Avaya J100 Series SIP Release 4.0.14.0 Readme

This file is the Readme for the Avaya J100 Series SIP Release 4.0.14.0 Feature Pack software (J100 SIP 4.0.14.0). This file describes the contents of the July 2022 (**4.0.14.0.9**) release software distribution package.

J100 SIP 4.0.14.0 software is supported on the Avaya J129, J139, J159, J169, J179 and J189 IP Phones used with Avaya Aura®, Avaya IP Office™, and select OpenSIP platforms. J100 SIP 4.0.14.0 software will not load or operate on any other models.

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

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

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

Compatibility

The Avaya J129, J139, J159, J169, J179 and J189 IP Phones using J100 SIP 4.0.14.0 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 8.1.3.0 (Avaya Aura® Communication Manager 8.1.3.0, Avaya Aura® Session Manager 8.1.3.0, Avaya Aura® System Manager 8.1.3.0, Avaya Aura® Presence Services 8.1.3.0) and associated feature/service packs
- Avaya Aura® Platform 10.1.0.0 (Avaya Aura® Communication Manager 10.1.0.0, Avaya Aura® Session Manager 10.1.0.0, Avaya Aura® System Manager 10.1.0.0, Avaya Aura® Presence Services 10.1.0.0) and associated feature/service packs
- IP Office™ 10.0 SP7 / 10.1 SP3 (J129 only)
  - Refer to IP Office documentation for specific compatibility.
- IP Office™ 11.0 or later for J129/J169/J179
  - Refer to IP Office documentation for specific compatibility.
- IP Office™ 11.0 SP1 or later for J129/J139/J169/J179
  - IP Office™ 11.0 FP4 or later for support of Bluetooth on J179
  - Refer to IP Office documentation for specific compatibility.
- IP Office™ 11.0 FP4 SP2 or later for J159
  - Refer to IP Office documentation for specific compatibility.
- IP Office™ 11.1 FP1 or later for J189
  - Refer to IP Office documentation for specific compatibility.
- Avaya Aura® Call Center Elite 7.0.1.0[1], 7.1.0.0[1], 8.x[1], 10.1.0.0[1]

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

- 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&version=4.0 for an up-to-date listing of compatible products.

New Features in J100 SIP 4.0.14.0

Avaya J100 Series SIP Release 4.0.14.0 enables the following new features.

New with this release	Description
J100 SIP - JEM24 Custom screensaver/background	This feature provides ability to set a background/screen saver for JEM24, in particular a custom image. Similar to primary and secondary displays, adds ability to configure background and screensaver for JEM. Configuration option controlled by administrator, end user is able to select JEM background and screen saver from user menu (pre-defined or custom image).
ACO: RFC 5985 - HTTP-Enabled Location Delivery (HELD)	HTTP-Enabled Location Delivery (HELD) allows a device to obtain location information. This J100 feature implements a subset of the functionality of the HELD protocol. This J100 SIP IP Phone feature will introduce: • A new configuration parameter that defines the HELD URL • A new configuration parameter that defines the retry interval to be used when a non successful HELD request encountered • When the new configuration parameter is defined then on bootup the phone will perform a HELD locationRequest and provide its IP address and MAC address

New with this release	Description
Support SHA-256 digest authentication for SIP	Use of MD5 for SIP digest is obsolete. In the past there has been an exception for the use of MD5 with SIP since there was no standard for the use of any SHA based authentication but as of March 2020 there is now a standard - https://datatracker.ietf.org/doc/html/rfc8760
Cache PPM Proxy list	This feature will allow the J100 phone to cache the PPM SIP proxy list even if originally being redirected to different SIP proxies via SIP 301
Alternate SAC active icon which looks completely different to PS-DnD icon	This feature provides the ability to select the icon for SAC feature, since there was a request from customers to provide an icon which will look completely different than the Presence DnD icon
Support Hotline intercom feature	This feature has 2 parts: 1. Visual indication on phone user for call state of intercom call 2. Intercom Call Auto Answer Mode & Auto mute Combined the feature delivers the following behaviour: • on ringing state -the intercom feature GREEN LED button will FLASH on called party • Answer the call via Lift the handset ,Press Speaker, Press OK Button ,Press the Answer soft key ,Press Headset. On both Users the GREEN LED associate with feature will be stay steady ON for intercom feature button. • The intercom call will get answered automatically on called User with auto mute based on the incoming INVITE received from CM with "auto answer " & auto mute header. • Calling & called user has intercom feature button on each other . If calling user initiate a intercom call , the called user should able to answer the incoming intercom call by pressing flashing green LED on called user phone.
"Restart" from SIP Login screen	This feature will provide a "Restart" softkey on the SIP Login screen. When pressed, the phone will gracefully reboot showing the "Restarting..." screen.

