



Avaya J100 Series SIP Release 4.0.6.1 Readme

This file is the Readme for the Avaya J100 Series SIP Release 4.0.6.1 software (J100 SIP 4.0.6.1). This file describes the contents of the Aug 2020 (**4.0.6.1.6**) release software distribution package.

J100 SIP 4.0.6.1 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 4.0.6.1 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 4.0.6 software are supported with:

- Avaya Aura® Platform 7.0.0.0 (Avaya Aura® Communication Manager 7.0.0.0, Avaya Aura® Session Manager 7.0.0.0, Avaya Aura® System Manager 7.0.0.0) and associated service packs
 - **Refer to the Advisement section for known limitations if not using 7.1.3.3 or above.**
- Avaya Aura® Platform 7.0.1.0 (Avaya Aura® Communication Manager 7.0.1.0, Avaya Aura® Session Manager 7.0.1.0, Avaya Aura® System Manager 7.0.1.0) and associated service packs
 - **Refer to the Advisement section for known limitations if not using 7.1.3.3 or above.**
- Avaya Aura® Platform 7.1.0.0 (Avaya Aura® Communication Manager 7.1.0.0, Avaya Aura® Session Manager 7.1.0.0, Avaya Aura® System Manager 7.1.0.0, Avaya Aura® Presence Services 7.1.0.0) and associated feature/service packs
 - **Refer to the Advisement section for known limitations if not using 7.1.3.3 or above.**
- Avaya Aura® Platform 8.0.0.0 (Avaya Aura® Communication Manager 8.0.0.0, Avaya Aura® Session Manager 8.0.0.0, Avaya Aura® System Manager 8.0.0.0, Avaya Aura® Presence Services 8.0.0.0) and associated feature/service packs
 - **Refer to the Advisement section for known limitations if not using 8.0.1.0 or above.**
- Avaya Aura® Platform 8.1.2.0 (Avaya Aura® Communication Manager 8.1.2.0, Avaya Aura® Session Manager 8.1.2.0, Avaya Aura® System Manager 8.1.2.0, Avaya Aura® Presence Services 8.1.2.0) and associated feature/service packs
- 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 (1Q2021)
 - **Refer to IP Office documentation for specific compatibility.**
- Avaya Cloud Office by RingCentral 2.0 (current release available is 4.0.5.0)
 - **J129/J189 are not supported on ACO at this time**
- Avaya Aura® Call Center Elite 7.0.1.0¹, 7.1.0.0¹, 8.0.0.0¹, 8.1.0.0¹

¹ J169/J179/J189 IP Phone are supported with CC Elite. The J129/J139/J159 IP Phones are not supported with CC Elite.

- OpenSIP Platforms
 - Broadsoft Broadworks R22.0
 - Zang Office R1.0
 - Asterisk R16
 - FreeSWITCH 1.8.5
 - Netsapiens 40
 - RingCentral 20.2 (J139, J159, J169, J179, JEM24 only)
 - Metaswitch CFS V9.5

Refer to <https://secureservices.avaya.com/compatibility-matrix/menus/product.xhtml?name=J100+-+SIP&version=4.0> for an up-to-date listing of compatible products.

New Features in J100 SIP 4.0.6.1

Avaya J100 Series SIP Release 4.0.6.1 contains the following new features.

New with this release	Description
J189 SIP	<p>J100 Release 4.0.6.1 introduces support for the J189 IP Phone.</p> <p>The J189 is a high end model in J100-series offering maximum capability and flexibility. Supports all functionality of J179 like color display, JEM support, Bluetooth and Wifi. It has :</p> <ul style="list-style-type: none"> • Dual Port RJ45 10/100/1000 • Larger and higher resolution 5.0" color main display • 2.3" Secondary color display • Dedicated call hard release key • Type A and C USB (currently for charging only) • Supports option 2 x JEM24 • Supports options J100 wireless module • RJ9 with integrated Electronic HookSwitch

Documentation for J100 SIP 4.0.6

The following documentation has been updated for this release:

- [J100 Series IP Phone Overview and Specifications](#)
- [Using Avaya J189 IP Phone SIP](#)
- [Using Avaya J189 IP Phone in an Open SIP environment](#)
- [Avaya J189 IP Phone in an Open SIP environment Quick Reference Guide](#)
- [Avaya J189 IP Phone Quick Reference](#)

