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Genesys Softphone Deployment Guide

Genesys Softphone configuration options

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Genesys Softphone configuration options

This article lists and describes, by container and then by domain, the configuration settings in the **<Genesys Softphone Installation Directory>\Softphone.config** file. For an example of the configuration file, see [Configuring Genesys Softphone](#). It also describes how to configure Genesys Softphone to work with the audio devices that you use in your environment.

When you install Genesys Softphone, either by using the **Genesys Installation Wizard** or silently by command line, the **Softphone.config** and **genesys_softphone.exe** files are both **installed**. The contents of the **Softphone.config** file is generated by the choices you specify in the wizard or by modifications you make to the **genesys_silent.ini** file.

In the **Softphone.config** file, the **setup.exe** executable sets the values of the following attributes of the **Connector** section: **protocol**, **port**, and **certificate_search_value**. The **enable_sessionid** and **auto_restart** are not set by the executable; you must set these yourself. The default values of these attributes are designed to address most business deployments. However, if you want to adjust their values, follow these steps to make a custom deployment:

1. Install Genesys Softphone on an administrator's machine.
2. Edit the **Softphone.config** file to change the values of the attributes in the **Connector** section.
3. Repackage Genesys Softphone with the custom **Softphone.config** file through an IT-controlled installation.
4. Push the custom package to the agent workstations.

Tip

If you use Workspace Web Edition with Genesys Softphone, use the Workspace [SIP Endpoint options](#) to set up your environment.

Basic container

The Basic container holds the connectivity details that are required to connect to your SIP Server, optionally through a Session Border Controller (SBC). This container has at least one connection (Connectivity) element with the following attributes:

```
<Connectivity user="DN" server="SERVER:PORT" protocol="TRANSPORT"/>
```

If you are using a configuration that supports [Disaster Recovery and Geo-Redundancy](#), there can be multiple connection elements present, with each element specifying a separate possible connection. Refer to the [configuration settings](#) of that feature for details.

You must make the following changes and save the updated configuration file before using Genesys Softphone:

- **user="DN"**: Supply a valid DN for the user attribute.
- **server="SERVER:PORT"**: Replace SERVER with the host name where your SIP Server or SBC is deployed, and PORT with the SIP port of the SIP Server or SBC host. The default SIP port value is 5060. For SRV resolution, specify the SRV record without including the port number in the server's URI. Also see [SRV Resolution](#) below.
- **protocol="TRANSPORT"**: Set the protocol attribute to reflect the protocol being used to communicate with SIP Server or SBC. Possible values are **UDP**, **TCP**, or **TLS**.

SRV resolution

When using an SRV record for the **server** parameter, note the following:

- Do not specify the port in the server URI.
- Genesys Softphone does not take into account the **weight** field of an SRV record.
- You cannot combine IPv4 and IPv6 for a single FQDN.
- The maximum number of targets (SRV records) per service is 20.
- You can only specify SRV records in the **server** parameter of the **Connectivity** element. You cannot use SRV records for the mailbox section or the **vq_report_collector** setting.

Important

Your environment can have up to six SIP URIs (Connectivity sections) that represent six endpoint connections with SIP Server.

Domain	Section	Setting	Default value	Description
	Connectivity	user		The first user's DN extension as configured in the configuration database. Included in the SIP URI. For example, <sip: DN0 @serverHostName0:port
		server		The SIP Server or Proxy location for the first user. Included in the SIP URI. For example, <sip:DN0@ serverHostName0 :p
		protocol		The transport protocol for the first user. For example, UDP, TCP, or TLS.
		For more information, see the Basic Container description in the <i>SIP Endpoint SDK for .NET Developer's Guide</i> and <i>SIP</i>		

Domain	Section	Setting	Default value	Description
		<i>Endpoint SDK for OSX Developer's Guide.</i>		

Genesys container

The Genesys container holds configurable settings that are organized into domains and sections. You don't have to change these settings but you can customize them.

The following table describes the settings in this container and their valid values:

Domain	Section	Setting	Values	Description
policy	endpoint			
		defer_device_release	Integer	Specifies a time in milliseconds before releasing audio devices after the audio stream has been stopped. Deferring device release avoids potential service interruptions if the audio will be restarted quickly and if audio device operations are too slow on the user workstation or has other problems with restart. The value 0 disables deferred device release. Default Value: 200
		gui_call_lines	Number from 1 to 7	This option controls the number of phone lines in the First Party Call Control tab. Valid values: Integer between 1 and 7. Default value: 3
		gui_tabs	Comma-separated list of tab names	This option controls what tabs

