



Avaya J100 Series SIP Release 4.1.10.0 Readme

This file is the Readme for the Avaya J100 Series SIP Release 4.1.10.0 Feature Pack software (J100 SIP 4.1.10.0). This file describes the contents of the Oct 2025 (**4.1.10.0.7**) release software distribution package.

J100 SIP 4.1.10.0 software is supported on the Avaya J129, J139, J159, J179 and J189 IP Phones used with Avaya Aura®, Avaya IP Office™, and select OpenSIP platforms. J100 SIP 4.1.10.0 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, J179 and J189 IP Phones using J100 SIP 4.1.10.0 software are supported with:

- Avaya Aura® Platform 10.1.0.0 (Avaya Aura® Communication Manager 10.1.0.0, Avaya Aura® Session Manager 10.1.0.0, Avaya Aura® System Manager 10.1.0.0, Avaya Aura® Presence Services 10.1.0.0) and associated feature/service packs
- Avaya Aura® Platform 10.2.x (Avaya Aura® Communication Manager 10.2.x, Avaya Aura® Session Manager 10.2.x, Avaya Aura® System Manager 10.2.x, Avaya Aura® Presence Services 10.2.x) and associated feature/service packs
- IP Office™ 11.0 or later for J129/J179
 - **Refer to IP Office documentation for specific compatibility.**
- IP Office™ 11.0 SP1 or later for J129/J139/J179
 - IP Office™ 11.0 FP4 or later for support of Bluetooth on J179
 - **Refer to IP Office documentation for specific compatibility.**
- IP Office™ 11.0 FP4 SP2 or later for J159
 - **Refer to IP Office documentation for specific compatibility.**
- IP Office™ 11.1 FP1 or later for J189
 - **Refer to IP Office documentation for specific compatibility.**
- IP Office™ 12.1 or later for IPv6
- Open SIP Platforms
 - Broadsoft Broadworks R22.0
 - Asterisk R16
 - FreeSWITCH 1.8.5
 - Netsapiens v41.2.2
 - Metaswitch CFS V9.5
- Avaya Cloud Office by Ring Central™

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

New Support in J100 SIP 4.1.10.0

The following new features are included in 4.1.10.0 Feature Pack:

Theme of this Service Pack	Description
TEAM button visual and audible alerting	J100 Series phone feature allows Audible Ringing and Visual Alert Notification to be toggled on or off depending on how the Team button is administered.
4096 SCEP RSA key length support	J100 feature extends SCEP Enrollment and Renewal to support 4096 key length using MYCERTKEYLEN
Emergency calling: use current transducer	J100 optional setting that allows use of the default transducer when the "Emerg" button is pressed from idle OR remain on the active transducer when the "Emerg" button is pressed or manually dialing emergency number(s)
User transducer volume cached locally to survive a reboot	Phone will store the user set volume levels locally and apply the same settings after phone reboots. This feature is new for IPO, ACO and OpenSIP environments.
ACO Selectable CallerID	ACO feature button allows the user to select a callerID just like the ACO soft client does.
Support automatic failback from BSM when BSM is inactive	Previously in datacenter outage scenarios, sometimes the CM comes up in the network earlier than SM. When CM comes up, LSP is deactivated and J100 unsubscribes from BSM. If SM is not available for registration, J100 keeps on sending subscription to BSM. When core SM comes up and the registration is successful, J100 does not move subscriptions back to core SM. It continues sending subscription to BSM, receives 503 response and stays in non-AST mode. In 4.1.10 with this feature the Phone will check the internal value of Failback Policy. If it is Admin, then phone will change internally to Auto. J100 will be in manual failback mode on initial failover to BSM but if it receives 503 for the subscription, it will change to automatic failback for recovery.
RTT - Support 3PCC servers	Real Time Text (RTT) supporting RFC 4103 on the J159 and J189 phones. These 2 phones have USB ports and support the usage of a USB keyboard for text entry.