The following documentation has not been updated for this release:

- [Installing and Administering Avaya J100 IP Phones](#)
- [Installing and Administering Avaya J100 Series IP Phones in an Open SIP environment](#)
- [Using Avaya J129 IP Phone SIP](#)
- [Using Avaya J139 IP Phone SIP](#)
- [Using Avaya J169/J179 IP Phone SIP](#)
- [Avaya J129 IP Phone Quick Reference](#)
- [Avaya J139 IP Phone Quick Reference](#)
- [Avaya J169/J179 IP Phone Quick Reference](#)
- [Using Avaya J100 series IP Phone for Call Center Agents](#)
- [Avaya J129 IP Phone in an Open SIP environment Quick Reference guide](#)
- [Avaya J139 IP Phone in an Open SIP environment Quick Reference guide](#)
- [Avaya J169/J179 IP Phone in an Open SIP environment Quick Reference Guide](#)
- [Using Avaya J129 IP Phone in an Open SIP environment](#)
- [Using Avaya J139 IP Phone in an Open SIP environment](#)
- [Using Avaya J169/J179 IP Phone in an Open SIP environment](#)
- [Using Avaya J100 Expansion Module](#)

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 4.0.x” -> Documents. They are also available on <https://documentation.avaya.com> under “J100 Series Phones”.

J100 SIP 4.0.6.1 (4.0.6.1.6) Package Content

The J100 SIP 4.0.6.1 package (J100-IPT-SIP-R4_0_6_1-082820.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 4.0.6.1 software.

- FW_S_J129_R4_0_6_1_6.bin – application binary file for J129
- FW_S_J139_R4_0_6_1_6.bin – application binary file for J139
- FW_S_J159_R4_0_6_1_6.bin – application binary file for J159
- FW_S_J169_R4_0_6_1_6.bin – application binary file for J169
- FW_S_J179_R4_0_6_1_6.bin – application binary file for J179
- FW_S_J189_R4_0_6_1_6.bin – application binary file for J189
- FW_JEM24_R1_0_1_0_14.bin – application binary file for the JEM24
- J100Upgrade.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-J100iPhone-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 092018.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 4.0.6 software

J129/J139/J159/J169/J179/J189 – Aura Feature Provisioning Limitations

Avaya Aura® Communication Manager 7.1 and below does not provide native support of the J129/J139/J159/J169/J179/J189 IP Phones. The J129 should be administered as a “9608SIP”, the J139 as a “9608SIP”, the J159 as a “9608SIP” with single expansion module, the J169, J179 and J189 as a “9611SIP” or “9611SIPCC”.

Avaya Aura® 8.0.1 provides native support of the J129/J169/J179 IP Phones. The J139 should be administered as J169. The J159 should be administered as a J169 with single expansion module and the J189 should be administered as a J179 with at least one expansion module, two or more if a JEM is attached.



When using Avaya Aura® 7.1 (and below) and J100 4.0.0.1 (and below) there are feature administration limitations. **See the table below for further details.**

Service Packs to allow for administration of J100-Series IP Phones on Avaya Aura® 7.1.3.3 have been provided by Avaya. Avaya strongly recommends that all customers using J100-series IP Phones upgrade to these service packs.

There are two software components to deliver this solution:

1. A System Manager 7.1.3.3 Service Pack identified via [PCN2062Su](#).
2. A Session Manager 7.1.3.3 Service Pack identified via [PCN2068Su](#).

Session Manager PSN [PSN005267u](#) details the main operational changes and a list of things that should be considered when rolling out this solution, including some differences that may be seen when both J100-Series IP Phones and 9600-Series IP Phone are used within the same environment.

Note: Be sure to read the PSN before rolling out the software changes to the servers

NOTE: For releases prior to Avaya Aura® 8.1.1, it is recommended that all endpoints for a specific user be of the same device family. A single user can have multiple J100-series IP Phones, or multiple 9600-series IP Phones, but it is not acceptable for a single user to have a mix of the two series associated with the same extension. If this occurs, only the button/profile settings for the configured endpoint type in CM can be modified via the System Manger user interface. **Avaya Aura® 8.1.1 or later allows for a specific user to have a mix of J100-series IP Phones and 9600-series IP Phones.**

The following two tables highlight the experience that end users and administrators will see when using J100 IP Phones with J100 SIP software on various releases of Avaya Aura®.