Domain	Section	Setting	Values	Description
				<p>are shown in the GUI and their order.</p> <p>Valid values: Comma-separated list of tab names in any order. The tab names are status, calls, and devices. Names can be shortened to stat, call, and dev. The value is case sensitive. This option ignores unrecognizable and duplicate tab names. If the setting is present but has an incorrect value, the value will fall back to the single tab status. Default value: status,calls,devices</p>
		include_mac_address	Number	<p>If set to 1, the MAC address is included in the Contact header of the REGISTER message of the host's network interface in a format compatible with RFC 5626.</p> <p>Default value: 0</p>
		include_os_version_in_user_agent_header	Number	<p>If set to 1, the User Agent field includes the OS version the client is currently running on.</p> <p>Default value: 1</p>
		include_sdk_version_in_user_agent_header	Number	<p>If set to 1, the User Agent field includes the SDK version the client is currently running on.</p> <p>Default value: 1</p>

Domain	Section	Setting	Values	Description
		ip_versions	IPv4 IPv6 IPv4,IPv6 IPv6,IPv4 empty	<ul style="list-style-type: none">• A value of IPv4 means that the application selects an available local IPv4 address; IPv6 addresses are ignored.• A value of IPv6 means that the application selects an available local IPv6 address; IPv4 addresses are ignored.• A value of IPv4,IPv6 or an empty value means that the application selects an IPv4 address if one exists. If not, an available IPv6 address is selected.• A value of IPv6,IPv4 means that the application selects an IPv6 address if one exists. If not, an available IPv4 address is selected. <p>Default value: IPv4 NOTE: This parameter has no effect if the public_address option specifies an explicit IP address.</p>
		public_address	String	Local IP address or Fully Qualified Domain Name (FQDN) of the machine. This setting can be an explicit setting or a special value that

Domain	Section	Setting	Values	Description
				<p>the GSP uses to automatically obtain the public address.</p> <p>Valid values: This setting can have one of the following explicit values:</p> <ul style="list-style-type: none"> An IP address. For example, 192.168.16.123 for IPv4 or FE80::0202:B3FF:FE1E:8329 for IPv6. A bare host name or fully qualified domain name (FQDN). For example, epsipwin2 or epsipwin2.us.example.com. <p>This setting can have one of the following special values:</p> <ul style="list-style-type: none"> \$auto: The GSP selects the first valid IP address on the first network adapter that is active (status=up) and specifies the default gateway. IP family preference is specified by the policy.endpoint.ip_versions setting. \$ipv4 or \$ipv6: Same behavior as the \$auto setting but the GSP restricts the address to a particular IP family.

Domain	Section	Setting	Values	Description
				<ul style="list-style-type: none"> • <code>\$host</code>: The GSP retrieves the standard host name for the local computer using the <code>gethostname</code> system function. • <code>\$fqdn</code>: The GSP retrieves the fully qualified DNS name of the local computer. The GSP uses the <code>GetComputerNameEx</code> function with parameter <code>ComputerNameDnsFullyQualif</code> • <code>\$net:<subnet></code> Where 'subnet' is a full CIDR name, as per RFC 4632. For example, '<code>\$net:192.168.0.0/16</code>'. The first valid IP address that belongs to the specified subnet is selected. To support a dynamic VPN connection, Genesys Softphone does not start registration attempts until the interface (configured by adapter name or subnet) is available. • An adapter name or part of an adapter name prefixed with <code>\$</code>. For example,

Domain	Section	Setting	Values	Description
				<p>\$Local Area Connection 2 or \$Local. The specified name must be different from the special values \$auto, \$ipv4, \$host, and \$fqdn.</p> <ul style="list-style-type: none"> • \$(rule1,rule2,...) – Genesys Softphone will select the IP address from the network interface that matches with at least one of the given rules. The valid rules are: <ul style="list-style-type: none"> • if='string' – matches interface with name or description given in the string. For example, if='Wi-Fi' selects IP address from Wi-Fi adapter (if present). • if!='string' – excludes the interface name that matches with the interface name and description given in the string; intended to exclude

Domain	Section	Setting	Values	Description
				<p>only one particular interface. For example, if!= 'Bluetooth'</p> <ul style="list-style-type: none">• net= 'CIDR' - matches the interface with IP address on given subnet, where CIDR is the full CIDR name as per RFC 4632. For example, net= '10.0.0.0/8' selects network adapter having IP address on given local subnet.• net!= 'CIDR' - excludes the interface with IP address on given subnet that matches with the given IP address on a specific subnet, where CIDR is the full CIDR name as per RFC 4632; intended to exclude specific

Domain	Section	Setting	Values	Description
				<p>subnet. For example, net!= '192.168.1.0/24'.</p> <p>when multiple interfaces satisfy the given rule set, local IP address selection is based on OS-defined priorities, working the same way as it does with the default configuration.</p> <p>Default value: Empty string which is fully equivalent to the \$auto value. If the value is specified as an explicit host name, FQDN, or \$fqdn, the Contact header includes the host name or FQDN for the recipient of SIP messages (SIP Server or SIP proxy) to resolve on their own. For all other cases, including \$host, the resolved IP address is used for Contact. The value in SDP is always the IP address.</p>
		rtp_inactivity_timeoutNumber		<p>Timeout interval in seconds for RTP inactivity.</p> <p>Valid values: Integers from 5 to 150.</p>

