DELETE_EST_CERT_3 parameters and enrolling for a new identity certificate.
This parameter is supported by:
J100 SIP R4.2.0.0 and later
SET EST_CERT_CN $MACADDR
##
EST_CERT_DN, EST_CERT_DN_2, EST_CERT_DN_3 specify the part the SUBJECT of the respective
Enrollment over Secure Transport (EST) certificate request that is common for all telephones.
It must begin with a "/" and may include Organizational Unit, Organization, Location, State and Country.
Values may contain 0 to 255 ASCII characters
The default value is null ("").
Note: Commas have been found to not work with some servers. It is recommended that "/" be used as a separator between components.
During identity certificate reenrollment, the value must remain unchanged from the value used during the identity certificate enrollment.
EST certificate reenrollment will fail if this value is changed.
If a new value is explicitly desired, then remove the existing certificate by using
DELETE_MY_CERT, DELETE_EST_CERT, DELETE_EST_CERT_2, DELETE_EST_CERT_3 parameters and enrolling for a new identity certificate.
This parameter is supported by:
J100 SIP R4.2.0.0 and later
##
EST_CERT_USAGE, EST_CERT_USEAGE_2, EST_CERT_USAGE_3 specify the list of services for which the identity certificate assigned to the EST profile should be assigned.
Must be a comma-separated list, case-insensitive.
Available services:
SIP, PROVISIONING, 8021X, LDAP, RINGCENTRAL, PUSH, PPM, XSI, SYSLOG, ALL
"All" - means that all allowed services will be assigned. (Default)
It also possible to exclude one service using "!" before service name in the list. (for example "All,!SIP" will assign all available services except sip)
Note: It is not possible to assign a identity certificate to EST or SCEP service. The identity certificate associated with the SCEP or EST certificate profile will be used.
This parameter is supported by:
J100 SIP R4.2.0.0 and later
SET EST_CERT_USAGE !8021x
##
EST_CERT_REENROLL_INTERVAL, EST_CERT_REENROLL_INTERVAL_2, EST_CERT_REENROLL_INTERVAL_3 specifiy the percentage of the

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```
## respective identity certificate's Validity interval after which Enrollment over Secure Transport (EST) reenroll procedures will be
initiated.
## Valid values are 1 through 99; the default value is 90.
## Note: reenrollment will replace the identity certificate public and private key pair.
## This parameter is supported by:
##      J100 SIP R4.2.0.0 and later
## SET EST_CERT_REENROLL_INTERVAL 50
##
## DELETE_EST_CERT, DELETE_EST_CERT_2, DELETE_EST_CERT_3 specify whether the installed identity certificate, from the respective
EST profile, will be deleted
##  Value  Operation
##    0    Installed identity certificate will not be deleted, it will remain valid (Default)
##    1    Installed identity certificate will be deleted, the certificate specified by the respective EST URL will not be installed
## This parameter is supported by:
##      J100 SIP R4.2.0.0 and later
## SET DELETE_EST_CERT 1
##
## EST_CERT_KEY_TYPE, EST_CERT_KEY_TYPE_2, EST_CERT_KEY_TYPE_3 specify if ECC keys will be generated for the respective EST
certificate request.
##  Value  Operation
##    0    ECC keys will not used. RSA keys will be used as defined by: EST_CERT_KEYLEN(Default)
##    1    secp256r1
##    2    secp384r1
## Note: Changing thr value will take effect during next scheduled EST enrollment or reenrollment
## This parameter is supported by:
##      J100 SIP R4.2.0.0 and later
## SET EST_CERT_KEY_TYPE 2


