^eGENESYS[™]

Interaction SIP Proxy[™]

Technical Reference

Version 2018

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Abstract

This document provides an introduction to Interaction SIP Proxy, the procedure for installing or upgrading it, the configuration tasks that are needed for operation, and other technical information.

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Introduction to Interaction SIP Proxy

Interaction SIP Proxy is a program that enables a server to act in a similar fashion as a Customer Interaction Center server in its ability to route SIP requests to a local area network (LAN), a wide area network (WAN), or to the Public Switched Telephone Network (PSTN).

Additionally, Interaction SIP Proxy can host configuration files and firmware for IP telephones, facilitate locally-based routes, and provide consistent routing should a network connection or a Customer Interaction Center server interruption occur.

Interaction SIP Proxy network overview

The following diagram presents how Interaction SIP Proxy could be located in an enterprise network environment:



Instead of having two Customer Interaction Center servers to service both the headquarters and the remote office, the remote office only needs one Interaction SIP Proxy to provide the backup routing, should it ever be needed.

Interaction SIP Proxy in action

Interaction SIP Proxy can direct your SIP requests locally instead of requiring WAN bandwidth by routing those SIP requests through Customer Interaction Center. Additionally, this enables Interaction SIP Proxy to route requests even if the Customer Interaction Center server or the WAN become unavailable, as displayed in the following diagram:



In the above diagram, the WAN link has failed to the remote office. SIP requests are routed through Interaction SIP Proxy, and the audio path—using Real-time Transport Protocol (RTP)—is sent directly through the gateway. This allows both inbound and outbound calls at the remote office to continue, despite the loss of connectivity to the Customer Interaction Center server.

Interaction SIP Proxy routing

Interaction SIP Proxy uses regular expressions to evaluate SIP requests and route them to destinations that you configure. The regular expressions evaluate where the request is going, where it came from, and through what device it should be sent. You can even specify multiple routes for a destination to provide greater fault tolerance. Interaction SIP Proxy also provides a

simulation feature that enables you to test your route entries. To create routes, use the **System** > **Routing** page in the Interaction SIP Proxy web interface.

For more information on routes and entries, see Interaction SIP Proxy Help.

Interaction SIP Proxy network protocols

Interaction SIP Proxy uses three network transport protocols for SIP requests:

- UDP This protocol is lightweight and is the default protocol used by many SIP-enabled devices.
- TCP This protocol provides reliability, which reduces the number of *retries* and *lost* packets on a saturated network.
- TLS This protocol provides security, which makes it difficult for packets of a SIP request to be intercepted and decoded by outside parties.

Interaction SIP Proxy notifications

Interaction SIP Proxy provides the following methods for notifying you about warnings and errors:

- Simple Network Management Protocol (SNMP) Using SNMP, events—also known as *traps*—that occur in Interaction SIP Proxy are sent to an SNMP server that can receive events from many network devices or servers.
- Simple Mail Transport Protocol (SMTP) You can configure Interaction SIP Proxy to send email messages to you or a distribution list for specific events that occur in the system, such as changes in Server Status, changes to Administrator credentials, and others. The only requirement is that you have an SMTP server in your organization to deliver the email message.

Interaction SIP Proxy features

Interaction SIP Proxy has features that enable you to tailor Interaction SIP Proxy behavior to the way that you want it to perform. The following list covers some of these features:

- Distribution Interaction SIP Proxy enables you to configure how it selects a destination from a pool of multiple destinations. The methods range from sequential to randomization of destinations. For more information about distribution methods, see *Interaction SIP Proxy Help*.
- Real-time server status Through its web interface, Interaction SIP Proxy displays connections to all destinations servers, such as gateways and routers, and status information in real-time.
- Redirection You can configure Interaction SIP Proxy to act as a redirect server for SIP INVITE requests so that the requesting SIP device is given an alternate set of URIs to contact.
- SIP device registration Interaction SIP Proxy can serve as a registrar for SIP devices, thereby
 eliminating the need to have these devices register with the Customer Interaction Center server. For
 continuity in a fail-over scenario, you can configure the SIP devices to register to both Customer
 Interaction Center and Interaction SIP Proxy. For more information, see the information for the
 Registration Routing and Registration has priority controls in Interaction SIP Proxy Help.
- Administrative web interface Interaction SIP Proxy uses a web interface for administrative tasks, such as entering SIP request route entries, simulating entry selection, configuring protocol usage and more. For more information about the web interface, see *Interaction SIP Proxy Help*.

Interaction SIP Proxy Installation

This section contains the requirements and procedure to install Interaction SIP Proxy.

Interaction SIP Proxy hardware requirements

The following table provides the minimum hardware requirements for Interaction SIP Proxy:

RAM	2 GB
Hard Disk Drive Space	60 GB
Network Interface Card	100Base-T Ethernet or higher

Interaction SIP Proxy software requirements

The following table provides the software requirements for Interaction SIP Proxy:

Operating System	Microsoft Windows Server 2Microsoft Windows Server 2	2016 2012 R2
Customer Interaction Center	 Customer Interaction Center or later Customer Interaction Center Customer Interaction Center 	er 3.0 SU12 er 4.0 er 20 <i>nn</i> R <i>n</i>
Web browser	 Required to access web-ba interface for configuring In SIP Proxy Must support TLS v1.1 or T transport layer protocol 	sed teraction 'LS v1.2
	Important! Interaction SIP Proxy does not support TLS v1.0 as it has weak ciphers that could compromise security.	

Interaction SIP Proxy network configuration requirements

Genesys strongly recommends that the Interaction SIP Proxy server be assigned a static IP address. DHCP addresses are dynamic and, as such, can cause client connectivity instability if the address changes or if the server is unable to obtain a new address.

Obtain Interaction SIP Proxy license and software

1. If you did not receive an Interaction SIP Proxy license after purchase, open a web browser and navigate to http://license.inin.com to generate a license file for the current version of Interaction SIP Proxy.

Note:

You must have purchased the current version of Interaction SIP Proxy to be eligible to generate a license through the specified website. If you have problems obtaining the license, contact PureConnect technical support.