Domain	Section	Setting	Values	Description
				Default value: 150 Suggested value: 30
		rtp_port_binding	Number	<p>Specifies how Genesys Softphone binds the RTP port:</p> <ul style="list-style-type: none">• 0 — opens the RTP and RTCP ports to listen on any network interface.• 1 — opens the RTP and RTCP ports to listen only on the interface specified by the public_address setting. <p>Important: When rtp_port_binding is set to 0, the ip_versions option must specify a single IP version, otherwise a wrong protocol version might be selected for outgoing UDP packages. Valid values: 0, 1 Default value: 1</p>
		rtp_port_min	Number	<p>The integer value representing the minimum value for an RTP port range. Must be within the valid port range of 1 to 65535. If the minimum and maximum values are not specified or are set to an invalid value, the default minimum (9000) and maximum (minimum value + 999) are used. Setting the minimum to a value that is larger than the maximum</p>

Domain	Section	Setting	Values	Description
				is considered an error and will result in a failure to initialize the endpoint.
		rtp_port_max	Number	The integer value representing the maximum value for an RTP port range. Must be within the valid port range of 1 to 65535. If the minimum and maximum values are not specified or are set to an invalid value, the default minimum (9000) and maximum (minimum value + 999) are used. Setting the maximum to a value that is less than the minimum is considered an error and will result in a failure to initialize the endpoint.
		tcp_port_min	Number	The integer value representing the minimum value for a TCP client-side port range. Must be within the valid port range of 1 to 65535. If set to 0 (default) or if the configured range is not valid, SIP connections over TCP and TLS use ephemeral ports, assigned by the operating system.
		tcp_port_max	Number	The integer value representing the maximum value for a TCP client-side port range. Must be within the

Domain	Section	Setting	Values	Description
				<p>valid port range of 1 to 65535.</p> <p>If set to 0 (default) or if the configured range is not valid, SIP connections over TCP and TLS use ephemeral ports, assigned by the operating system.</p> <p>If the value is non-zero and greater than the tcp_port_min value, this value specifies the maximum value for a TCP client-side SIP port range that will be used for all outgoing SIP connections over TCP and TLS transport.</p>
		sip_port_min	Number	<p>The integer value representing the minimum value for a SIP port range. Must be within the valid port range of 1 to 65535. If the minimum and maximum values are not specified or are set to an invalid value, the default minimum (5060) and maximum (minimum value + 6) are used. Setting the minimum to a value that is larger than the maximum is considered an error and will result in a failure to initialize the endpoint.</p>
		sip_port_max	Number	<p>The integer value representing the maximum value for a SIP port range. Must be within the valid port range of 1 to 65535. If the minimum and maximum values are not specified</p>

Domain	Section	Setting	Values	Description
				or are set to an invalid value, the default minimum (5060) and maximum (minimum value + 6) are used. Setting the maximum to a value that is less than the minimum is considered an error and will result in a failure to initialize the endpoint.
		sip_transaction_timeout	Number	SIP transaction timeout value in milliseconds. Valid values: 1 through 32000. Default value: 32000 (starting from release 9.0.018.06; for previous releases: 4000) Recommended value: 32000
		vq_alarm_threshold	0 (default) or number from 1.0 to 5.0	Specifies Mean Opinion Score (MOS — a measure of reported network quality ratings) threshold for generating Voice Quality Alarms. The value 0 disables the alarms. The recommended threshold value is 3.5. Using values above 4.2 are not recommended as an MOS that high might not be obtainable with some codecs, even under perfect network conditions.
		vq_report_collector		See SIP Endpoint SDK for .NET 9.0.0NET—Producing_RTCP_Extensions and SIP Endpoint

Domain	Section	Setting	Values	Description
				SDK for OSX—Producing RTCP Extended Reports.
		vq_report_publish		See SIP Endpoint SDK for .NET 9.0.0 NET—Producing_RTCP_Extended and SIP Endpoint SDK for OSX—Producing RTCP Extended Reports .
		webrtc_audio_layer	0 1 2 500 501 502 1000 1001 1002 2000 2001 2002 3000 3001 3002	Valid values: <ul style="list-style-type: none"> • 0: The audio layer is defined by the GCTI_AUDIO_LAYER environment variable — Core audio is used if this environment variable is not specified. • 1: Wave audio layer is used. • 2: Core audio layer is used. • 500: The audio layer ensures that Microsoft Windows MultiMedia Class Scheduler Service (MMCSS) is kept alive by the system independent of the actual audio activity on input and output devices. It can be combined with the values 0, 1, or 2 (500, 501, or 502) to specify the type of audio

Domain	Section	Setting	Values	Description
				<p>layer.</p> <ul style="list-style-type: none"> • 1000: Instructs the audio layer to open the microphone channel when the endpoint starts up, using the audio layer type defined by option 0, and to keep it open until the endpoint is terminated. It can be combined with the values 0, 1, or 2 (1000, 1001, or 1002) to specify the type of audio layer. • 2000: Opens the speaker channel for the life of the endpoint, using the audio layer type defined by option 0. Eliminates any delay in opening the audio device when an incoming or outgoing call is connected, for example in environments where audio device startup is slow due to a required restart of the Windows MMCS service. It can be combined with the values 0, 1, or 2 (2000, 2001, or 2002) to

