

PureConnect®

2018 R5

Generated:

12-November-2018

Content last updated:

March 19, 2018

See Change Log for summary of changes.

GENESYS

Configuration of CIC Phone Features for Polycom Phones

Technical Reference

Abstract

This document applies to non-managed phones. It describes the manual configuration of Polycom IP phones where an administrator changes the Polycom phone configuration files. It details the configuration of Shared Line Appearances (SLAs), Zone Paging, Call Park, and Group Call Pickup. These features require configuration settings in Interaction Administrator and Polycom configuration files.

For the latest version of this document, see the PureConnect Documentation Library at: http://help.genesys.com/cic.

For copyright and trademark information, see https://help.genesys.com/cic/desktop/copyright_and_trademark_information.htm.

Table of Contents

Table of Contents	2
Overview	3
CIC client	4
SIP Auto Provisioning	5
Managed Phones vs. Non-Managed Phones	5
Requirements	6
Polycom Configuration Files	7
IP Phone Configurator	7
Manual configuration	7
Interaction Administrator Configuration Settings	8
SNTP Server	9
DHCP Server	10
TETP Server	11
TFTP Server Subdirectories	
TFTP Server Interface	11
View the TFTP Server Configuration	11
Monitoring TFTP Server Activities	12
Configuring the TFTP Server	14
Modifying the Phone Configuration Files	16
Changing the TFTP Server Login Credentials	16
Forgot Your User Name and Password?	17
Installation and basic configuration	17
Shared Line Appearances	18
Terminology	18
Operation	19
Configuration	20
Interaction Administrator primary station configuration	21
Interaction Administrator secondary station configuration	22
Polycom configuration settings for SLAs	23
Call Appearances	23
Polycom SLA settings examples	25
Polycom display examples	26
Call Park	2/
Interaction Administrator configuration settings for Call Park	27
Polycom configuration settings for Call Park	2/
Group Call Pickup	28
Interaction Administrator configuration settings for Group Call Pickup	28
Polycom configuration settings for Group Call Pickup	28
Zone Page	29
Limitations	29
Interaction Administrator configuration settings for Zone Page	30
Polycom contiguration settings for Zone Page	31
*90x Dialing Options	32
Change Log	33
Copyright and Trademark Information	34

Overview

This document addresses the manual configuration of Customer Interaction Center (CIC) phone features for Polycom phones. It includes configuration and setup instructions for the following features:

- Shared Line Appearances
- Zone Paging
- Call Park
- Group Call Pickup

CIC client

Customer Interaction Center (CIC) supports two interaction management client applications. This documentation uses the term CIC client to refer to either Interaction Connect or Interaction Desktop.

SIP Auto Provisioning

CIC includes the SIP Auto Provisioning feature which enables you to configure supported Polycom IP phones or SIP Soft Phones automatically. Interaction Administrator includes the Managed IP Phones container and other enhancements that support autoprovisioning.

Managed Phones vs. Non-Managed Phones

The managed phone approach is the preferred method for configuring, setting up, and managing Polycom IP phones or SIP Soft Phones. You can use auto-provisioning and still have the flexibility to create custom configuration files as needed. For more information, see *IC Managed IP Phones Administrator's Guide*.

This technical reference addresses the manual configuration of Polycom IP phones which occurs when an administrator directly modifies the Polycom phone configuration files. It details configuration changes required in the Polycom configuration files to support CIC phone features. It also describes the necessary Interaction Administrator configuration settings for these non-managed phones.

Adopt one approach or the other for the configuration and setup of your IP phones. For the Shared Line Appearances feature, you cannot mix managed and non-managed phone types.

The Call Park and Zone Page features are automatically available for managed phones and require no additional changes to the individual phone configuration files. However, it is also necessary to configure the appropriate station groups in Interaction Administrator to support the Call Park and Zone Page features. See *Interaction Administrator Help* for details on station group configuration. See also <u>Interaction Administrator configuration settings for Zone Page</u>.

Requirements

Polycom firmware requirements for each model are listed on the **SIP IP Phones** information page available at the PureConnect Testlab website, <u>http://testlab.genesys.com</u>. Also, consult the Polycom documentation for instructions on determining the firmware version number for a particular phone.

Polycom Configuration Files

IC phone features require changes to the Polycom configuration files. The SIP configuration file (sip.cfg) contains SIP protocol and core configuration settings that typically affect an entire installation. This file is supplied in the Polycom firmware.

The IP Phone Configurator creates the xIC.cfg file which overrides attribute values in sip.cfg. We recommend that you do not modify the sip.cfg file. If you store all site-wide configuration values in the xIC.cfg file, and then you can install Polycom firmware upgrades without replacing previous configuration changes.

IP Phone Configurator

IP Phone Configurator is a tool that speeds up the initial configuration of large numbers of Polycom phones. See **Download the IP Phone Configurator utility** under **Polycom Related Files** on the **SIP-Related Download Files** page on the PureConnect Product & Support Information website: <u>https://my.inin.com/products/sip-platforms/Pages/SIP-Related-Download-Files.aspx</u>.

IP Phone Configurator creates these files:

xIC.cfg

This site-wide settings file provides overrides to attributes in the sip.cfg.

Note:

If you are not in the United States, or any other country that uses the same DST scheme, also adjust some site-specific settings in xIC.cfg, such as GMT offset and daylight savings time attributes.

```
<proup name>.cfg
```

This optional file provides overrides to attributes in the individual phone configuration files, phone name- < *Ethernet* address> .cfg.

<Ethernet address>.cfg

This file is unique for each phone. This bootstrap file tells the phone which configuration files to load.

Note:

The *Ethernet* address part of the file name is the MAC address of the phone. < *Ethernet* address>.cfg is the term used in the Polycom documentation.

phone name-<Ethernet address>.cfg

This file is unique for each phone. It contains phone configuration settings for one phone.

The *phone name* part of this file name is the individual phone name you specify in this tool. If you import data to Interaction Administrator, it is also the station name for the phone.

<any name>.csv

This phone configuration data export file can be used to import station data to Interaction Administrator.

<any name>.ipc

Use this IP Phone Configurator data file to save and retrieve phone and phone group data. It can be used to organize phone configuration data by site, company, vendor, or other identifier.

Manual configuration

Polycom configuration files are in XML format. After you create these files, it is easier to modify them if you use an XML editor.