2. Download the CIC or Appliances . ISO file from the product information site at the following URL address:

https://my.inin.com/products/Pages/Downloads.aspx

Notes:

- The CIC . ISO file contains all CIC software.
- The Appliances . ISO file is much smaller and contains the following CIC software:
- Interaction SIP Proxy
- Interaction Media Server
- Interaction Edge edition of Interaction SIP Proxy
- Interaction Edge editions of Interaction Media Server
- The Interaction Edge editions of Interaction Media Server and Interaction SIP Proxy are available only on the Appliances . ISO file.
- 3. Copy the .ISO file to a non-Customer Customer Interaction Center file server with a high bandwidth connection to the machines on which you will install Interaction SIP Proxy.
- 4. Mount the .ISO file and share the contents to make them accessible to the machines on which you will install Interaction SIP Proxy.
- 5. Explore the .ISO file and copy the appropriate Interaction SIP Proxy .MSI file, as specified in the following table, to the machine on which you will install Interaction SIP Proxy:

Host machine	.ISO directory	Installation package file name
Interaction Edge media gateway appliance (Appliances .ISO file)	∖ (root directory)	EDGE-SIPPROXY_20 <i>nn</i> _R <i>n</i> .msi
Any other host machine (CIC .ISO file)	\Installs\Off-ServerComponents	SIPProxy_20 <i>nn</i> _R <i>n</i> .msi

Install Interaction SIP Proxy

1. Using the machine on which where you want to install Interaction SIP Proxy, open Windows Explorer, navigate to the location of the installation package file as described in <u>Obtain Interaction SIP Proxy license</u> and software, and double-click the file.

The Interaction SIP Proxy setup program displays the first screen of the setup wizard.

🔢 Interaction SIP Proxy for CIC Setup 💻 🗖 🗙		
	Welcome to the Interaction SIP Proxy Setup Wizard for CIC	
°0°	The Setup Wizard will install Interaction SIP Proxy for CIC on your computer. Click Next to continue or Cancel to exit the Setup Wizard.	
<mark>ଟ୍</mark> ଟ GENESYS [™]		
	Back Next Cancel	

2. Select the Next button.

The **Custom Setup** dialog box is displayed.

岗 Interaction SIP Proxy for CIC	Setup 🗕 🗖 🗙	
Custom Setup Select the way you want features to be installed.	ő	
Click the icons in the tree below to change the way features will be installed.		
Interaction SIP Proxy		
	This feature requires MB on your hard drive.	
Location: C:\#3\#C\		
Reset Disk Usage Back	Next Cancel	

- 3. If you want to change the location where the software is installed, select the **Browse** button and specify a new location in the resulting window.
- 4. Select the **Next** button.

The License File dialog box is displayed.

₿	Interaction SIP Proxy Setup – 🗖 🗙
Licen Plea	Ise File ase specify your Interaction SIP Proxy license file
	If you have obtained a license file for this installation of Interaction SIP Proxy, then please enter its full path below. If you do not have a license file, simply dick the Skip button below. If this step is skipped, the Interaction SIP Proxy functionality will be disabled until a valid license is applied via the License tab on the web server interface. A valid license can be obtained from Interactive Intelligence, Inc or via http://license.inin.com/SIPProducts Location of Interaction SIP Proxy license file : Browse
	Skip Back Next Cancel

5. Use the **Browse** button to open a window that enables you to navigate to the Interaction SIP Proxy license file and select it.

If you do not have a license file, you can continue the installation of Interaction SIP Proxy by selecting the **Skip** button.

Important!

If you skip the installation of the license file, you cannot configure nor use Interaction SIP Proxy until a valid license file is applied through the administrative web interface.

6. Select the **Next** button.

The Service Port Number dialog box is displayed.

1	Interaction SIP Proxy Setup – 🗖 🗙
Service P Please server	Port Number especify the port numbers for the Interaction SIP Proxy's internal web
Ţ	The Interaction SIP Proxy's port numbers are used by the internal web server to service http and https configuration requests.
۰ ۱	HTTP service port (1 - 65535, default is 8080)
÷	HTTPS service port (1 - 65535, default is 442)
I	442
	Back Next Cancel

7. In the **HTTP service port** box, enter the port number on the computer that Interaction SIP Proxy will use for serving requests over the HTTP protocol. The default port number is 8080.

8. In the **HTTPS service port** box, enter the port number on the computer that Interaction SIP Proxy will use for serving requests over the HTTPS protocol. The default port number is 442.

Note:

The default port numbers are 8080 for HTTP and 442 for HTTPS.

9. Select the Next button.

If no other CIC subsystems have been installed on the host, the **Logging File Path** dialog box is displayed. Otherwise, skip to step 11.

i	Interaction SIP Prox	y for CIC	Setup	- 🗆 X
Logging File Please provid	Path de a path for storing log files.			00°
Due to the sign not on the Ope	ificant amount of storage tha rating System or IC applicatio	t logging can potentiall n partition is highly rec	y take, a fol ommended.	der that is
Look In:	🚔 Logs		~	E
Logging Files	folder: Files (x86) \Intera	active Intelligence (Inter	raction SIP F	roxy\Logs\
		<u>B</u> ack <u>N</u>	<u>l</u> ext	Cancel

- 10. In the **Logging Files folder** box of **Logging File Path** dialog box, enter the drive and directory path where you want Interaction SIP Proxy and any additional CIC subsystem installations to store log files.
- 11. Select the Next button.

The Ready to install Interaction SIP Proxy for CIC dialog box is displayed.

17	Interaction SIP Proxy for CIC	×
	Ready to install Interaction SIP Proxy for CIC	00°
	Click Install to begin the installation. Click Back to review or change any of y installation settings. Click Cancel to exit the wizard.	'our
	<u>B</u> ack	Cancel

12. If you need to change any of the previous settings that you entered, select the **Back** button until you reach the necessary dialog box. Otherwise, select the **Install** button to start the process of installing files on your server.

The server displays a dialog box that informs you of the progress of the installation. When the process is complete the final dialog box of the setup wizard is displayed.

13. Select the Finish button.

Migrate previous version of Interaction SIP Proxy to current version

Migration of Interaction SIP Proxy from a previous version, other than Interaction SIP Proxy 4.0 R2, to the current version is a manual process. The migration tool for upgrading Customer Interaction Center version 3.0 and its subsystems to the current version does not support Interaction SIP Proxy.

Important!

You should upgrade Interaction SIP Proxy only during off-hours. Even if you are installing Interaction SIP Proxy on a new server, you still must redefine and re-enable connections to Customer Interaction Center servers.

The procedures in this section provide the necessary tasks to upgrade a previous version of Interaction SIP Proxy to the current version of Interaction SIP Proxy on a single machine, which can also require installation of a new operating system. You may need to omit some of these procedures or do additional procedures for other products depending on the circumstances of your environment:

- Installing Interaction SIP Proxy on a new server
- Installing Interaction SIP Proxy and Interaction Media Server on a new server
- Adding Interaction SIP Proxy to an existing Interaction Media Server installation
- Upgrading a previous version of Interaction SIP Proxy to the current version on a server that also hosts Interaction Media Server 3.0, 4.0, or the current version

Genesys recommends upgrading Interaction SIP Proxy after you upgrade previous versions of Customer Interaction Center and its subsystems, including Interaction Media Server, to the current version.

Important!