Domain	Section	Setting	Values	Description
				<p>specify the type of audio layer.</p> <ul style="list-style-type: none"> 3000: Opens the microphone and speaker channels for the life of the endpoint, using the audio layer type defined by option 0. It can be combined with the values 0, 1, or 2 (3000, 3001, or 3002) to specify the type of audio layer.
	session			
		agc_mode	0 1	<p>If set to 0, AGC (Automatic Gain Control) is disabled; if set to 1, it is enabled. Other values are reserved for future extensions. This configuration is applied at startup, after that the agc_mode setting can be changed to 1 or 0 from the main sample application.</p> <p>Default value: 1 NOTE: It is not possible to apply different AGC settings for different channels in multi-channel scenarios.</p>
		rx_agc_mode	0 1	<p>Enables and disables Receiving-side Automatic Gain Control (Rx AGC).</p>

Domain	Section	Setting	Values	Description
				<ul style="list-style-type: none"> 0: Disables the feature (default). 1: Enables Receiving-side AGC, resulting in automatic adjustment of the volume of the received RTP stream. This ensures that the volume of all calls is adequate for agents to hear the contact.
		auto_answer	Number	If set to 1, all incoming calls are answered automatically.
		callwait_tone_enabled ₁	0	Valid Values: 0, 1 Default Value: 1 Specifies whether the call waiting tone is enabled (1) or disabled (0). This configuration is applied at startup.
		callwait_tone_file	String	<p>Valid Values: Empty, or the path to the call waiting sound file. The path may be a file name in the current directory or the full path to the sound file. Default Value: callwait.wav Specifies the audio file that is played when the call waiting tone is enabled by the callwait_tone_enabled option.</p> <p>Note: WebRTC does not support MP3 playback. The callwait file for built-in ringing should be a RIFF (little-endian) WAVE file using one of the following formats:</p> <ul style="list-style-type: none"> kWavFormatPcm = 1, PCM, each sample of size

Domain	Section	Setting	Values	Description
				<p>bytes_per_sample</p> <ul style="list-style-type: none"> kWavFormatALaw = 6, 8-bit ITU-T G.711 A-law kWavFormatMuLaw = 7, 8-bit ITU-T G.711 mu-law <p>Uncompressed PCM audio must 16-bit mono or stereo, and have a frequency of 8, 16, or 32 kHz.</p>
		dtmf_feedback	0 1	<p>Valid values: 0 or 1 (default). If set to 1, DTMF feedback (audio tones played locally when sending DTMF signals to the remote side of the conversation) is enabled. See also: dtmf_method. (Added: 9.0.018.04)</p>
		dtmf_method	Rfc2833 Info InbandRtp	<p>Method to send DTMF when dtmf_feedback is enabled.</p>
		echo_control	0 1	<p>Valid values: 0 or 1. If set to 1, echo control is enabled.</p>
		noise_suppression	0 1	<p>Valid values: 0 or 1. If set to 1, noise suppression is enabled.</p>
		dtx_mode	Number	<p>Valid values: 0 or 1. If set to 1, DTX is activated.</p>
		reject_session_when_headset_na	Number	<p>Valid values: 0 or 1. If set to 1, the GSP rejects the incoming session if a USB headset is not available.</p>
		sip_code_when_headset_na	Number	<p>If a valid SIP error code is supplied, the GSP rejects the</p>

Domain	Section	Setting	Values	Description
				incoming session with the specified SIP error code if a USB headset is not available. Default value: 480
		vad_level	Number	Sets the degree of bandwidth reduction. Valid values: 0 – 3 — from 0 (conventional VAD) to 3 (aggressive high).
		ringing_enabled	0, 1, 2, 3, 4, 5, 6, or 7	Specifies whether to enable the ringtone and on which device to play the media file. Valid values: <ul style="list-style-type: none"> • 0: None, disable ringtone. • 1: (default) Play ringtone through system default device only. Configure media in system.media.ringing_file. • 2: Play ringtone through communication device (headset) only. Configure media in policy.session.ringing_file. • 3: Play ringtone through both devices at the same time (the combination of values 1 and 2).