Note:

We recommend that you do not modify the $\mathtt{sip.cfg}$ file.

Interaction Administrator Configuration Settings

In addition to changes to Polycom configuration files, some of the CIC phone features require certain configuration settings in Interaction Administrator.

This document contains examples of the appropriate settings in Interaction Administrator. See Interaction Administrator Help for additional details.

SNTP Server

The CIC installation process sets the SNTP (Simple Network Time Protocol) service to run on the CIC server. Depending on where CIC is installed, additional SNTP configuration can be required.

Note:

•

You can also configure SNTP settings by means of DHCP. For more information, see "Configure the time server (Polycom and IIS)" in *CIC Managed IP Phones Administrator's Guide*. These settings are valid for both managed and non-managed phones.

- If CIC is installed on a domain controller Windows Server 2008, no additional SNTP service configuration is necessary.
- If CIC is *installed on a non-domain controller* Windows Server 2008, it is possible the NTPServer is not enabled. The system is an **NTP/SNTP client**, but not a server. Two additional configuration steps are necessary for the SNTP service.
 - 1. Change a registry entry on the CIC server:
 - a. Locate
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\W32Time\TimeProviders\NtpServer and
 set the value of Enabled to 1.
 - b. Open a command window, and type:

net stop w32time && net start w32time

Note:

The NTP/SNTP server-side functionality is not active on non-domain controllers by default.

- 2. Supply the address of the SNTP server in the xIC.cfg file.
- If CIC is *installed on a non-domain controller* Windows Server 2008 system in a domain without a reliable NTP source, Polycom phones do not use this NTP server. A reliable NTP source can be external or direct. Two additional configuration steps are necessary for the SNTP service.
 - 1. Make two changes in registry entries on the CIC server:
 - a. Locate HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\W32Time\Config and set the value of AnnounceFlags to 5.
 - b. Locate
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\W32Time\TimeProviders\NtpServer and
 set the value of Enabled to 1.
 - c. Open a command window, and type:

net stop w32time && net start w32time

Note:

These registry changes makes the time services a trusted authority using the local clock. A system that uses an external NTP server is preferred, but the default configuration is to try to use an external NTP server. If that is not working, these parameters treat the computer clock as a trusted source for computers connecting to this SNTP server.

2. Supply the address of the SNTP server in the $\tt xIC.cfg$ file.

DHCP Server

Polycom phones also support dynamic host configuration protocol (DHCP). When set up, DHCP permits Plug and Play TCP/IP network setup.

Basic network settings can be derived from DHCP or typed manually using the LCD-based user interface on the phone. Polycom recommends using DHCP where possible to eliminate repetitive manual data entry. You can change phone network configuration settings by means of a main menu and two submenus: **DHCP Menu** and **Server Menu**.

Parameters obtained from a DHCP server can override manually typed networking parameters. These parameters include the TFTP server (boot server) address and the SNTP server address. For more information, see *Polycom® Administrator Guide* for a list.

TFTP Server

CIC provides a built-in TFTP server. When a Polycom phone is switched on, it downloads its configuration files from the TFTP root directory. By default, Polycom phones also write log files to this TFTP directory (if the TFTP server is configured to accept write operations).

Note:

The TFTP server does not directly facilitate the creation or modification of Polycom phone configuration files. The TFTP root directory is available only by means of the network (if you set it up as a shared folder) or by direct access to the CIC server. The TFTP server is not used for managed phones.

TFTP Server Subdirectories

By default, the IP phone files are stored in the main TFTP Server directory. Or you can use separate subdirectories on the TFTP Server for phone logs, contact directories, and override files. Specify these subdirectory names in the Polycom master configuration file (<*Ethernet address*).cfg) to make the phones write the files to the appropriate subdirectories.

These types of files can be stored in subdirectories on the TFTP Server:

Phone logs

Both startup and application event log files are maintained for each phone. These event log files are stored in the flash file system on the phone and are periodically uploaded to the TFTP server. The event log files are *<*Ethernet address>-boot.log and *<*Ethernet address>-app.log.

Contact directories

Each phone maintains a local contact directory. The person using the phone can change the directory contents at will. Changes are stored in the flash file system on the phone and are backed up to the boot server copy of *<Ethernet address>-directory.xml* (if configured). Only updated contact directories are stored in this subdirectory. When the phone starts up, the boot server copy of the directory, if present, replaces the local copy.

Overrides

The <*Ethernet address*>-phone.cfg files are also referred to as boot server override files. Configuration overrides made at the phone are written to this subdirectory. Storing the updated phone configuration files in a specific subdirectory helps to separate them from the files you often modify which are stored in the root directory.

TFTP Server Interface

You can use a web-based interface for the CIC TFTP server to:

- Monitor the TFTP client file transfer activity.
- Specify upload file types.
- Configure the upload subdirectories.

View the TFTP Server Configuration

TFTP server configuration is performed in its web-based configuration interface.

To display the TFTP server browser-based configuration pages:

1. Point your browser to the TFTP server and its port number.

Example: http://spyhunter:8086

Note:

The default TFTP server port number is 8086, but this setting can be changed in the registry. See HKEY_LOCAL_MACHINE\SOFTWARE\Interactive Intelligence\TFTPServer\Config Port.

2. In the Enter Network Password dialog box, type the TFTP server User Name and Password and click Log In.

he server http:// assword. The se igest authentica	adonis:8086 rver says: IN tion).	requires a usen IN TFTP Server o	name and in 'ADONIS' (
User Name:			
Password:			

Note:

The TFTP server User Name and Password are defined in the initial installation. Unless otherwise specified, the default user name is admin (all lowercase) and the default password is 1234.

Tip:

See Changing the TFTP Server Login Credentials for information on changing this user name and password.

Result:

The TFTP Server About configuration page appears. It contains basic TFTP server information.

Note:

You can also display this page at any time by selecting **Status** from the menu bar and clicking the **About** icon on the left side of the **Status** page.



Status

1	Machine Name	ADONIS	
	File Version	16.1.0.152	
About	Your IP Address	175117112401400	
Activity			

Machine Name

The TFTP server computer name.

File Version

PureConnect Customer Care representatives sometimes ask for this TFTP server files version number.

Your IP Address

The IP address of the computer where you are running the browser.

Monitoring TFTP Server Activities

You can monitor and review the client file transfer activities on the TFTP server. Select **Status** from the menu bar and click the **Activity** icon on the left side of the **Status** page.