The administrative user name and password for a previous version of Interaction SIP Proxy is not included when you import the configuration data to the current version of Interaction SIP Proxy. The default administrative user name and password are admin and 1234. Also, the configuration data does not include any certificates used or created by the previous version of Interaction SIP Proxy. The current version of Interaction SIP Proxy creates new certificates when you reconnect it to Customer Interaction Center servers. If you used third-party Certificate Authorities (CAs) for line certificates with a previous version of Interaction SIP Proxy, you may need to request new certificates after you migrate to the current version of Interaction SIP Proxy and you do not use the host name or DNS domain. This situation does not apply to managed Interaction SIP Proxy.

Ensure that the machine meets requirements

Ensure that the machine on which you will install Interaction SIP Proxy meets the following requirements:

- Operating system requirements:
 - Microsoft Windows Server 2012 R2 <u>http://technet.microsoft.com/en-us/library/dn303418.aspx</u>

Microsoft Windows Server 2016

- Interaction SIP Proxy hardware requirements
- Interaction SIP Proxy software requirements

Export the previous Interaction SIP Proxy configuration

- 1. Using a web browser, log on to the web interface for the previous version of Interaction SIP Proxy server.
- 2. In the upper right corner of the page, select the System icon.
- 3. On the left side of the page, select the **Diagnostics** tab.

The System-Diagnostics page is displayed.

റ്	nteraction SIP	Proxy 📊 👰 🛐 🚛 🖓
O cir		Status Config System Logout Help
System		
IC Integration	General Configuration file Syslog receiver	I3SIPProxyConfig.xml No v Apply
Alerts	Diagnostic Logs	C:/Program Files (x86)/Interactive Intelligence/Interaction SIP Proxy/Logs/
Diagnostics	Tracing Topics Retention Compression	View 7 days Yes ▼ 00:50 Apply
Administration	I	

4. In the General area, select the I3SIPProxyConfig.xml hyperlink.

The configuration file for this Interaction SIP Proxy server is displayed in the web browser.

5. Use the web browser to save the displayed configuration file to a location other than the server that hosts the previous version of Interaction SIP Proxy.

Stop the current Interaction SIP Proxy service

Caution!

This procedure shuts down Interaction SIP Proxy. All communications that rely on this Interaction SIP Proxy server will fail. These communications include IP endpoint registrations, SIP request routing, and current calls.

- 1. On the physical Interaction SIP Proxy server, log on through Windows with an account that has administrator privileges.
- 2. Select Start > Control Panel > Administrative Tools > Services.

Tip:

Alternatively, you can press the Win + R shortcut key combination and enter services.msc in the Open box of the resulting Run dialog box.

The Services window is displayed.

3. In the right pane, scroll down to the Interaction SIP Proxy entry.

ile Action View	Help						
• 🔿 🔲 🖬 🖸) 🗟 🛛 🖬 🕨 🔲 🛛	∎▶					
Services (Local)	Name	Description		Status	Startup Type	Log On As	
	Q. FLEXmet Licensing Service	This service p	enforms licensin	Started	Manual	Local Syste	
	C Function Discovery Presid	de The FDPHOT	7 service heats t		Manual	Local Service	
	C Function Discovery Reserv	a. Publishes the	computer and		Manual	Local Service	
	C. Group Pulicy Clant	The service is	responsible for	Started	Automatic	Local Syste	
	C. Health Key and Certificat	- Presides X.54	0 certificate and		Manual	Local Syste	
	C Hameleng Listener	Males local i	sequence chang		Manual	Local Syste	
	C Hameleng Provider	Performs not	working tasks as		Manual	Local Service	
	Q Haman Interface Device	kc Enables pena	nic import access 1	Started	Manual	Local Syste	
	Q BI and AuthP Proc Lay	n The BEELT o	envice heads the L.	Started	Automatic	Local Syste	
	🔍 ININ Tracing Initialization	1 ININ Tracing	Initialization	Started	Automatic	Local Syste	
	SIP Proxy	Interaction S	P Proxy Service	Started	Automatic	Local Syste	
	Q Interactive Services D	Start	ation of us		Manual	Local Syste	
	🎑 Interactive Update Cl	Stop	oad and ins	Started	Automatic	Local Syste	
	Q Internet Connection	Pause	abbress tran		Disabled	Local Syste	
	Q.P Helper	Resume	methody	Started	Automatic	Local Syste	
	Q.Proc Policy Agent	Destant	e-unity (P	Started	Manual	Network S	
	C. Realize for Databate	Kestart	ctions but		Manual	Network S	
	Q. Link-Layer Topology	All Tasks	 Mag. comi 		Manual	Local Service	
	C McAfee Framework		framework -	Started	Automatic	Local Syste	
	Q McAfee Mc Shield	Refresh	Scarmer	Started	Automatic	Local Syste	
	G McAfee Task Manag	Properties	of MuAdee	Started	Automatic	Local Syste	
	G McAfee Validation Te		trust prote	Started	Automatic	Local Syste	
	California Canitar Estand	Help	er Estender		Disabled	Local Service	

4. Right-click the **Interaction SIP Proxy** entry and select **Stop** from the result shortcut menu.

- 5. Wait for the Interaction SIP Proxy service to stop.
- 6. Close the **Services** window.

Install and configure Microsoft Windows Server

1. Install the Microsoft Windows Server 2012 R2 or 2016 operating system on the machine.

The following website provides the upgrade scenarios for Windows Server 2012 R2:

http://technet.microsoft.com/en-us/library/dn303416.aspx

Important!

You must use the Standard, Enterprise, or Datacenter editions of Windows Server. A Server Core installation is not supported. Some upgrade scenarios require a fresh installation, which removes any existing data from the drive on which you install the operating system.

2. After you have installed Windows Server, enable the **.NET Framework 4.0** feature through the **Control Panel**.

Note:

You are not required to enable the Windows Communication Foundation (WCF) Activation features.

Install Interaction SIP Proxy

- 1. Obtain the Interaction SIP Proxy software and license file as described in <u>Obtain Interaction SIP Proxy</u> <u>license and software</u>.
- 2. On the machine where you installed Microsoft Windows Server, install Interaction SIP Proxy using the Install Interaction SIP Proxy procedure in this document.
- 3. When prompted by the installation, supply the license file.

4. After you install Interaction SIP Proxy, apply any available patches, which are available through the following URL address:

https://my.inin.com/products/cic/Pages/Latest-Release.aspx

Import previous Interaction SIP Proxy configuration into current version

Important!

The administrative user name and password are not included in the Interaction SIP Proxy configuration file of the previous version. The default administrative user name and password for the current version are admin and 1234.

1. On the Interaction SIP Proxy server, log on to Windows with an account that has administrative privileges.

2. Select Start > Control Panel > Administrative Tools > Services.

Tip:

Alternatively, you can press the **Win** + **R** shortcut key combination and enter **services.msc** in the **Open** box of the resulting **Run** dialog box.

The Services window is displayed.