Documentation for J100 SIP 4.0.14.0

The following documentation has been updated for this service pack:

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

The following documentation has not been updated for this service pack:

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

J100 SIP 4.0.14.0 (4.0.14.0.9) Package Content

The J100 SIP 4.0.14.0 package (J100-IPT-SIP-R4_0_14_0-092922.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 4.0.14.0 software.
In this release we have a new J189 Hardware version that requires a new FW image that is highlighted below. For more information please see Appendix 1.

- FW_S_J129_R4_0_14_0_9.bin – application binary file for J129
- FW_S_J139_R4_0_14_0_9.bin – application binary file for J139
- FW_S_J159_R4_0_14_0_9.bin – application binary file for J159
- FW_S_J169_R4_0_14_0_9.bin – application binary file for J169
- FW_S_J179_R4_0_14_0_9.bin – application binary file for J179
- FW_S_J189_R4_0_14_0_9.bin – application binary file for J189
- FW_S_J189A_R4_0_14_0_9.bin – application binary file for J189
- FW_JEM24_R1_0_1_0_22.bin – application binary file for the JEM24
- J100Supgrade.txt – This file is downloaded by the IP Phones and instructs the phone on how to upgrade to this version of software.
- Predefined language files for phone display:
    - Mlf_J129_BrazilianPortuguese.xml
    - Mlf_J129_CanadianFrench.xml
    - Mlf_J129_CastilianSpanish.xml
    - Mlf_J129_Chinese.xml
    - Mlf_J129_Dutch.xml
    - Mlf_J129_English.xml
    - Mlf_J129_German.xml
    - Mlf_J129_Hebrew.xml
    - Mlf_J129_Italian.xml
    - Mlf_J129_Japanese.xml
    - Mlf_J129_Korean.xml
    - Mlf_J129_LatinAmericanSpanish.xml
    - Mlf_J129_ParisianFrench.xml
    - Mlf_J129_Polish.xml
    - Mlf_J129_Russian.xml
    - Mlf_J129_Turkish.xml
    - Mlf_J139_Arabic.xml
    - Mlf_J139_BrazilianPortuguese.xml
    - Mlf_J139_CanadianFrench.xml
    - Mlf_J139_CastilianSpanish.xml
    - Mlf_J139_Chinese.xml
    - Mlf_J139_Dutch.xml
    - Mlf_J139_English.xml
    - Mlf_J139_German.xml
    - Mlf_J139_Hebrew.xml
    - Mlf_J139_Italian.xml
    - Mlf_J139_Japanese.xml
    - Mlf_J139_Korean.xml
    - Mlf_J139_LatinAmericanSpanish.xml
    - Mlf_J139_ParisianFrench.xml
    - Mlf_J139_Polish.xml
    - Mlf_J139_Russian.xml
    - Mlf_J139_Thai.xml

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

    - Mlf_J189_ParisianFrench.xml
    - Mlf_J189_Polish.xml
    - Mlf_J189_Russian.xml
    - Mlf_J189_Thai.xml
    - Mlf_J189_Traditional_Chinese.xml
    - Mlf_J189_Turkish.xml
- Eight extended Korean ring tone files:
    - KoreanRT1.xml
    - KoreanRT2.xml
    - KoreanRT3.xml
    - KoreanRT4.xml
    - KoreanRT5.xml
    - KoreanRT6.xml
    - KoreanRT7.xml
    - KoreanRT8.xml
- AvayaLanguageTool_SIP.xlsm – Excel tool for creating additional language files
- One certificate file:
    - av_prca_pem_2033.txt – Avaya Product Root CA certificate with an expiration date of 2033
- Avaya-J100IpPhone-MIB.mib – mib file
- release.xml
- A "signatures" subdirectory containing signature files and a certificate file. Both SHA-1 and SHA-256 signature files are included
- Avaya Global Software License Terms 062020.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 4.0.14 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)	All features and auto dials will show on the phone and button module at the line locations as defined in SMGR. Labels defined in SMGR will NOT show – i.e. phone will show default labels.	New Favorite features/pre-configured autodials will NOT show up on Phone screen. Moved Favorite feature/autodial will NOT show up in the phone screen and will cause the original key to disappear. 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.	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)	Features and auto dials marked as favorites will show on the phone and button locations. 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. The phone will show the labels defined on keys marked as Favorites in SMGR on the Phone	New Favorite features/pre-configured autodials will show up on Phone screen. Moved Favorite feature/autodial will show up in the phone screen.	