Theme of this Service Pack	Description
Replace an Avaya Devices certificate obtained from DES before expiry	Existing Client Identity Certificates installed from DES (DES Client Identity Certificates) are set to expire in 2030. J100 will now trigger a DES Client Identity Certificate replacement (not renewal) at some point prior to expiry.
Fast application restart	With the Fast Application Restart feature in 4.1.10, instead of rebooting for the reasons below the phone performs a Fast Application Restart. The base platform will remain active/online and only the SIP application will restart. Prior to 4.1.10, the J100 SIP phone reboots when • a configuration parameter value changes and the parameter is a reboot parameter • detects a firmware upgrade is available via Check for Updates or Automatic Check for Updates • Menu > Settings > Network > Network mode is changed • Admin Menu > Restart phone • Web UI > Restart • SIP NOTIFY Event: check-sync;reboot

Documentation for J100 SIP 4.1.10.0

The following documentation has been updated for this release:

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

The following documentation has not been updated for this release:

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

The following Partner Configuration guides are included below for reference:

- [Broadsoft Partner Configuration Guide – J100 Series](#)
- [Asterisk Partner Configuration Guide – J100 Series](#)
- [FreeSWITCH Partner Configuration Guide – J100 Series](#)

These documents are available on <http://support.avaya.com> under “J100 Series IP Phones” -> “SIP 4.1.x” -> “Product Documents”. They are also available on <https://documentation.avaya.com> under “Phones and Devices” -> “Avaya J100 Series IP Phones”.

J100 SIP 4.1.10.0 (4.1.10.0.7) Package Content

The J100 SIP 4.1.10.0 package (J100-IPT-SIP-R4_1_10_0-102425.zip) contains all the files necessary to upgrade Avaya new or previously installed Avaya J129/J139/J159/J169/J179/J189 IP Phones to the J100 SIP 4.1.10.0 software.

Note: There is a second J189 Hardware version that requires a separate FW image. For more information please see [Appendix 1](#).

- FW_S_J129_R4_1_10_0_7.bin – application binary file for J129
- FW_S_J139_R4_1_10_0_7.bin – application binary file for J139
- FW_S_J159_R4_1_10_0_7.bin – application binary file for J159
- FW_S_J169_R4_1_10_0_7.bin – application binary file for J169
- FW_S_J179_R4_1_10_0_7.bin – application binary file for J179
- FW_S_J189_R4_1_10_0_7.bin – application binary file for J189
- FW_S_J189A_R4_1_10_0_7.bin – application binary file for J189
- FW_JEM24_R1_0_1_0_27.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 Jun-2024.pdf

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

[Appendix](#) 3 .

Advisements with J100 SIP 4.1.10 software

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



Customers who purchased “3PCC” versions of the J129/J139/J159/J169/J179/J189 hardware which are pre-configured for interworking with Open SIP. **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/J179/J189 IP Phones – Minimum software release

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

Adding Feature buttons on the Phone Screen in Avaya Aura™

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

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

Language Localization Software Tool and Localized Language Files

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

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

Limitations with IPv6

The following are known limitations of the J100 SIP 4.1.0 or later implementation:

- Open SIP Interoperability
- Extended rebind
- LLDP configuration of IPv6 related settings is not supported
- Microsoft Exchange integration over IPv6 must use an FQDN for EXCHANGE_SERVER_LIST. i.e. SET EXCHANGE_SERVER_LIST exch1.myco.com
- Wifi
- 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

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

Support for SHA2-signed software files

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

Utility Server 7.1 is the minimum software version required to install J100 4.1.10.0 zip packages

Earlier versions of the Utility Server are not able to install J100 SIP 4.1.10.0 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](http://support.avaya.com)" which is available on <http://support.avaya.com> for known limitations.

Language support

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

Language localization tool and additional language packages can be found at support.avaya.com site [here](#).

Ringtone and Ringtone Wave Files

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

Headset Profiles

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

Avaya Session Border Controller for Enterprise

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

```
SET WAIT_FOR_REGISTRATION_TIMER 40
```

SIP Transport Protocols

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

¹ 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 SLMSRV parameter must be set in the 46xxsettings.txt file for this version of the agent to register with ADS. In addition, a valid certificate file must be downloaded via TRUSTCERTS.

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

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

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

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

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

“Desk Phone” Mode and Lock

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

Interworking – TLS 1.3

Starting with release 4.1.1.0, J100 software supports TLS 1.3.



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

J129 - Presence

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

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

VLAN separation

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

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

Features not supported on the J129 Phone

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

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

Features not supported on the J139 Phone

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

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

Features not supported on the J159 Phone

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

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

J129 with IP Office – Features supported

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

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

J139 with IP Office – Features supported / not supported

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

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

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

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

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

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

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

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

The following features are 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 / 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/J179/J189 with IP Office – Features supported / not supported

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

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

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

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

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

- Call Park
- Call Pickup
- Call Page
- Call Recording
- Auto Call-back
- Account Code

- Authorization Code
- User BLF
- Group BLF

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

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

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

Advanced Call Presentation / Handling:

- MADN
- Bridged Appearances
- Coverage Appearances

IP Office Features/Status Menus:

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

Button configuration:

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

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

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

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

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

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

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

Provisioning of File Server Address

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

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

HTTPS file server has priority over the HTTP file server if both 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 → TLSSRV, 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.