################################################################
##
## 96xx, J100, H1xx SIP SETTINGS
## Settings applicable only to 96xx, J100 and H1xx Video collaboration Station
## running the SIP protocol
##
################################################################
##
## CCI_MODE A binary toggle that activates CCI logic on the endpoint.
## When enabled, it changes the device signaling architecture by decoupling the PPM service
## from the Signaling service (SM/SBC).
## Value Operation
## 0 disabled (default)
## 1 enabled
## This parameter is supported by:
## J100 SIP R4.2.0.0 and later
## SET CCI_MODE 0
##
## CLIENT_CONFIG_FQDN Specifies the URL or a list of URLs for the CCI Endpoint.
## Default is "" (empty string).
## This parameter is supported by:
## J100 SIP R4.2.0.0 and later
## SET CLIENT_CONFIG_FQDN https://cci.example.com
##
## ENABLE_PUBLISH_MAC_ADDRESS Controls the reporting of the device hardware MAC address in the
## +av.mac-address SIP Contact header field.
## This provides dispatchable location for emergency services in Avaya Aura environments.
## The active interface MAC (Ethernet or Wi-Fi) is reported. Independent of X-switch-info
## location reporting.
## Value Operation
## 0 Disabled (default). The +av.mac-address field is not included.
## 1 Enabled. The hardware MAC is included in the Contact header of SIP REGISTER (always) and
## SIP INVITE (when logged out only).
## Changing this setting requires log off and SIP re-registration.
## This parameter is supported by:
## J100 SIP R4.2.0.0 and later
## SET ENABLE_PUBLISH_MAC_ADDRESS 0
##
## SIPSHA256 A security parameter containing a pre-calculated SHA-256 hash of the user
```

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```
## credentials (username:realm:password).
## It allows the phone to authenticate and register for SIP services securely without storing
## or transmitting plain-text passwords.
## This follows the same logic as the legacy SIPHA1 parameter but uses the SHA-256 algorithm.
## Used with SIPUSERNAME for Force Login in CCI/Nexus environments.
## Default is "" (empty).
## This parameter is supported by:
## J100 SIP R4.2.0.0 and later
## SET SIPSHA256
##
## RESTORE_H323_CONTACTS_ALLOWED Specifies if the SIP user is allowed to restore their H323
## contacts stored on a file server via BRURI.
## This parameter is intended for scenarios where J100 and 96x1 H323 phones were using the
## BRURI parameter to store the users contacts to <extension>_96xxdata.txt.
## When this parameter is Manual the user must initiate Menu > Settings > Applications >
## Contacts > Restore contacts.
## If H323 contacts are found they will restore to an already empty contacts list on the users
## SIP phone.
## When this parameter is Automatic, on SIP login, if H323 contacts are found they will restore
## to an already empty contacts list.
## This parameter is ignored if BRURI is not defined.
## Value Operation
## 0 Not allowed (default)
## 1 Manual
## 2 Automatic
## This parameter is supported by:
## J100 (J139, J159, J169, J179 and J189) SIP R4.2.0.0 and later
## SET RESTORE_H323_CONTACTS_ALLOWED 0
##
## EXACT_SIP_DOMAIN_COMPARISON Controls how the phone compares the remote party SIP domain with
## the user configured SIP domain (SIPDOMAIN) when normalizing addresses for call log display
## and callback.
## When enabled (1), domains must match exactly (current J100 behavior).
## When disabled (0), case-insensitive suffix match is used: one domain is accepted if it is a
## suffix of the other.
## Disabled does NOT skip comparison - partial/suffix comparison still applies.
## Value Operation
## 0 Disabled. Suffix (case-insensitive) domain comparison is used.
## 1 Enabled. Exact string domain comparison is used (default)
## This parameter is supported by:
## J100 SIP R4.2.0.0 and later
## SET EXACT_SIP_DOMAIN_COMPARISON 1
##

###################### WIFI SETTINGS ######################
##
## WLAN_DFS_ENABLE specifies if Dynamic Frequency Selection (DFS) Wifi channels are to be used in addition to regional channels.
##  Value  Operation
##    0    DFS channels are disabled (default)
##    1    DFS channels are enabled
##  This parameter is supported by:
##      J100 SIP R4.2.0.0 and later
## SET WLAN_DFS_ENABLE 1
```

Changed parameters

```
#################################################################
##
## 96xx/96x1/H1xx/J129/J139/J159/J169/J179/J189 SIP TELEPHONE SETTINGS
##
#################################################################
##
## SIP_CRLF_PING_INTERVAL If SIP_CRLF_PING_ENABLE is enabled then specifies the number of
## seconds the phone will wait before sending a SIP Ping Keep Alive.
##
## Value Range
## 10 - 840
```

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```
## This parameter is supported by:
## J100 SIP R4.1.7.0 and later
## J100 SIP R4.2.0.0 and later (minimum value 10; PPM source added)
## SET SIP_CRLF_PING_INTERVAL 10
##
## SIPUSERNAME Specifies the SIP username used for authentication.
## Aura: used for SSO authentication in combination with SIPHA1.
## Nexus: used for Force Login in combination with SIPSHA256.
## settings file source is added for this parameter which will be used in Nexus only for Force
## Login together with SIPSHA256.
## Default is "" (empty).
## This parameter is supported by:
## J100 SIP R4.2.0.0 and later (settings file source added for Nexus Force Login)
## SET SIPUSERNAME
##

## CUSTOM_PROVISIONING_URL Specifies an absolute URL to an optional customer hosted provisioning file containing customer
##  specific settings.
## Both http and https schemes can be used. Includes hostname or IP address, port(optionally) and path.
## If port is not defined, 80 port is used for HTTP and 443 for HTTPS by default.
## If credentials are required they must be defined in the url.
##  MACROS, which will be replaced if found:
##     "$SERIALNO" which will be replaced by the telephone's serial number in UPPERCASE, or
##     "$MACADDR"  which will be replaced by the telephone's MAC address without colons in lowercase, or
##     "$MODEL4"   which will be replaced by the telephone's 4 character model number in UPPERCASE.
##  Note: The custom provisioning file that references additional downloadable resources (such as BACKGROUND_IMAGE, etc)
##  must also include an Absolute URL.
##  Note: When this parameter is set using the 46xxsettings.txt file, it is stored on the phone as if it were manually configured through
##       the phone Menu > Administration  > IP configuration > Servers > Custom URL menu.
##       This value will remain unchanged even if the phone later connects  to a provisioning server that does not specify a
##       CUSTOM_PROVISIONING_URL.
##  This parameter is supported by:
##     J100  SIP  R4.1.4.0 and later
## SET CUSTOM_PROVISIONING_URL https://example.com:6443/J100/MyConfig.txt
```

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