<u>A</u> ction <u>V</u> iew	<u>H</u> elp				
⇒ 🗔 🖸	a 📑 🛛 🖬 🕨 🔲 🗤 🕩				
Services (Local)	Services (Local)				
	Interaction SIP Proxy	Name	Description	Status	Startup Type
	Stop the service Restart the service	August in and industrial for	Receiber 111. Higher Street		Hanol Hanol
	Description:	Name Index States in care	Indian pro-	100	Theorem B.
	Interaction SIP Proxy Service	Interaction SIP Proxy	Interaction	Started	Automatic
		💁 Interactive Update Client	Enables the	Started	Automatic
		C.P. maps	Receiption in .	Name	Automatic .
		Studio to Dontand Taxo.		-	The set
		Cold Care Topolog Booreau	forder of the	(married	The second
		G. Multine Test History	Marco alter	Sumo a	1.0
		 Mode Campon Transfer Service Mode Campo Establish Service 	March 1944	Sec.	Tradition of the
		Manual APP Lancast No.	10.000 ···		Budden a

- 3. Right-click the Interaction SIP Proxy entry and select Stop from the resulting shortcut menu.
- 4. Wait for the Interaction SIP Proxy service to stop.
- 5. Copy the I3SIPProxyConfig.xml configuration file that you saved earlier in this section to the following location on the Interaction SIP Proxy server:

%ProgramData%\Interactive Intelligence\Interaction SIP Proxy\Resources\

6. In the **Services** window, right-click the **Interaction SIP Proxy** entry and select **Start** from the resulting shortcut menu.

The current version of Interaction SIP Proxy now uses the configuration file that you saved from the previous version of Interaction SIP Proxy.

Verify connection to Customer Interaction Center server

Do this procedure if you want to use Interaction SIP Proxy as a *managed* system through Interaction Administrator.

1. Using a web browser, log on to the web interface for the Interaction SIP Proxy server.

Important!

The web interface of Interaction SIP Proxy supports only versions 1.1 and 1.2 of the TLS protocol. Ensure that your web browser is configured to support one or both of those versions for the TLS protocol.

2. In the upper right corner of the page, select the **System** icon.

The System-IC Integration page is displayed.

3. If the **Status** box displays **Disconnected**, do the steps in <u>Connect Interaction SIP Proxy to the Customer</u> <u>Interaction Center server</u>.

If the Status box displays Pending Approval or Activated, continue to the next procedure.

Configure trust settings for Interaction SIP Proxy in Interaction Administrator

- 1. On a system where Interaction Administrator is installed, start Interaction Administrator.
- 2. If prompted, log on to Interaction Administrator with a Customer Interaction Center account that has administrative privileges.

The Interaction Administrator window is displayed.

- 3. If you are using registration groups in your Customer Interaction Center environment, do the following steps:
 - a. In the left pane, expand the container for your Customer Interaction Center server.
 - b. Select the Registration Groups container.
 - c. Double-click a registration group that lists the previous Interaction SIP Proxy server in the **SIP Proxies** column.



The Registration Group Configuration dialog box is displayed.

Registration Group Configuration - MWI Registration Group	? ×
Configuration Options	
Managed IP phones will send communications through the registrations in the specified order. Add additional registrations for redundancy.	
Name: MWI Registration Group	
Type: Regular	
Registrations	_
Type Details Add	
DNS SRV example com (TCP) Edit	ī
SIP Proxy SIP Proxy 1 [172.17.110.86] (TCP)	ή Π
<u>R</u> emove	┛║
Move Up Move Down	
Image: Confirm auto-save OK Cancel Apply	

- d. In the **Registrations** box, select the **SIP Proxy** entry and then select the **Remove** button.
- e. Select the **OK** button to save the change and return to the Interaction Administrator window.
- f. Record the name of the registration group you just modified.

Later in this procedure, you will add the new Interaction SIP Proxy to these same registration groups.

- g. Repeat these steps for each registration group that lists the previous version of Interaction SIP Proxy in the **SIP Proxies** column.
- 4. In the left pane, expand the System Configuration container.
- 5. Under the System Configuration container, select the SIP Proxies item.

The right pane displays the previous Interaction SIP Proxy server connection and the new Interaction SIP Proxy connection.

6. In the right pane, right-click the entry for the previous Interaction SIP Proxy connection and select **Delete** from the resulting shortcut menu.

A dialog box is displayed asking for confirmation of the deletion.

- 7. In the dialog box, select the Yes button.
- 8. In the right pane of the Interaction Administrator window, double-click the entry for the new Interaction SIP Proxy server.

Tip:

The Status column lists New for the new Interaction SIP Proxy system.

The SIP Proxy Configuration dialog box is displayed.

SIP Proxy Configuration	- SIP Proxy 1	? ×
General Web Configura	tion Usage Custom Attributes History	
Trust status: New	Trust this proxy	
Location: <pre></pre>	ult Location >	
Proxy Details		—
Version:	A.2004.00.7.200	
Registration Address:	0.0176	
Ports:	5060 (UDP), 5060 (TCP), 5061 (TLS)	
Confirm a	uto-save OK Cancel Ar	ply

- 9. Select the Trust this proxy button.
- 10. Select the **OK** button to save your changes and return to the Interaction Administrator window.

Configure initial settings for Interaction SIP Proxy

This section contains the procedures for the initial configuration of Interaction SIP Proxy so that it can route SIP requests.

Specify Network Interface Card for SIP requests

For Interaction SIP Proxy to correctly send and receive SIP requests, you must specify which Network Interface Card (NIC) it must use. To specify the NIC to use for SIP requests, do the following steps:

1. Open a web browser and navigate to the URL of the Interaction SIP Proxy server.

If you are prompted about a certificate error, add an exception for this URL. This certificate is a self-signed certificate. Then, you are prompted for a user name and password.

2. Enter the user name and password for Interaction SIP Proxy and select the **OK** button.

Tip:

The default user name and password are admin and 1234.

The Status - About page is displayed.

° '	nteraction S	SIP Proxy 📊 👰 💱 🔩 🕗
O cir		Status Config System Logout Help
Status		
i	Product Version	CIC
About	File Version	built on
<u>88</u>	Machine Name	Ballar agains an a
Sessions	IP Address	172.17.31.73
	License	Production - permanent
	Running Since	14:15:53 (4d 23h 5m 48s)
Registrations	00°	Copyright ©1997-2015 <u>Interactive Intelligence, Inc</u> All Rights Reserved. This program is protected by US and international copyright laws.
		Refresh

3. In the top right corner, select the **Config** icon.

The **Config-General** page is displayed.

4. On this page, locate the **SIP Network Adapter** list box and select the network interface that you want to use for sending and receiving SIP requests.

Note:

If you have only one network interface card in your system, only one address is displayed.

5. At the bottom of the page, select the **Apply** button.

The changes to the SIP Network Adapter box are saved.

Important!