SSO considerations

- **Lock screen Application**

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

- **Setting GROUP from System Manager**

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

802.1x EAP TLS changes

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

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

See `DOT1XEAPTLSONLYWITHCERT` parameter for further details.

J100 4.1.10.0 Resolved Issues (since J100 4.1.9.0)

The following table includes issues which are resolved with this release of software compared to J100 4.1.9.0.8

External ID	Internal ID	Issue Description
Avaya Aura®		
1-22873365192 1-AJSBRYL	SIP96X1-112412	J159 rebooting eventually when too many held calls are dropped from the far end
1-22602805062 1-AE231GA	SIP96X1-111427	Users no longer have Feature Buttons and Favorite Buttons when phone fails back to primary SM before secondary SM processing is complete
Avaya Cloud Office™		
IP Office™		
1-22708567411 1-AKKQMD8	SIP96X1-111654	User settable Ringer volume get reset to default on every reboot (IPO environment only).
CCElite		
Open SIP		
All Platforms		
	SIP96X1-113194	Phone displays duplicated Languages in Menu setting if lang file is customized
Wifi		
Web User Interface		
Button Module (JEM24)		

Unresolved issues in J100 4.1.10.0

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®		
	SIP96X1-112192	The phone keeps Primary lock state after Guest SSO user login <i>work-around: unlock with Guest credentials</i>
Avaya Cloud Office™		
	SIP96X1-114143	Phone dials FAC directly from Linekey without pop-up after cancelling in Dial for the first attempt using line key
	SIP96X1-114109	"FAC" does not work correctly when using contact details at FAC target selections
	SIP96X1-114094	CallerID Blocked label is NOT localized on features, main, secondary, and JEM screens
IP Office™		
Open SIP		
	SIP96X1-41164	HTTP redirect to HTTPS fails certificate validation, connection fails <i>work-around: reconfigure phone URL to HTTPS</i>
	SIP96X1-66640	Do not to use Web UI>Environment Settings>3PCC Server Mode = Netsapiens even though it shows, use generic
All Platforms		
	SIP96X1-89301	The phone does not download TRUSTCERTS list when user defines a HTTPS URL to the phone (SET ENABLE_PUBLIC_CA_CERTS=1 in settings file) <i>work-around: use HTTP or SET ENABLE_PUBLIC_CA_CERTS=0</i>
	SIP96X1-88631	L149 USB mute control drops call <i>work-around: use mute control on phone, this is a wired USB headset</i>
	SIP96X1-114267	Phone lost network after enabling CLEAR_MANUAL_VLAN to clear VLAN settings (Web & UI) <i>work-around: this only occurs in this firmware, please use 4.1.9.0 or 4.1.10.1 firmware</i>
Web User Interface		
	SIP96X1-94382	Language Dutch imported from WebServer is not displayed on phone UI <i>work-around: Import Dutch language file from settings file</i>

External ID	Internal ID	Issue Description
	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. <i>work-around:</i> Page level reset to default needs to be done to completely get rid of the softkey configured from WEB
Bluetooth		
	SIP96X1-105473	No incoming call alert and cannot answer the call via Bluetooth when Incoming call popup is disabled.
Button Module (JEM24)		
Wifi		

Appendix 1 – Supported Hardware and Minimum Software Release

J100 SIP 4.1.10.0 software is supported on the following models of IP Phones. Models may ship from the factory with a different load of software pre-installed. As such, they should be upgraded to this release on first installation.

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

Comcode	Short Description	Model(s)	Replaced by
700512392 *	J129 IP PHONE	J129D01A	700513638 700517252
700513638 *	J129 IP PHONE NO PWR SUPP	J129D02A	700514813 700517252
700512969 *	J129 IP PHONE 3PCC W/O PWR SUPP	J129D01A	700513639 700517252
700513639 *	J129 IP PHONE 3PCC W/CERT	J129D02A	700514814 700517252
700514813 *	J129 IP PHONE 5V	J129D03A	700513916 700517252
700515186 *	J129 IP PHONE 5V ENCRYPTION DISABLED	J129D03X	700515187
700514814 *	J129 IP PHONE 5V 3PCC	J129D03A	700513917 700517252
700517252	J129 IP PHONE GLOBAL	J129D03A	
700513916	J139 IP PHONE GLOBAL	J139D01A J139D01B	
700515187	J139 IP PHONE ENCRYPTION DISABLED	J139D01X	
700513917 *	J139 IP PHONE 3PCC	J139D01A J139D01B	700513916
700513918	J139 IP PHONE TAA	J139D01A J139D01B	
700514634	J139 IP PHONE ORANGE	J139D01A J139D01B	
700512394	J159 IP PHONE GLOBAL	J159D01A J159D01B	