റ്	TFTP	Serve	r i			📊 👰 🛼
0						Status Settings Logout
Status						
i	Activ	rity				Results 1 - 10 of 10
About	84.44	1 100 108			19 ·	
1	Type	Date	Time	Client	File	Details
Activity	*	2015/07/14	14:19:10	172.18.108.64	0004f262bbcc-app.log	17315 (16 KB)
ACTIVITY	8	2015/07/14	14:19:09	172.18.108.64	logs/0004f262bbcc-app.log	Directory specifications aren't allowed against this server. Only Root path GETs and PUTs are allowed.
	\$	2015/07/14	14:19:09	172.18.108.64	0004f262bbcc-boot.log	73216 (71 KB)
		2015/07/14	14:19:06	172.18.108.64	logs/0004f262bbcc-boot.log	Directory specifications aren't allowed against this server. Only Root path GETs and PUTs are allowed.
	8	2015/07/14	14:19:06	172.18.108.64	00000000000.cfg	Provision mode file not retrieved
	E	2015/07/14	14:19:05	172.18.108.64	contacts/00000000000-directory.xml	Provision mode file not retrieved
	8	2015/07/14	14:19:04	172.18.108.64	0004f262bbcc.cfg	Provision mode file not retrieved
		2015/07/14	14:19:02	172.18.108.64	contacts/0004f262bbcc-directory.xml	Provision mode file not retrieved
	*	2015/07/14	14:18:14	172.18.108.64	0004f262bbcc-app.log	29003 (28 KB)
	8	2015/07/14	14:18:12	172.18.108.64	logs/0004f262bbcc-app.log	Directory specifications aren't allowed against this server. Only Root path GETs and PUTs are allowed.
	C	ear	Refresh	Auto-refr	esh every 10s	GETs and PUTs are all

The following columns appear in the Activity view:

Туре

These icons identify the direction of the file transfer, a file transfer failure, or a message.

•	File successfully downloaded from phone to TFTP server.
	File successfully uploaded from TFTP server to phone.
×	File transfer failure.
0	IP Address is not in the allowed range.
Â	Phone has returned an error during the file transfer. The message from the phone appears in the Details column.

Date and Time

Date and time of the file transfer activity. Activities are presented in reverse chronological order, with the most recent activity first on the list.

Client

The IP address for the telephone.

File

The name of the file that was transferred.

Details

This column displays information related to the activity. It displays the transfer size for uploads and downloads. If a File Transfer Error occurs, it displays the message.

Note:

Transfer size is not always the same as file size. If a phone knows that it does not need the entire file, it is common for it to quit downloading a large file. For example, the phone can determine the file version from the header (first set of bytes) of sip.id and if it has the current version, it stops the download process.

Use these controls to work with the Activity view:

1	Display first page of Activity view.
	Display previous page of Activity view.
1 <u>2</u>	Click a page hyperlink to explore the Activity view page by page.
•	Display next page of Activity view.
	Display last page of Activity view.
Clear	Clear all activity history from the Activity view.
Refresh	Refresh the Activity view with the latest file transfer information.
Auto-	Select this check box to refresh the Activity view automatically every 10 seconds.
every 10s	Note: This option is available only on the first page. It updates the display so you always see the 15 most recent file transfer activities.
	Tip: You can control the number of items displayed in each page by adding size=X to the URL string, for example http://spyhunter:8086/status/activity?size=30). You can use Auto-refresh to see X number of the most recent file transfer activities.

Configuring the TFTP Server

You can configure the TFTP server from the web interface.

1. Select **Settings** from the menu bar and click the **Parameters** icon on the left side of the **Settings** page. **Result:**

The TFTP Server Parameters page appears.

ttings		
A	Name	Value
rameters	Allowed Upload Extensions	log Del Add Value
visioning	Allowed Upload Sub Directories	Add Value
2	IP Filters	Add Value
ninistration	TFTP Mode	Read and Write
	TFTP Root Path	D:\I3\IC\TFTPRoot

- 2. In Allowed Upload Extensions, do one of the following:
 - Click Add Value to specify an additional allowed extension for files that can be uploaded to the TFTP server.
 - Click **Del** on the appropriate line to delete an allowed extension.

Default value: log.

Note:

Specify an allowed extension without any prefix or period. For example, specify *.log as log to allow only *.log files to be uploaded. If **Allowed Upload Extensions** values are not set or are blank, the TFTP server accepts any file name when the server is configured for write or read/write mode.

3. In Allowed Upload Sub Directories, do one of the following:

- Click Add Value to specify the name of a subdirectory in the TFTP server root directory that can accept files uploaded from the phones.
- Click **Del** on the appropriate line to delete the name of an allowed subdirectory.

Default value: blank

Note:

Directory names can contain only upper or lowercase letters, numbers, and underscores. Spaces and punctuation are not allowed.

Warning:

Physically create the appropriate subdirectories on the TFTP server and identify them here. Phone logs, configuration files, or contact directories cannot be saved until the subdirectories exist. Allowed subdirectory names must match the ones used in the *<Ethernet address>.cfg* files for each phones. See <u>Modifying the Phone Configuration Files</u>.

4. In IP Filters, do one of the following:

• Click Add Value to specify a range of IP addresses which have access to the TFTP server. Type the address range in the format X.X.X.X-X.X.X in the two boxes provided.

access. You can specify multiple address ranges.

• Click **Del** on the appropriate line to delete an allowed IP address range.

Default values: blank

Note:
Addresses outside the ranges provided are not allowed

Warning:

If no values are specified, access is not limited.

5. In TFTP Mode, select the mode the TFTP server runs in. The possible settings are:

Read	The TFTP server sends files, but does not accept TFTP uploads. This setting is the most secure mode.
Read and Write	The TFTP server allows upload and download of files.
Write	The server accepts TFTP uploads, but does not allow phones to download files. This mode would almost never be used for supporting IP phones.

6. In TFTP Root Path, specify the directory the TFTP server uses as its home or root directory.

Default value: C:\I3\IC\TFTPRoot

The CIC install creates this registry value and sets it to [i3 install disk][i3 install directory]\TFTPRoot (example: D:\i3\ic\TFTPRoot) and creates the directory automatically.

- 7. Do one of the following:
 - Click the Apply Changes button to save changes to the TFTP server configuration.