This change requires a restart of the Interaction SIP Proxy service to take effect.

Define Interaction SIP Proxy domain

The next task for configuring Interaction SIP Proxy is that of defining a domain. During installation, Interaction SIP Proxy automatically detects the domain in which it resides. However, if you want to specify a different domain, you must do the following steps:

1. Open a web browser and navigate to the URL of the Interaction SIP Proxy server.

If you are prompted about a certificate error, add an exception for this URL. Then, you are prompted for a user name and password.

2. Enter the user name and password for Interaction SIP Proxy and select the **OK** button.

Tip:

The default user name and password are admin and 1234.

The Status - About webpage is displayed.

3. In the top-right corner of the page, select the **Config** icon.

The **Config-General** page is displayed.

° '	nteraction SIP Proxy	📊 🔍 🕅 🚛 📀
0 00		Status Config System Logout Help
Configura	tion	
	Domain Name	evample.com
General	Alternate Domains	example.com
, AP	Alternate Domains	Use regular expressions
Brotocolc	SIP Network Adapter	Ethernet - 172.17.31.73 V
	Maximum registration interval	3600
-	Monitor servers / interval	No 🔻 120
Server Plan	SIP DSCP Value	18 (24, 011000) CS3 V
5	Allow remote configuration	No v
Access List	Respond to OPTIONS	No ¥
<u>ی</u>	Digest authentication	No V
Source Device	Registration must match user	No v (requires digest authentication)
(Record-Route	No 🔻
Routing	Generate call detail records	No v (requires record-route)
e	Media record override	Defer to users and routes 🔻
Authentication	Rewrite Request-URI	Yes 🔻
	Route unknown URI	Yes 🔻
N	Match pattern against all routes	No 🔻
Certificates	Redirect server	No T
	Recurse on 3xx	No 🔻
Media	Next route on response code	No 🔻 408 480 5
۵.	Registration routing	Yes 🔻
Snmp	Registration has priority	No
	Forward REGISTERs	Υ
		Forward to all servers
	Арр	ly Revert

4. In the **Domain Name** box, enter the domain in which you want Interaction SIP Proxy to reside.

Note:

You can specify additional domains that Interaction SIP Proxy can use in the **Alternate Domains** box. Separate multiple domains with commas. If you have similarly named domains, you can enable the **Use regular expressions** check box to enter a single regular expression to match those domain names. For more information about the **Domain Name** and **Alternate Domains** controls, see *Interaction SIP Proxy Help*.

5. At the bottom of the page, select the **Apply** button to save your modifications.

Define Interaction SIP Proxy destinations

1. Open a web browser and navigate to the URL of the Interaction SIP Proxy server.

If you are prompted about a certificate error, add an exception for this URL. Then, you are prompted for a user name and password.

2. Enter the user name and password for Interaction SIP Proxy and select the **OK** button.

Tip:

The default user name and password are admin and 1234.

The Status - About webpage is displayed.

3. In the top-right corner of the page, select the **Config** icon.

The **Config-General** page is displayed.

4. On the left side of the page, select the Server Plan icon.



The **Config-Server Plan** page is displayed.

ĉ	nteraction SIP Proxy	
O G		Status Config System Logout Help
Configura	tion	Status Conny System Logout nep
Connyura		
5		dinsert
General		
a de la companya de l		
Protocols		
Server Plan		
5		
Access List		
		
Source Device		
E		
Routing		
S		
Authentication		
2		
Certificates		
Media		
Snmp		

If no destinations have been defined, this page is blank.

5. On the right side of the page, select the **insert** hyperlink.

The following page is displayed:

° 00	nteraction SIP P	roxy	System Logout Help
Configura	ation		
General General Protocols Server Plan Server Plan	Distribution: Sequential V Users:	Protocol: UDP Timeout (sec): Destinations:	Apply Cancel

- 6. In the box at the top of the page, enter a descriptive name for this group of destinations.
- 7. In the **Distribution** list box, select the distribution method that you want to occur for this group of destinations:
 - Sequential The list of destinations is a prioritized list that will be tried sequentially, from the start of the list, each time the plan is selected. If a destination cannot be reached, each subsequent destination will be tried, in order, until an endpoint is reached or all destinations have been tried.
 - Parallel Interaction SIP Proxy sends the request to all destinations in the list simultaneously. Interaction SIP Proxy selects and uses the first destination that provides a 200 OK response. If all destinations respond with a failure message or the response time period expires, Interaction SIP Proxy terminates the attempt.
 - Round-Robin The list of destinations is treated as a prioritized circular list. Each time the plan is selected the next destination in the list becomes the top priority. If it cannot be reached then the next destination in the list will serve as the backup and so on.
 - Random Each time the plan is selected, a destination from the list is chosen at random to become the top priority. If it cannot be reached then the next random destination in the list will serve as the backup and so on.
- 8. In the **Protocol** list box, select the transport protocol that you want to use for this group of destinations.

Note:

By default, the protocol of an incoming SIP request must match the protocol of the destination device or Interaction SIP Proxy cannot route the request. The Record-Route feature enables the bridging of two different protocols and is discussed in detail in *Interaction SIP Proxy Help*.

- 9. In the **Timeout (sec)** box, enter the number of seconds that Interaction SIP Proxy will wait for a response from each destination in this group before attempting to contact the next destination. A value of 0 (zero) causes Interaction SIP Proxy to rely solely on the timeout values of the protocol.
- 10. In the **Users** box, select the servers, managed IP telephones, and users that you want in this destination group.

Tip:

You can select multiple items by holding down the **Ctrl** key as you left-click the items.

- 11. Select the arrow button between the **Users** and **Destinations** boxes to move the highlighted items in the **Users** box to the **Destinations** box.
- 12. Alternatively, you can enter one or more host names, FQDNs, or IPv4 addresses for servers in the **Destinations** box to which Interaction SIP Proxy will route SIP requests.
- 13. Select the Apply button.

The group of destinations is saved and ready for use.

Define Interaction SIP Proxy routes

To have Interaction SIP Proxy route SIP requests to destinations, you must define route entries. Each route entry specifies a regular expression to match addresses. In turn, if an address is matched, Interaction SIP Proxy routes the SIP request to the associated destination group or *server plan*.

Note:

You must define one or more destinations before you can specify routes. To specify destinations, see <u>Define</u> <u>Interaction SIP Proxy destinations</u>.

To specify a route, do the following steps:

1. Open a web browser and navigate to the URL of the Interaction SIP Proxy server.

If you are prompted about a certificate error, add an exception for this URL. Then, you are prompted for a user name and password.

2. Enter the user name and password for Interaction SIP Proxy and select the **OK** button.

Tip:

The default user name and password are *admin* and *1234*.

The Status - About webpage is displayed.

3. In the top-right corner of the page, select the **Config** icon.

The **Config-General** page is displayed.