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. Phone will show default labels. No change in SMGR.
Avaya Aura® 7.1.3.3 (J100 aliased as a 9600)			
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. No change in SMGR.
Avaya Aura® 8.1.1 or later (J100 native)	Changes will be reflected in the SMGR Endpoint editor "phone view" tab.		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.

Adding Feature buttons on the Phone Screen in Avaya Aura™

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

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

Language Localization Software Tool and Localized Language Files

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

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

Limitations with IPv6

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

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

SSH – Remote Access (EASG)

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

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

Support for SHA2-signed software files

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

Utility Server 7.1 is the minimum software version required to install J100 4.0.14.0 zip packages

Earlier versions of the Utility Server are not able to install J100 SIP 4.0.14.0 software packages.

Support for OCSP

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

MLPP – Limitations during a server failure

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

Bi-Directional EHS – Compatible Headsets

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

Microsoft Exchange Integration using EWS

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

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

certificate is issued by an intermediate CA, all certificates from the intermediate CA up to the root must be included in TRUSTCERTS for installation on the phone so that the entire certificate chain is available for validation.

Debug mode

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

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

SIP_CONTROLLER_LIST

This parameter consolidates SIP controller parameters for IP address, port, and transport protocol into a single configuration parameter. The parameter setting should be a list of controller information where the format for each controller entry is "host:port;transport=xxx" . The host should be specified only by an IP address when interworking with Avaya Aura™. This applies to all sources of the SIP_CONTROLLER_LIST parameter which includes DHCP, LLDP, Web interface and the 46xxsettings.txt file.

Security Certificates – IP Address versus FQDN

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

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

SRTP (Media Encryption)

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

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

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

Multi Device Access

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

Language support

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

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

Ringtone and Ringtone Wave Files

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

Headset Profiles

J100 SIP 1.5.0.0 and later software supports "Headset Profiles"[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 algorithms. This has been certified for HTTPS usage for web-based administration of these phone sets. When the TLS server-client handshake is initiated, this IP Phone (operating as the client) is able to send its Identity certificate with an enhanced

[2] J129 does not support a headset

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.

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 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 can manually set a presence state.

VLAN separation

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

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

Features not supported on the J129 Phone

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

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

Features not supported on the J139 Phone

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

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

Features not supported on the J159 Phone

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

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

J129 with IP Office – Features supported

The following features are supported by the Avaya 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
- Authorization Code
- User BLF (*NOTE: Requires IP Office 11.0 FP4*)
- Group BLF (*NOTE: Requires IP Office 11.0 FP4*)

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

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

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

Advanced Call Presentation / Handling:

- MADN
- Bridged Appearances
- Coverage Appearances

IP Office Features/Status Menus:

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

Button configuration:

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

Others:

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

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

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

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

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

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

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

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

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

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

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

Advanced Call Presentation / Handling:

- MADN
- Bridged Appearances
- Coverage Appearances

IP Office Features/Status Menus:

- Advanced Call Pickup
- Advanced Call Park
- DND exceptions
- Account / Authorization Code
- Auto Answer Controls
- Withhold Number
- Coverage Ring Controls

- Advanced Hunt Group Controls: (Multi Membership, Group Status, Group Configuration)
- Self-Administration
- System Administration

Button configuration:

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

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

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

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

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

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

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

Provisioning of File Server Address

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

- DHCP

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

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

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

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

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

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

Note:

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

Preconfig keys considerations

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

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

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

Note: MDA groups must use the same preconfig.

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

PHONEKEY customization limitations

CCElite phones are not supported by PHONEKEY customization.

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

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

enabled, then Recents will be preserved on downgrade from 4.0.3.0 to older firmware versions.

