

Performance Management Advisors 8.0

Advisors Platform

Deployment Guide

The information contained herein is proprietary and confidential and cannot be disclosed or duplicated without the prior written consent of Genesys Telecommunications Laboratories, Inc.

Copyright © 2003–2010 Genesys Telecommunications Laboratories, Inc. All rights reserved.

About Genesys

Alcatel-Lucent's Genesys solutions feature leading software that manages customer interactions over phone, Web, and mobile devices. The Genesys software suite handles customer conversations across multiple channels and resources—self-service, assisted-service, and proactive outreach—fulfilling customer requests and optimizing customer care goals while efficiently using resources. Genesys software directs more than 100 million customer interactions every day for 4000 companies and government agencies in 80 countries. These companies and agencies leverage their entire organization, from the contact center to the back office, while dynamically engaging their customers. Go to www.genesyslab.com for more information.

Each product has its own documentation for online viewing at the Genesys Technical Support website or on the Documentation Library DVD, which is available from Genesys upon request. For more information, contact your sales representative.

Notice

Although reasonable effort is made to ensure that the information in this document is complete and accurate at the time of release, Genesys Telecommunications Laboratories, Inc., cannot assume responsibility for any existing errors. Changes and/or corrections to the information contained in this document may be incorporated in future versions.

Your Responsibility for Your System's Security

You are responsible for the security of your system. Product administration to prevent unauthorized use is your responsibility. Your system administrator should read all documents provided with this product to fully understand the features available that reduce your risk of incurring charges for unlicensed use of Genesys products.

Trademarks

Genesys, the Genesys logo, and T-Server are registered trademarks of Genesys Telecommunications Laboratories, Inc. All other trademarks and trade names referred to in this document are the property of other companies. The Crystal monospace font is used by permission of Software Renovation Corporation, www.SoftwareRenovation.com.

Technical Support from VARs

If you have purchased support from a value-added reseller (VAR), please contact the VAR for technical support.

Technical Support from Genesys

If you have purchased support directly from Genesys, please contact Genesys Technical Support at the regional numbers provided on page 9. For complete contact information and procedures, refer to the *Genesys Technical Support Guide*.

Ordering and Licensing Information

Complete information on ordering and licensing Genesys products can be found in the Genesys Licensing Guide.

Released by

Genesys Telecommunications Laboratories, Inc. www.genesyslab.com

Document Version: 80pma_dep_platform_11-2010_v8.0.001.02



Table of Contents

List of Procedures		5
Preface		7
	About Advisors Platform	7
	Installation Process	8
	Intended Audience	8
	Making Comments on This Document	9
	Contacting Genesys Technical Support	9
	Document History	
	New in Document Version 8.0.001.02	10
Chapter 1	Creating the Databases	11
	Creating the Advisor Platform Database	
	Assigning Additional User Permissions	23
Chapter 2	Advisor Platform Deployment	25
	Installation Notes	
	Custom Logo	
	Installing Platform	
	Installing Platform	
	Automated Installation Options	
	Specifying Input Properties	
	Performing a Semi-Silent Installation	
	Performing a Silent Installation	
	Troubleshooting Installation Errors	37
Chapter 3	Installing Geronimo Server	39
	Installing Geronimo as a Windows Service	
Chapter 4	Other Considerations	41
-	Changing Memory Allocations	41

	Installing Services under Windows 2008 Server	42
	Configuring Access to External Websites	42
	Changing the Mail Server Configuration After Server Installation	43
	Adding a Text Message on the Login Page	43
	Customizing the Logo and Colors in the Advisors Browser	
	Customizing the Colors for Alert Management	44
	Installing and Configuring Apache	45
	Latency Getting to the Login page	48
	Encrypting LDAP Passwords	48
Supplements	Related Documentation Resources	49
	Document Conventions	52
Index		55
IIIMOA		00



List of Procedures

Creating the Advisor Platform database
Creating a login to be used by the Advisors Platform
Creating linked servers for the Advisors Platform database 18
Creating objects in the database 22
Uninstalling Windows services
Installing Platform
Installing Geronimo as a Windows service
Removing the Geronimo server as an NT service
Changing the Mail Server configuration after Platform server
is installed
Customizing the logo
Installing and configuring Apache 45

List of Procedures



Preface

Welcome to the Genesys *Performance Management Advisors 8.0 Advisors Platform Deployment Guide.* This document describes how to deploy the core Advisors Platform.

This document is valid only for 8.0.x releases of this product.