4. On the left side of the page, select the Routing icon.



The Config-Routing page is displayed.

പ്പ	nteraction	SIP Prox	ку			S		$\overline{2}$
) 0 cr	C			Status	Config S	System L	ogout	Help
Configura	tion							
General	From Address	To	Address		Rur	n Test	Clear	
Server Plan	Show prioritized ro	Ites for source:	Any ▼ Page: 1				[<u> Ainsert</u>
Source Device	To Address Filter:				Filter	Refrest	١	
Section Authentication								
Certificates Media Snmp								

5. On the right side of the page, select the **insert** hyperlink.

The webpage changes to display the controls you use to define a route entry.

° l	nteraction S	SIP Prox	У	10 6	L 🔰 🖬	
O CIC				Status Conf	ia System Lo	aout Help
Configura	tion				<u>.</u>	<u></u>
General	From Address	To #	ddress		Run Test	Clear
\$ ³	Show prioritized rout	es for source: Ar	лу ▼			
	From Address:	.*			App	ly
Server Plan	To Address: Routes to:		@ cic	example.com	Cano	zel
Access List	Record media:	No V				
Source Device	To Address Filter:		Page: 1	Filte	r Refresh	7
Routing						-
Authentication						
Certificates						
Media						
Snmp						

6. Enter the appropriate information in the following controls:

Control	Description
Check box	Enable this check box to have Interaction SIP Proxy use this route entry for SIP requests.
Unlabeled text box	In the unlabeled text box, enter a short name or phrase for this route entry.
From Address	Enter a regular expression that will match against a specific range of addresses as the origination of the SIP request.
To Address	Enter a regular expression that will match against a specific range of addresses as the destination of the SIP request, such as a SIP telephone.
Routes to	Enter the part of the regular expression match that is used to combine with the specified server plan destinations to form the target list. For example, if the To Address box is set to the regular expression (.*)@.*, \$1 takes the first part of the string matched with the To Address , up to the @ (at) symbol, and routes it to the specified server plan destination after the @ (at) symbol.
Description	Enter a description of this route entry.

Control	Description
Record media	If you want Interaction SIP Proxy to record the media of all requests that match this route entry, select Yes from this list box.

Note:

If you are unfamiliar with regular expressions, there are many books, websites, and free programs that can assist you in developing your regular expressions. You can also refer to Interaction SIP Proxy Help for some specific examples of route regular expressions.

7. After you have entered your route entry information, select the **Apply** button on the right side of the page.

The route entry is stored to Interaction SIP Proxy.

Configure Interaction SIP Proxy alerts

Interaction SIP Proxy can provide alerts regarding changes through either email or SNMP traps.

Interaction SIP Proxy email alerts

You can configure email alerts that Interaction SIP Proxy sends to one or more email addresses for the following events:

- Server status change (UP or DOWN)
- Administrator account modifications
- Remotely-initiated configuration reload
- Excessive call duration
- Managed station addition or removal

The email alerts that Interaction SIP Proxy sends to recipients has the following format:

Subject: <Interaction SIP Proxy hostname>: Interaction SIP Proxy - <event>

Body: Server: <Interaction SIP Proxy hostname> IP Address: <Interaction SIP Proxy IP address> Version: <Interaction SIP Proxy version> Date/Time: <Current date and time in GMT> <Additional event information>

To configure Interaction SIP Proxy email alerts, do the following steps:

- 1. Log on to the Interaction SIP Proxy web interface.
- 2. In the top right corner, select the **System** icon.
- 3. On the left side of the resulting page, select the Alerts tab.
- 4. In the **Email Alerts** area, enter the appropriate information in the available controls. For more information on these controls and settings, see *Interaction SIP Proxy Help*.
- 5. When finished, select the **Apply** button.

Interaction SIP Proxy SNMP alerts

You can configure Interaction SIP Proxy to send SNMP traps to an SNMP server. Traps are event notifications that Interaction SIP Proxy sends to a predefined group of hosts.

Important!

Interaction SIP Proxy includes the Interactive Intelligence SNMP server (ININ SNMP) by default. It automatically disables the Microsoft Windows SNMP Service. The ININ SNMP service support SNMPv1, v2c, and v3. For more information about the ININ SNMP service, see *CIC and SNMP Technical Reference*.

Caution!

The SNMPv2 protocol is not secure in a default configuration and you should not deploy it without taking appropriate precautions to ensure confidentiality of transmitted traffic. The Interaction SIP Proxy web interface enables you to configure only SNMPv2c settings. For secure SNMP communications, use the SNMPv3 security features in the Interactive Intelligence SNMP service (ININ SNMP), which can be configured through an included command line utility. For more information, see *CIC and SNMP Technical Reference*.

To configure Interaction SIP Proxy SNMP alerts, do the following steps:

- 1. Log on to the Interaction SIP Proxy web interface.
- 2. In the top right corner, select the **Config** icon.
- 3. On the left side of the resulting page, select the **Snmp** tab.
- 4. Enter the appropriate information in the available controls.

For more information on the SNMP controls and settings, see Interaction SIP Proxy Help.

For more information on the specific Management Information Base (MIB) files used in Interaction SIP Proxy, see *CIC and SNMP Technical Reference*.

5. When finished, select the Apply button.

Managed Interaction SIP Proxy

This section contains the procedures necessary to configure Interaction SIP Proxy to connect with a Customer Interaction Center server; a configuration known as a *managed proxy*. This configuration enables *managed IP telephones* to register with Interaction SIP Proxy, as well as configuring it to recognize Direct Inward Dialing (DID) aliases for those managed IP telephones or the default workstations of users defined in Customer Interaction Center. You can configure many of these defaults through Interaction Administrator on the Customer Interaction Center server. A managed proxy also provides automatic generation of TLS certificates between Interaction SIP Proxy and the Customer Interaction Center server.

Considerations for using a managed Interaction SIP Proxy server

Important!

Before you create a managed proxy, ensure that you read and understand the requirements and restrictions in this section.

• **SIP line configuration** - For the proper routing of requests between Interaction SIP Proxy and Customer Interaction Center in a managed proxy configuration, you must first create a SIP line in the **Lines**

container of Interaction Administration. You must allow the IP address of the Interaction SIP Proxy server to transmit on that line.