Domain	Section	Setting	Values	Description
				<ul style="list-style-type: none">• 4: Play ringtone through a separate ringer device, specified by <code>policy.device.ringer_device</code>.• 5: Play ringtone through system default device and lay ringtone through a separate ringer device (the combination of values 1 and 4).• 6: Play ringtone through the communication device (headset) once only for the full duration (<code>policy.session.ringing_timeout</code> is ignored, and ringing does not stop when the call is answered). Configure media in <code>policy.session.ringing_file</code>.• 7: Play ringtone once for the full duration through both system default device and communication device (headset) (<code>policy.session.ringing_timeout</code> is ignored, and ringing does not stop when call is answered). Configure media in <code>system.media.ringing_file</code> and

Domain	Section	Setting	Values	Description
				<p>policy.session.ringing_file.</p> <p>Default value: 1</p>
		ringing_timeout	Number	<p>Specifies the duration, in seconds, of the ringtone. If set to 0 or if the value is empty, the ringing time is unlimited.</p> <p>Valid values: Empty, 0, or a positive number Default value: 0</p>
		ringing_file	String	<p>Specifies the audio file that is played in the audio out device (headset) when the ringtone is enabled with the ringing_enabled option.</p> <p>Note that WebRTC does not support MP3 playback. The ringtone files for built-in ringing are RIFF (little-endian) WAVE files using one of the following formats: kWavFormatPcm = 1, PCM, each sample of size bytes_per_sample kWavFormatALaw = 6, 8-bit ITU-T G.711 A-law kWavFormatMuLaw = 7, 8-bit ITU-T G.711 mu-law</p> <p>Uncompressed PCM audio must be 16 bit mono or stereo and have a frequency of 8, 16, or 32 KHZ.</p> <p>Sample ringing sound files are provided. Each file is adjusted to have a higher or lower level of volume than the default ringing sound file, as follows:</p> <ul style="list-style-type: none"> ringing.wav (default) ringing_+10dB.wav ringing_-10dB.wav

Domain	Section	Setting	Values	Description
				<ul style="list-style-type: none">• ringing_-20dB.wav <p>You can adjust the volume level of the default ringer sound by specifying the file that has the preferred level of volume.</p> <p>Valid values: Empty or the path to the ringing sound file for the audio out device (headset). The path can be a filename in the current directory or the full path to the sound file.</p> <p>Default value: ringing.wav</p>
		ringback_enabled	0, 1, 2, 3, 4, or 6	<p>Specifies how the ringback feature is enabled.</p> <ul style="list-style-type: none">• 0: (default) do not play a ringback when the INVITE dialog is not yet established.• 1: play the incoming media stream, if provided by the media gateway in a reliable provisional response with SDP.• 2: play ringback from a local file only.• 3: always play ringback using media provided by gateway or a local file if not provided.• 4: same as 1, but the incoming media stream

Domain	Section	Setting	Values	Description
				<p>is played even if the provisional response from Media gateway is not reliable.</p> <ul style="list-style-type: none"> 6: the ringback is always played using either a local file or media provided by the gateway (regardless of whether the provisional response is reliable or not).
		ringing_while_call_held	0, 1	<p>Valid values: 0 or 1</p> <p>Default value: 1</p> <p>Specifies whether to play ringtone or not when a call is held and a new call arrives.</p> <ul style="list-style-type: none"> 0: call wait tone (if configured) is played instead of ringtone. 1 (default): ringtone is played whenever a new call arrives and there are no other active calls; held calls are not considered active in this case.
		ringback_file	Empty or a valid path to a 16-bit 8-, 16-, or 32-Khz .wav sound file.	<p>Specifies the audio file that is played when the ringback_enabled option is configured to play a local file as the ringback tone.</p>

Domain	Section	Setting	Values	Description
	device			
		audio_in_device	String	Microphone device name: can be either the device proper name or a regular expression.
		audio_out_device	String	Speaker device name: can be either the device proper name or a regular expression.
		ringer_device	String	Ringer device name: can be either the device proper name or a regular expression. Used when ringing_enabled = 4
		headset_name	String	The name of the headset model: can be either the device proper name or a regular expression. When the value of the use_headset option is set to 1, you can set the value of this option to *, the default value, to select the default headset. If the value of this option is empty, this option is not considered as a regular expression and will fail to find a headset.
		include_headset	String	<p>Valid values: A pair of device names or name parts, with microphone and speaker names separated by a colon, or a comma-separated list of name pairs. For example:</p> <p>External Mic:Headphones</p> <p>If the names include delimiter characters such as quotes, colons, or comma, they must be enclosed in single or double quotes.</p> <p>Specifies the list of audio in / out devices to be considered as a</p>

Domain	Section	Setting	Values	Description
				headset for automatic device selection. This option is applicable to the case when use_headset = "1"
		use_headset	Number	<p>If set to 0, the audio devices specified in audio_in_device and audio_out_device are used by the Genesys Softphone. If set to 1, the Genesys Softphone uses a headset as the preferred audio input and output device and the audio devices specified in audio_in_device and audio_out_device are ignored.</p> <p>Valid values: 0 or 1</p>
		exclude_headset	String	<p>The name of a headset model or built-in audio device (example: Realtek). The specified device is excluded from being recognized or automatically selected as a valid headset.</p> <p>Note that components of an excluded device, such as a microphone or speaker, can still be selected manually (or automatically, if Softphone does not find a better device). However, even if a component of an excluded device is selected, Softphone does not recognize the excluded device as an available headset.</p> <p>Valid values: Any valid</p>