Exchange Calendar Integration migrating to OAuth authentication

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

USB Headset support

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

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

Upgrade to SIP 4.0.10 and greater from SIP 4.0.8.0

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

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

JEM custom backgrounds and screensavers

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

J100 4.0.14.0 Resolved Issues (since J100 4.0.13.0.6)

The following table includes issues which are resolved with this release of software compared to J100 4.0.13.0.6

External ID	Internal ID	Issue Description
Avaya Aura®		
1-18704410962	SIP96X1-102278	When in failover mode with WAN down, reboot endpoint, after boot up the SIP proxy settings are lost.
1-18036626681	SIP96X1-100909	Scratchy Pumping Noise if user connects on Mobile and then attempts to takeover the call on Deskphone
1-17469314290	SIP96X1-97283	J169/J179 SIP does not turn LED on for missed call (intermittently).
Avaya Cloud Office™		
	SIP96X1-102610	Cannot perform park&page on BCA line when BCA line as a default SIP line is allowed
	SIP96X1-102545	Cannot install identity certificate from WEB UI on ACO
IP Office™		
CCElite		
Open SIP		
All Platforms		
1-18521095872	SIP96X1-101641	J179 phones running fw4.0.7.07 getting port access blocked, upon upgrading
1-18711458574	SIP96X1-101464	J1xx Send wrong DSCP values in RTCP

Unresolved issues in J100 4.0.14.0

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

External ID	Internal ID	Issue Description
Avaya Aura®		
	SIP96X1-44373	Popup message "SIP proxy list is empty" is displayed after changing SIP Proxy Policy from Manual to Automatic *work-around: Navigate to Admin->SIP->SIP Proxy list*
	SIP96X1-76568	ENHDIALSTAT = 3 is applicable on Aura when it should not be
	SIP96X1-85138	Event logging is not displayed when phone is controlled by SLAMon
Avaya Cloud Office™		
	SIP96X1-102800	J100 phone has no voice when making calls to the voice mail system using SRTP AES128_HMAC80 + G711A codec
IP Office™		
	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
Open SIP		
	SIP96X1-41164	HTTP redirect to HTTPS fails certificate validation, connection fails *work-around: reconfigure phone URL to HTTPS*
	SIP96X1-66640	Do not to use Web UI>Environment Settings>3PCC Server Mode = Netsapiens even though it shows, use generic
	SIP96X1-68801	Phone does not store HTTP realm when credentials are preprovisioned *work-around: manually input credentials when phone get challenged from server*
All Platforms		
	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
	SIP96X1-89301	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*

External ID	Internal ID	Issue Description
	SIP96X1-103406	[EAP-TLS] Failure: Unable to process mycert-01.p12 after upgrade to 4.0.13+, then downgrade to 4.0.12-, install the identity cert and then upgrade again to 4.0.13+ *work-around: reset the phone, then install the identity certificate*
Web User Interface		
	SIP96X1-45911	Phone cannot upgrade firmware on WEB UI via IPv6.
	SIP96X1-63655	Reboot of phone is required for setting parameter SCREENSAVER_IMAGE on web UI
	SIP96X1-78475	phone lost provisioning info from DES after downgrade to 4.0.4.0 from Web UI *work-around:downgrade from HTTP/S server*
	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		
	SIP96X1-53498	Phone can still perform the call from speed dial when Bluetooth device is turned off.
	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
Button Module (JEM24)		
	SIP96X1-82557	J189 with JEM, some Led keys remain lit after power set to low and JEM still attached
	BUTTONMODULE-426	JEM24 doesn't report upgrade failure in case of invalid FW file
USB		
	SIP96X1-84830	Phone auto holds active call if it has both USB and Bluetooth connection with Savi 8240 *work-around : Phone does not need both Bluetooth and USB connected, disconnect the one not being used.*
	SIP96X1-84450	Phone doesn't detect USB headset with USBPOWER = 2 after USBPOWER is changed from 1 to 2 *work-around: reboot one more time*

External ID	Internal ID	Issue Description
1-18520959632	SIP96X1-100996	J189 Type-C USB port cannot charge iPhones if charge < 60% *work-around: use the Type-A USB port (adapter req)*

Appendix 1 – Supported Hardware and Minimum Software Release

J100 SIP 4.0.14.0 software is supported on the following models of IP Phones. Models may ship from the factory with a different load of software pre-installed. As such, they should be upgraded to this release on first installation.