Note: These changes are effective immediately.

• Click the Cancel button to discard changes made to the TFTP server configuration.

Modifying the Phone Configuration Files

To direct the phone logs, contact directories, and overrides files to the appropriate TFTP server subdirectories, also modify each <*Ethernet address*>.cfg file.

Tip:

You can specify the name of the log directory in the Site configuration settings in the CIC IP Phone Configurator. This log directory name defaults to all the *<Ethernet address>.cfg* files you create with this tool. The log file directory name specified in the TFTP Server Parameters must match the LOG_FILE_DIRECTORY value in the *<Ethernet address>.cfg* for the Polycom phones.

Using an XML editor, supply the appropriate directory names in these attributes:

- LOG_FILE_DIRECTORY
- OVERRIDES_DIRECTORY
- CONTACTS_DIRECTORY

Changing the TFTP Server Login Credentials

You can change the TFTP server user name and password at any time.

1. Log on to the TFTP server configuration interface by running a browser on the TFTP server computer.

Note:

You can log on to the TFTP server from another computer, but we recommend that you run the browser on the server computer when changing the logon credentials. See <u>Configuring the TFTP Server</u> for instructions for displaying the TFTP Server configuration pages.

Select Settings from the menu bar and click the Administration icon on the left side of the Settings page.
 Result:

The Change Login Credentials page appears.

പ് 1	iP Server 📊 👰 🐎
0	Status Settings Logout
Settings	
Parameters	Change Login Credentials:
Provisioning	Old User Name Old Password
Administration	New User Name New Password Confirm New Password
	Important: This is not a secure (https) session. The credentials are thus sent to the server in plain text. We recommend you run the browser on the server machine to change the credentials.

3. In the **Old User Name** and **Old Password** boxes, type the user name and password for the user currently logged on to the TFTP Web Configuration pages.

Tip:

The CIC server install sets the default user name to admin (all lowercase) and the default password to 1234.

- 4. In the New User Name and New Password boxes, type a new user name and password.
- 5. In the Confirm New Password box, retype the new password.
- 6. Do one of the following:
 - Click Apply to save the new user name and password.
 - Click Revert to discard user name and password changes.

Forgot Your User Name and Password?

If you forget the TFTP server configuration logon user name and password, you can reset them to the default values of admin and 1234 by deleting the following registry entries. And then you can use the default values to log on and reset the logon credentials.

```
HKEY_LOCAL_MACHINE\SOFTWARE\Interactive Intelligence\TFTPServer\Config Username
HKEY_LOCAL_MACHINE\SOFTWARE\Interactive Intelligence\TFTPServer\Config Password
```

Installation and basic configuration

The CIC server install automatically installs the necessary TFTP server component files. You can use the Setup Assistant to change the TFTP server **Service Startup Type** from **Manual** to **Automatic**. See *IC Installation and Configuration Guide* for additional details.

Note:

If you change the TFTP server **Service Startup Type**, restart the service.

Shared Line Appearances

Users can employ Shared Line Appearances (SLAs) to use their phones to manage calls for other users. They can answer and make calls as if they were using an CIC station belonging to another user or using a group extension.

An SLA is associated with a line key on the Polycom phone. Users can have both shared and private lines associated with different line keys on the same phone.

Note:

Ensure all the phones that use the Shared Line Appearances feature are either managed or non-managed. You cannot mix the two types.

Terminology

Some of the terms used in this document for configuration and setup of SLAs include:

Line Appearance

An appearance for a telephone line, a single-user circuit on a telephone system. A phone can have more than one line appearance for the same line or shared line.

Shared Line Appearance

A line appearance that appears on multiple phones.

Call Appearance

An active call on a line appearance or shared line appearance

Multiple Call Appearances

More than one call on one line appearance or on a shared line appearance. Only one of the calls can be active at one time; the other calls on the same line appearance are on hold.

Primary Station

The station to which the line appearance is assigned.

Secondary Station

The station on which an SLA appears. Secondary stations must have their own private (non-shared) line in addition to the SLA.

Primary User

The user whose station is the **Primary Station**.

Secondary User

The user whose station is the Secondary Station.

Operation

An SLA occurs when a single CIC station (or *line*) appears on multiple phones. There is a single logical entity for the shared *line*, even though it can appear on several distinct physical devices (phones). A device using the shared line appearance does not have a unique identity or addressability.

SLAs are similar to extension phones in your home. When a call comes in, all of the extensions ring and you can answer the call from any extension. When you call from an extension, nobody else can call on the same line until you are finished. However, there is one important difference. The line belongs to a specific station in IC. This station is the *primary* and all the other stations on which this line appears are *secondary*. This distinction becomes important when CIC user status for the user associated with the primary station is set to **Available**, **Forward**, or one of the *not available* statuses.

Here are some features of the user experience with shared line appearances:

- Shared line appearances make the same line available on more than one phone.
- Shared line appearances can be associated with more than one line key on a phone.
- A specific icon on the phone display indicates a Shared Line Appearance. This icon is typically a telephone that is half black and half gray.
- In most cases, incoming calls to a shared line appearance cause all of the phones with the shared line appearance to ring.

Note:

If the status for the CIC user of the primary station is one of the *not available* statuses, incoming calls do not ring on the primary station. Incoming calls ring on secondary stations when the primary user is not available. These calls ring regardless of the secondary user's CIC status unless the secondary user presses the **Do Not Disturb** button on the phone.

- If the CIC status for the primary station user for the SLA is set to **Available**, **Forward**, none of the phones with the SLA ring for alerting calls. The call is sent to the forwarded number for the primary station user. If the forwarded number does not answer the call, it goes to voice mail for the primary station user.
- Any user who is party to an SLA can answer an alerting call or a held call on an SLA. Only one user is connected to the call if multiple users attempt to pick up the call simultaneously.
- Any call made on an SLA is reported as if the primary station user called.
- If an SLA is in use on one phone, it cannot be used on another phone at the same time. If two users attempt to use an SLA simultaneously, the system permits one to succeed and indicates to the other that the line is in use.
- The phone display indicates when an SLA is alerting, off-hook, on hold, or connected.
- Calls on SLAs can be transferred, put on hold, or added to a conference.
- If no one answers an alerting call on an SLA, the call goes to voice mail for the primary station user.

Configuration

You configure SLAs in both the Polycom phone configuration files and in Interaction Administrator.

