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SIP Endpoint SDK for OS X

Release Notes 9.0.x

12/9/2025

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SIP Endpoint SDK for OS X 9.0.x Release Note

9.x SIP Endpoint SDK for OS X is part of 9.x starting in 9.0.004.07.

This Release Note applies to all 9.0.x releases of SIP Endpoint SDK for OS X. Links in the [Available Releases](#) section enable you to access information regarding a specific release.

Available Releases

[+] Note about release order

Releases are listed by version number rather than in date order. For this reason, a recent release may be listed after earlier releases, if the version number is lower. Except when otherwise noted in the information for a specific release, each release includes all of the features and corrections that were introduced for the applicable operating system at earlier dates, regardless of the version numbering.

Release 9.0.1:

Release	Release Date	Release Type	Restrictions	AIX	Linux	Solaris	Windows	OS X
9.0.105.01	08/07/25	General						X
9.0.104.01	04/30/25	General						X
9.0.103.01	12/20/24	General						X
9.0.102.04	09/26/24	General						X
9.0.101.02	08/08/24	Hot Fix						X
9.0.101.01	06/27/24	General						X
9.0.100.03	03/28/24	General						X

Release 9.0.0:

Release	Release Date	Release Type	Restrictions	AIX	Linux	Solaris	Windows	OS X
9.0.034.03	12/21/23	General						X
9.0.033.06	10/13/23	Hot Fix						X
9.0.033.04	09/29/23	Update						X

Release	Release Date	Release Type	Restrictions	AIX	Linux	Solaris	Windows	OS X
9.0.032.10	06/28/23	General						X
9.0.031.06	03/30/23	General						X
9.0.030.01	12/22/22	General						X
9.0.029.11	12/01/23	Hot Fix						X
9.0.029.10	12/12/22	Hot Fix						X
9.0.029.08	10/18/22	Hot Fix						X
9.0.029.05	09/29/22	General						X
9.0.028.07	07/01/22	General						X
9.0.027.07	04/22/22	General						X
9.0.027.05	03/31/22	General						X
9.0.026.03	09/14/22	Hot Fix						X
9.0.026.01	12/16/21	General						X
9.0.025.03	10/29/21	General						X
9.0.024.04	09/29/21	Hot Fix						X
9.0.024.03	06/25/21	General						X
9.0.023.01	03/25/21	General						X
9.0.022.07	06/04/21	General						X
9.0.022.05	12/17/20	General						X
9.0.021.05	09/24/20	General						X
9.0.020.08	06/01/21	Hot Fix						X
9.0.020.07	08/27/20	Hot Fix						X
9.0.020.02	06/19/20	General						X
9.0.019.02	04/30/20	General						X
9.0.018.04	02/13/20	General						X
9.0.017.06	11/25/19	Hot Fix						X
9.0.017.05	11/08/19	General						X
9.0.016.03	08/30/19	General						X
9.0.015.04	08/01/19	Hot Fix						X
9.0.014.06	06/13/19	Hot Fix						X
9.0.014.05	05/17/19	General						X
9.0.014.04	05/03/19	General						X
9.0.013.05	03/08/19	General						X
9.0.013.04	02/28/19	General						X
9.0.012.03	12/21/18	General						X
9.0.011.09	10/17/18	Hot Fix						X
9.0.011.06	09/26/18	General						X
9.0.010.09	08/23/18	Hot Fix						X

Release	Release Date	Release Type	Restrictions	AIX	Linux	Solaris	Windows	OS X
9.0.010.08	08/09/18	Hot Fix						X
9.0.010.07	07/31/18	Hot Fix						X
9.0.010.04	06/26/18	General						X
9.0.009.02	05/09/18	General						X
9.0.008.04	03/09/18	General						X
9.0.007.01	01/05/18	General						X
9.0.006.10	12/15/17	General						X
9.0.005.06	10/06/17	General						X
9.0.004.07	08/31/17	General						X

The operating systems available for use with each component release are listed in the table at a high level only. For more detailed information about the supported operating environments, including requirements, supported versions, and any conditions or limitations, see the [SIP Endpoint SDK](#) page in the *Genesys Supported Operating Environment Reference Guide*.

For information about 8.5.x releases of SIP Endpoint SDK for OS X, see the [8.5.x Release Note](#).

Discontinued Support

[+] Note about discontinued items

This section documents features that are no longer supported in this software. This cumulative list is in release-number order with the most recently discontinued features at the top of the list. For more information on discontinued support for operating environments and databases, see [Discontinued Support](#) in the *Genesys Supported Operating Environment Reference Guide*.

There are no discontinued items for this product.

Known Issues

You can find a cumulative list of the Known Issues and Recommendations for all 9.0.x releases of SIP Endpoint SDK for OS X, including the issues that are specific to Localized (International) releases, at the following links:

- [Known Issues and Recommendations](#)

Related Resources

For additional information about SIP Endpoint SDK for OS X, see the following documentation:

- The documentation related to this software is available from the [SIP Endpoint SDK](#) page.
- The [SIP Endpoint SDK for OS X Deployment Guide](#) provides details about installing and configuring SIP Endpoint SDK for OS X.
- The [SIP Endpoint SDK for OS X Overview](#) helps you understand design goals and architecture.
- The [SIP Endpoint SDK for OS X Developer's Guide](#) helps you understand configuration and teaches you how to design applications that make use of the powerful features of this SDK.
- The [SIP Endpoint SDK](#) page in the [Genesys Supported Operating Environment Reference Guide](#) provides detailed information about the supported operating environments, including requirements, supported versions, and any conditions or limitations for eServices components.

Release Notes for other Genesys components are available [here](#).

Known Issues and Recommendations

SIP Endpoint SDK for OS X

The Known Issues and Recommendations section is a cumulative list for all 9.0.x releases of SIP Endpoint SDK for OS X. This section provides the latest information on known issues and recommendations associated with this product. It includes information on when individual items were found and, if applicable, corrected. The Resolved Issues section for each release describes the corrections and may list additional issues that were corrected without first being documented as Known Issues.

Including the MAC address into the Contact header of outgoing SIP messages (when the **include_mac_address** setting is set to 1) does not work properly when the `policy.endpoint.public_address` setting is set to an explicit IP address, FQDN or special values: `$host` and `$fqdn`.

ID: SEPSDK-2502	Found In: 9.0.016.03	Fixed In: 9.0.017.05
------------------------	-----------------------------	-----------------------------

If the balance is moved off-center while audio was played, and changed back to exact center position while audio was not active, the balance is not reset properly.

ID: SEPSDK-2544	Found In: 9.0.017.05	Fixed In:
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Release 9.0.1

SIP Endpoint SDK for OS X Release Notes

You can find links to Release Notes for particular 9.0.1 releases of SIP Endpoint SDK for OS X, if available, in the tree menu on the left or in the list of [Available Releases](#).

9.0.105.01

SIP Endpoint SDK for OS X Release Notes

Release Date	Release Type	Restrictions	AIX	Linux	Mac	Solaris	Windows
08/07/25	General				X		

What's New

This release contains the following new features and enhancements:

- SIP Endpoint SDK now supports additional parameters in the existing option **codecs.enabled.video**:
 - `pace=0` to disable paced sender (transmission smoothening) for video codecs. The default value is `pace=1` for backward compatibility
 - `minbr=scale` parameter to set minimum bitrate that video engine is allowed to use, where *scale* is specified as a fraction of the target bitrate (calculated based on frame resolution and rate). The valid values are from 0.1 to 1.0. The default value is 0, which does not limit the bitrate. (SEPSDK-3105)

Helpful Links

Releases Info

- [List of 9.0.x Releases](#)
- [9.0.x Known Issues](#)

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Resolved Issues

This release contains the following resolved issues:

SIP Endpoint SDK no longer sends RTCP with BYE packet on changing audio device during the active call, which could cause the outgoing audio stream being muted in some environments. (SEPSDK-3102)

Upgrade Notes

No special procedure is required to upgrade to release 9.0.105.01.