Comcode	Short Description	Model(s)	Replaced by
700515188	J159 IP PHONE ENCRYPTION DISABLED	J159D01X	
700512395	J159 IP PHONE TAA	J159D01A J159D01B	
700512970 *	J159 IP PHONE 3PCC	J159D01A	700512394
700515582	J159 IP PHONE ORANGE	J159D01A J159D01B	
700513634 *	J169 IP PHONE NO PWR SUPP	J169D01A J169D01B J169D02A	700513569
700515189 *	J169 IP PHONE ENCRYPTION DISABLED	J169D01X J169D02X	700515190
700513635 *	J169 IP PHONE TAA	J169D01A J169D01B J169D02A	700513629
700513636 *	J169 IP PHONE 3PCC	J169D01A J169D01B J169D02A	700513630
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 to 14	4.0.3.1.4	6.8.5.02
J159D01B	15 and greater	4.0.12.0.6	6.8.5.3.2
J169D01A	01 to 03	1.5.0.0.15	6.7.0.02
J169D01A	04 to 07	3.0.0.1.6	6.8.0.03
J169D01B	08 to 18	4.0.0.0.21	6.8.0.03
J169D01B	19 and greater	4.0.3.1.4	6.8.3.04
J179D02A	01 to 03	1.5.0.0.15	6.7.0.02
J179D02A	04 to 08	2.0.0.0.45	6.7.0.02
J179D03A	09 to 11	4.0.1.0.11	6.8.2.02
J179D03A	12 to 18	4.0.2.0.8	6.8.2.02
J179D03A	19 to 33	4.0.3.1.4	6.8.3.04
J179D03B	34 and greater	4.0.12.0.6	6.8.5.3.2
J189D01A	01 to 15	4.0.6.1.4	6.8.5.02
J189D01B	16 and greater	4.0.12.1.x	6.8.5.3.2

Appendix 2 – Release History

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

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

Release	ID	Date	Link to Readme file
4.1.1.0	4.1.1.0.7	Apr 2022	https://downloads.avaya.com/css/P8/documents/101085556
4.1.2.0	4.1.2.0.11	Oct 2023	https://downloads.avaya.com/css/P8/documents/101087001
4.1.2.1	4.1.2.1.1	Feb 2024	https://downloads.avaya.com/css/P8/documents/101087449
4.1.3.0	4.1.3.0.6	Jan 2024	https://downloads.avaya.com/css/P8/documents/101088004
4.1.4.0	4.1.4.0.5	Apr 2024	https://downloads.avaya.com/css/P8/documents/101088985
4.1.5.0	4.1.5.0.6	July 2024	https://downloads.avaya.com/css/P8/documents/101090998
4.1.6.0	4.1.6.0.6	Oct 2024	https://downloads.avaya.com/css/P8/documents/101091653
4.1.7.0	4.1.7.0.5	Jan 2025	https://downloads.avaya.com/css/P8/documents/101092321
4.1.8.0	4.1.8.0.8	Apr 2025	https://downloads.avaya.com/css/P8/documents/101092697
4.1.9.0	4.1.9.0.8	July 2025	https://downloads.avaya.com/css/P8/documents/101093326