Avaya Aura® configuration	What to expect when a user logs in for the very first time	What to expect when SMGR Add, Move Features and Autodials after user has logged in	What to expect when user changes a label on their phone
Avaya Aura® 7.1.3.2 or earlier (J100 aliased as a 9600)	<p>All features and auto dials will show on the phone and button module at the line locations as defined in SMGR.</p> <p>Labels defined in SMGR will NOT show – i.e phone will show default labels.</p>	<p>New Favorite features/pre-configured autodials will NOT show up on Phone screen.</p> <p>Moved Favorite feature/auto-dial will NOT show up in the phone screen and will cause the original key to disappear.</p> <p>NOTE: J100 4.0.0.1 includes a new configuration parameter (SMGR_AUTO_FAVORITE) which will auto populate Features/Autodials if less than Aura 8.0.1 and added/moved keys will not disappear.</p>	Label change will NOT show in SMGR.
Avaya Aura® 7.1.3.3 (J100 aliased as a 9600)	All features and auto dials and labels will show on the phone and button module at the line locations as defined in SMGR.		Label change will show in SMGR
Avaya Aura® 8.0.1 or later (J100 native)	<p>Features and auto dials marked as favorites will show on the phone and button locations.</p> <p>Features not marked as favorites will only show in the Feature menu. Pre-configured Autodials not marked as Favorites will show up only during end user customization.</p> <p>The phone will show the labels defined on keys marked as Favorites in SMGR on the Phone</p>	<p>New Favorite features/pre-configured autodials will show up on Phone screen.</p> <p>Moved Favorite feature/auto-dial will show up in the phone screen.</p>	

Avaya Aura® configuration	What to expect when a user moves/adds a feature / auto dial to a different line location on the phone	What to expect when a user deletes a feature / auto dial using customization.	What to expect when user does a Customization -> Restore
Avaya Aura® 7.1.3.2 or earlier (J100 aliased as a 9600)	Change will not show in SMGR (similar behavior as SIP 9600-series)	No change in SMGR.	All features and autodials will show on the phone and button module at the line locations defined in SMGR.
Avaya Aura® 7.1.3.3 (J100 aliased as a 9600)			Phone will show default labels. No change in SMGR.
Avaya Aura® 8.0.1 or later (J100 native)		Feature favorite flag will be unchecked in SMGR	All features and autodials marked as favorites will show on the phone and button module at the line locations.
Avaya Aura® 8.1.1 or later (J100 native)	Changes will be reflected in the SMGR Endpoint editor "phone view" tab.		No change in SMGR. Phone will show labels as defined in SMGR.

Avaya Aura® – Busy Indicator – does not work on Aura 8.0 to Aura 8.1.0



J100 SIP 4.0.2.0 adds support for Busy Indicator on Avaya Aura® with the J169 and J179 IP Phones. A maximum of 48 Busy indicators are supported. This functionality will work on Avaya Aura® 7.x when the J169/J179 are aliased as noted above. This functionality will NOT work on Avaya Aura® 8.0 to Avaya Aura® 8.1.0 when the J169/J179 are natively supported. Avaya Aura® 8.1.1 supports the busy-ind button for J169/J169CC/J179/J179CC.

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.

J159/J169/J179/J189 IP Phones – Avaya Aura® – Feature Buttons on Main Screen

When deploying a J159/J169/J179/J189 IP Phone on Avaya Aura®, there are three ways to make feature buttons appear on the main screen:

- If using Avaya Aura® 7.1.3.3 or later, tag them as a "Favorite" in SMGR
- Use the SET PHONEKEY parameter in the 46xxsettings.txt file (either for all cases, or on a group basis, or on a MAC-specific basis)
- Use the end-user ability to relayout the 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 1.5.0 and later includes support for IPv6 interworking. The following are known limitations of the J100 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
 - RTCP
 - 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 both SHA-1 and SHA-256 digital signatures. J100 SIP software is capable of SHA-1 and SHA-256 digital signature verification.

Utility Server 7.1 is the minimum software version required to install J100 4.0.6.1 zip packages

Earlier version of the Utility Server are not able to install J100 SIP 4.0.6.1 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

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™. The use of Fully Qualified Domain Names (FQDN) is only supported in IP Office and OpenSIP environments. 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.

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](http://support.avaya.com)" which is available on <http://support.avaya.com> for known limitations.

Language support

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

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"² 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 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 algorithm. 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)

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.