Note: For versions of this document created for other releases of this product, visit the Genesys Technical Support website, or request the Documentation Library DVD, which you can order by e-mail from Genesys Order Management at <u>orderman@genesyslab.com</u>.

This preface contains the following sections:

- About Advisors Platform, page 7
- Installation Process, page 8
- Intended Audience, page 8
- Making Comments on This Document, page 9
- Contacting Genesys Technical Support, page 9
- Document History, page 10

For information about related resources and about the conventions that are used in this document, see the supplementary material starting on page 49.

About Advisors Platform

Each Web-based application (such as Dashboards, System Administration Module, and Workforce Web Service) requires the installation of the Advisors Platform. The Advisors Platform installer installs the following base services:

- Geronimo
- Base Web
- Navigation Service
- Mail-Delivery Service
- Security Realm (optionally, LDAP)
- The data source

Cluster Manager

In release 8.0, the Platform JMS URL configuration is renamed Cluster Node configuration.

Installation Process

The installation process for Advisors Platform is as follows:

- 1. Install Java 6 SDK (JDK 1.6 update 22).
- 2. Install MS SQL Server 2005 with mixed authentication mode. Obtain the latest service pack for SQL Server 2005 from Microsoft and apply it.
- **3.** Install Flash player version 10.x in any non-IE browser environment, such as Firefox.
- 4. Create the Platform database. See "Creating the Advisor Platform Database" on page 11.
- 5. Unzip platform-distribution-<version>.zip into a temporary directory. The build artifacts detailed earlier should be present.
- 6. Install the Platform service, including Geronimo. See "Installing Platform" on page 26 and Chapter 3, "Installing Geronimo Server," on page 39
- 7. Optionally, install the Genesys Adapter or Cisco Adapter database and core service. See the relevant Genesys or Cisco Adapter *Deployment Guide* for details of how to do this.
- 8. Optionally install Contact Center Advisor, Workforce Advisor and XML Generator. Refer to the *Performance Management Advisors 8.0 Contact Center Advisor/Workforce Advisor Deployment Guide* for full details.
- **9.** Optionally, complete the Genesys Adapter or Cisco Adapter installation. See the relevant Genesys or Cisco Adapter Deployment Guide for details of how to do this.

Intended Audience

This document is primarily intended for system implementers and system administrators. It has been written with the assumption that you have a basic understanding of:

- Computer-telephony integration (CTI) concepts, processes, terminology, and applications.
- Network design and operation.
- Your own network configurations.

Making Comments on This Document

If you especially like or dislike anything about this document, feel free to e-mail your comments to <u>Techpubs.webadmin@genesyslab.com</u>.

You can comment on what you regard as specific errors or omissions, and on the accuracy, organization, subject matter, or completeness of this document. Please limit your comments to the scope of this document only and to the way in which the information is presented. Contact your Genesys Account Representative or Genesys Technical Support if you have suggestions about the product itself.

When you send us comments, you grant Genesys a nonexclusive right to use or distribute your comments in any way it believes appropriate, without incurring any obligation to you.

Contacting Genesys Technical Support

Region	Telephone	E-Mail
North and Latin America	+888-369-5555 (toll-free) +506-674-6767	support@genesyslab.com
Europe, Middle East, and Africa	+44-(0)-1276-45-7002	support@genesyslab.co.uk
Asia Pacific	+61-7-3368-6868	support@genesyslab.com.au
Malaysia	1-800-814-472 (toll-free) +61-7-3368-6868	support@genesyslab.com.au
India	000-800-100-7136 (toll-free) +91-(022)-3918-0537	support@genesyslab.com.au
Japan	+81-3-6361-8950	<u>support@genesyslab.co.jp</u>
Before contacting technical su	apport, refer to the <i>Genesys Technical</i>	Support Guide for complete contact

If you have purchased support directly from Genesys, contact Genesys Technical Support at the following regional numbers:

Before contacting technical support, refer to the *Genesys Technical Support Guide* for complete contact information and procedures.

Document History

New in Document Version 8.0.001.02

- The install procedure for LDAP has been modified. See page 33.
- Minor textual and screenshot corrections have been made in this release of this document.
- Configuration notes for Apache have been updated to include additional lines for all installable Advisors modules. See "Installing and Configuring Apache" on page 45.



Chapter

1

Creating the Databases

This chapter describes how to create the Advisor Platform database. It contains the following section:

• Creating the Advisor Platform Database, page 11

Creating the Advisor Platform Database

Procedure: Creating the Advisor Platform database

Note: If due to security restrictions administrator or security administrator access cannot be granted, the local DBA should implement the steps described in this section.