The following sections describe the parameters and values you must set for SLAs. The examples describe a situation where an assistant is able to answer and place calls on the line belonging to the manager through the use of shared line appearances. The assistant also has three private line appearances which are not shared with the phone for the manager.

These values are used in the following examples:

	Manager	Assistant
¹ IA stands for Interaction Administrator.		
² Nb. is an abbreviation for number.		
³ This example uses 70011 as the IA Identification Address on the finstations in sequence. For example, you could use 70012 for the next	rst secondary station. You con secondary station.	uld number any other secondary
Station type	Primary	Secondary
Private line appearances	0	3
Shared line appearances	3	3
IA ¹ Station Name	hal1	hal3
IA Station Extension	7001	7003
IA Nb. ² Calls	3	3
IA Identification Addr.	70011 ³	

Interaction Administrator primary station configuration

When you configure the primary station, you *specify the secondary stations on which the primary station appears*. In this example, you list the station for the assistant in the **Appearance On** tab of the station configuration for the manager. This setting indicates that the station for the manager appears *on* the phone belong to the assistant as a shared line appearance.

Identification Addr.:

This address is the SIP ID number for the primary phone and a sequential number. In this example, it is 70011 (the SIP ID number for the primary station and 1). For example, if multiple secondary stations monitor the same primary station, use 70011 for the first monitoring station and 70012 for the second monitoring station. Then number additional monitoring stations in sequence. This address must match the reg.x.address used for the shared line appearance in the Polycom phone configuration file for the secondary station. See <u>Polycom configuration settings for SLAs</u> topic.

See the Interaction Administrator Help topic: "SIP Station Appearances" for additional information about configuring secondary line appearances.

Addresses Audio Transport Session Authentication Phone General Appearances Region Appearances	adon Extension	/186		4	Active		
Station No. Calls Identification Addr. Add	idresses idio ansport	Appearance F	or Appeara	nce On	A [Come	tion Adds 1	
	ssion thentication one neral pearances gion	DANMPC	3	sip:7323@Al	val		Modify
			<u> </u>				

Interaction Administrator secondary station configuration

When you configure the secondary station, you *specify the stations which appear as secondary line appearances on the secondary station*. In this example, you list the station for the manager in the **Appearance For** tab of the station configuration for the assistant. These secondary line appearances *appear for* other stations.

See Interaction Administrator Help topic: "SIP Station Appearances" for additional information about configuring secondary line appearances.

tation Extension	7323		Active	0	
Addresses Audio	Appearance For Appearance On				
ransport	Station	Nb. Calls	Identification A	Connection Addr.	Add
Authentication	CW00040D	3	sip:7323@Ahal		Modify
hone	-				D.L.L.
ppearances		-			Leiece
region					
		-	d	h	

Polycom configuration settings for SLAs

All of the SLA settings are contained	in the Polycom phone configuration	files. Set the following attributes in the Registration
(<reg></reg>) section of the <ethernet< td=""><td>address>-phone.cfg files for th</td><td>e stations involved in shared line appearances.</td></ethernet<>	address>-phone.cfg files for th	e stations involved in shared line appearances.

Attribute	Notes
reg.x.address	This address corresponds to this registration (userPart or userPart@polycom.com).
	On the primary station, this number matches the user portion of the Identification Address of the SIP station in Interaction Administrator.
	For a shared line appearance on a secondary station, this number matches the user portion of the Identification Address of the Shared Line Appearance configured in Interaction Administrator.
	In both cases, this number must be unique across all SIP stations and shared line appearances.
reg.x.label	This text label appears on the phone display next to the associated line key. It can be the same as reg.x.address.
	On secondary stations, set this label to the reg.x.address of the primary station. This setting makes the label on the secondary line appearance the same as the one on the primary station.
reg.x.type	Set this attribute to private for line appearances that appear only on this phone.
	Set this attribute to shared for shared line appearances.
reg.x.thirdpartyname	Set this attribute to a string in the same format as reg.x.address.
	On the primary station, this attribute matches the reg.x.address for the primary station.
	On the secondary station, this attribute also matches the reg.x.address for the primary station.
reg.x.lineKeys	This attribute defines the number of line appearances on this phone which are associated with this address (the number of line keys on the phone associated with this registration.)
	Set this attribute from 1 to the maximum number of line keys on the phone.
reg.x.callsPerlineKey	This attribute defines the number of concurrent calls or conferences that can be active or on hold for each line key on the phone.
	Set this attribute to blank on the individual phones. Use the Call Appearances setting in Interaction Administrator to specify this value. See <u>Call Appearances</u> .

Call Appearances

Polycom SoundPoint® IP phones support multiple calls for each line key. You can define the number of concurrent calls or conferences that can be active or on hold for each line key on the phone.

Note:

Users can employ the Hold feature to pause activity on one call and switch to another call on the same line. The maximum number of calls for each line key varies by phone model. Consult the most recent version of *Polycom Administrator Guide SoundPoint*®/*SoundStation*® *IP SIP* for details.

The following instructions describe how to set the number of call appearances for each line key for a particular phone.

To set the number of call appearances:

- 1. In Interaction Administrator, in the Stations container, select the station that corresponds to the phone you are configuring.
- Right-click on the station name and select Properties. Result: The Station Configuration dialog box appears.
- 3. Select the Configuration tab and then select Session.
- 4. Clear the Use Global SIP Station Session Settings check box.

Call Forwarding	Emergency Information Custom Attributes History				
Configuration	Licensing Access Control Station Options				
ation Extension:	7323 🔽 Active				
ddresses udio	Use Global SIP Station Session Settings				
ansport	E in the the factor have				
uthentication	SIP Session Timeout: 60 seconds				
eneral	SIP Register Interval:				
ppearances edion	Disconnect on Broken RTP				
14100	Media Timing: Delayed				
	Media reINVITE Timing: Delayed				
	Terminate Analysis on Connect				
	T Disable Media Server Passthru				
	Station Connections are Persistent				
	Connection Call Warm Down Time: 5 seconds				
	Call Appearances:				
Indiana and an	1.41				

Note:

This selection prevents the phone from inheriting the SIP Session settings defined at the Station Space level. And then you can set unique values for this station.

5. Scroll down.

In Call Appearances, set the number of appearances for each line key.

Note:

The maximum number of calls for each line key varies by phone model. Consult the most recent version of *Polycom Administrator Guide SoundPoint®/SoundStation® IP SIP* for details.