"Desk Phone" Mode and Lock

² J129 does not support a headset

Avaya one-X® Communicator, Avaya Equinox 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 1.2

J100 software supports TLS 1.2 and adds includes cipher suites FIPS:!ADH:!DSS:-SSLv3:DHE-RSA-AES256-SHA:AES256-SHA:DHE-RSA-AES128-SHA:AES128-SHA.



J100 software also includes a configuration parameter (TLS_VERSION) which can be used to configure the IP Phone to only use TLS 1.2. Care must be taken to only use this parameter when all components to which the IP Phone will communicate can also support TLS 1.2.

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 have the ability to 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/J159 Phone

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

- WML browser,
- Interworking with Contact Center Elite (CC Elite)
- Bluetooth

J129 with IP Office – Features supported

The following features are supported by the Avaya IX™ 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 IX™ 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
- Authorisation 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 not 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 / Authorisation 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 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
- Authorisation 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 / Authorisation 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

J189 with IP Office – not supported at this time

- J189 IP Phone is not supported on IP Office at this time.

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

Improved in Release 4.0.2.0 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.

In Aura and OpenSIP environments it is recommended to use either WebUI or 46xxsettings.txt but not both.

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.

J189 Codec limitations - Opus

The Opus codec is disabled only for J189 in R4.0.6.1. This will be enabled in a near term software update.

J100 4.0.6.1 Resolved Issues (since J100 4.0.6.0)

The following table includes issues which are resolved with this release of software compared to J100 4.0.6.0.7

External ID	Internal ID	Issue Description
Avaya Aura®		
SR 1-14595953813	SIP96X1-71609	Auto dial button doesn't appear on the phone
	SIP96X1-81810	Incoming call is hidden when there is no WML push after a WML push on a previous incoming call=1
Open SIP		
	SIP96X1-82862	Attended Call Transfer fails and One-Way Speech with specific ALG
	SIP96X1-82541	Music On Hold is not heard with specific ALG
IP Office		
	SIP96X1-81650	On Resiliency FallBack, J129 goes to "Acquiring service" state
All Platforms		
Web User Interface		
Bluetooth		

Unresolved issues in J100 4.0.6.1

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®		
	SIP96X1-44373	Popup message "SIP proxy list is empty" is displayed after changing SIP Proxy Policy from Manual to Automatic <i>work-around: Navigate to Admid->SIP->SIP Proxy list</i>
	SIP96X1-52864	Crisis Alert/call-pickup/team tone continues with auto-answer after answer
	SIP96X1-53719	J129 phone does not changed feature when replace this feature on SMRG
	SIP96X1-58928	Exclusion green led is still ON although exclusion is not in enabled state
	SIP96X1-76568	ENHDIALSTAT = 3 is applicable on Aura when it should not be
IP Office™		
	SIP96X1-35056	J169/J179 phones require additional reboot to function normally in IPO-CCMS environment if they get incorrect SIP proxy IP in previous reboot.
	SIP96X1-36922	J129 – IPO - Phone A displays "Acquiring service" and Phone B cannot login to phone A when phone B tries to log into phone A's extension
CCElite / Contact Center		
	SIP96X1-59045	Aux Work's LED keeps flashing although the agent-ID is logged out. <i>work-around: login agent-id then press the Aux work button</i>
	SIP96X1-65905	When Agent is logged in, using Web UI/Manage/Update does not automatically log the agent back in.
	SIP96X1-66565	Phone does not remove vu-stats information follow value of displaytimeout parameter.
Open SIP		
	SIP96X1-43220	[Broadsoft] Unable to login as BroadWorks user with error of "acquiring service" when application server FQDN address is given in SIP_CONTROLLER_LIST2 <i>work-around: Open SIP over IPv6 is not supported, use SIP_CONTROLLER_LIST</i>
	SIP96X1-41164	HTTP redirect to HTTPS fails certificate validation, connection fails <i>work-around: reconfigure phone URL to HTTPS</i>