- **Digest Authentication** Configuring Interaction SIP Proxy as a managed proxy automatically enables Digest Authentication. With Digest Authentication, SIP device registrations with a managed proxy are restricted to the following items:
 - Managed IP telephones that use a Customer Interaction Center registration group that also includes the managed proxy
 - Manually-configured Customer Interaction Center users with passwords
- Dual registration To have SIP devices register to both Interaction SIP Proxy and a Customer Interaction Center server, you must use a managed proxy and have that managed proxy as a member of the registration group that services the SIP devices.
- DNS A-records If a managed Interaction SIP Proxy is hosted on an Interaction Edge appliance, you must manually create a DNS A-record for the Interaction Edge short host name. When you create the registration group for the managed Interaction SIP Proxy through Interaction Administrator, it cannot automatically create the appropriate DNS A-record to resolve the short host name of the Interaction Edge appliance. This limitation results Interaction SIP Proxy being unable to retrieve the members of the registration group from the Customer Interaction Center server.
- Regional significant digits A managed Interaction SIP Proxy is informed of managed IP phones that use registration groups that contain that managed Interaction SIP Proxy. This method enables managed IP phones in multiple locations to use a single, managed Interaction SIP Proxy server. However, be aware that the routes in Interaction SIP Proxy do not use different entries for managed IP phones in multiple locations. If managed IP phones in one location use a different set of regional significant digits than managed IP phones in another location, and all of those managed IP phones use the same managed Interaction SIP Proxy, SIP routing of the managed IP phones in the different locations will likely not be consistent. To avoid this problem, ensure that managed IP phones that use region significant digits use different registration groups with different managed Interaction SIP Proxy servers.

Connect Interaction SIP Proxy to the Customer Interaction Center server

Creating a managed proxy requires a connection from Interaction SIP Proxy to a Customer Interaction Center server. To connect Interaction SIP Proxy to a Customer Interaction Center server, do the following steps:

1. Open a web browser and navigate to the URL of the Interaction SIP Proxy server.

If you are prompted about a certificate error, add an exception for this URL. You are then prompted for a user name and password.

2. Enter the user name and password for Interaction SIP Proxy and select the **OK** button.

Tip:

The default user name and password are *admin* and *1234*.

The Status - About webpage is displayed.

3. In the top-right corner of the page, select the **System** icon.

The System-IC Integration page is displayed.

° l	nteraction SIP Proxy	🚺 👰 🕅 📢 🕐
O CIC	1010100	Status Config System Logout Help
System		
IC Integration	Managed SIP Proxy Status Display Name SIP Registration Address IC Username IC Password	Disconnected bobr-sp2018r1.dev2000.com
License	Discovery Method Discovery Parameters	
Administration	Provision Proxy	No Clear Cache
	Option Code	160
	Option Value	Default http://172.17.31.73:8088 Custom
		Connect

- 4. In the **Display Name** box, enter a character string that will be displayed in Interaction Administrator.
- In the SIP Registration Address box, select the host name or IP address of this Interaction SIP Proxy server. Managed IP telephones will use this address when sending a REGISTER request to Interaction SIP Proxy.

Note:

If a Domain Name Service (DNS) server does not reside in the same local network as the Managed IP telephones, Genesys recommends that you use the listed IP address so that service is not interrupted in the case of WAN outages.

- 6. In the **IC Username** box, enter a valid Customer Interaction Center user name so that Interaction SIP Proxy can connect with the Customer Interaction Center server. This user must be an Administrator in the Customer Interaction Center system.
- 7. In the **IC Password** box, enter the password that is associated with the user name that you entered in the **IC Username** box.
- 8. In the **Discovery Method** list box, select one of the following options:
 - Static Select this method if you want to list one or more addresses of Customer Interaction Center Provisioning Servers in the Discovery Parameters box. If you specify multiple Customer Interaction Center server addresses, Interaction SIP Proxy applies them in the order in which they appear. For more information, see the Help.
 - DHCP Select this method if you want to use Dynamic Host Control Protocol (DHCP) to provide a connection to the Customer Interaction Center Provisioning Server. For more information, see Interaction SIP Proxy Help.
- 9. In the **Discovery Parameters** box, enter the appropriate information for the method that you selected:
 - Static Enter one or more addresses (host name, fully-qualified domain name, or IP address).
 - **DHCP** Enter the option number **160**.

Note:

For information on the purpose and usage of the other controls on the IC Integration webpage, see *Interaction SIP Proxy Help*.

10. At the bottom of the page, select the **Connect** button.

Interaction SIP Proxy displays a dialog box listing the settings that it will use to connect to the specified Customer Interaction Center server.

11. Click OK.

Interaction SIP Proxy establishes a connection to the specified Customer Interaction Center server.

Trust the Interaction SIP Proxy connection and assign a location

When you first configure Interaction SIP Proxy to connect to a Customer Interaction Center server, the web interface will display **Pending Approval**. This message indicates that you must configure Customer Interaction Center to trust the connection with Interaction SIP Proxy. Also, you should assign this Interaction SIP Proxy server to a predefined location so that it can service SIP devices in the same geographical region. To do these two tasks, do the following steps:

Important!

This procedure assumes that you have already created locations in your Customer Interaction Center server system. If you have not done so, see the following topic in Interaction Administrator Help: Interaction Administrator > IC Server > Regionalization > Create Location

- 1. From the Customer Interaction Center server console, open Interaction Administrator.
- 2. In the left pane, expand the System Configuration container.
- 3. In the left pane, select the **SIP Proxies** object.

A list of Interaction SIP Proxy servers that have been configured to connect to this Customer Interaction Center appears in the right pane.

4. Double-click the entry that corresponds to the Interaction SIP Proxy server that you recently connected to the Customer Interaction Center server.

The **SIP Proxy Configuration** dialog box for the selected server is displayed.

SIP Proxy Configuration - SIP Proxy 1				
General Web Configurat	on Usage Custom Attributes History			
Trust status: New	Trust this proxy			
Location: <defau< td=""><td>It Location></td><td></td></defau<>	It Location>			
Proxy Details		_		
Version:	1.0001.0017.000			
Registration Address:	8413			
Ports:	5060 (UDP), 5060 (TCP), 5061 (TLS)			
Image: Confirm auto-save OK Cancel Apply				

- 5. Select the Trust this proxy button.
- 6. In the **Location** list box, select the predefined region to which you want to assign this Interaction SIP Proxy server.

7. Select the **OK** button.

The Interaction SIP Proxy web interface now displays **Activated** in regards to this Customer Interaction Center server.

Note:

If, after completing this procedure, you select the **Untrust this proxy** button, Customer Interaction Center will not allow future communication and will not enable trust with that Interaction SIP Proxy server. To allow Customer Interaction Center to communicate with that Interaction SIP Proxy server again, you must delete the server in the **SIP Proxies** container of Interaction Administrator, redefine the connection to the Customer Interaction Center server in the Interaction SIP Proxy web interface, and select the **Trust this proxy** button for that new server connection in Interaction Administrator.

Appendix A: Antivirus requirements and best practices for Customer Interaction Center and subsystem servers

This section provides the best practices and additional information regarding antivirus software products for Customer Interaction Center and its subsystem servers. These subsystem servers include Interaction Media Server, Interaction Media Streaming Server, Interaction SIP Proxy, and others.