Domain	Section	Setting	Values	Description
				regular expression. Default value: Empty Note: This option is only available for Genesys Softphone installed on Windows.
	connector			
		auto_restart	Number	Valid values: 0 or 1. If set to 1 (default) the Softphone must be restarted after every client session.
		certificate_search_value	String	The thumbprint of a valid certificate that is accessible from the Certificate Store of the workstation where Softphone is running.
		enable_sessionid	Number	Valid values: 0 or 1. If set to 1 (default), a SESSION_ID attribute is generated in the header of the HTTP response returned to the HTTP Client (typically Workspace Web Editon (WWE) running in a browser). This option must always be set to 0 when connecting Workspace Desktop Edition (WDE) to Genesys Softphone.
		partitioned_cookies	Number	Valid values: 0, 1, or 2. This option controls the capability of Genesys Softphone to leverage the support by Chrome and Edge

Domain	Section	Setting	Values	Description
				<p>(Chromium) of the cookies attribute partitioned which allows limited cookie sharing across domains. Once this cookie flag is in place, the versions of Chrome and Edge (Chromium) that implement the Phase Out of Third Party Cookie continue to accept the session cookie generated by Genesys Softphone. Valid from release 9.0.126.05.</p> <ul style="list-style-type: none"> • 0: disabled, never add the cookie attribute • 1: enabled, always add the cookie attribute • 2 (default): auto, enable the cookie attribute conditionally for Chrome and Edge (Chromium) version greater or equal to v 118.
		port	Number	<p>The port that Softphone opens at start-up time to listen to HTTP or HTTPS requests sent by the HTTP Client (typically WWE running in a browser). If sent to empty value (default) the connector is not</p>

Domain	Section	Setting	Values	Description
				activated and Softphone runs in regular stand-alone GUI mode.
		protocol	String	Valid values: http or https. Specifies whether the HTTP requests sent from HTTP client (typically WWE running in a browser) are secured. If set to a non-empty value the option port must be populated with a valid port number. If set to https, the option certificate_search_value must be populated with a valid certificate thumbprint.
		allowed_origin_headers	a comma separated list of domains using star notation and FQDNs	For Softphone connector clients establishing a CORS connection, specify the list of authorized origins, separated by commas, in the form of domains using star notation (for example, *.genesyscloud.com) and FQDNs (for example, gwa-use1.genesyscloud.com). If empty, any origin is accepted.
sec_protocol	String	Valid values: <ul style="list-style-type: none"> strict mode: SSLv3, TLSv1, TLSv11, and TLSv12 are the strict protocol version modes. These settings can be used to enforce a specific protocol 		

Domain	Section	Setting	Values	Description
		<p>version. The connection will not be established if the remote server does not accept the enforced protocol version.</p> <ul style="list-style-type: none"> compatibility mode: SSLv23, the default mode, is compatible with all modes from SSLv2 up to and including TLSv12; it will connect with the highest mode offered by the other server. If SSLv2 ciphers are explicitly specified, the SSLv2 client can connect only to servers running in SSLv23 mode. Otherwise, the SSLv2 mode is deprecated; but it is highly vulnerable and is not recommended. 		
codecs				
— See SIP Endpoint SDK for .NET 9.0.0 NET—Working with Codec Priorities and SIP Endpoint SDK for OSX—Working with Codec Priorities .				
proxies				
	proxy<n>			
		display_name	String	Proxy display name.
		password	String	Proxy password.
		reg_interval	Number	The period, in seconds, after

Domain	Section	Setting	Values	Description
				<p>which the endpoint starts a new registration cycle when a SIP proxy is down. Valid values are integers greater than or equal to 0. If the setting is empty or negative, the default value is 0, which means no new registration cycle is allowed. If the setting is greater than 0, a new registration cycle is allowed and will start after the period specified by regInterval.</p> <div> Important The re-registration procedure uses a smaller timeout (half a second) for the first re-try only, ignoring the configured reg_interval setting; the reg_interval setting is applied to all further retries. </div>
		reg_match_received_number	Number	<p>DEPRECATED: This setting controls whether or not Genesys Softphone re-registers itself when receiving a mismatched IP address in the received parameter of a REGISTER response. This helps resolve the case where the Genesys Softphone has multiple network interfaces and obtains the wrong local IP address. A value of 0 (default)</p>

Domain	Section	Setting	Values	Description
				disables this feature and a value of 1 enables re-registration. Valid values: 0 or 1 Default value: 0
		reg_timeout	Number	The period, in seconds, after which registration expires. A new REGISTER request will be sent before expiration. Valid values are integers greater than or equal to 0. If the setting is 0 or empty/null, then registration is disabled, putting the endpoint in stand-alone mode.
	nat			
		ice_enabled	Boolean	Enable or disable ICE.
		stun_server	String	STUN server address. An empty or null value indicates this feature is not being used.
		stun_server_port	String	STUN server port value.
		turn_password	Number	Password for TURN authentication.
		turn_relay_type	Number	Type of TURN relay.
		turn_server	String	TURN server address. An empty or null value indicates this feature is not being used.
		turn_server_port	String	TURN server port value.
		turn_user_name	String	User ID for TURN authorization.
system				
diagnostics				