Start of procedure

- 1. Connect to the SQL Server 2005 instance using Microsoft SQL Server Management Studio with the LoginID assigned to the SQL Server sysadmin server role. It can be sa or any other login assigned to the sysadmin server role and created for you for temporary use during the deployment.
- 2. In the object explorer right-click on Databases and choose New Database. Open the General screen (Figure 1 on page 12).

Posta - P	1.56				
Script -	нер				
Database name:		advisors platforn	idb		
<u>U</u> wner.		Cuerauit/			[
Use full-text in	idexing				
Databasa Gau					
	File Type	Filegroup	Initial Size (MB)	Autogrowth	Path
advisors_plat	Data	PRIMARY	50	By 10 percent, unrestricted growth	C:\Progra
advisors_plat	Log	Not Applicable	150	By 5 MB, unrestricted growth	C:\Progra
<					
		10		∆dd	Bemove
	Database <u>n</u> ame: <u>Q</u> wner: <u>Use full-text in</u> Database files: Logical Name	Qwner: Use full-text indexing Database files: Logical Name File Type advisors_plat Data	Database game: advisore_platform Qwner: <default> Database file: Logical Name File Type Filegroup advisore_plat Data PRIMARY</default>	Database game: advisors_platformdb Qviner: Use full-text indexing Database file: Logical Name File Type Filegroup Initial Size (MB) advisor_plat Data PRIMARY 50	Database game: advisors_platformdb Qwner: Lige full-text indexing Database files: Logical Name File Type Filegroup Initial Size (MB) Autogrowth advisor_ptal Data PFIINAFRY 50 By 10 percent, unrestricted growth

Figure 1: Database Properties—General

- a. Specify the database name—advisors_platformdb.
- **b.** Leave the owner as $\langle default \rangle$.
- c. Specify 50 Mb as the initial data file size with Autogrowth set to By 10%, unrestricted file growth.
- **d.** Specify 150 Mb as the initial log file size with Autogrowth set to By 5MB, unrestricted file growth.
- e. Change the pathnames to the data and log files if necessary.
- 3. Open the Options screen. See Figure 2 on page 13.

elect a page 🚰 General	🔄 Script 🝷 🚺 Help	5		
Poptions Filegroups	Collation:	SQL_Latin1_General_(CP1_CI_AS	
	Recovery model:	Simple		
		and a second		
	Compatibility Jevel:	SQL Server 2005 (90)		
	Other options:			
	21			
	Automatic			
	Auto Close		False	
	Auto Create Statis Auto Shrink	stics	True False	
	Auto Shrink Auto Update Stati		False True	
		istics istics Asynchronously	False	
	E Cursor	Islics Asynchronously	raise	
	Close Cursor on C	ommit En ablad	False	
	Default Cursor		GLOBAL	
			deoptie	
	ANSI NULL Defa	ult	False	
onnection	ANSI NULLS Ena	abled	False	
Server:	ANSI Padding En	abled	False	
nf-dolphin	ANSI Warnings E		False	
Connection	Arithmetic Abort E		False	
a	Concatenate Null		False	
View connection properties	Cross-database Ownership Chaining Enabled		False	
View connection properties	Date Correlation Optimization Enabled		False	
	Numeric Round-Abort		False	
rogress	ANSI NULL Defa	ult		
Ready	ANJI NULL DEIA	UK		

Figure 2: Database Properties, Options

- a. In the Collation field, select SQL_Latin1_General_CP1_CI_AS.
- **b.** In the Recovery model field, select Simple.
- c. Set Auto Create Statistics and Auto Update Statistics to the value true.
- **4.** Click OK.
- 5. If you want to use a separate schema as a container for the database objects related to the Advisors applications, implement steps 6 and 7. Otherwise proceed to "Creating a login to be used by the Advisors Platform" on page 14.
- 6. In the Object Explorer, expand Databases, advisors_platformdb, Security, and Schemas.



Figure 3: Database Security—Schemas

- Right-click on Schemas, choose New Schema, then specify the schema name. You can choose any schema name that corresponds to your company and SQL Server naming conventions; for example, callcenter01.
- 8. Click OK. The database is created and properties are configured.

End of procedure

Procedure: Creating a login to be used by the Advisors Platform

Note: If due to security restrictions administrator or security administrator access cannot be granted, have the customer's DBA implement the steps described in this section.