When you install and use an antivirus software product on servers for Customer Interaction Center or its subsystems, do the following tasks to ensure maximum performance and processing capacity:

Install only a supported antivirus product	31
Install only the virus protection security feature	32
Configure real-time protection for only write operations	32
Exclude continually accessed file types and directories	33
Update virus definitions daily	33
Conduct a full scan of the file system on a regular basis	33

Genesys has created documentation for configuring the supported antivirus software products for use with Customer Interaction Center servers. You can find this documentation by selecting the **Data and System Protection** hyperlink on the following webpage:

http://testlab.inin.com

Install only a supported antivirus product

Genesys selects and tests different antivirus software products from multiple vendors based on the popularity of the product in customer environments. Genesys tests each antivirus software product on several criteria, such as performance impact, compatibility, and processing capacity. Genesys then validates specific antivirus software products for use with Customer Interaction Center and its subsystem servers.

To view the supported antivirus software products, do the following steps:

1. Open a web browser and navigate to the following URL address:

http://testlab.inin.com

2. Select the Data and System Protection hyperlink.

The resulting webpage displays the supported antivirus products, the associated versions, and any impacts on performance and capacities for Customer Interaction Center and its subsystem servers.

Important!

Ensure that you know what antivirus software product and version that you will use on your Customer Interaction Center and its subsystem servers before you make purchasing decisions. Some antivirus software products reduce capacities and performance, which require additional servers or affect licensing decisions.

Install only the virus protection security feature

Many software security products and suites include features in addition to virus protection. For performance and capacity considerations, Customer Interaction Center and its subsystem servers do not support any third-party security features other than virus protection. Many of these security features require the installation of drivers that can introduce decreases in performance and capacity, such as resets of network interface adapters.

The following list provides some of the unsupported security features that software security suite products can install:

- Firewall
- Malware protection
- Spyware protection
- Intrusion prevention
- Network monitoring

Important!

As security suite products typically install all security features by default, Genesys requires that you do not use standard or default installation options. Customize the installation to include only virus protection.

Configure real-time protection for only write operations

Most antivirus software products provide a *real-time protection* feature, which scans for viruses when a program or process attempts a read, write, modify, or execute operation on a file. The terminology for this type of feature varies between antivirus software products, such as *On-Access Scanning* and *Auto-Protect*. So that you can configure the real-time protection feature of your antivirus software product, see the documentation for that product to determine its terminology for that feature.

Server software products execute and read files frequently. By default, most antivirus software products use the real-time protection feature to scan files on read, write, modify, and execute operations. Such a configuration can significantly reduce input and output performance of the storage media, create file lock contention, and cause a reduction in processing capacities of the host server.

Important!

Configure the real-time protection feature of your antivirus software product to scan for viruses for only *write* operations, such as when files are created or modified.

Exclude continually accessed file types and directories

To process the interactions in your organization, Customer Interaction Center and its subsystem servers must write and modify files on a rapid, continual basis, such as recordings and log files. To ensure the maximum performance, configure your antivirus software product to exclude real-time protection of specific file types and directories, as presented in the following sections.

Files and file types to exclude from real-time protection

Configure your antivirus software product to exclude the following files and file name extensions from any real-time scanning:

- .fbma
- .rpt
- .i3p
- .i3c
- .ivp
- .dxs
- .ihd
- .i3pub
- .db (for inin.db database files)
- .ininlog (CIC log file format)
- .ininlog.ininlog_idx (CIC log index file format)

Directories and subdirectories to exclude from real-time protection

Important!

When you exclude a directory from real-time protection, ensure that all of its subdirectories are also excluded.

Configure your antivirus software product to exclude the following directories and all subdirectories from any real-time scanning:

- %allusersprofile%\Interactive Intelligence\Interaction SIP Proxy\Recordings
- %allusersprofile%\Interactive Intelligence\Interaction SIP Proxy\Resources\I3SIPProxyCache.xml

Important!

Your specific antivirus software product may require additional configuration. Consult the document for your specific antivirus software product on <u>http://testlab.inin.com</u> for any special instructions beyond these recommendations.

Update virus definitions daily

Genesys strongly recommends that you configure your antivirus software product to download and implement new virus definitions on a daily basis. Schedule these updates to occur during off-peak hours. For more information about virus definitions, see the documentation for your antivirus software product.

Conduct a full scan of the file system on a regular basis

Genesys strongly recommends that you configure your antivirus software product to scan all files of the host server storage media on a daily or weekly basis. Schedule this scan to occur during off-peak hours. Ensure that you select a time for starting the scan that allows it to finish before demand on host server resources increases.

Appendix B: OpenSSL Copyright

NOTICE

This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl.org/). Copyright © 1998-2011 The OpenSSL Project. All rights reserved.

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Change Log

Change Log Date	Changed
12-January-2012	Initial release
6-September-2012	Added antivirus appendix
20-February-2013	 Added backward compatibility statement for Interaction Center 3.0 Updated content to reflect changed in SIP Proxy Configuration dialog box in Interaction Administrator.
20-March-2013	Added procedure for migrating Interaction SIP Proxy 4.0 to 4.0 R2
25-April-2013	Corrected backward compatibility statement for Interaction Center 3.0
19-August-2013	 Added details on licensing DP-1082 - Removed reference to an obsolete product Terminology clarification
24-March-2014	Updated images to reflect modified user interfacesModified content to support new SNMP interface
3-September-2014	 Updated documentation to reflect changes required in the transition from version 4.0 SU# to CIC 2015 R1, such as updates to product version numbers, system requirements, installation procedures, references to Interactive Intelligence Product Information site URLs, and copyright and trademark information. IC-120541 – Added content for creating a DNS A-record to resolve short host name when hosted on Interaction Edge
19-January-2015	 Added .db (for .inin.db) as a file extension to exclude from active antivirus scanning Updated installation prerequisites for new "Appliances" .ISO file Updated installation procedure IC-75983 – Added a "Region significant digits" item in "Considerations for using a managed Interaction SIP Proxy server" Updated Copyright and Trademark information page
25-April-2015	 Updated Copyright and Trademark information page Modified formatting for new corporate documentation standards Updated screen shots for changes in product branding
3-August-2015	• IC-127337 - Added admonishment stating that only versions 1.1 and 1.2 of the TLS protocol are supported by the Interaction SIP Proxy web interface.

Change Log Date	Changed	
	Modified content to conform to the new ININ SNMP service.	
	 IC-128173 - Updated requirement of Microsoft .NET Framework to version 4.0 	
29-September-2015	 Updated all screenshots to reflect new corporate branding IC-131864 - Added an admonishment stating that Interaction SIP Proxy supports only TLS v1.1 and TLS v1.2. TLS v1.0 has weak ciphers that could compromise security. 	
15-November-2017	 Updated Copyright and Trademark information page Updated screen captures for corporate rebranding Updated requirements to include Windows Server 2016 	
6-February-2018	Updated requirements to remove Windows Server 2008	