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

```
##### EMERGENCY NUMBER SOFTKEY (SIP ONLY) #####
##
## ENABLE_SPEAKER_EMERG Specifies if the phone will automatically switch to the speaker transducer when the user activates an
## emergency call when pressing the Emerg softkey
## or dialing the emergency number.
## The setting only applies to Avaya Aura environments.
## Value Operation
## 0 Disabled, The transducer will not automatically switch to the speaker.
## 1 Enabled (Default), The transducer will automatically switch to speaker.
## This parameter is supported by:
## J100 SIP R4.1.10.0 and later
## SET ENABLE_SPEAKER_EMERG 0

##### OTHER SIP-ONLY SETTINGS #####
##
## TEAM_BUTTON_INCOMING_CALL_INDICATION_MODE Specifies team button incoming call audible and visual alert indication mode.
## None : Phone doesn't play audible and visual alerting
## Audible : Phone plays only audible alerting.
## Visual : Phone displays only visual indication.
## Both : Phone plays audible alerting and displays visual indication.
## Value Operation
## 0 None
## 1 Audible (default)
## 2 Visual
## 3 Both
## 4 Forced none
## 5 Forced audible
## 6 Forced Visual
## 7 Forced Both
## This parameter is supported by:
## J100 SIP (excluding J120) R4.1.10.0 and later
## SET TEAM_BUTTON_INCOMING_CALL_INDICATION_MODE 1

##### RTT (REAL TIME TEXT) SETTINGS #####
##
## RTT_MODE_DEFAULT Specifies whether the phone will support RFC4103 RTT (Real-Time Text).
## When the feature is enabled or disabled without 'Forced' values (0 or 1), the Phone user is permitted to override this value.
## If the feature is enabled or disabled using 'Forced' values (2 or 3), the Phone user is not allowed to change the value.
## This parameter only applies to openSIP server environments.
## This parameter is ignored if IPV6STAT is not 0.
## When this feature and ENABLE_RANDOM_RTP_PORT are both enabled, RTP_PORT_RANGE must be set to 48 or higher, otherwise
## ENABLE_RANDOM_RTP_PORT will be ignored.
## Note: Only J159 and J189 support a USB keyboard for text input.
## Value Operation
## 0 Disabled
## 1 Enabled
## 2 Disabled (Forced) (Default)
## 3 Enabled (Forced)
## This parameter is supported by:
## J159 and J189 SIP R4.1.10.0 and later
## SET RTT_MODE_DEFAULT 1
##
## RTT_DISPLAY_ON_ANSWER_DEFAULT Specifies whether the RTT (Real-Time Text) view will be automatically displayed after a SIP
## call session is established
## which negotiated RFC4103 RTT successfully. This parameter is ignored if RTT_MODE is disabled.
## When the feature is enabled or disabled without 'Forced' values (0 or 1), the Phone user is permitted to override this value.
```

```
## If the feature is enabled or disabled using 'Forced' values (2 or 3), the Phone user is not allowed to change the value.
## Value Operation
## 0 Disabled
## 1 Enabled (Default)
## 2 Disabled (Forced)
## 3 Enabled (Forced)
## This parameter is supported by:
## J159 and J189 SIP R4.1.10.0 and later
## SET RTT_DISPLAY_ON_ANSWER_DEFAULT 0
##
## RTT_DISPLAY_ON_KEYPRESS_DEFAULT Specifies whether the RTT (Real Time Text) view will be automatically displayed when a SIP
call session is established which
## negotiated RFC4103 RTT successfully and the user starts typing on their USB keyboard.
## This feature is applicable only from: The primary phone screen
## This parameter is ignored if RTT_MODE is disabled.
## When the feature is enabled or disabled without 'Forced' values (0 or 1), the Phone user is permitted to override this value.
## If the feature is enabled or disabled using 'Forced' values (2 or 3), the Phone user is not allowed to change this value.
## Value Operation
## 0 Disabled
## 1 Enabled (Default)
## 2 Disabled (Forced)
## 3 Enabled (Forced)
## This parameter is supported by:
## J159 and J189 SIP R4.1.10.0 and later
## SET RTT_DISPLAY_ON_KEYPRESS_DEFAULT 0
##
## RTT_DISPLAY_ON_RECEIVE_DEFAULT Specifies whether the RTT (Real-Time Text) view will be automatically displayed after
receiving an RTT character.
## This parameter is ignored if RTT_MODE is disabled.
## When the feature is enabled or disabled without 'Forced' values (0 or 1), the Phone user is permitted to override this value.
## If the feature is enabled or disabled using 'Forced' values (2 or 3), the Phone user is not allowed to change this value.
## Value Operation
## 0 Disabled
## 1 Enabled (Default)
## 2 Disabled (Forced)
## 3 Enabled (Forced)
## This parameter is supported by:
## J159 and J189 SIP R4.1.10.0 and later
## SET RTT_DISPLAY_ON_RECEIVE_DEFAULT 0
##
## RTT_NOTIFICATION_TOPLINE_DEFAULT Specifies which received Real Time Text character will cause a TopLine notification to
appear if the Real Time Text view is not visible.