Start of procedure

1. In the Microsoft SQL Server Management Studio object explorer, select Server and then Security.

	Image: Second state Object Explorer Details Image: Second state Image: Se	
Security Reports Refresh SMSFTEUser\$INF- SMSSQLUSer\$INF- SMSSQLUSER\$INF- SMSSQLUSER\$I	INE-DOLPHIN/Security/Logins Name BUILTIN/Administrators Calcenter01 Groups INE-DOLPHIN/SQLServer2005MSF INE-DOLPHIN/SQLServer2005MSS NINE-DOLPHIN/SQLServer2005SQL NAUTHORITY/SYSTEM Sa Advisor	6/26/2009

Figure 4: Server-Level Security

- 2. Right-click Logins and choose New Login.
 - a. Specify the login name (in this example, callcenter01).
 - **b.** Click SQL Server Authentication.
 - **c.** Specify a password that complies with the organization's security policy.
 - **d.** If strong passwords are part of the security policy, check the Enforce password policy check box.
- 3. Open the Login Properties User Mapping screen (Figure 4).

	C Covint	* 🖪 Hala				
🚰 General	🖳 Script 🔻 🎼 Help					
Server Roles						
Tuser Mapping Securables	Users mapped to this login:					
Status	Map	Database	User	Default Schema	1	
		8.0_config				
		8.0_LogDB				
		80_gcdb				
	Image: A state of the state	advisors_ccadb_ERIE	callcenter01	callcenter01		
		advisors_genadptdb_E				
	Image: A start of the start	advisors_mgdb_ERIE_IT	callcenter01	dbo		
	v	advisors_platformdb	callcenter01	1		
	 Image: A start of the start of	AW_FedEx_30min_sim	callcenter01	dbo		
	 Image: A start of the start of	AW_Replica	callcenter01	callcenter01		
		AW_Replica_31	callcenter01	callcenter01		
Server: inf-dolphin	db_a db_b db_d db_d	e <u>role membership for: advisor</u> ccessadmin ackupoperator atareader atawriter	s_platformdb			
Server: inf-dolphin Connection:	db_a db_b db_d db_d db_d db_d	ccessadmin ackupoperator atareader atawriter dladmin	s_platformdb			
Server: inf-dolphin Connection: sa <u>View connection properties</u>	db_a db_b db_d db_d db_d db_d db_d db_d	ccessadmin ackupoperator atareader atawriter dladmin enydatareader enydatawriter writer	s_platformdb			
Server: inf-dolphin Connection: sa <u>View connection properties</u>	db_a db_b db_d db_d db_d db_d db_d db_d	ccessadmin ackupoperator atareader atawriter Idadmin enydatareader enydatawriter wore ecultyadmin	s_platformdb			
Connection Server inf-dolphin Connection: a View connection propettes Yrogress Ready	db_a db_b db_d db_d db_d db_d db_d db_d	ccessadmin ackupoperator atareader atawriter Idadmin enydatareader enydatawriter wore ecultyadmin	s_platformdb			

Figure 5: Login Properties—User Mapping 1

- a. Map the user (callcenter01 in this example) to the newly created database (advisors_platformdb in this example) by checking the appropriate check box.
- **b.** Choose dbo as a default schema if you skipped steps 5 and 6 in the procedure "Creating the Advisor Platform database" on page 11. Otherwise select the name of the created schema.

	6 1 1 1 1 1 1 1 1 1 1 1 1		
4 objects	were found matching the types you selected.		
Matching	objects:		
	Name	Туре	-
Image: Section 1.	[callcenter01]	Schema	
- B	[db_accessadmin]	Schema	
🗖 🚮	[db_backupoperator]	Schema	-
	[db_datareader]	Schema	
Image: 1	[db_datawriter]	Schema	
A A A A A A A A A A A A A A A A A	[db_ddladmin]	Schema	
	[db_donudataroador]	Cohoma	~

Figure 6: Browse for Objects

c. Click OK, then confirm your selection by highlighting it and clicking OK again in the Select Schema dialog. This returns you to the User Mapping screen.