9.0.104.01

SIP Endpoint SDK for OS X Release Notes

Release Date	Release Type	Restrictions	AIX	Linux	Mac	Solaris	Windows
04/30/25	General				X		

What's New

This release contains the following new features and enhancements:

- This release officially supports macOS Sequoia 15.x, with the following known issue:

Apple has introduced privacy/security features in macOS Sequoia, which may cause application based on the SIP Endpoint SDK to get “broken pipe” signal from Apple Firewall (which would terminate the application), when that application is not code-signed by Notarized Developer ID certificate. The solution is either to properly sign the application, disable Firewall, or add a rule to whitelist the application (SEPSDK-3090)

- {GSStatistics} object now includes histogram of detected voice activity over the last 10 seconds of given audio session. Previously this information was only printed into log and not available to application code. Refer to this page for details of histogram format:[\[1\]](#) (SEPSDK-3089)

Helpful Links

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Resolved Issues

This release contains no resolved issues.

Upgrade Notes

No special procedure is required to upgrade to release 9.0.104.01.

9.0.103.01

SIP Endpoint SDK for OS X Release Notes

9.x SIP Endpoint SDK for OS X is part of 9.x starting in **9.0.004.07**.

Release Date	Release Type	Restrictions	AIX	Linux	Mac	Solaris	Windows
12/20/24	General				X		

What's New

This release contains the following new features and enhancements:

- SIP Endpoint SDK now uses security module based on OpenSSL 3.0.15 for TLS support, updated from 3.0.10 in previous versions. (SEPSDK-3078)
- Added a new valid value **\$(rule1,rule2,...)** for the **policy.endpoint.public_address** option that provides a flexible method to control the local IP address selection. For more details, see the description for **\$(rule1,rule2,...)** in **public_address** option description. (SEPSDK-3077)
- Added a new option **policy.endpoint.rtp_port_binding** to control the RTP port binding process. For more details, see **rtp_port_binding**.(SEPSDK-3076)

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Resolved Issues

This release contains no resolved issues.

Upgrade Notes

No special procedure is required to upgrade to release 9.0.103.01.

9.0.102.04

SIP Endpoint SDK for OS X Release Notes

9.x SIP Endpoint SDK for OS X is part of 9.x starting in **9.0.004.07**.

Release Date	Release Type	Restrictions	AIX	Linux	Mac	Solaris	Windows
09/26/24	General				X		

What's New

This release includes only resolved issues.

Resolved Issues

This release contains the following resolved issues:

A new option **system.security.dylib-path** has been added in the **security** section which allows users to explicitly specify the location of dynamic libraries for the security module. Users can specify the path where the Genesys security module's dynamic libraries for TLS support is located. Following are the names of the libraries:

- libgsecurity_openssl_64.dylib for Intel processor
- libgsecurity_openssl_arm64.dylib for Apple processor

If the option is not specified or set to empty value (default), SIP Endpoint SDK (SEPSDK) requires the dynamic libraries to be located in the **Resources** folder of application's main bundle. (SEPSDK-3072)

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For better interoperability with other components, SEPSDK now uses uppercase codec names VP8 and VP9 in the SDP. Previous versions used lowercase codec names such as vp8 and vp9, which was not a bug since the standard defines codec name in SDP to be case-insensitive, but was found to cause problems with some endpoints. (SEPSDK-3070)

Upgrade Notes

No special procedure is required to upgrade to release 9.0.102.04.

9.0.101.02

SIP Endpoint SDK for OS X Release Notes

9.x SIP Endpoint SDK for OS X is part of 9.x starting in **9.0.004.07**.

Release Date	Release Type	Restrictions	AIX	Linux	Mac	Solaris	Windows
08/08/24	Hot Fix				X		

What's New

This release includes only resolved issues.

Resolved Issues

This release contains the following resolved issues:

The External Capture feature is improved to reject the delivered video frames when the capture is stopped and not restarted again. Earlier, such scenarios caused the application to become unstable. (SEPSDK-3067)

The enable and disable methods in the *GSSipConnection* is improved to be resilient to race conditions. Earlier, calling the enable method when the connection is closed by a timer caused the application to become unstable. (SEPSDK-3065)

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Upgrade Notes

No special procedure is required to upgrade to release 9.0.101.02.

9.0.101.01

SIP Endpoint SDK for OS X Release Notes

9.x SIP Endpoint SDK for OS X is part of 9.x starting in **9.0.004.07**.

Release Date	Release Type	Restrictions	AIX	Linux	Mac	Solaris	Windows
06/27/24	General				X		

What's New

This release contains only resolved issues.

Resolved Issues

This release contains the following resolved issues:

The **sendInfoToSession:contentType:content:** method now sends INFO message for sessions in *Held* state. Previously, this request was allowed only for *Connected* sessions and blocked by SDK for *Held* state, despite the latter being a valid operation in SIP. (SEPSDK-3060)

The method **allSessions** of `GSSipSessionManager` now functions correctly in the multithreaded case. Previously, this method might rarely cause an exception, if called at the same time when session is modified in another thread. (SEPSDK-3054)

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Upgrade Notes

No special procedure is required to upgrade to release 9.0.101.01.

9.0.100.03

SIP Endpoint SDK for OS X Release Notes

9.x SIP Endpoint SDK for OS X is part of 9.x starting in **9.0.004.07**.

Release Date	Release Type	Restrictions	AIX	Linux	Mac	Solaris	Windows
03/28/24	General				X		

What's New

This release includes only resolved issues.

Resolved Issues

This release contains the following resolved issues:

SIP Endpoint SDK is now more resilient to long delays in delivering device-related events when an agent workstation enters sleep mode. Previously, SIP Endpoint SDK might become unstable in such scenarios. (SEPSDK-3045)

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Upgrade Notes

No special procedure is required to upgrade to release 9.0.100.03.

Release 9.0.0

SIP Endpoint SDK for OS X Release Notes

You can find links to Release Notes for particular 9.0.0 releases of SIP Endpoint SDK for OS X, if available, in the tree menu on the left or in the list of [Available Releases](#).

9.0.034.03

SIP Endpoint SDK for OS X Release Notes

9.x SIP Endpoint SDK for OS X is part of 9.x starting in **9.0.004.07**.

Release Date	Release Type	Restrictions	AIX	Linux	Mac	Solaris	Windows
12/21/23	General				X		

What's New

This release contains the following new features and enhancements:

- SIP Endpoint SDK now supports macOS Sonoma 14.x. See the [SIP Endpoint SDK](#) page in the *Genesys Supported Operating Environment Reference Guide* for more detailed information and a list of all supported operating systems.

Resolved Issues

This release contains the following resolved issues:

SIP Endpoint SDK now properly restarts the video Real Time Protocol (RTP) stream after external capture was stopped and restarted again during a video call. Previously, sending RTP stream might be stopped in this case, despite when the local video was still working. (SEPSDK-3036)

Opening SIP port is improved to stop trying all SIP ports in configured range, in case when network is not reachable. Previously, SIP Endpoint SDK might block the main thread for very long time in such cases, causing the application to become unresponsive. (SEPSDK-3033)

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Upgrade Notes

No special procedure is required to upgrade to release 9.0.034.03.

9.0.033.06

SIP Endpoint SDK for OS X Release Notes

9.x SIP Endpoint SDK for OS X is part of 9.x starting in **9.0.004.07**.

Release Date	Release Type	Restrictions	AIX	Linux	Mac	Solaris	Windows
10/13/23	Hot Fix				X		

What's New

This release includes only resolved issues.

Resolved Issues

This release contains the following resolved issues:

The handling of local IP address changes has been improved to ensure that the old and no longer valid IP address is never sent in the Contact header of REGISTER requests. Previously, it was possible for a REGISTER request with an old IP address to be incorrectly retransmitted if the IP change happened when a SIP transaction was in progress. (SEPSDK-3019)

SIP Endpoint SDK no longer has issues when SRV resolution is used for SIP server location and the SIP port cannot be opened (because of port unavailability or misconfiguration). (SEPSDK-3013)

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Upgrade Notes

No special procedure is required to upgrade to release 9.0.033.06.

9.0.033.04

SIP Endpoint SDK for OS X Release Notes

9.x SIP Endpoint SDK for OS X is part of 9.x starting in **9.0.004.07**.