Domain	Section	Setting	Values	Description
		enable_logging	Number	Disable or enable logging. Valid values: 0 or 1
		log_file	String	Log filename, for example, SipEndpoint.log
		log_level	Number	Valid values: 0 – 4 Log levels: 0 = "Fatal"; 1 = "Error"; 2 = "Warning"; 3 = "Info"; 4 = "Debug".
		log_options_provider	String	Valid values for webrtc = (warning, state, api, debug, info, error, critical). For example: gsip=2, webrtc=(error,critical)
		logger_type	file	If set to file, the log data will be printed to the file specified by the log_file parameter.
		log_segment	false Number Number in KB,MB, or hr	Specifies the segmentation limit for a log file. If the current log segment exceeds the size set by this option, the file is closed and a new one is created. This option is ignored if log output is not configured to be sent to a log file. Valid values: false: No segmentation is allowed <number> or <number> KB: Size in kilobytes <number> MB: Size in megabytes <number> hr: Number of hours for segment to stay open Default value: 10 MB

Domain	Section	Setting	Values	Description
		log_expire	false Number Number file Number day	<p>Determines whether the log files expire. If they do, sets the measurement for determining when they expire, along with the maximum number of files (segments) or days before the files are removed. This option is ignored if log output is not configured to be sent to a log file.</p> <p>Valid values: false: No expiration; all generated segments are stored. <number> or <number> file: Sets the maximum number of log files to store. Specify a number from 1 to 1000. <number> day: Sets the maximum number of days before log files are deleted. Specify a number from 1 to 100 Default value: 10 (store 10 log fragments and purge the rest)</p>
		log_time_convert	local utc	<p>Specifies the system in which an application calculates the log record time when generating a log file. The time is converted from the time in seconds since the Epoch (00:00:00 UTC, January 1, 1970).</p> <p>Valid values: local: The time of log record generation is expressed as a local time, based on the time zone and any seasonal adjustments. Time zone information of the application's host computer is used. utc: The time of log record generation is expressed as Coordinated Universal Time (UTC). Default value: local</p>

Domain	Section	Setting	Values	Description
		log_time_format	time locale ISO8601	<p>Specifies how to represent, in a log file, the time when an application generates log records. A log record's time field in the ISO 8601 format looks like this: 2001-07-24T04:58:10.123.</p> <p>Valid values: time: The time string is formatted according to the HH:MM:SS.sss (hours, minutes, seconds, and milliseconds) format locale: The time string is formatted according to the system's locale. ISO8601: The date in the time string is formatted according to the ISO 8601 format. Fractional seconds are given in milliseconds. Default value: time</p>
	security			
		certificate	String	For more information, see the certificate option for .NET and macOS .
		use_srtp	optional allowed disabled off elective both enabled force mandatory	<p>Indicates whether to use SRTP (Secure Real-Time Transport Protocol) [Modified: 9.0.005.06]</p> <ul style="list-style-type: none"> • optional or allowed: Do not send secure offers, but accept them. • disabled or off: Do not send secure offers and reject incoming secure offers. • elective or

Domain	Section	Setting	Values	Description
				<p>both: Send both secure and non-secure offers and accept either.</p> <ul style="list-style-type: none"> enabled: Send secure offers, accept both secure and non-secure offers. force or mandatory: Send secure offers, reject incoming non-secure offers. <p>Adding either 'UNENCRYPTED_SRTCP' (long form) or 'UEC' (short form) to any value (for example, 'enabled,UEC'), adds the UNENCRYPTED_SRTCP parameter to that offer. When this parameter is negotiated, RTCP packets are not encrypted but are still authenticated.</p>
		tls-target-name-check	no host	For more information, see the tls-target-name-check option for .NET and macOS .
	media			
		ringing_file	String	<p>The Ringing sound filename in the current directory or the full local path to the ringing sound file.</p> <p>Specifies the audio file that is played in the default audio device (speakers) when the default device ringtone is enabled with the ringing_enabled</p>

Domain	Section	Setting	Values	Description
				<p>option.</p> <p>Sample ringing sound files are provided. Each file is adjusted to have a higher or lower level of volume than the default ringing sound file, as follows:</p> <ul style="list-style-type: none">• ringing.wav (default)• ringing_+10dB.wav• ringing_-10dB.wav• ringing_-20dB.wav <p>You can adjust the volume level of the default ringer sound by specifying the file that has the preferred level of volume.</p> <p>Valid values: Empty or String filename Default value: ringing.wav</p>

For more information about these options, see *SIP Endpoint SDK for .NET Developer's Guide* and *SIP Endpoint SDK for OSX Developer's Guide*.

Audio device settings

This section describes how to set up Genesys Softphone to work with your audio devices, such as headsets.

Genesys Softphone uses the following criteria to select its audio input and output devices:

- **Basic settings** for audio input and output devices.
- **Selection rules** used to choose an audio device, auto-answer a call, and reject a call.
- **Combinations of settings** that affect audio device selection, auto-answer, and call rejection.