🖥 Login Properties - callcer	nter01						
Select a page	C Script	🕶 [🔓 Help					
General							
🚰 Server Roles 🚰 User Mapping	Lleare ma	pped to this login:					
	Map Database User Default Schema						
🚰 Status		8.0_config		D of date of official			
		8.0_LogDB					
		80_gcdb					
		advisors ccadb ERIE	callcenter01	callcenter01			
		advisors_genadptdb_E					
		advisors_mgdb_ERIE_IT	callcenter01	dbo			
		advisors_platformdb	callcenter01	callcenter01			
		AW_FedEx_30min_sim	callcenter01	dbo			
		AW_Replica	callcenter01	callcenter01			
		AW_Replica_31	callcenter01	callcenter01	💌		
Connection	Database	account enabled for: advisor					
Server:		ccessadmin ackupoperator					
inf-dolphin	🔽 db_da	atareader					
Connection:	✓ db_da	atawriter					
sa		envdatareader					
View connection properties		enydatawriter					
	db_ov						
Progress	D_se	ecurityadmin					
Ready	(pable						
				ОК	Cancel		

Figure 7: Login Properties—User Mapping 2

- **d.** Add the user to the db_owner database role (Figure 7) or to all three of the following roles: db_datareader, db_datawriter, and db_ddladmin.
- **Note:** If you choose db_datareader, db_datawriter, db_ddladmin option, ensure that after you create all of the database objects, you then complete the step described in "Assigning Additional User Permissions" on page 23.

The login to be used by Advisors Platform is created and configured.

End of procedure

Procedure: Creating linked servers for the Advisors Platform database

Note: If, due to security restrictions, administrator or security administrator access cannot be granted, the local DBA should implement the steps described in this section.

Prerequisites

Before you start the procedure, identify the data sources that must be accessed. If the customer uses a Cisco environment, then an ICM DBA must create a login and password for this application in all ICM databases that must be accessed. Each Genesys Adapter metrics database must be accessible by the user defined in the Advisors Platform database.

Start of procedure

1. In the Microsoft SQL Server Management Studio object explorer, click Server Objects.



Figure 8: Server Objects

2. Right-click on Linked Servers and choose New Linked Server...The New Linked Servers screen displays (Figure 9 on page 19).

Gelect a page M General	🔊 Script 👻 🎼 Help					
Security Server Options	Ligked server:	ICMCENTRAL				
	Server type:					
	SQL Server					
	🔘 Ot <u>h</u> er data source					
	<u>P</u> rovider:	Microsoft QLE DB Provider for SQL Server				
	Product name:					
	Data source:					
	Provider string:					
	Location					
	Catalog					
Connection						
Server: PC06						
Connection:						
sa View connection properties						
All						
Progress	Server Type is either SQL S selected then the Linked Se	erver or an OLE DB provider installed on the server. If SQL S erver name is also the network name of the server.	erver is			
Ready						
		ОК	Cancel			

Figure 9: New Linked Server Screen

- 3. For the Server type, select SQL Server.
- 4. Specify the name of the external SQL database server to be accessed. Click OK. The New Linked Server—Security Screen displays.

Mew Linked Server				
Select a page General Security	🔄 Script 🝷 📑 Help)		
Server Options	Local server login to	remote server login map	pings:	
	Local Login	Impersonate	Remote User	Remote Password
				Add Remove
Connection	For a login not define	ed in the list above, conr	ections will:	
Server: PC06	, or a regeriner down			
Connection:	O Not be made			
sa	Be made without a second se	ut using a security co <u>n</u> te	xt	
View connection properties	🔘 Be made using	the login's current <u>s</u> ecuri	ity context	
	Be made using	this security context:		
Progress	<u>R</u> emote login:		informiam	
Ready	With password		ниникки	
			(OK Cancel

Figure 10: New Linked Server—Security Screen

- 5. On the Security screen:
 - a. Select Be made using this security context.
 - **b.** Specify the remote login and password created by the external administrator for access to the external awdb (in this example, advisors/<password>) from Advisors Platform.

Select a page	Pois Put		
🚰 General	<u> S</u> cript 🝷 🚺 Help		
Security			
🚰 Server Options	Collation Compatible	False	
	Data Access	True	
	Rpc	False	
	Rpc Out	False	
	Use Remote Collation	True	
	Collation Name		
	Connection Timeout	0	
	Query Timeout	0	
Connection			
onnection Server: FC06			
Server: PC06 Connection:			
Server: PC06			
Server: PC06 Connection:			
Server: 2006 Connection: 30 View connection properties			
Server: PC06 Connection: sa			

Figure 11: New Linked Server—Server Options

- 6. On the Server Options screen:
 - a. Check the Data Access check box and User Remote Collation check box.
 - b. Click OK.
- 7. To test the linked server connectivity run some SQL statements from the Microsoft SQL Server Management Studio.