## This parameter is ignored if RTT_MODE is disabled.
## When the feature is configured without 'Forced' values (0 or 1 or 2), the Phone user is permitted to override this value.
## If the feature is configured with 'Forced' values (3 or 4 or 5), the Phone user is not allowed to change this value.
## Value Operation
## 0 Disabled - TopLine notification is disabled.
## 1 Bell - A received BELL (0x07, CTRL+G) RTT character will provide a TopLine notification.
## 2 Any (Default) - Any received RTT characters will provide a TopLine notification.
## 3 Disabled (Forced) - TopLine notification is disabled.
## 4 Bell (Forced) - A received BELL (0x07, CTRL+G) RTT character will provide a TopLine notification.
## 5 Any (Forced) - Any received RTT characters will provide a TopLine notification.
## This parameter is supported by:
## J159 and J189 SIP R4.1.10.0 and later
## SET RTT_NOTIFICATION_TOPLINE_DEFAULT 0
##
## RTT_NOTIFICATION_BEACON_DEFAULT Specifies which received RTT (Real Time Text) character will cause a beacon LED
notification.
## This parameter is ignored if RTT_MODE is disabled.
## When the parameter is configured without 'Forced' values (0 or 1 or 2), the Phone user is permitted to override this value.
## If the parameter is configured with 'Forced' values (3 or 4 or 5), the Phone user is not allowed to change this value.
## Value Operation
## 0 Disabled - Beacon LED notification is disabled.
## 1 Bell - A received BELL (0x07, CTRL+G) RTT character will provide a Beacon LED notification.
## 2 Any (Default) - Any received RTT characters will provide a Beacon LED notification.
## 3 Disabled (Forced) - Beacon LED notification is disabled.
## 4 Bell only (Forced) - A received BELL (0x07, CTRL+G) RTT character will provide a Beacon LED notification.
## 5 Any (Forced) - Any received RTT characters will provide a Beacon LED notification.
```

```

## This parameter is supported by:
## J159 and J189 SIP R4.1.10.0 and later
## SET RTT_NOTIFICATION_BEACON_DEFAULT 0
##
## RTT_NOTIFICATION_AUDIBLE_DEFAULT Specifies which received RTT (Real Time Text) character will cause an audible notification.
## This parameter is ignored if RTT_MODE is disabled.
## When the feature is configured without 'Forced' values (0,1,2,3), the Phone user is permitted to override this value.
## If the feature is configured with 'Forced' values (4,5,6,7), the Phone user is not allowed to change this value.
## Value Operation
## 0 Disabled - Audible notification is disabled.
## 1 Bell - A received BELL (0x07, CTRL+G) RTT character will provide an Audible notification.
## 2 Newline - Only a received Newline RTT character will provide an audible notification.
## 3 Both - Only a received BELL or Newline RTT character will provide an audible notification.
## 4 Disabled (Forced) - Audible notification is disabled.
## 5 Bell (Forced) - A received BELL (0x07, CTRL+G) RTT character will provide an Audible notification.
## 6 Newline (Forced) - Only a received Newline RTT character will provide an audible notification.
## 7 Both (Forced) - Only a received BELL or Newline RTT character will provide an audible notification.
## This parameter is supported by:
## J159 and J189 SIP R4.1.10.0 and later
## SET RTT_NOTIFICATION_AUDIBLE_DEFAULT 0
##
## RTT_TX_NEWLINE_DEFAULT Specifies the duration in seconds, for which a Real Time Text newline character will be sent when there
is no
## further input from the local user. A newline character distinguishes each message in the Real Time Text application.
## The range is 0-15 seconds. 0 is disabled and 3 is the default value.
## This parameter is supported by:
## J159 and J189 SIP R4.1.10.0 and later
## SET RTT_TX_NEWLINE_DEFAULT 5
##
## RTT_PAYLOAD_TYPE Specifies the RTP payload type to be used for Real-Time Text (RTT) transmission, based on the T.140 protocol
as defined in RFC 4103.
## This parameter is used when media offer is sent to the far end in an INVITE (or 200 OK when INVITE with no SDP is received).
## Valid values are 96 through 127; the default value is 98.
## This parameter is supported by:
## J159 and J189 SIP R4.1.10.0 and later
## SET RTT_PAYLOAD_TYPE 100
##
## RTT_REDUNDANCY_PAYLOAD_TYPE Specifies the RTP payload type to be used for redundant Real-Time Text (RTT) transmission,
based on the RFC 4103 and RFC 2198.
## Set this parameter value to 0 to disable redundancy in RTT.
## Valid values are 96 through 127; the default value is 100.
## This parameter value is used when media offer is sent to the far end in an INVITE (or 200 OK).
## e.g. When this parameter value is 100 and RTT_PAYLOAD_TYPE is 98, SDP in INVITE has following for the RTT text
## m=text 3072 RTP/AVP 98 100
## a=rtpmap:98 t140/1000
## a=rtpmap:100 red/1000
## a=fmtp:100 98/98/98
## This parameter is supported by:
## J159 and J189 SIP R4.1.10.0 and later
## SET RTT_REDUNDANCY_PAYLOAD_TYPE 101
##
## RTT_REDUNDANCY_LEVEL Specifies the number of T.140 blocks to be included as redundant data when redundancy payload type
parameter is defined.
## Valid values are 1 through 5; the default value is 2.
## This parameter is used to form the format parameter (a=fmtp:100 98/98/98) in the SDP of INVITE.
## This parameter is supported by:
## J159 and J189 SIP R4.1.10.0 and later
## SET RTT_REDUNDANCY_LEVEL 3

##### AVAYA CLOUD OFFICE (ACO) SETTINGS #####
##
## SELECTABLE_CALLERID_ENABLED Specifies if the phone will provide the selectable caller id feature.
## Allows the user to select from a list of caller ids to use when placing outbound calls.
## This parameter only applies to Avaya Cloud Office server environment.
## Value Operation
## 0 Disabled (Default)