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

Comcode	Short Description	Model(s)	Replaced by
700512392 *	J129 IP PHONE	J129D01A	700513638
700513638 *	J129 IP PHONE NO PWR SUPP	J129D02A	700514813
700512969 *	J129 IP PHONE 3PCC W/O PWR SUPP	J129D01A	700513639
700513639 *	J129 IP PHONE 3PCC W/CERT	J129D02A	700514814
700514813 *	J129 IP PHONE 5V	J129D03A	700513916
700515186 *	J129 IP PHONE 5V ENCRYPTION DISABLED	J129D03X	700515187
700514814 *	J129 IP PHONE 5V 3PCC	J129D03A	700513917
700513916	J139 IP PHONE GLOBAL	J139D01A J139D01B	
700515187	J139 IP PHONE ENCRYPTION DISABLED	J139D01X	
700513917 *	J139 IP PHONE 3PCC	J139D01A J139D01B	700513916
700513918	J139 IP PHONE TAA	J139D01A J139D01B	
700514634	J139 IP PHONE ORANGE	J139D01A J139D01B	
700512394	J159 IP PHONE GLOBAL	J159D01A J159D01B	
700515188	J159 IP PHONE ENCRYPTION DISABLED	J159D01X	
700512395	J159 IP PHONE TAA	J159D01A J159D01B	
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	700513629

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

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

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

Model	Hardware Revision(s)	Minimum SIP Software	Minimum H.323 Software
J129D01A	all	1.0.0.0.43	N/A
J129D02A	01 to 07	2.0.0.0.45	N/A
J129D02A	08 and greater	3.0.0.1.6	N/A
J129D03A	01 to 11	4.0.2.0.8	N/A
J129D03A	12 and greater	4.0.3.1.4	N/A
J139D01A	01 to 05, 07, 08	3.0.0.0.20	N/A
J139D01A	06, 09 to 11	3.0.0.1.6	N/A
J139D01A	12 to 20	4.0.0.0.21	N/A
J139D01A	21 to 24	4.0.3.1.4	N/A
J139D01A	25 to 30	4.0.8.0.13	N/A
J139D01A	31 to 33	4.0.11.0.3	N/A
J139D01B	34 and greater	4.0.12.0.6	N/A
J159D01A	01 to14	4.0.3.1.4	6.8.5.02
J159D01B	15 and greater	4.0.12.0.6	6.8.5.32
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	6.8.5.32
J189D01A	01 and greater	4.0.6.1.4	6.8.5.02
J189D01B	TBD	4.0.12.1.x	6.8.5.3x