External ID	Internal ID	Issue Description
	SIP96X1-45650	Phone does not use XSI SIP User ID which is set from Web UI for XSI authentication on fresh login <i>work-around: manually input SIP user ID</i>
	SIP96X1-44653	[Broadsoft] The led of some features (call unpark, call waiting, call forward,..) blinking incorrectly when phone reestablished Broadsoft XSI event channel
	SIP96X1-49886	[Broadsoft] J100 phones send cancel request for early conference if XSI is configured on phone.
	SIP96X1-49887	While creating conference call J100 phones displayed toast 'select a participant' second time after pressing 'Join' SK.
	SIP96X1-53909	Red led still glow after replacing feature with application by Web pre-configuration
	SIP96X1-57840	[Broadsoft 3PCC] No voice speech path when the phone receives the call transferred. (Meet-me conference) <i>work-around: Phone-B transfers (attended transfer) the call to phone-C.</i> OR <i>On phone-C, press "hold/resume" the call.</i>
	SIP96X1-59537	[PreConfigKeys] 3PCC Autodials: User customization lost if a new PHONEKEY definition is added or removed at a smaller line key
	SIP96X1-61421	Cannot add new BLF/Autodial key after removing BLF keys on Web <i>work-around: reset phone to default</i>
	SIP96X1-65658	Auto-Call-Back is not working in metaswitch
	SIP96X1-66339	Phone can not register to server when configuration NAPTR record.
	SIP96X1-66640	Do not to use Web UI>Environment Settings>3PCC Server Mode = Netsapiens even though it shows, use generic
	SIP96X1-68801	Phone does not store HTTP realm when credentials are preprovisioned <i>work-around: manually input credentials when phone get challenged from server</i>
	SIP96X1-72619	J100 Unable to authenticate XSI via SIP when using large SIP password <i>work-around: re-define the SIP Password in broadsoft portal User>Utilities>Authentication and define smaller password. Rebooting the phone logs in SIP and XSI successfully.</i>
	SIP96X1-79325	[Broadsoft] The phone doesn't display dialed number and save call log when automatic dialing invalid number
	SIP96X1-81332	Line key of BLF calls BLF when Barge-in is disabled.
All Platforms		

External ID	Internal ID	Issue Description
	SIP96X1-33023	Unable to gracefully recover phone when lost WIFI on active call
	SIP96X1-41860	J129 "Redial" softkey disappears on dialing screen after calling to phone which activated feature "CFW all"
	SIP96X1-37721	Phone displays restarting forever after clearing phone <i>work-around: restart the phone</i>
	SIP96X1-51611	[WML - Call pickup] Phone doesn't display main screen after exiting WML idle page
	SIP96X1-64828	Phone does not respond to call pickup and Team calls while screensaver in ON
Web User Interface		
	SIP96X1-45911	Phone can not upgrade firmware on WEB UI via IPv6.
	SIP96X1-51515	Phone is rebooting after save if some parameters on wifi web page are changed
	SIP96X1-52583	Changing "No Digit Dial Timer" value on WEB UI doesn't apply immediately on phone
	SIP96X1-53165	Save Extension and show last extension do not save from WebUI <i>work-around:save it from Phone UI</i>
	SIP96X1-59350	can add certificate but cannot delete if the certificate's name has a space on Web browser.
	SIP96X1-61251	[WebPreConfigKeys] Label updates incorrectly after deleting Label, then updating Label on webUI <i>work-around: restore phone customization</i>
	SIP96X1-61421	[WebPreConfigKeys] Cannot add new BLF/Autodial key after removing BLF keys on Web <i>work-around:reset phone to defaults</i>
	SIP96X1-61433	Cannot relabel BLF on Web UI <i>work-around:use settings file</i>
	SIP96X1-63655	Reboot of phone is required for setting parameter SCREENSAVER_IMAGE on web UI
	SIP96X1-67372	J100 phone cannot access WEB UI after user updates wrong .bin FW file. <i>work-around: upgrade/downgrade failure via web UI will require a phone reboot to recover the Web UI</i>
	SIP96X1-70926	Range Value in Help text for parameter SIG_PORT_RANGE is incorrect <i>Correction: Range in Parameter Help should be 32-60473</i>
	SIP96X1-71359	BLF lines keep appearing even user has deleted them on Web UI
	SIP96X1-78475	phone lost provisioning info from DES after downgrade to 4.0.4.0 from Web UI <i>work-around:downgrade from HTTP/S server</i>