```

```
## 1 Enabled
## This parameter is supported by:
## J139, J159, J169, J179, J189 SIP R4.1.10.0 and later, only in ACO environment
## SET SELECTABLE_CALLERID_ENABLED 1
```

Changed parameters

```
##### OTHER SIP-ONLY SETTINGS #####
##

##### SCEP SETTINGS #####
##
## MYCERTKEYLEN, MYCERTKEYLEN_2, MYCERTKEYLEN_3 specify the bit length of the public and private keys
## generated for the respective SCEP certificate request.
## 4 ASCII numeric digits, "1024" through "4096"; the default value is "1024".
## Note: 4096 will cause a delay in bootup during initial key generation and enrollment for certificate.
## Note: Changing this value while the phone already has an installed identity certificate will only take effect during the certificate
renewal
## MYCERTKEYLEN is supported by:
## J129 SIP R1.0.0.0 (or R1.1.0.0), J169/J179 SIP R1.5.0, J100 SIP R2.0.0.0 and later, J139 SIP R3.0.0.0 and later, J159 SIP R4.0.3.0 and
later,
## J189 SIP R4.0.6.1 and later only "2048" is supported, J100 SIP 4.1.10.0 and later "2048" or "4096" is supported.
## J169/J179 H.323 R6.7 and later, J159 and J189 H.323 R6.8.5 and later; only value "2048" is supported.
## Avaya Vantage Devices SIP R1.0.0.0 and later; only value "2048" is supported.
## 96x1 H.323 R6.0 and later
## B189 H.323 R6.6 and later
## 96x1 SIP R6.0 and later; default value is "2048" in 96x1 SIP R6.5+. 96x1 SIP R7.1.0.0 and later - only "2048" is supported.
## H1xx SIP R1.0 and later; default value is "2048" in H1xx SIP R1.0.1+.
## 96x0 H.323 R3.1 and later
## 96x0 SIP R1.0 and later
## MYCERTKEYLEN_2, MYCERTKEYLEN_3 are supported by:
## J100 SIP R4.0.13.0 and later
## SET MYCERTKEYLEN 2048

##### LANGUAGE SETTINGS #####
##
## System-Wide Language
## Contains the name of the default system language file
## used in the phone. The filename should be one of the
## files listed in the LANGUAGES parameter. If no
## filename is specified, or if the filename does not
## match one of the LANGUAGES values, the phone shall use
## its built-in English text strings. 0 to 32 ASCII
## characters. Filename must end in .xml
##
## NOTE:
## For 96xx SIP Release 1.0 phones only, all language
## filenames begin with Mls_Spark_. For example,
## Mls_Spark_English.xml
##
## For 96xx SIP Release 2.0 and later,
## all language filenames begin with Mlf_
##
## SET SYSTEM_LANGUAGE Mlf_English.xml
##
## The language files of 96x0 SIP 2.6.13 and later in the 96x0 SIP firmware distributions are different than 96x1
## and therefore their filenames were changed to Mlf_S96x0_<Language name>.xml.
## Mlf_<language name>.xml filename convention is used by:
## 1. 96x1 SIP Release 6.0 and later and
## 2. 96xx SIP Release 2.0 up to 2.6.13 (excluded).
## In mutual environment of 96x0 SIP, 96x1 SIP and J1xx SIP phones there shall be use of IF conditional statement
## base on MODEL/GROUP to assign different language files for each phone family.
## Note: SYSTEM_LANGUAGE is supported by J129 SIP R1.0.0.0 (or R1.1.0.0), J169/J179 SIP R1.5.0, J100 SIP R2.0.0.0 and later, J139 SIP
R3.0.0.0 and later, J159 SIP R4.0.3.0 and later and J189 SIP R4.0.6.1 and later as 96x1 SIP phones.
## SET SYSTEM_LANGUAGE Mlf_English.xml
## SET SYSTEM_LANGUAGE Mlf_S96x0_English.xml
##
```

```