Basic settings

Use the following parameters to configure headsets and other audio input devices:

- **headset_name**

- **audio_in_device**
- **audio_out_device**

If none of the audio devices that are accessible to the endpoint, match the device names in the configuration file; Genesys Softphone picks up the first available devices from the WebRTC list for audio devices.

Tip

The **headset_name**, **audio_in_device**, and **audio_out_device** options support both device proper names and regular expressions.

Audio device selection rules

The following rules are used to select an audio device, auto-answer a call, and reject a call.

The following audio device selection procedure is applied on startup and every time any changes are made to device presence (such as when a new device is plugged in or an existing device is removed):

1. The first device in the applicable list that is present in the system is selected when possible. This device (or devices) will either be specified by the **headset_name** parameter or by the **audio_in_device** and **audio_out_device** parameters, depending on whether the **use_headset** parameter has been enabled.
2. If none of the configured devices are present (or if the configuration list is empty), then Genesys Softphone selects the audio devices using the priority provided by WebRTC, based on the order of the available devices in its device list.

Auto-answer

When either of the following conditions is met, Softphone blocks the auto-answer functionality (a manual answer is still possible):

- the **use_headset** parameter is set to **1**, and none of the devices listed in the **headset_name** settings are present (but session rejection is not applicable, that is, the **reject_session_when_headset_na** parameter has been set to **0**).
- Genesys Softphone was unable to find any usable microphone or speaker device (applicable to cases where the **use_headset** parameter is set to **0**).

If the **auto_answer** parameter is set to 1 and the auto-answer functionality is not blocked (and the call was not already rejected), Genesys Softphone answers the incoming call automatically (the **should_answer** policy returns the value **true**).

In addition, auto-answer will be triggered by the Alert-Info SIP header in the incoming INVITE, as described in the [Deploying Genesys Softphone](#) page.

Rejecting a call

For backward compatibility with previous releases, a call can only be rejected when both of the following conditions are met (a policy of **should answer** returns the value **false**):

- Both the **use_headset** and **reject_session_when_headset_na** parameters are set to 1.
- None of the devices listed in the **headset_name** settings is present on the workstation.

When these conditions are both met, an incoming call is rejected with the SIP response code that is configured in the **sip_code_when_headset_na** setting. If the setting is missing or the value is not in the valid range of **400** to **699**, then the default value of **480 (Temporarily Unavailable)** is used.

In addition, when these conditions are met, Genesys Softphone refuses to initiate any new calls; it rejects all outgoing call attempts.

The availability of a fallback device (selected by Step 2 in the Audio device selection section) does not affect call rejection.

Audio setting combinations

Sometimes combinations of settings that you make can have unexpected results. Before adjusting your settings, review this section. The following combinations of settings affect audio device selection, auto-answer, and call rejection in the ways described below:

use_headset=1

<u><i>Headset is available</i></u> Genesys Softphone considers a headset to be available if a headset is found by name in the list of headset names stored in the headset_name parameter. (The highest priority device in the list is selected). Outgoing calls can be initiated.	auto_answer=1	Incoming calls are answered automatically.
	auto_answer=0	Incoming calls are answered manually.
<u><i>Headset is not available</i></u> Genesys Softphone determines that no headset is available if a headset is not found by name in the list of headset names stored in the headset_name parameter. An audio device is still assigned if any supported devices are present in the system, using the first available audio input and output devices from the list compiled by WebRTC.	No auto-answer is possible in this subcase, so the auto_answer setting is not used.	reject_session_when_headset_na=1 <ul style="list-style-type: none"> • Incoming calls are automatically rejected. • Outgoing calls are blocked.
		reject_session_when_headset_na=0 <ul style="list-style-type: none"> • Incoming calls can be answered manually. It is assumed that the agent will plug in the headset (or use an available non-headset device, if applicable) before answering the call.

		<ul style="list-style-type: none"> Outgoing calls can be initiated. It is the agent's responsibility to ensure that the appropriate audio devices are available before the call is answered by the remote side.
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use_headset=0

Audio devices are configured using the names from the **audio_in_device** and **audio_out_device** settings. Genesys Softphone selects the highest-priority input and output devices from that list or, if no valid devices are found in that list, from the first available devices in the list compiled by WebRTC. Outgoing calls can be initiated.

<i>Both microphone and speaker are available</i>	auto_answer=1	Incoming calls are answered automatically.
	auto_answer=0	Incoming calls are answered manually.
<i>Either microphone or speaker is not available</i> <ul style="list-style-type: none"> Incoming calls can be answered manually. It is assumed that the agent will plug in the headset (or use an available non-headset device, if applicable) before answering the call. Outgoing calls can be initiated. It is the agent's responsibility to ensure that the appropriate audio devices are available before the call is answered by the remote side. 	No auto-answer is possible in this subcase, so the auto_answer setting is not used.	Auto-rejection is not applicable, so the reject_session_when_headset_na setting is not used.