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

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

```
##
## ######################## LOGIN SETTINGS ########################
##
##
## RESTART_FROM_LOGIN specifies if the phone will present the user a "Restart" softkey on the Login screen.
##  Value  Operation
##    0    The phone will NOT provide a "Restart" softkey at the Login screen. (Default)
##    1    The phone will provide a "Restart" softkey at the Login screen.
##  This parameter is supported by:
##      J139, J159, J169, J179, J189 SIP 4.0.14.0 and later
## SET RESTART_FROM_LOGIN 1

##################### DISPLAY SETTINGS ####################
##
##
## SAC_ICON specifies the icon for SAC feature.
##  Value                       Operation
##    0                 DND style (default)
##    1                 SAC style
##  This parameter is supported by:
##      J139, J159, J169, J179, J189 SIP 4.0.14.0 and later
## SET SAC_ICON 1
##
## BACKGROUND_IMAGE_JEM_FOLLOW_PRIMARY specifies whether a JEM24 button module must use the same background images as
primary screen does.
## (this parameter overrides BACKGROUND_IMAGE_DISPLAY_JEM and BACKGROUND_IMAGE_SELECTABLE_JEM).
##  Value             Operation
##    0       JEM24 background image can be different from one on the primary screen
##    1       JEM24 background image will be same as the one on the primary screen (Default)
## This parameter is supported by:
##      J139, J159, J169, J179, J189 SIP 4.0.14.0 and later
## SET BACKGROUND_IMAGE_JEM_FOLLOW_PRIMARY 1
##
## BACKGROUND_IMAGE_DISPLAY_JEM specifies the administrator choice of JEM24 background image.
## The filename shall be one of the filenames listed in BACKGROUND_IMAGE_JEM.
## To select one of the seven built-in default images, specify a value from 0 to 6 for this setting
## where 0 corresponds to "Default image 1" and 6 corresponds to "Default image 7"
## If BACKGROUND_IMAGE_SELECTABLE_JEM is set to 1 then the end user may override this setting.
## The default value is "".
## This parameter is supported by:
##      J139, J159, J169, J179, J189 SIP 4.0.14.0 and later
## SET BACKGROUND_IMAGE_DISPLAY_JEM jem_background_example1.jpg
##
## BACKGROUND_IMAGE_SELECTABLE_JEM specifies whether end user is allowed to choose JEM24 background images
## (and overrides administrator choice as configured using BACKGROUND_IMAGE_DISPLAY parameter).
##  Value             Operation
##    0       End user is not allowed to choose background image
##    1       End user is allowed to choose the background image (Default)
## This parameter is supported by:
##      J139, J159, J169, J179, J189 SIP 4.0.14.0 and later
## SET BACKGROUND_IMAGE_SELECTABLE_JEM 1
##
## BACKGROUND_IMAGE_JEM specifies a list of background images for the JEM24.
##  The default value is "".
##          Up to 5 background images are supported. Only jpeg/jpg files are supported.
```

```
##  The maximum size of any jpeg file is 256 KB. The filenames are case insensitive.
##  JEM resolution is 272 pixels x 480 pixels. The maximum color depth is 16 bits.
##           The files shall be stored in the same directory defined by HTTPDIR / TLSDIR.
## This parameter is supported by:
##      J139, J159, J169, J179, J189 SIP 4.0.14.0 and later
## SET BACKGROUND_IMAGE_JEM "jem_background_example1.jpg,jem_background_example2.jpeg"
##
## SCREENSAVER_IMAGE_JEM_FOLLOW_PRIMARY specifies whether a JEM24 button module must use the same sreensaver image as
primary screen does.
## (this parameter overrides SCREENSAVER_IMAGE_DISPLAY_JEM and SCREENSAVER_IMAGE_SELECTABLE_JEM).
##  Value                Operation
##    0       JEM24 screensaver image can be different from one on the primary screen
##    1       JEM24 screensaver image will be same as the one on the primary screen (Default)
## This parameter is supported by:
##      J139, J159, J169, J179, J189 SIP 4.0.14.0 and later
## SET SCREENSAVER_IMAGE_JEM_FOLLOW_PRIMARY 1
##
## SCREENSAVER_IMAGE_DISPLAY_JEM specifies the administrator choice of JEM24 screensaver image.
## The filename shall be one of the filenames listed in SCREENSAVER_IMAGE_JEM.
## To select one of the seven built-in default images, specify a value from 0 to 6 for this setting
## where 0 corresponds to "Default image 1" and 6 corresponds to "Default image 7"
## If SCREENSAVER_IMAGE_SELECTABLE_JEM is set to 1 then the end user may override this setting.
## The default value is "".
## This parameter is supported by:
##      J139, J159, J169, J179, J189 SIP 4.0.14.0 and later
## SET SCREENSAVER_IMAGE_DISPLAY_JEM jem_screensaver_example1.jpg
##
## SCREENSAVER_IMAGE_SELECTABLE_JEM specifies whether end user is allowed to choose JEM24 screensaver images
## (and overrides administrator choice as configured using SCREENSAVER_IMAGE_DISPLAY parameter).
##  Value                Operation
##    0       End user is not allowed to choose screensaver image
##    1       End user is allowed to choose the screensaver image (Default)
## This parameter is supported by:
##      J139, J159, J169, J179, J189 SIP 4.0.14.0 and later
## SET SCREENSAVER_IMAGE_SELECTABLE_JEM 1
##
## SCREENSAVER_IMAGE_JEM specifies a list of screensaver images for the JEM24.
##  The default value is "".
##           Up to 5 screensaver images are supported. Only jpeg/jpg files are supported.
##  The maximum size of any jpeg file is 256 KB. The filenames are case insensitive.
##  JEM resolution is 272 pixels x 480 pixels. The maximum color depth is 16 bits.
##           The files shall be stored in the same directory defined by HTTPDIR / TLSDIR.
## This parameter is supported by:
##      J139, J159, J169, J179, J189 SIP 4.0.14.0 and later
## SET SCREENSAVER_IMAGE_JEM "jem_screensaver_example1.jpg,jem_screensaver_example2.jpeg"
##

#####################  AVAYA CLOUD OFFICE (ACO) SETTINGS  ##################
##
## HELD_URL specifies URL to Ring Central Location Information server.
##  Should start from "http://" or "https://". If the scheme not specified then "https://" will be used as the default scheme. No spaces, 0-
255 chars max
##  Default is "" (null)
##  This parameter is supported by:
##      J139, J159, J169, J179, J189 SIP 4.0.14.0 and later, only in ACO environment
##
## HELD_RETRY specifies the interval in seconds for retrying of HELD request in case of some errors.
##  Range: 60-3600
##  Default: 300
##  This parameter is supported by:
##      J139, J159, J169, J179, J189 SIP 4.0.14.0 and later, only in ACO environment
##
```

Changed parameters

none

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