Call Forwarding	Emergency Information	Custom Attribute	s History		
Configuration	Licensing Acce	ss Control	Station Options		
Station Extension:	7323	Active			
Addresses Audio	Use Global SIP Station Session Setting	β	4		
Transport	insport				
Authentication	SIP Session Timeout:	60 secor	ids		
General	SIP Register Interval:	1 Days			
Appearances Region	Disconnect on Broken RTP				
chester.	Media Timing:	Delayed ·			
	Media reINVITE Timing:	Delayed *			
	Terminate Analysis on Connect				
	Disable Media Server Passthru				
	F Station Connections are Persistent				
	Connection Call Warm Down Time:	5 secon	ıds		
	Call Appearances:	1			

6. Click Apply to save the settings. Click OK to close the Station Configuration dialog box.

Polycom SLA settings examples

In the following examples, the primary station configuration has one shared line that appears on three line keys (three shared line appearances). Configuration of the secondary station describes three line appearances of the private line for the assistant in the reg.1 attributes and three shared line appearances in the reg.2 attributes.

reg.1.displayName="7001" reg.1.displayName="7003" reg.1.address="7001" reg.1.address="7003" reg.1.label="7001" reg.1.label="7003"
<pre>reg.1.type="shared" reg.1.type="shared" reg.1.type="private" reg.1.auth.userId="" reg.1.auth.userId="" reg.1.auth.password="" reg.1.auth.password="" reg.1.auth.password="" reg.1.auth.password="" reg.1.server.1.expires="172.18.24.58" reg.1.server.1.transport="UDPonly" reg.1.server.1.retryTimeOut="" reg.1.server.1.retryTimeOut="" reg.1.server.1.retryMaxCount="" reg.1.server.1.retryMaxCount="" reg.1.acd-login-logou="0" reg.1.acd-login-logou="0" reg.1.callsPerLineKey="" reg.1.callsPerLineKey="" reg.2.thirdPartMame="7001" reg.2.adtress="172.18.24.58" reg.2.server.1.retryMaxCount="" reg.2.server.1.retryMaxCount="" reg.1.acd-login-logou="0" reg.1.acd-login-logou="0" reg.1.callsPerLineKey="" reg.2.log1="7001" reg.2.adtress="172.18.24.58" reg.2.server.1.expires.1" reg.2.adtress="172.18.24.58" reg.2.server.1.expires.1" reg.2.server.1.retryMaxCount="" reg.2.adtress="7001" reg.2.adtress="7001" reg.2.adtress="172.18.24.58" reg.2.server.1.expires.1" reg.2.adtress="172.18.24.58" reg.2.server.1.expires.1" reg.2.adtress="172.18.24.58" reg.2.server.1.retryTimeOut="" reg.2.adtress="172.18.24.58" reg.2.adtress="172.</pre>

Polycom display examples

This section presents examples of the Polycom phone displays that would be the result of the preceding settings examples. The appearances would vary depending on the phone model.

Primary station	Secondary station		
7001 Monday , January 13 3:28 PM 5 7001 NewCall Forward	3:28 p.m. 7003 7003 7001 7001 7001 New Call Forward		
This illustration shows the three shared lines as they would appear on a Polycom SoundPoint IP 500 SIP display.	This illustration shows the three private lines and three shared lines as they would appear on a Polycom SoundPoint IP 600 SIP display.		

Call Park

Users can employ Call Park to place the current call on hold in a specific orbit. An orbit can hold one call. The user who puts a call in orbit assigns the orbit a number. And then any user can pick up that call from another station.

While on a connected call, a user can press the call park soft key and type an orbit number. If that orbit is vacant, the system holds the call and removes it from the queue for the user. To pick up the call, a user presses the call park soft key and presses the orbit number.

Using other IVR digit sequences, users can also play a list of all the calls in orbit or hear details about a selected call in a specific orbit.

Note:

The Call Park feature is automatically available for managed phones.

Interaction Administrator configuration settings for Call Park

No Interaction Administrator configuration settings are required for Call Park.

Polycom configuration settings for Call Park

Make Call Park and Call Retrieval available by setting the enabled attribute for the call-park feature to 1 in the Feature (<feature/>) section of the xIC.cfg file.

<feature

feature.11.name="call-park" feature.11.enabled="1"

Note:

In preceding example, Call Park is feature "11". Feature numbers vary by release. See Polycom Administrator Guide SoundPoint®/SoundStation® IP SIP for more details.

Group Call Pickup

Group Call Pickup allows a user to answer an alerting call on any phone in their station group. The user does not need to know the extension number of the ringing phone, but can press the Pickup and Group soft keys.

Note:

A phone can belong to more than one station group. If calls are ringing on multiple station groups, a user picks up the *oldest* station group call from a station belonging to multiple groups.

Interaction Administrator configuration settings for Group Call Pickup

Group call pickup applies to phones (stations) in the same station group. You can use existing station groups or create new ones for group call pickup. See *Interaction Administrator Help* for details on station group configuration.

Polycom configuration settings for Group Call Pickup

Make Group Call Pickup available by setting the enabled attribute for the group-call-pickup feature to 1 in the Feature (<feature/>) section of the xIC.cfg file.

<feature

feature.12.name="group-call-pickup" feature.12.enabled="1"

Zone Page

Make Zone page allows a user to make a live, one-way broadcast to a small, selected group of phones.

A user dials a short sequence of numbers (*901 + zone number) to start a zone page. After hearing a beep, the user speaks into the handset to begin the page. The zone page recipients hear it through the speakers on their phones and do not have to pick up a handset.

Note:

The Zone Page feature is automatically available for managed phones. However, to use these extensions as zone numbers, you need to configure CIC station group extensions, workgroup extensions, user extensions, or station extensions in Interaction Administrator.

Other zone page features include:

- Zone numbers are CIC station group extensions, workgroup extensions, user extensions, or station extensions.
- A zone page cannot interrupt another zone page. If a phone is playing a page and someone attempts to page a group that includes that phone, the phone does not interrupt the first page for the second page.
- If an intended recipient is already using the phone at the start of a zone page, the zone page does not play on the speaker for that phone.

Limitations

Zone page is supported only on Polycom phones.

At sites with poor network performance, a significant delay can occur before some stations receive the page. In an environment where the listener can hear more than one phone at a time, a noticeable echo between the broadcasting phones can occur.