El Connect to Server		X
SQL Serve	Windows Server S 1 .2005	iystem
Server <u>type:</u>	Database Engine	*
<u>S</u> erver name:	PC06	~
Authentication:	SQL Server Authentication	*
Login:	callcenter01	~
Password:	***********	
Connect	Remember password Cancel Help Options	>>)

Figure 12: Connecting to Database Engine

- **8.** Enter the correct connection details and click Connect. The New Query screen displays (Figure 10 on page 19).
- 9. Click New Query
- **10.** Type a query using the following notation:
 - Select <...> from <Linked Server Name>.<Remote Database Name>.<Remote Database Owner>.<Remote Table Name>

Or:

 Select <...> from openquery(<Linked Server Name>, 'select <...> from >.<Remote Database Name>.<Remote Database Owner>.<Remote Table Name> [with (<Locking hint>)]

Example-Cisco

Select * from ICM_AWDB1.company_awdb.dbo.Controller_Time Or:

Select * from OpenQuery([ICM_AWDB1], 'select * from

company_awdb.dbo.Controller_Time

(nolock)')



Figure 13: Microsoft SQL Management Studio—New Query

11. For each external data source, repeat this procedure.

End of procedure

Procedure: Creating objects in the database

Prerequisites

This step must be run either with the system administrator account or with a user having db_owner permissions to the database. In addition, the user must have the same default schema as that assigned to the Advisors user (created in the "Creating a login to be used by the Advisors Platform" section).

The db_owner can be given temporarily to the Advisors user for the purpose of running these steps.

Start of procedure

- 1. From Microsoft SQL Server Management Studio click File. Connect to the database engine as a user meeting the criteria above.
- 2. Make sure that you choose the Advisors Platform database from the list of available databases (in this example, advisors_platformdb).

- 3. From the ../sql_files folder in the distribution folder, run the SQL script platform-new-database-<version>.sql against the newly created database (advisors_platformdb in this example). This script creates the database user objects and populates some tables with default configuration data.
- 4. Scroll down the query results tab and check for errors. Ignore warnings. The objects are created.

End of procedure

Assigning Additional User Permissions

Assigning additional user permissions is necessary if the created database user is assigned to db_datareader, db_datawriter and ddl_admin roles but is not assigned to the db_owner role.

The user assigned to db_datareader, db_datawriter and ddl_admin roles must be granted execute permissions only, on all user stored procedures that exist in the database after the objects are created.

You can use the SQL Server interface to assign the permissions or create a grant permissions script and execute it against the newly created database. The following statement when executed against the newly created database will produce a set of grant permission statements.

To run the script press CTRL/T, then CTRL/E.

Copy the result from the result pane. That is, click on the Result pane, then click CTRL/A then CTRL/C. Paste the content (CTRL/V) into the query pane and execute the following:

```
select 'grant execute on
['+ routine_catalog+'].['+routine_schema+'].['+routine_name+'] to
<database user>' from INFORMATION_SCHEMA.ROUTINES where
ROUTINE_TYPE='PROCEDURE'
```

Note: Before executing the script, please change <database user > to the ID for your database user.



Chapter



Advisor Platform Deployment

This chapter describes how to install and configure the Advisors Platform. It contains the following section:

- Installation Notes, page 25
- Installing Platform, page 26
- Automated Installation Options, page 34
- Troubleshooting Installation Errors, page 37

Installation Notes

- For each physical server on which you install a Web application (Contact Center Advisor, Workforce Advisor, and so on) or the XMLGen Application, you must install an instance of Platform.
- You must provide a unique node ID for each Platform installation. Additional details are included in the installation steps.
- Alert e-mail templates are located in the <install dir>\conf\templates.

The installation process has several distinct sections, in order to accommodate different stages of system preparation. If some or all of the infrastructure software systems are already installed, various steps can be bypassed. It is important to get specific information about the location of these components from the original installer or the package manager.

A single zip file, platform-distribution-<version>.zip, contains the following distribution artifacts:

- platform-installer-<version>.jar—The installer for the Platform. See "LDAP-Related Notes" on page 26.
- baseweb-<version>-static-web.zip—A copy of the static files that can be served by Apache.

- platform-new-database-<version>.sql—The creation and migration script for the Platform database.
- installer-support-<version>-jar-with-dependencies.jar—The utility tools used for changing LDAP passwords.

LDAP-Related Notes 1. Administrators must manually delete users from the Advisors administration component if they are deleted from LDAP. This prevents the scenario where a subsequent creation of an LDAP user with the same name would be granted the same permissions as the old Advisors' user.