Release Date	Release Type	Restrictions	AIX	Linux	Mac	Solaris	Windows
09/29/23	Update				X		

What's New

This release contains the following new features and enhancements:

- A new configuration setting, [policy.session.ringing_while_call_held](#) is added to optionally suppress the ringtone when another call is held. (SEPSDK-2996)

Resolved Issues

This release contains the following resolved issues:

For better interoperability with other components, SIP Endpoint SDK now uses uppercase "H264" in the SDP for H.264 video codec. Previous versions used the lowercase "h264" (which was not a bug since the standard defines the codec name in SDP to be case-insensitive), but was found to cause problems with some endpoints. (SEPSDK-3005)

SIP Endpoint SDK now allows configuring multiple profiles for H.264 video codec, by using #n suffix added to the codec/section name for additional parameter sets, for example:

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```
<domain name="codecs">
  <section name="enabled">
    <setting name="audio" value="pcmu,pcma,g729"/>
    <setting name="video" value="h264,h264#2"/>
  </section>
  <section name="h264">
    <setting name="payload_type" value="108"/>
    <setting name="fmp" value="profile-level-id=420028"/>
  </section>
  <section name="h264#2">
    <setting name="payload_type" value="114"/>
    <setting name="fmp" value="profile-level-id=42e01e"/>
  </section>
</domain>
```

All configured 'fmp' values will be added (with corresponding payload type) to the offer SDP sent by SIP Endpoint SDK. Incoming video offer with multiple H.264 profiles is always accepted if offered parameters can be supported, even when they are not explicitly listed in the configuration. (SEPSDK-3004)

Processing of TLS exceptions for SIP connections is improved to ensure the previous SIP dialog is properly deleted. In previous versions, earlier dialogs might remain active and re-submit the registration renewal later potentially with wrong contact info. (SEPSDK-3003)

Upgrade Notes

No special procedure is required to upgrade to release 9.0.033.04.

9.0.032.10

SIP Endpoint SDK for OS X Release Notes

9.x SIP Endpoint SDK for OS X is part of 9.x starting in **9.0.004.07**.

Release Date	Release Type	Restrictions	AIX	Linux	Mac	Solaris	Windows
06/28/23	General				X		

What's New

This release includes only resolved issues.

Resolved Issues

This release contains the following resolved issues:

Automatic audio device selection is improved in SIP Endpoint SDK to avoid selecting virtual devices (such as Microsoft Teams Audio) even when they are set as the default device. Virtual devices can be selected manually. (SEPSDK-2989)

The `system.security.cipher-list` (which specifies ciphers for TLSv1.2) and `ciphersuites` (which specifies ciphersuites for TLSv1.3) options are no longer exclusive and can be specified at the same time, if both TLS protocol versions are enabled. (SEPSDK-2958)

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Upgrade Notes

No special procedure is required to upgrade to release 9.0.032.10.

9.0.031.06

SIP Endpoint SDK for OS X Release Notes

9.x SIP Endpoint SDK for OS X is part of 9.x starting in **9.0.004.07**.

Release Date	Release Type	Restrictions	AIX	Linux	Mac	Solaris	Windows
03/30/23	General				X		

What's New

This release includes only resolved issues.

Resolved Issues

This release contains the following resolved issues:

- A new configuration option **system.security.ciphersuites** is included to configure the list of ciphersuites to be used for TLSv1.3 connection.

Warning

The options **cipher-list** (which specifies ciphers for TLSv1.2) and **ciphersuites** cannot be used at the same time, even if both TLS protocol version are enabled.

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(SEPSDK-2958)

Processing of SRTP errors in SIP Endpoint SDK has been fixed to recreate the SRTP context in the following cases:

- call duration is long enough for RTP sequential number to roll over to zero
- SSRC in the incoming RTP stream changes multiple times after re-INVITE

In previous versions, SIP Endpoint SDK reported SRTP-error(13) and discarded the undecoded packets causing call drops by inactivity timeout (SEPSDK-2947)

Processing re-INVITES for video call is improved to properly restart video stream when codec parameters are changed in the new offer SDP. In previous versions, outgoing video stream might be stopped and not restarted in this case. (SEPSDK-2960)

Upgrade Notes

No special procedure is required to upgrade to release 9.0.031.06.

9.0.030.01

SIP Endpoint SDK for OS X Release Notes

9.x SIP Endpoint SDK for OS X is part of 9.x starting in **9.0.004.07**.

Release Date	Release Type	Restrictions	AIX	Linux	Mac	Solaris	Windows
12/22/22	General				X		

What's New

This release contains the following new features and enhancements:

- Handling of TCP exceptions for TLS transport for SIP is improved. Now SIP Endpoint SDK tries reconnecting to the same SIP proxy immediately after getting an exception. In previous versions, the TCP exceptions were ignored, and the SDK would switch over to the next configured SIP proxy after an SIP transaction timeout. (SEPSDK-2940)

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Resolved Issues

This release contains the following resolved issues:

SIP Endpoint SDK now adds rtcp-fb SDP attribute to video offers more consistently. In previous versions, this attribute was included in the initial INVITE but not in re-INVITE sent for the **Add video** feature. (SEPSDK-2949)

Upgrade Notes

No special procedure is required to upgrade to release 9.0.030.01.

9.0.029.11

SIP Endpoint SDK for OS X Release Notes

9.x SIP Endpoint SDK for OS X is part of 9.x starting in **9.0.004.07**.

Release Date	Release Type	Restrictions	AIX	Linux	Mac	Solaris	Windows
12/01/23	Hot Fix				X		

What's New

This release includes only resolved issues.

Resolved Issues

This release contains the following resolved issues:

The InDeviceIOProc callback method now checks the size of supplied audio buffer to resolve potential crashes on macOS 14.x Sonoma. (SEPSDK-3030)

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Upgrade Notes

No special procedure is required to upgrade to release 9.0.029.11.

9.0.029.10

SIP Endpoint SDK for OS X Release Notes

9.x SIP Endpoint SDK for OS X is part of 9.x starting in **9.0.004.07**.

Release Date	Release Type	Restrictions	AIX	Linux	Mac	Solaris	Windows
12/12/22	Hot Fix				X		

What's New

This release includes only resolved issues.

Resolved Issues

This release contains the following resolved issues:

Processing of SRTP errors in SIP Endpoint SDK has been fixed to recreate the SRTP context in the following cases:

- call duration is long enough for RTP sequential number to roll over to zero
- SSRC in the incoming RTP stream changes multiple times after re-INVITE

In previous versions, SIP Endpoint SDK reported SRTP-error(13) and discarded the un-decoded packets causing call drops by inactivity timeout (SEPSDK-2947)

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Upgrade Notes

No special procedure is required to upgrade to release 9.0.029.10.

9.0.029.08

SIP Endpoint SDK for OS X Release Notes

9.x SIP Endpoint SDK for OS X is part of 9.x starting in **9.0.004.07**.

Release Date	Release Type	Restrictions	AIX	Linux	Mac	Solaris	Windows
10/18/22	Hot Fix				X		

What's New

This release includes only resolved issues.

Resolved Issues

This release contains the following resolved issues:

SIP Endpoint SDK now correctly handles all SRTP errors, prints diagnostic messages in logs, and blocks bad packets from being processed. In previous versions, some errors (such as replay protection failure) were ignored resulting in encrypted packets being passed to voice engine and this caused a rattling noise for users. (SEPSDK-2925)

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Upgrade Notes

No special procedure is required to upgrade to release 9.0.029.08.

9.0.029.05

SIP Endpoint SDK for OS X Release Notes

9.x SIP Endpoint SDK for OS X is part of 9.x starting in **9.0.004.07**.

Release Date	Release Type	Restrictions	AIX	Linux	Mac	Solaris	Windows
09/29/22	General				X		

What's New

This release contains the following new features and enhancements:

- A new method **startLocalVideoStream:withExternalCapture** is added to the GSVideoService protocol to allow the application code to perform video capture and to apply necessary corrections and filters before delivering captured video frames to SIP Endpoint SDK for further processing (SEPSDK-2905)

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Resolved Issues

This release contains the following resolved issues:

When sending re-INVITE for the Add Video feature, SIP Endpoint SDK now always reuses m-lines in SDP for a previously rejected video stream, if possible. In previous versions, a new m-line was added if the transport did not match which was still RFC-compliant but caused problems in some environments. (SEPSDK-2915)

SIP Endpoint SDK now correctly processes the TLS exceptions caused by remote side disconnections. Earlier, the application was unstable if any other activity was ongoing in other threads simultaneously. (SEPSDK-2909)

The performance of the H.264 video codec has been improved significantly reducing the CPU utilization on video calls with that codec. (SEPSDK-2903)

Upgrade Notes

No special procedure is required to upgrade to release 9.0.029.05.

9.0.028.07

SIP Endpoint SDK for OS X Release Notes

9.x SIP Endpoint SDK for OS X is part of 9.x starting in **9.0.004.07**.

Release Date	Release Type	Restrictions	AIX	Linux	Mac	Solaris	Windows