## Installed Languages
## Specifies the language files to be installed/downloaded
## to the phone. Filenames may be full URL, relative
## pathname, or filename. (0 to 1096 ASCII characters,
## including commas). Filenames must end in .xml.
##
## NOTE:
## For 96xx SIP Release 1.0 phones only, all language
## filenames begin with Mls_Spark_ For example,
## Mls_Spark_English.xml
##
## For 96xx SIP Release 2.0 and later,
## all language filenames begin with Mlf_
##
## The language files of 96x0 SIP 2.6.13 and later in the 96x0 SIP firmware distributions are different than 96x1
## and therefore their filenames were changed to Mlf_S96x0_<Language name>.xml.
## Mlf_<language name>.xml filename convention is used by:
## 1. 96x1 SIP Release 6.0 and later and
## 2. 96xx SIP Release 2.0 up to 2.6.13 (excluded).
## In mutual environment of 96x0 SIP and 96x1 SIP phones there shall be use of IF conditional statement
## base on MODEL/GROUP to assign different language files for each phone family.
## Note: LANGUAGES is supported by J129 SIP R1.0.0.0 (or R1.1.0.0), J169/J179 SIP R1.5.0, J100 SIP R2.0.0.0 and later, J139 SIP R3.0.0.0
## and later and J159 SIP R4.0.3.0 and later and J189 SIP R4.0.6.1 and later as 96x1 SIP phones.
## Note: J100 SIP R4.0.5.0 and later support more than 4 languages files. There is also no limitation of 1096 ASCII characters of
## filenames.
## Note: J100 SIP R4.1.2.0 and later support Absolute URLs, Absolute Paths, Relative paths or filenames can be defined, MACROS are
## supported
## Absolute URL
## Example:
http://username:password@provisioning.example.com:8088/path/Mlf_J189_CanadianFrench.xml
## Absolute Path, which will ignore HTTPDIR or TLSDIR if defined.
## Example: /path/Mlf_J179_CanadianFrench.xml
## Relative Path, which will append to HTTPDIR or TLSDIR if defined.
## Example: path/Mlf_J179_CanadianFrench.xml
## MACROS, which will be replaced if found.
## "$SERIALNO" which will be replaced by the telephone's serial number in UPPERCASE, or
## "$MACADDR" which will be replaced by the telephone's MAC address without colons in
lowercase, or
## "$MODEL4" which will be replaced by the telephone's 4 character model number in
UPPERCASE.
## Note: J100 SIP R4.1.9.0 and later supports embedded language files. To have the phone obtain a modified or custom .xml file
## the filename must be appended with _cust.xml. Example: Mlf_J189_CanadianFrench_cust.xml
## SET LANGUAGES Mlf_German.xml,Mlf_ParisianFrench.xml,Mlf_LatinAmericanSpanish.xml
## SET LANGUAGES Mlf_S96x0_German.xml,Mlf_S96x0_ParisianFrench.xml,Mlf_S96x0_LatinAmericanSpanish.xml

##### PORT SETTINGS (SIP ONLY) #####
##
## ENABLE_RANDOM_RTP_PORT specifies whether to use sequential even RTP ports or random even RTP ports.
## Value Operation
## 0 Even numbered RTP ports starting at RTP_PORT_LOW will be used for all calls (Default)
## 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 audio path is established (e.g. when a call is answered or a call is resumed).
## To maximize the effectiveness of this setting, RTP_PORT_RANGE should be assigned a value much larger than the default of 40.
## When this feature and RTT_MODE_DEFAULT (supported for J159 and J189 SIP R4.1.10.0 and later) are both enabled,
## RTP_PORT_RANGE must be set to 48 or higher, otherwise ENABLE_RANDOM_RTP_PORT will be ignored.
## This parameter is supported by:
## J100 SIP R4.0.7.0 and later
## SET ENABLE_RANDOM_RTP_PORT 1

```

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