- **2.** For a new Platform database, the default administrator user must be updated to enable login. Once the Platform database has been created, the following manual steps are required:
 - **a.** Using SQL Server Management Studio, open the USERS table in the new Platform database. A single row for the admin user displays.
 - **b.** Update the USERNAME field for this row to match that of an administrator in the Active Directory.
 - c. Ensure that the ROLE_ID field for this row is set to 1.
- 3. The installer that runs last on a specific database overwrites the configuration changes of the prior ones. If the database is configured and the installer must be re-run, ensure that the LDAP settings are the same. All nodes in the cluster must be configured properly (that is, do not skip LDAP for non-authenticating nodes).

Custom Logo

Your custom logo must be in .png format, and can have maximum dimensions of 210 x 52 pixels.

Installing Platform

The installer will not upgrade an existing installation. The old installation must be completely removed by deleting its installation directory.

If you plan to do this, uninstall the Windows services for the Contact Center Advisor, XMLGen Application and the Genesys Advisors Server before you delete the installation directory. You must do this if you are going to re-install Genesys Advisors in a different directory from the one in which it is currently installed. This is because uninstalling the Windows services requires files that are in the installation directories you are going to delete. Once you delete them you cannot uninstall the Windows services.

Procedure: Uninstalling Windows services

Start of procedure

- 1. Stop the Windows services for Advisor's components.
- 2. Close the Services window.
- 3. Open a command prompt window.
- 4. Change directory to the one in which you installed Genesys Advisors, and then change it into bin\windows-x86-32.
- 5. Run the command: UninstallAdvisorsServer.bat.
- 6. Change the directory to the one in which XMLGen is installed.
- 7. Run the command uninstallXmlgen.
- **8.** Change the directory to the one in which the Genesys Adapter is installed, then change it into bin.
- 9. Run the command Uninstall-Adapter-NT.bat.

End of procedure

Installing Platform

If the Advisors Browser is installed in the installation directory, uninstall it before deleting the directory. Then reinstall the Advisors Browser again after you have installed Genesys Advisor's modules.

Each web-based application (such as Dashboards, System Administration module, Workforce Web Service and the XMLGen application) requires the installation of the Advisors Platform. The Platform installer installs the base services:

- Geronimo
- Base web
- Navigation service
- Mail-Delivery service
- Security Realm (optionally, LDAP)
- The data source
- Cluster Manager

Note: The Platform JMS URL configuration is named Cluster Node configuration.

Procedure: Installing Platform

Start of procedure

1. Launch the Platform installer: platform-installer-<version>.jar. The Installer screen displays.

🍯 Installer Wiz	ard	
Installer fo	r Genesys Advisor Platfor	m.
		and the second
	🗶 Cancel 🛛 🖛 Back 💽	Next 🗢 Install

Figure 14: Installer Screen

2. Click Next. The Module to Install screen displays (see Figure 15 on page 29).



Figure 15: Module to Install Screen

3. Check the Administration workbench checkbox and click Next. The Destination Directory screen displays.



Figure 16: Destination Directory Screen

4. Select the destination directory in which the files will be installed and click Next. The Java Development Kit screen displays (Figure 17 on page 30).



Figure 17: Java Development Kit Screen

5. Enter or select the JDK folder location for the Java Development Kit and click Next.The Cluster Node Configuration screen displays (Figure 18).

Cluster Node configu	uration	
Enter a unique string that can be	used to identify this node as part of its cluster	
Enter this installation's Node ID		
Node ID (max 16)	easnode1	
Enter the IP address that other m	ember's of the cluster can use to contact this node.	
Enter this installation's IP address	3	
IP Address (max 32)	192.168.98.242	
Enter the address used to identif	y localhost (i.e. 127.0.0.1 or 'localhost')	
Enter the localhost address for t	his machine	

Figure 18: Cluster Node Configuration Screen

- **6.** Each server that installs Platform requires a unique cluster node. Configure the node with the following information:
 - Node ID—A unique ID across all Platform installations. Must not contain spaces or any special characters, must be only alpha numeric. For example; node1; node2.

- IP Address—The address that will be used to contact this node, not localhost nor 127.0.0.1, for example, 192.168.100.1.
- Localhost address—The local host address, localhost or 127.0.0.1.

Click Next. The Genesys Advisor Platform Database screen is displayed.