07/01/22	General				X		

What's New

This release contains the following new features and enhancements:

- A new option, **include_headset**, has been added to improve auto headset selection. (SEPSDK-2875)
- The implementation of DNS SRV resolution has been reworked in SIP Endpoint SDK and now relies on the native Service Discovery DNS capabilities. This new implementation resolves issues with dynamic updates of DNS servers in scenarios where VPN is connected after SDK-based application was started. (SEPSDK-2857)

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Resolved Issues

This release contains the following resolved issues:

Incoming **re-INVITE with offer SDP** adding an inactive video stream is now handled correctly. In earlier releases, such offers caused the video to start locally without sending an RTP request to the

remote side and the **sendVideoOfferForSession** method did not work. (SEPSDK-2884)

Upgrade Notes

No special procedure is required to upgrade to release 9.0.028.07.

9.0.027.07

SIP Endpoint SDK for OS X Release Notes

9.x SIP Endpoint SDK for OS X is part of 9.x starting in **9.0.004.07**.

Release Date	Release Type	Restrictions	AIX	Linux	Mac	Solaris	Windows
04/22/22	General				X		

What's New

This release contains the following new features and enhancements:

- A new API Delegate method (**videoFrameRenderNotification**) replaces the older **videoFrameReceivedNotification** to handle the memory deallocation process. The older method required the application to handle the deallocation process. (SEPSDK-2876)

Resolved Issues

This release contains no resolved issues.

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Upgrade Notes

No special procedure is required to upgrade to release 9.0.027.07.

9.0.027.05

SIP Endpoint SDK for OS X Release Notes

9.x SIP Endpoint SDK for OS X is part of 9.x starting in **9.0.004.07**.

Release Date	Release Type	Restrictions	AIX	Linux	Mac	Solaris	Windows
03/31/22	General				X		

What's New

This release contains the following new features and enhancements:

SIP Endpoint SDK now allows the application to set a video filter, which would receive all captured frames and modify them in-place to apply any desired effect. Refer to the **`enableVideoFilterWithFormat:(GSVideoRenderFormat)fmt`** and **`protocol GSVideoFilter`** methods in the API reference. (SEPSDK-2854)

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Resolved Issues

This release contains the following resolved issues:

Interactive Connectivity Establishment (ICE) support is improved to include the default destination of the media stream (specified in c-line and m-line of the SDP) into the list of ICE candidates as required by RFC 5245. (SEPSDK-2850)

Upgrade Notes

No special procedure is required to upgrade to release 9.0.027.05.

9.0.026.03

SIP Endpoint SDK for OS X Release Notes

9.x SIP Endpoint SDK for OS X is part of 9.x starting in **9.0.004.07**.

Release Date	Release Type	Restrictions	AIX	Linux	Mac	Solaris	Windows
09/14/22	Hot Fix				X		

What's New

This release includes only resolved issues.

Resolved Issues

This release contains the following resolved issues:

SIP Endpoint SDK now correctly processes the TLS exceptions caused by remote side disconnections. Earlier, the application was unstable if any other activity was ongoing in other threads simultaneously. (SEPSDK-2909)

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Upgrade Notes

No special procedure is required to upgrade to release 9.0.026.03.

9.0.026.01

SIP Endpoint SDK for OS X Release Notes

9.x SIP Endpoint SDK for OS X is part of 9.x starting in **9.0.004.07**.

Release Date	Release Type	Restrictions	AIX	Linux	Mac	Solaris	Windows
12/16/21	General				X		

What's New

This release contains the following new features and enhancements:

- SIP Endpoint SDK now plays local feedback when sending DTMF using the INFO method. The feedback can be silenced by using the new configuration setting, `policy.session.dtmf_feedback` to zero (also applicable to other DTMF methods). (SEPSDK-2826)
- A new setting `policy.device.exclude_headset` is added to exclude matching devices from being considered a valid headset. This settings prevents built-in audio to be recognized as a headset or excludes specific headsets from being automatically selected. (SEPSDK-2822)
- Ringer volume scaling is now kept on a per-device basis. In previous SDK versions, the volume was global and applicable to all ringer devices.
 - **Known limitation:** Ringer volume is reset to default (50 = no scaling) when audio device is unplugged or the SDK-based application is restarted.

(SEPSDK-2820)

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Resolved Issues

This release contains no resolved issues.

Upgrade Notes

No special procedure is required to upgrade to release 9.0.026.01.

9.0.025.03

9.x SIP Endpoint SDK for OS X is part of 9.x starting in **9.0.004.07**.

SIP Endpoint SDK for OS X Release Notes

Release Date	Release Type	Restrictions	AIX	Linux	Mac	Solaris	Windows
10/29/21	General				X		

What's New

This release contains the following new features and enhancements:

- The H.264 video codec is now included for Apple (arm64) architecture. Previously, the codec was only available for Intel architecture. (SEPSDK-2800)
- The iSAC/32000 audio codec is now included for Apple (arm64) architecture. Previously, the codec was only available for Intel architecture. (SEPSDK-2781)
- A new optional parameter is added to **codecs.enabled.video** setting to control the generation of Remote Estimate Maximum Bitrate (REMB) data for VP8 and VP9 video codecs: remb=N where N is one of the following values:
 - 0 - To disable REMB generation and congestion detection (default for VP9 codec)
 - 1 - To enable regular REMB and congestion detection (default for VP8 codec)
 - 2 - To enable fast-recovery mode, update the generated REMB values to the average of the locally calculated value and the value received from the far end of video call (SEPSDK-2766)

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Resolved Issues

This release contains no resolved issues.

Upgrade Notes

No special procedure is required to upgrade to release 9.0.025.03.

9.0.024.04

SIP Endpoint SDK for OS X Release Notes

Release Date	Release Type	Restrictions	AIX	Linux	Mac	Solaris	Windows
09/29/21	Hot Fix				X		

What's New

This release includes only resolved issues.

Resolved Issues

This release contains the following resolved issues:

SIP Endpoint SDK now correctly handles 500 Server Error responses from Session Border Controller (SBC) when connecting with TLS to a SIP Server that is down. The previous release of SIP Endpoint SDK 9.0.024.03 sometimes failed to respond when this scenario occurred. (SEPSDK-2796)

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Upgrade Notes

No special procedure is required to upgrade to release 9.0.024.04.

9.0.024.03

9.x SIP Endpoint SDK for OS X is part of 9.x starting in **9.0.004.07**.

SIP Endpoint SDK for OS X Release Notes

Release Date	Release Type	Restrictions	AIX	Linux	Mac	Solaris	Windows
06/25/21	General				X		

What's New

This release contains the following new features and enhancements:

- The handling of codec changes on an active call (triggered by re-INVITE from remote side) is improved:
 - Changing the G.279 annexb parameter no longer restarts the audio stream and the modified value is applied to the existing stream.
 - Non-compatible codec changes now force the SSRC reset correctly and resolves the 20 second delay when communication with the Microsoft RTC stack.

(SEPSDK-2767)

- This version of SIP Endpoint SDK for MacOS is released as a Universal 2 binary file, including code for both Intel (x86_64) and Apple (arm64) architectures.
Known limitation: The H.264 video codec and iSAC/32000 audio codec are included only for Intel architecture. (SEPSDK-2731)
- The built-in video renderer is deprecated in this release in favor of an application-defined external video renderer. (SEPSDK-2778)

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Resolved Issues

This release contains the following resolved issues:

SIP Endpoint SDK no longer crashes when multiple connections are present in the configuration file and the `enable` method is called for a new connection after the first connection. (SEPSDK-2779)

SIP Endpoint SDK now increments the SDP version in the new offer correctly. Previously, when a bare re-INVITE was received on a call with SRTP enabled and the remote side responded with the same Answer SDP to the Endpoint's new offer, the new SRTP key would not be properly applied, resulting in one-way audio. (SEPSDK-2775)

Upgrade Notes

No special procedure is required to upgrade to release 9.0.024.03.

9.0.023.01

9.x SIP Endpoint SDK for OS X is part of 9.x starting in 9.0.004.07.

SIP Endpoint SDK for OS X Release Notes

Release Date	Release Type	Restrictions	AIX	Linux	Mac	Solaris	Windows
03/25/21	General				X		

What's New

This release contains the following new features and enhancements:

- Support for macOS 11.2 (Big Sur) operating system. See the [SIP Endpoint SDK](#) page in the *Genesys Supported Operating Environment Reference Guide* for more detailed information and a list of all supported operating systems.

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Important

Computers with the Apple M1 processor are supported through the macOS 11 Rosetta 2 compatibility feature.

(SEPSDK-2729)

- A new optional parameter, **maxpkt** is added to the **codecs.enabled.video** option to specify the maximum RTP packet size for video codecs (including the RTP header but not counting the UDP and IP overheads).