Zone paging causes the phones to go "off hook" before accepting the page. The more phones there are in a zone, the greater the delay before the page is broadcast. Zone paging is not intended for live paging to an entire organization. It is intended for paging to a small geographical zone in the office or to a small group.

Interaction Administrator configuration settings for Zone Page

On the **Phone** page in the **Configuration** tab of **Station Configuration**, set **Manufacturer** to **Polycom** and **Model** to the appropriate Polycom model number. This configuration makes auto answer work with zone page and dialing through the CIC client.

Setting Manufacturer to Polycom instructs CIC to include an Alert-Info field in the SIP header. The value of Alert-Info is set to http://localhost/AutoAnswer.

Call Forwarding	Emergen	cy Information	Custom Att	nbutes	History
Configuration	Licens	ng	Access Control	Station	Options
tation Extension:	7186		Active		
ddresses [Use Global SIP	Station Phone Ir	nformation Settings		
ransport	Manufacturer:	Polycom			
uthentication	Model: 19501				
eneral opearances	5225				
egion					

Because zone numbers are CIC station group extensions, workgroup extensions, user extensions, or station extensions, you do not need to create special zone numbers in order to use zone paging. For example, you can create station groups that correspond to physical locations (zones) in your office and add or delete members. See the Interaction Administrator help for details on maintaining the appropriate extensions. Be sure to specify an extension for any group that you intend to page.

Station Group Configuration - Marketin	o -		? ×
Configuration Members Custom Attribu Extension: 1002 Type G Group Ring C Sequential Retries: 1 C Round-robin	tes History Station Timeout (sec): I [™] Must Answer	15	
		Ск	Cancel

Polycom configuration settings for Zone Page

To receive a zone page, the phones must go off hook automatically. Configure this setting in the Alert Information (<alertInfo/>) section of the xIC.cfg file. The alertInfo value is a string that is compared against the Alert-Info value in the SIP message header. If there is a match, the behavior described in the ring class occurs. Ring class 3 auto-answers the incoming call.

In the xIC.cfg file, set the alertInfo value to http://localhost/AutoAnswer and its class to 3.

<voIPProt

<SIP

<alertInfo VoIpProt.SIP.alertInfo.1.value="<http://localhost/AutoAnswer>" voIpProt.SIP.alertInfo.1.class="3"
/>

***90x Dialing Options**

CIC provides SIP business features that are used by pressing *90 and a feature number on the telephone dialing pad. These features include:

*901	Page	Page a zone, station extension, station group extension, user extension, or workgroup extension. Press the complete sequence to bypass the prompt; for example, *901 1234 where 1234 is the zone number. The phone beeps to prompt you to start talking.
*902	Park a call	Park the active call in a specific orbit which places it on hold and removes it from your station. Press the complete sequence to bypass the prompt; for example, use *902_11 where 11 is the orbit number.
*903	Pick up a parked call	Pick up a parked call from any station. Press the complete sequence to bypass the prompt, for example, use *903 11 where 11 is the orbit number.
*904	List parked calls	Play a list of parked calls. Or you can press *904 <orbit number=""> to hear the orbit number, who the call is from, and how long the call has been on hold.</orbit>
*905	Pick up a group call	Answer a call ringing on any extension in your group.

However, if you press the NewCall softkey on a Polycom phone and then start dialing, the phone immediately connects the call. This connection occurs after you press * and before you can press the 9 and the rest of the string.

The phone administrator can modify the Digit Map in the Dial Plan map so that Polycom phones pause after NewCall is pressed and attempt to match any *90x string. This pause is configured in the xIC.cfg file.

To configure Polycom phones to allow users to type *90x options:

Add the following string to the dialplan.digitmap attribute in the xIC.cfg file:

|*T|*905|*90[1-4]x.T

*Т	The phone accepts * after the digitmap timeout.	
*905	The phone accepts *905 immediately.	
*90[1-4]x.T	The phone accepts *901 - *904 and an optional set of digits.	

Example:

Based on the default sip.cfg, the modified <dialplan> element would look like:

<dialplan

```
dialplan.impossibleMatchHandling="0"
dialplan.removeEndOfDial="1">
<digitmap dialplan.digitmap="[2-9]11|0T|011xxx.T|[0-1][2-9]xxxxxxxxx|[2-9]xxxxxxxx|[2-9]xxxT|*T|*905[1-4]x.T"
```

dialplan.digitmap.timeOut="3"/>

For more information, see section 4.6.1.2.1 "Digit Map <digitmap/>" in Polycom Administrator Guide.

Change Log

Date	Changes	
July 31, 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.	
March 31, 2015	Updated document to reflect the changes required for the transition from Interaction Client .NET Edition to Interaction Desktop. This includes a new CIC client section. Updated the Copyright and Trademarks page.	
June 25, 2015	Rebranding changes, new logo and font colors. Updated Copyright and Trademark Information page.	
July 28, 2015	 IC-131357 Make rebranding changes in technical references In the CIC client section: Removed all references to Interaction Client .NET Edition. (This is no longer distributed.) Removed from boilerplate: Starting with CIC 2015 R3, Interaction Desktop replaces Interaction Client .NET Edition as the primary CIC client. In IP Phone Configurator section, changed IP Phone Configuration documentation URL, FROM: It is available under Polycom Related Files on the SIP-Related Download Files page on the Interactive Intelligence Support website: https://my.inin.com/products/sip-platforms/Pages/SIP-Related-Download-Files.aspx#polycomrelatedfiles. TO: See Download the IP Phone Configurator utility under Polycom Related Files on the SIP-Related Download-Files age on the Interactive Intelligence Product & Support Information website: https://my.inin.com/products/sip-platforms/Pages/SIP-Related-Download-Files.aspx. In the Configuring the TFTP Server section, In step 2, changed OK to Log In. Updated screen capture of login dialog box. Updated screen capture of and of result. In the Configuring the TFTP Server section, Updated screen capture of Server Parameters page. In the Configuring the TFTP Server section Updated screen capture of Server Parameters page. In the Changing the TFTP Server Login Credentials section Updated screen capture of Change Login Credentials page. Verified IA screen captures are accurate in: Interaction Administrator primary station configuration Interaction Administrator scondary station configuration Call Appearances Interaction Administrator configuration settings for Zone Page 	
April 7, 2017	Removed reference to Interaction Client Web Edition. Updated copyright page.	
September 21, 2017	Rebranded to Genesys.	
March 19, 2018	Updated document to new format.	