External ID	Internal ID	Issue Description
	SIP96X1-81626	J179 - Language imported via Web will be lost after multiple reboots <i>work-around: set language in 46xxsettings.txt file</i>
Bluetooth		
	SIP96X1-53498	Phone can still perform the call from speed dial when Bluetooth device is turned off.
	SIP96X1-64785	[BT_CCMS] - BT devices work wrong when phone switch the active call.
	SIP96X1-66311	[BT - CCMS] - BT devices answer the unattend conference automatically.
	SIP96X1-66941	Intermittent - Phone resumes the held call automatically when there is a new call and it is canceled
	SIP96X1-78687	active call on BT headset is automatically placed on hold unexpectedly when BT is paired to PC and phone when PC receives incoming call
	SIP96X1-81437	The call is not answered by Bluetooth headset when WML push message is displaying before and after receiving a call and ENABLE_WMLPUSH_ALERTING = 1
	SIP96X1-81485	WML push message sent while not logged in is displayed after phone is logged in.
Button Module (JEM24)		
	SIP96X1-52618	JEM24 not upgrading automatically to 1.0.1.0.7 or reporting wrong JEM24 version <i>work-around: Power cycle the phone</i>
	BUTTONMODULE-426	JEM24 doesn't report upgrade failure in case of invalid fw file

Appendix 1 – Supported Hardware and Minimum Software Release

J100 SIP 4.0.6.1 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 (*) are either end-of-sale or pending end-of-sale 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	
700515186	J129 IP PHONE 5V ENCRYPTION DISABLED	J129D03X	
700514814	J129 IP PHONE 5V 3PCC	J129D03A	
700513916	J139 IP PHONE	J139D01A	
700515187	J139 IP PHONE ENCRYPTION DISABLED	J139D01X	
700513917	J139 IP PHONE 3PCC	J139D01A	
700513918	J139 IP PHONE TAA	J139D01A	
700512394	J159 IP PHONE	J159D01A	
700515188	J159 IP PHONE ENCRYPTION DISABLED	J159D01X	
700512395	J159 IP PHONE TAA	J159D01A	
700512970	J159 IP PHONE 3PCC	J159D01A	
700513634	J169 IP PHONE NO PWR SUPP	J169D01A J169D01B	
700515189	J169 IP PHONE ENCRYPTION DISABLED	J169D01X	
700513635	J169 IP PHONE TAA	J169D01A J169D01B	
700513636	J169 IP PHONE 3PCC	J169D01A J169D01B	
700514468	J169 IP PHONE GLBL NO PWR SUPP WH	J169D01A J169D01B	
700514757	J169 IP PHONE NO BEZEL	J169D01A J169D01B	
700513569	J179 IP PHONE NO PWR SUPP	J179D02A J179D03A	
700515190	J179 IP PHONE ENCRYPTION DISABLED	J179D02X	
700513629	J179 IP PHONE TAA	J179D02A J179D03A	
700513630	J179 IP PHONE 3PCC	J179D02A J179D03A	
700514469	J179 IP PHONE GLBL NO PWR SUPP WH	J179D02A J179D03A	
700512396	J189 IP PHONE	J189D01A	
700512397	J189 IP PHONE TAA	J189D01A	
700512971	J189 IP PHONE 3PCC	J189D01A	

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 59	4.0.0.0.21	N/A
J139D01A	60 and greater	4.0.3.1.4	N/A
J159D01A	01	4.0.3.0.9	N/A
J159D01A	02 and greater	4.0.3.1.4	N/A
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 and greater	4.0.3.1.4	6.8.3.04
J189D01A	all	4.0.6.1.4	N/A

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	http://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

Appendix 3 – New and changed 46xxsettings.txt parameters

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

https://support.avaya.com/downloads/download-details.action?contentId=C201773928555860_8&productId=P1661

New parameters

```
## ENABLE_RANDOM RTP_PORT parameter enables random selection of RTP ports within the configured range.
##
## Value Operation
## If the value is 0, even numbered RTP ports starting at RTP_PORT_LOW will be used for all calls. (default)
## If the value is 1, an even numbered RTP port will be randomly selected in the range from RTP_PORT_LOW to
## RTP_PORT_LOW+RTP_PORT_RANGE each time an audio path is established (e.g. when a call is answered or a call is resumed).
##
## Notes
## To maximize the effectiveness of this setting, RTP_PORT_RANGE should be assigned a value much larger than the default of 40.
##
## This parameter is supported in all environments by:
## J100 SIP R4.0.6.1.6 and later
## Example
## SET ENABLE_RANDOM RTP_PORT 1
```

Changed parameters

NA

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