```
<domain name="codecs">
```

```
<section name="enabled">
  <setting name="video" value="vp8,maxpkt=1342"/>
```

The valid values for this parameter are integers from 1024 to 1472, and the default value is 1442. (Any number outside the valid range would be adjusted to the closest allowable value.) (SEPSDK-2728)

Resolved Issues

This release contains the following resolved issues:

A new method is added to GSSessionService to get the content of connection-level SIP message by name (for example, name = "REGISTER") or by direction (using name = "<<" will return the latest received response):

```
(NSString*) getSIPMessageForConnectionId:(int) connectionId byName:(NSString*) name;
```

(SEPSDK-2747)

The enable method from the GSSipConnection protocol now picks up the changed config options correctly and does not fail if the disable method was not called before or was unsuccessful. (SEPSDK-2740)

Upgrade Notes

No special procedure is required to upgrade to release 9.0.023.01.

9.0.022.07

9.x SIP Endpoint SDK for OS X is part of 9.x starting in **9.0.004.07**.

SIP Endpoint SDK for OS X Release Notes

Release Date	Release Type	Restrictions	AIX	Linux	Mac	Solaris	Windows
06/04/21	Hot Fix				X		

What's New

This release includes only resolved issues.

Resolved Issues

This release contains the following resolved issues:

SIP Endpoint SDK now correctly increments the SDP version in the new offer. Previously, when a bare re-INVITE was received on a call with SRTP enabled and the remote side responded with the same Answer SDP to the Endpoint's new offer, the new SRTP key would not be properly applied, resulting in one-way audio. (SEPSDK-2776)

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Upgrade Notes

No special procedure is required to upgrade to release 9.0.022.07.

9.0.022.05

9.x SIP Endpoint SDK for OS X is part of 9.x starting in **9.0.004.07**.

SIP Endpoint SDK for OS X Release Notes

Release Date	Release Type	Restrictions	AIX	Linux	Solaris	Windows	OS X
12/17/20	General						X

What's New

This release contains the following new features and enhancements:

- If `req_interval` is configured as a non-zero value and if there is a DNS failure in resolving the SIP Server name on startup, SIP Endpoint SDK now retries registration attempts. Earlier, the connection was marked as failed and required the user to re-register the connection. (SEPSDK-2717)
- SIP Endpoint now includes an `a=ptime` parameter for outgoing SDP, when configured with a `ptime` key-value pair in `codecs.enabled.audio` setting, for example:

```
<domain name="codecs">
  <section name="enabled">
    <setting name="audio" value="g729,pcmu,ptime=40"/>
```

The valid values for this parameter depending on enabled codecs are:

- `ptime=20` (default) and `ptime=40` are allowed for all currently supported audio codecs
- `ptime=60` is allowed for G.711, G.722, G.729 and Opus (but not for iLBC and iSAC)

If specified, SIP Endpoint would add the `a='ptime'` parameter to both Offer SDP (always with configured value) and Answer SDP (with negotiated value, which may be different based on the remote Offer SDP).

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Important

As in previous releases, the size of outgoing RTP packets depends only on the `ptime` value in the remote SDP (The endpoint must send packets that the other side is willing to accept).

(SEPSDK-2709)

Resolved Issues

This release contains the following resolved issues:

SDP processing no longer makes the endpoint unstable after adding or removing video on an active call repeatedly. (SEPSDK-2719)

SIP Endpoint SDK now correctly ignores the media section with port 0 (indicating a rejected stream) in the incoming SDP. Earlier, the media attributes were applied incorrectly resulting in an incorrect processing of the SDP offer. (SEPSDK-2700)

The **`removeVideoStreamForSession`** method now returns correct values. Earlier this caused a failure result for successful operations. (SEPSDK-2690)

Upgrade Notes

No special procedure is required to upgrade to release 9.0.022.05.

9.0.021.05

9.x SIP Endpoint SDK for OS X is part of 9.x starting in 9.0.004.07.

SIP Endpoint SDK for OS X Release Notes

Release Date	Release Type	Restrictions	AIX	Linux	Solaris	Windows	OS X
09/24/20	General						X

What's New

This release contains the following new features and enhancements:

- Voice activity detection is improved to filter background noise more aggressively. (SEPSDK-2663)

Resolved Issues

This release contains the following resolved issues:

A potential crash in cases when the connection is deactivated immediately after an active call is released has been fixed. (SEPSDK-2679)

SIP Endpoint SDK now correctly handles G.729 codec with packet size of 60 milliseconds (SDP parameter ptime=60). Previously, such packets were processed incorrectly, only taking first 40 milliseconds of audio, resulting in poor audio quality. (SEPSDK-2683)

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Upgrade Notes

No special procedure is required to upgrade to release 9.0.021.05.

9.0.020.08

9.x SIP Endpoint SDK for OS X is part of 9.x starting in 9.0.004.07.

SIP Endpoint SDK for OS X Release Notes

Release Date	Release Type	Restrictions	AIX	Linux	Mac	Solaris	Windows
06/01/21	Hot Fix				X		

What's New

This release includes only resolved issues.

Resolved Issues

This release contains the following resolved issues:

SIP Endpoint SDK now increments the SDP version in the new offer correctly. Previously, when a bare re-INVITE was received on a call with SRTP enabled and the remote side responded with the same Answer SDP to the Endpoint's new offer, the new SRTP key would not be properly applied, resulting in an one-way audio. (SEPSDK-2774)

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Upgrade Notes

No special procedure is required to upgrade to release 9.0.020.08.

9.0.020.07

9.x SIP Endpoint SDK for OS X is part of 9.x starting in **9.0.004.07**.

SIP Endpoint SDK for OS X Release Notes

Release Date	Release Type	Restrictions	AIX	Linux	Solaris	Windows	OS X
08/27/20	Hot Fix						X

What's New

This release includes only resolved issues.

Resolved Issues

This release contains the following resolved issues:

Fixed an issue where, in certain instances, the SDK stopped responding when a connection was deactivated immediately after an active call was released. (SEPSDK-2679)

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Upgrade Notes

No special procedure is required to upgrade to release 9.0.020.07.

9.0.020.02

9.x SIP Endpoint SDK for OS X is part of 9.x starting in **9.0.004.07**.

SIP Endpoint SDK for OS X Release Notes

Release Date	Release Type	Restrictions	AIX	Linux	Solaris	Windows	OS X
06/25/20	General						X

What's New

This release contains the following new features and enhancements:

- SIP Endpoint SDK for OS X now can report SDK operational data to applications. For more information, refer to [Reporting Operational Data](#). (SEPSDK-2637)
- SIP Endpoint SDK now detects voice activity in incoming and outgoing audio streams. *One-way Audio* and *No Audio* conditions can be detected at the application level. (SEPSDK-2636)
- SIP Endpoint SDK now captures video from iPhones (or other iOS devices) when connected to an agent desktop with a Lightning connector. No special configuration is required and connected iOS devices will appear in the list of video capture devices automatically.

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Important

Known limitation: If the aspect ratio of the requested capture resolution does not match the aspect ratio of the attached iOS device screen, the remote video will be cropped. To avoid the cropping:

- Select the proper capability when starting a capture session for the iOS device.
- Change that capability when the device is rotated from portrait to landscape or vice

versa.

Although it is possible to adjust capture parameters automatically (based on the actual frames received), SIP Endpoint SDK does not do that. That functionality can be added to the application code as it has full access to frame size notifications (and to all video frames, if an external renderer is used). (SEPSDK-2618)

Resolved Issues

This release contains the following resolved issues:

SIP Endpoint SDK now correctly accepts the *best-effort SRTP* offer (RFC 5939) when configured with `system.security.use_srtp = "force"`. (SEPSDK-2653)

Upgrade Notes

No special procedure is required to upgrade to release 9.0.020.02.

9.0.019.02

9.x SIP Endpoint SDK for OS X is part of 9.x starting in **9.0.004.07**.

SIP Endpoint SDK for OS X Release Notes

Release Date	Release Type	Restrictions	AIX	Linux	Solaris	Windows	OS X
04/30/20	General						X

What's New

This release contains the following new features and enhancements:

- The DNS resolution for A-records is improved to keep the cache of resolved addresses. This prevents the application from being blocked when the system DNS resolver is slow to resolve addresses (because of a temporary DNS server failure or other reasons). (SEPSDK-2607)
- The GSEndpointNotificationDelegate protocol is updated to add frame dimensions to the *videoFrameReceivedNotification:width:height:frame* method to simplify the application rendering engine. (SEPSDK-2621)
- SIP Endpoint SDK now stops playing the ring tone for incoming calls immediately on receiving the request to answer, instead of waiting for the SIP transaction to complete (which might be delayed for a few seconds). (SEPSDK-2598)

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Resolved Issues

This release contains no resolved issues.

Upgrade Notes

No special procedure is required to upgrade to release 9.0.019.02.

9.0.018.04

9.x SIP Endpoint SDK for OS X is part of 9.x starting in **9.0.004.07**.

SIP Endpoint SDK for OS X Release Notes

Release Date	Release Type	Restrictions	AIX	Linux	Solaris	Windows	OS X
02/13/20	General						X

What's New

This release contains the following new features and enhancements:

- A new property is added to the GSAudioDevice object to provide Core Audio Device UID to the audio device:

```
/**
 * Value of kAudioDevicePropertyDeviceUID (Core Audio Device UID
 * of the device)
 */
@property (nonatomic, retain) NSString* devUID;
```

(SEPSDK-2580)

- A new method is added to initialize the GSVideoStream object to use an application-defined video renderer:
 - (id) initWithFormat:(GSVideoRenderFormat) format

When local or remote video is started with such objects, SDK does not render the video, but instead delivers raw frames to the application using the new notification delegate method:

```
/**
 * Called when video frame is received.
 *
 * @param videoID is negative for local video and video channel number for remote
 * @param data is raw video buffer (with format specified in GSVideoStream),
 * which is dynamically allocated and MUST be released by user
 */
- (void) videoFrameReceivedNotification:(int) videoID
```

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```
frame:(NSData*) data;
```

Important

Genesys recommends using `GSVideoRenderFormat::ARGB` for application-side rendering (as other formats might incur a performance penalty and were not fully tested). Raw frames in that format can be converted to images using:

```
CGImageCreate(videoW, videoH, 8,32,  
              videoW*4, colorspace,  
              kCGImageAlphaPremultipliedFirst|kCGImageByteOrder32Little,  
              dataProvider, NULL, FALSE, kCGRenderingIntentDefault);
```

where `dataProvider` is initialized with supplied raw frame data.

(SEPSDK-2572)

- SIP Endpoint SDK now includes an alternative C++ API in addition to the existing Objective-C API. (SEPSDK-2557)

Resolved Issues

This release contains no resolved issues.

Upgrade Notes

No special procedure is required to upgrade to release 9.0.018.04.

9.0.017.06

9.x SIP Endpoint SDK for OS X is part of 9.x starting in **9.0.004.07**.

SIP Endpoint SDK for OS X Release Notes

Release Date	Release Type	Restrictions	AIX	Linux	Solaris	Windows	OS X
11/25/19	Hot Fix						X

What's New

This release contains the following new features and enhancements:

- Logs can now include raw audio frame trace information. To enable this feature, include the parameter, `raft=1` to the **system.diagnostics.log_option_provider** setting. When enabled, the partial contents of the last 4 audio frames printed at each voice quality checkpoint (approximately every 10 seconds during the call) do not affect the log size significantly and thus are acceptable for use in production. (SEPSDK-2555)

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Resolved Issues

This release contains no resolved issues.

Upgrade Notes

No special procedure is required to upgrade to release 9.0.017.06.

9.0.017.05

9.x SIP Endpoint SDK for OS X is part of 9.x starting in **9.0.004.07**.

SIP Endpoint SDK for OS X Release Notes

Release Date	Release Type	Restrictions	AIX	Linux	Solaris	Windows	OS X
11/08/19	General						X

What's New

This release contains the following new features and enhancements:

- SIP Endpoint SDK now supports macOS 10.15 "Catalina". (SEPSDK-2495)
- SIP Endpoint SDK now supports videos. (SEPSDK-2503)
- With TLS connections to a SIP registrar, SIP Endpoint SDK tries to reconnect immediately after the connection fails without waiting for the registration to expire. This improves the reaction time to a SIP Server or Proxy failure. Genesys recommends using small reg_expire values when using external connections as the client-side of the SIP registrar failure. (SEPSDK-2528)
- DNS resolution of SRV records has been improved to ensure SIP Endpoint maps to one datacenter (SRV target) until all nodes in that DC fails. (SEPSDK-2311)
- Two new methods have been added to GSEndpoint.h protocol to control audio balance. The pan values set by these functions are preserved until SDK restart and applied to all currently active and future channels of given type. Default audio balance (pan values used when these methods not used) are left: 1.0 and right: 1.0.

```
/**
 * Set the audio balance for speaker and ringer audio channels
 * @param scale values for left / right channel, from 0.0 to 1.0
 * @returns the result of the operation
 */
- (GSResult) speakerVolumePanLeft:(float) leftScale right:(float) rightScale;
- (GSResult) ringerVolumePanLeft:(float) leftScale right:(float) rightScale;
```

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(SEPSDK-2526)

Resolved Issues

This release contains the following resolved issues:

SIP Endpoint now properly publishes Voice Quality reports, when configured to do so, and no RTCP packets are received from remote side or call was dropped because of inactivity timeout. In previous versions both these conditions incorrectly blocked VQ reports. (SEPSDK-2521, SEPSDK-2498)

Upgrade Notes

No special procedure is required to upgrade to release 9.0.016.03.

9.0.016.03

9.x SIP Endpoint SDK for OS X is part of 9.x starting in **9.0.004.07**.

SIP Endpoint SDK for OS X Release Notes

Release Date	Release Type	Restrictions	AIX	Linux	Solaris	Windows	OS X
08/30/19	General						X

What's New

This release contains the following new features and enhancements:

- Dynamic reconfiguration of SIP Endpoint SDK has been improved and no longer requires a full SDK restart for most settings, refer to [Support for Dynamic Reconfiguration](#) supplementary documentation page for details. (SEPSDK-2491)
- SIP Endpoint SDK can be now configured to play the ringtone once for the full duration to ensure that the agent always has an audio notification for incoming calls in auto-answer scenarios. (SEPSDK-2484)
- The GSAudioDevice protocol is extended with the *UInt32 transpType* property, which is populated with the *kAudioDevicePropertyTransportType* values. (SEPSDK-2455)
- SIP Endpoint SDK now supports SIP Cluster. For more information on SIP Cluster, see [SIP Cluster Solution](#). (SEPSDK-2461)

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Resolved Issues

This release contains the following resolved issues:

Support for Secure RTP has been improved and no longer stops processing incoming audio when receiving a re-INVITE with a new SDP offer containing an old cryptographic key, if that happens 30 minutes after the call was started. (SEPSDK-2490)

SIP Endpoint SDK no longer shuts down unexpectedly after a restart when the ringtone playback stops 480 milliseconds before the restart. (SEPSDK-2487)

SIP Endpoint SDK now properly accounts for Packet Loss Concealment when calculating the voice quality MOS metric for G.711 and wide-band codecs. (SEPSDK-2465)

Upgrade Notes

No special procedure is required to upgrade to release 9.0.016.03.

9.0.015.04

9.x SIP Endpoint SDK for OS X is part of 9.x starting in **9.0.004.07**.

SIP Endpoint SDK for OS X Release Notes

Release Date	Release Type	Restrictions	AIX	Linux	Solaris	Windows	OS X
08/01/19	Hot Fix						X

What's New

This release includes only resolved issues.