Copyright and Trademark Information

Interactive Intelligence, Interactive Intelligence Customer Interaction Center, Interaction Administrator, Interaction Attendant, Interaction Client, Interaction Designer, Interaction Tracker, Interaction Recorder, Interaction Mobile Office, Interaction Center Platform, Interaction Monitor, Interaction Optimizer, and the "Spirograph" logo design are registered trademarks of Genesys Telecommunications Laboratories, Inc. Customer Interaction Center, EIC, Interaction Fax Viewer, Interaction Server, ION, Interaction Voicemail Player, Interactive Update, Interaction Supervisor, Interaction Migrator, and Interaction Screen Recorder are trademarks of Genesys Telecommunications Laboratories, Inc. The foregoing products are ©1997-2018 Genesys Telecommunications Laboratories, Inc. All rights reserved.

Interaction Dialer and Interaction Scripter are registered trademarks of Genesys Telecommunications Laboratories, Inc. The foregoing products are ©2000-2018 Genesys Telecommunications Laboratories, Inc. All rights reserved.

Messaging Interaction Center and MIC are trademarks of Genesys Telecommunications Laboratories, Inc. The foregoing products are ©2001-2018 Genesys Telecommunications Laboratories, Inc. All rights reserved.

Interaction Director is a registered trademark of Genesys Telecommunications Laboratories, Inc. *e-FAQ Knowledge Manager* and Interaction Marquee are trademarks of Genesys Telecommunications Laboratories, Inc. The foregoing products are ©2002-2018 Genesys Telecommunications Laboratories, Inc. All rights reserved.

Interaction Conference is a trademark of Genesys Telecommunications Laboratories, Inc. The foregoing products are ©2004-2018 Genesys Telecommunications Laboratories, Inc. All rights reserved.

Interaction SIP Proxy and Interaction EasyScripter are trademarks of Genesys Telecommunications Laboratories, Inc. The foregoing products are ©2005-2018 Genesys Telecommunications Laboratories, Inc. All rights reserved.

Interaction Gateway is a registered trademark of Genesys Telecommunications Laboratories, Inc. Interaction Media Server is a trademark of Genesys Telecommunications Laboratories, Inc. The foregoing products are ©2006-2018 Genesys Telecommunications Laboratories, Inc. All rights reserved.

Interaction Desktop is a trademark of Genesys Telecommunications Laboratories, Inc. The foregoing products are ©2007-2018 Genesys Telecommunications Laboratories, Inc. All rights reserved.

Interaction Process Automation, Deliberately Innovative, Interaction Feedback, and Interaction SIP Station are registered trademarks of Genesys Telecommunications Laboratories, Inc. The foregoing products are ©2009-2018 Genesys Telecommunications Laboratories, Inc. All rights reserved.

Interaction Analyzer is a registered trademark of Genesys Telecommunications Laboratories, Inc. Interaction Web Portal and IPA are trademarks of Genesys Telecommunications Laboratories, Inc. The foregoing products are ©2010-2018 Genesys Telecommunications Laboratories, Inc. All rights reserved.

Spotability is a trademark of Genesys Telecommunications Laboratories, Inc. ©2011-2018. All rights reserved.

Interaction Edge, CaaS Quick Spin, Interactive Intelligence Marketplace, Interaction SIP Bridge, and Interaction Mobilizer are registered trademarks of Genesys Telecommunications Laboratories, Inc. Interactive Intelligence Communications as a ServiceSM and Interactive Intelligence CaaSSM are trademarks or service marks of Genesys Telecommunications Laboratories, Inc. The foregoing products are ©2012-2018 Genesys Telecommunications Laboratories, Inc. All rights reserved.

Interaction Speech Recognition and Interaction Quality Manager are registered trademarks of Genesys Telecommunications Laboratories, Inc. Bay Bridge Decisions and Interaction Script Builder are trademarks of Genesys Telecommunications Laboratories, Inc. The foregoing products are ©2013-2018 Genesys Telecommunications Laboratories, Inc. All rights reserved.

Interaction Collector is a registered trademark of Genesys Telecommunications Laboratories, Inc. Interaction Decisions is a trademark of Genesys Telecommunications Laboratories, Inc. The foregoing products are ©2013-2018 Genesys Telecommunications Laboratories, Inc. All rights reserved.

Interactive Intelligence Bridge Server and Interaction Connect are trademarks of Genesys Telecommunications Laboratories, Inc. The foregoing products are ©2014-2018 Genesys Telecommunications Laboratories, Inc. All rights reserved.

The veryPDF product is ©2000-2018 veryPDF, Inc. All rights reserved.

This product includes software licensed under the Common Development and Distribution License (6/24/2009). We hereby agree to indemnify the Initial Developer and every Contributor of the software licensed under the Common Development and Distribution License (6/24/2009) for any liability incurred by the Initial Developer or such Contributor as a result of any such terms we offer. The source code for the included software may be found at http://wpflocalization.codeplex.com.

A database is incorporated in this software which is derived from a database licensed from Hexasoft Development Sdn. Bhd. ("HDSB"). All software and technologies used by HDSB are the properties of HDSB or its software suppliers and are protected by Malaysian and international copyright laws. No warranty is provided that the Databases are free of defects, or fit for a particular purpose. HDSB shall not be liable for any damages suffered by the Licensee or any third party resulting from use of the Databases.

Other brand and/or product names referenced in this document are the trademarks or registered trademarks of their respective companies.

DISCLAIMER

GENESYS TELECOMMUNICATIONS LABORATORIES (GENESYS) HAS NO RESPONSIBILITY UNDER WARRANTY, INDEMNIFICATION OR OTHERWISE, FOR MODIFICATION OR CUSTOMIZATION OF ANY GENESYS SOFTWARE BY GENESYS, CUSTOMER OR ANY THIRD PARTY EVEN IF SUCH CUSTOMIZATION AND/OR MODIFICATION IS DONE USING GENESYS TOOLS, TRAINING OR METHODS DOCUMENTED BY GENESYS.

Genesys Telecommunications Laboratories, Inc. 2001 Junipero Serra Boulevard Daly City, CA 94014 Telephone/Fax (844) 274-5992 www.genesys.com