Resolved Issues

This release contains the following resolved issues:

SIP Endpoint SDK no longer shuts down unexpectedly when a call is active on the endpoint and SDK is stopped and not restarted immediately. (SEPSDK-2483)

SIP Endpoint SDK now properly releases the active audio device before playing a ringtone on a different device. Previously, there were audio problems with some headset models during consultation calls. (SEPSDK-2480)

System shutdowns that rarely happen on releasing a call, or when an active codec is changed during call setup, have been fixed. (SEPSDK-2307)

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Upgrade Notes

No special procedure is required to upgrade to release 9.0.015.04.

9.0.014.06

9.x SIP Endpoint SDK for OS X is part of 9.x starting in **9.0.004.07**.

SIP Endpoint SDK for OS X Release Notes

Release Date	Release Type	Restrictions	AIX	Linux	Solaris	Windows	OS X
06/13/19	Hot Fix						X

What's New

This release includes only resolved issues.

Resolved Issues

This release contains the following resolved issues:

SIP Endpoint SDK no longer stops responding if the application tries to open a TLS connection when the network is disconnected and SDK is restarted. (SEPSDK-2457)

The deadlock issues that occurred when the SIP connectivity failed and the application tried connecting to a different SIP Server have been resolved. (SEPSDK-2449)

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Upgrade Notes

No special procedure is required to upgrade to release 9.0.014.06.

9.0.014.05

9.x SIP Endpoint SDK for OS X is part of 9.x starting in **9.0.004.07**.

SIP Endpoint SDK for OS X Release Notes

Release Date	Release Type	Restrictions	AIX	Linux	Solaris	Windows	OS X
05/17/19	Hot Fix						X

What's New

This release includes only resolved issues.

Resolved Issues

This release contains the following resolved issues:

SIP Endpoint SDK no longer shuts down unexpectedly when a call is active on the endpoint and SDK is stopped and not restarted immediately. (SEPSDK-2432)

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Upgrade Notes

No special procedure is required to upgrade to release 9.0.014.05.

9.0.014.04

9.x SIP Endpoint SDK for OS X is part of 9.x starting in **9.0.004.07**.

SIP Endpoint SDK for OS X Release Notes

Release Date	Release Type	Restrictions	AIX	Linux	Solaris	Windows	OS X
05/03/19	General						X

What's New

This release includes only resolved issues.

Resolved Issues

This release contains the following resolved issues:

SIP Endpoint SDK no longer updates the IP address in the Contact header of the REGISTER message based on the **received** parameter, in case when the **public_address** option is configured with specific network interface name or when the **sip_port_binding** option is set to *1*. (SEPSDK-2396)

A new setting, **policy.endpoint.defer_device_release** is added to control the delay period for releasing audio devices after the audio stream is stopped. (SEPSDK-2361)

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Upgrade Notes

No special procedure is required to upgrade to release 9.0.014.04.

9.0.013.05

9.x SIP Endpoint SDK for OS X is part of 9.x starting in **9.0.004.07**.

SIP Endpoint SDK for OS X Release Notes

Release Date	Release Type	Restrictions	AIX	Linux	Solaris	Windows	OS X
03/08/19	Hot Fix						X

What's New

This release includes only resolved issues.

Resolved Issues

This release contains the following resolved issues:

This component no longer unexpectedly shuts down in cases where zero-sized UDP packets are received on the RTCP port when Secure RTP is used in the currently active call. (SEPSDK-2385)

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Upgrade Notes

No special procedure is required to upgrade to release 9.0.013.05.

9.0.013.04

9.x SIP Endpoint SDK for OS X is part of 9.x starting in **9.0.004.07**.

SIP Endpoint SDK for OS X Release Notes

Release Date	Release Type	Restrictions	AIX	Linux	Solaris	Windows	OS X
02/28/19	General						X

What's New

This release includes only resolved issues.

Resolved Issues

This release contains the following resolved issues:

Audio device support is improved to avoid a full device restart during the call by delaying the device release for a short interval. This eliminates potential service delays when stopping or restarting the audio device takes longer than usual. (SEPSDK-2358)

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Upgrade Notes

No special procedure is required to upgrade to release 9.0.013.04.

9.0.012.03

9.x SIP Endpoint SDK for OS X is part of 9.x starting in **9.0.004.07**.

SIP Endpoint SDK for OS X Release Notes

Release Date	Release Type	Restrictions	AIX	Linux	Solaris	Windows	OS X
12/21/18	General						X

What's New

This release contains the following new features and enhancements:

- The name and meaning of log level 0 has been changed to *critical*, as the historical name, *fatal error* no longer reflected the actual usage of that log level. (SEPSDK-2308)
- For security reasons, TURN credentials are removed from the configuration file. The recommended way to specify these values is from the application, but if that is not possible, then the environment variables, GCTI_TURN_USERNAME and GCTI_TURN_PASSWORD may be used as a more secure alternative to a plain-text file. (SEPSDK-2295)

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Resolved Issues

This release contains the following resolved issues:

Crashes that rarely happen on releasing a call, or when an active codec is changed during call setup, have been fixed. (SEPSDK-2307)

SIP Endpoint SDK now properly maintains sticky registration sessions with one data center, when DNS resolution for SRV contact is significantly delayed. (SEPSDK-2303)

Reporting audio statistic in SIP Endpoint SDK has been improved:

- Getting statistics for a recently released call now works correctly even after the Endpoint object had been stopped,
- The calculated MOS value can no longer fall below 1.0 (except for special case 0.0 indicating "not enough data for MOS calculation")
- The current codec information has been added to the call statistics structure to allow the application to apply the per-codec corrections, if needed.

(SEPSDK-2285)

Upgrade Notes

No special procedure is required to upgrade to release 9.0.012.03.

9.0.011.09

SIP Endpoint SDK for OS X Release Notes

Release Date	Release Type	Restrictions	AIX	Linux	Solaris	Windows	OS X
10/17/18	Hot Fix						X

What's New

This release includes only resolved issues.

Resolved Issues

This release contains the following resolved issues:

The **disable** and **enable** methods of the `GSSipConnection` class are modified to work correctly in cases when the SIP registration fails because of a SIP Server unavailability. (SEPSDK-2265)

SIP Endpoint SDK no longer crashes when the audio playback format is changed during a call. (SEPSDK-2255)

The session-level speaker volume is no longer reset when audio is restarted (for example, when the codec changes during the call). (SEPSDK-2254)

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Upgrade Notes

No special procedure is required to upgrade to release 9.0.011.09.

9.0.011.06

9.x SIP Endpoint SDK for OS X is part of 9.x starting in **9.0.004.07**.

SIP Endpoint SDK for OS X Release Notes

Release Date	Release Type	Restrictions	AIX	Linux	Solaris	Windows	OS X
09/26/18	General						X

What's New

This release contains the following new features and enhancements:

- SIP Endpoint SDK now supports changing the ringer volume without changing the device volume.
- SIP Endpoint SDK now supports macOS 10.14 (Mojave).

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Resolved Issues

This release contains the following resolved issues:

SIP Endpoint SDK now handles connection shutdown correctly, fixing potential crashes in the StopEndpoint API call. (SEPSDK-2233)

A new value of 4 has been added to the **sipendpoint.policy.session.ringback_enabled** option to play ring-back from Media Gateway even if the provisional response with SDP is not reliable. (SEPSDK-2201)

For security reasons, support of TLS version 1.0 and earlier SSL versions is removed. The default

value of `sec-protocol` setting now selects TLS versions 1.1 or 1.2 (highest supported by server).
(SEPSDK-2253)

Upgrade Notes

No special procedure is required to upgrade to release 9.0.011.06.

9.0.010.09

9.x SIP Endpoint SDK for OS X is part of 9.x starting in **9.0.004.07**.

SIP Endpoint SDK for OS X Release Notes

Release Date	Release Type	Restrictions	AIX	Linux	Solaris	Windows	OS X
08/23/18	Hot Fix						X

What's New

This release includes only resolved issues.

Resolved Issues

This release contains the following resolved issues:

SIP Endpoint SDK no longer crashes on restart when there is an active call and the SIP Server is not reachable. (SEPSDK-2217)

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Upgrade Notes

No special procedure is required to upgrade to release 9.0.010.09.

9.0.010.08

9.x SIP Endpoint SDK for OS X is part of 9.x starting in **9.0.004.07**.

SIP Endpoint SDK for OS X Release Notes

Release Date	Release Type	Restrictions	AIX	Linux	Solaris	Windows	OS X
08/09/18	Hot Fix						X

What's New

This release includes only resolved issues.

Resolved Issues

This release contains the following resolved issues:

The correct name for the audio device is now displayed and properly reflects the data source name when the headphones are plugged into the 3.5 mm jack. (SEPSDK-2182)

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Upgrade Notes

No special procedure is required to upgrade to release 9.0.010.08.

9.0.010.07

9.x SIP Endpoint SDK for OS X is part of 9.x starting in **9.0.004.07**.

SIP Endpoint SDK for OS X Release Notes

Release Date	Release Type	Restrictions	AIX	Linux	Solaris	Windows	OS X
07/31/18	Hot Fix						X

What's New

This release includes only resolved issues.

Resolved Issues

This release contains the following resolved issues:

To support the macOS Mojave (10.14) release, the typing detection feature in SIP Endpoint SDK is turned off by default. The feature can be re-enabled by setting the configuration option `policy.session.noise_supression = 7`. In that case, the SDK-based application must be explicitly whitelisted in **Security > Privacy > Accessibility** settings to allow audio to be captured correctly. (SEPSDK-2124)

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Upgrade Notes

No special procedure is required to upgrade to release 9.0.010.07.

9.0.010.04

SIP Endpoint SDK for OS X Release Notes

Release Date	Release Type	Restrictions	AIX	Linux	Solaris	Windows	macOS
06/26/18	General						X

What's New

This release includes only resolved issues.

Resolved Issues

This release contains the following resolved issues:

SIP Endpoint SDK does not crash when the SDK is stopped and started again, without restarting an application. (SEPSDK-2098)

The TLS connection now works properly when the reverse DNS lookup for the local IP address fails. Previously, opening the SIP port for the TLS connection failed in such conditions. (SEPSDK-2085)

Upgrade Notes

No special procedure is required to upgrade to release 9.0.010.04.

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9.0.009.02

SIP Endpoint SDK for OS X Release Notes

Release Date	Release Type	Restrictions	AIX	Linux	Solaris	Windows	macOS
05/09/18	General						X

What's New

This release contains the following new features and enhancements:

- SIP Endpoint SDK now supports UNENCRYPTED_SRTP parameter per RFC 4568, and also understands "best-effort SRTP" (optional SRTP offer) per RFC 5939, accepting or rejecting SRTP based on the configured security policy.
- Audio statistics provided by SIP Endpoint SDK are enhanced with additional audio decoding stats, including the number of frames decoded normally, affected by Packet Loss Concealment (PLC) or Comfort Noise Generator (CNG), or with complete silence. In addition, Voice Quality alarm is raised when no RTP packets are received for a long period.

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Resolved Issues

This release contains the following resolved issues.

- The `public_address` setting now supports using subnet addresses for networks.
 - `$net:subnet` (where *subnet* is a full CIDR name per RFC 4632, for example, "`$net:192.168.0.0/16`")
 - The SDK selects the first valid IP address that belongs to specified subnet.In addition, to support dynamic VPN connection, SIP Endpoint SDK does not start registration attempts until the interface (configured by adapter name or subnet) is available.
- SIP Endpoint SDK now supports receiving-side (Rx) Automatic Gain Control.

Upgrade Notes

No special procedure is required to upgrade to release 9.0.009.02.

9.0.008.04

SIP Endpoint SDK for OS X Release Notes

Release Date	Release Type	Restrictions	AIX	Linux	Solaris	Windows	macOS
03/09/18	General						X

What's New

This release contains the following new features and enhancements:

- SIP Endpoint SDK now provides an API for getting SIP messages, SDP content, and negotiated codec name for the currently active session.
- SIP Endpoint SDK now provides access to incoming and outgoing audio streams for the host application.
- SIP Endpoint SDK now supports IPV6, NAT, ICE, TURN, STUN for Mac OS.

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Resolved Issues

This release contains the following resolved issues:

Disaster recovery in SIP Endpoint SDK has been improved to switch to another registrar for the following scenarios involving SBC:

- SIP registration times out,
- Any of the 408/480/486/500/503/504 error codes are returned from SBC indicating a temporary failure. (SEPSDK-1960)

SIP Endpoint SDK now switches from rfc2833 to InbandRTP DTMF method automatically when an RTP payload for telephone-event was not negotiated for a particular call. (SEPSDK-1956)

SIP Endpoint SDK now sends DTMF using rfc2833 method when the RTP payload for telephone-event was changed by re-INVITE during the call. (SEPSDK-1954)

Upgrade Notes

No special procedure is required to upgrade to release 9.0.008.04.

9.0.007.01

SIP Endpoint SDK for OS X Release Notes

Release Date	Release Type	Restrictions	AIX	Linux	Solaris	Windows	macOS
01/05/18	General						X

What's New

This release includes only resolved issues.

Resolved Issues

This release contains the following resolved issues:

SIP Endpoint SDK now plays the ring tone for incoming call after stop() and start() operations. (SEPSDK-1914)

When the log_type is configured to external, the log is now sent to NSLog. (SEPSDK-1913)

The Stop() API call now sets the Endpoint state to inactive. (SEPSDK-1912)

SIP Endpoint SDK no longer becomes unstable after 2 to 3 cycles of stop() and start(). (SEPSDK-1908)

The getOutputVolume method now returns session level output volume correctly. Unsupported methods to control the per-session microphone level are removed from the GSSession object. (SEPSDK-1900)

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Upgrade Notes

No special procedure is required to upgrade to release 9.0.007.01.

9.0.006.10

SIP Endpoint SDK for OS X Release Notes

Release Date	Release Type	Restrictions	AIX	Linux	Solaris	Windows	macOS
12/15/17	General						X

What's New

This release contains the following new features and enhancements:

- Resilience to network events, such as IP address changes caused by PC Sleep/Wake, has been further enhanced, to ignore the configured `reg_interval` value when re-registering the DN with a new IP address.
- Improved detection and handling cases when an existing device is removed/unplugged and/or a new device is added/plugged-in.
- SIP Endpoint SDK now uses the newer `libc++` C++ standard runtime library instead of the deprecated `libstdc++` library.
- The following options have been added to SIP Endpoint SDK:
 - Updated the `audio_in_device`, `audio_out_device`, `capture_device`, `ringer_device`, and `headset_name` options to support regex matching for device selection.
 - New option, `audio` to specify codec priorities.
- For improved security, the local IP address is no longer included in the Call-ID header of SIP messages sent by the SIP Endpoint.

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Resolved Issues

This release contains the following resolved issues:

DNS SRV resolution has been improved to ignore temporary DNS failures. Previously, such failures resulted in SIP Endpoint failing to renew registration in time and causing the agent to be logged out. (SEPSDK-1873)

Upgrade Notes

No special procedure is required to upgrade to release 9.0.006.10.

9.0.005.06

9.x SIP Endpoint SDK for OS X is part of 9.x starting in **9.0.004.07**.

SIP Endpoint SDK for OS X Release Notes

Release Date	Release Type	Restrictions	AIX	Linux	Solaris	Windows	OSX
10/06/17	General						X

What's New

This release contains the following new features and enhancements:

- SIP Endpoint SDK now supports the G.729 codec on Mac OS X platform. Previously, the codec was supported only on the .NET platform.
- SIP Endpoint SDK now calculates MOS during the call duration to estimate current voice quality, and can generate an alarm when the MOS falls below the configured threshold, which notifies the user about this condition.
- SIP Endpoint SDK now supports additional optimization for the Opus codec.

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Resolved Issues

This release contains no resolved issues.

Upgrade Notes

No special procedure is required to upgrade to release 9.0.005.06.

9.0.004.07

9.x This is the first 9.x release of **SIP Endpoint SDK for OS X**.

SIP Endpoint SDK for OS X Release Notes

Release Date	Release Type	Restrictions	AIX	Linux	Solaris	Windows	macOS
08/31/17	General						X

What's New

This release contains the following new features and enhancements:

- A new log filter has been added to hide DTMF data from logs.
- SIP Endpoint SDK now supports macOS Sierra 10.12.
- Outgoing calls now support ringback tones.
- New parameters, `cipher-list` and `tls-crl`, added to match Genesys Security Guide.

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Resolved Issues

This release contains no resolved issues.

Upgrade Notes

No special procedure is required to upgrade to release 9.0.004.07.