🛑 Installer Wizard	
Genesys Advisor Platfe	orm Database
Host name, IP address, or named in database.	stance of the database server for the Platform
Database server:	inf-dolphin
	server is listening on. If database server is a named (1433 is the default port number for MS SQL Server.)
Database port number:	1433
Database name:	advisors_platformdb
Database user:	calicenter01
Database user password:	•••••
Confirm database password	•••••
X Cancel	Sack Next ristall

Figure 19: Genesys Advisor Database Screen

7. Enter the database connectivity parameters for the already created or upgraded database (that is, the database must be present and at the current version prior to running the installer). These parameters are server (machine), port number, name, user, and password.

If the database server is a named instance, then omit the port number. Click Next. The Mail Service Configuration screen is displayed (Figure 20 on page 32).

Mail Service Config	uration
SMTP service to be used for no SMTP server:	vification messages sent from the mail service:
	send application notification E-Mails.
Application from address:	DO-NOT-REPLY@genesyslab.com
Default address to which to se	nd application notification E-Mails.
Application to address:	

Figure 20: Mail Service Configuration Screen

- **8.** Enter the SMTP and e-mail parameters.
- 9. Click Next. The Security Realm Configuration screen displays.

🛑 Installer Wizard		<u>- ×</u>
Security Realm Config	guration	
Enable LDAP authentication.		
When LDAP-authenticated users	are first discovered, a new user will be created.	
A notification E-Mail will be sent w	ith a description of the newly created user.	
Address from which to send the I	ogin notification E-Mail.	
From address:	DO-NOT-REPLY@genesyslab.com	
Address to which to send the logi	n notification E-Mail.	
To address:		
🗶 Cancel	Sack Next Constall	

Figure 21: Security Realm Configuration Screen

- **10.** Check the Enable LDAP Authentication checkbox if LDAP authentication is required, and enter the LDAP e-mail parameters.
- **Note:** If LDAP is enabled for any Advisors Platform installation (not just the current one), please see "LDAP-Related Notes" on page 26.
- 11. Click Next.
- **12.** Enter the first set of LDAP authentication parameters on the first LDAP Authentication screen displayed.

Installer Wizard		_ 🗆 🗙
	S'	
LDAP Authenticat	ion	
Enter the host address and	port for the LDAP server.	
LDAP Host:	192.168.100.124	
LDAP Port:	389	
Enter the username and pas	sword used for authentication	
with the LDAP server.		
Username:	padl	
Password:	•••••	
Confirm password	•••••	
× (Cancel 🗢 Back 🔿 Next 💌 install	
		2

Figure 22: LDAP Authentication Screen 1

- **13.** To authenticate LDAP:
 - **a.** Enter the LDAP host.
 - **b.** Enter the LDAP port.
 - c. Enter the user name for the LDAP server authentication.
 - d. Enter the password for the LDAP server authentication.
 - e. Confirm the password, and click Next.
- 14. The LDAP Authentication-continued screen displays.

	- continued
Enter the connection protocol (i.	
LDAP Authentication Type	Simple None
User base DN:	CN=Users,DC=test,DC=ad01
User match:	name={0}
Match user subtree?	
Match user subtree?	

Figure 23: LDAP Authentication-continued Screen

- **15.** Complete the LDAP authentication details:
 - **a.** Enter the LDAP connection protocol.
 - b. If the LDAP authentication type is simple, select Simple.
 - c. Enter the user base DN.
 - **d.** Enter the user match.
 - e. Uncheck the Match user subtree? check box. Click Next.
- 16. The Installation Progress screen is displayed. Click Install.
 - The progress displays on the Output tab. Any errors display in the Errors tab.
- **17.** If no errors display, dismiss the Finished popup. The Output tab displays the message Build Successful and the total time taken for the deployment.
- **18.** If errors display, diagnose them in the Errors tab. Delete the installation directory and, after diagnosis, reinstall.

End of procedure

Automated Installation Options

In addition to installing Platform by entering all properties in the installer UI screens (*normal* mode), two automated installation modes are also available: *semi-silent* and *silent*.

• Semi-silent mode pre-populates all values in the installer UI. The user will be able to review these values and make corrections if necessary.

• Silent mode is similar to semi-silent mode, except that only the Installation Progress screen is displayed. Installation will proceed without confirmation, and will exit automatically with log output being written to file.

Specifying Input Properties

For both semi-silent and silent installation modes, all required properties for the installation options, including installation targets, passwords, and so on, must be present in a property file named ant.install.properties. This file must be located in the same directory from which the installer runs.

Generate an initial template by running the installer in normal mode, and then supply values for the targets and other installation options. The installer saves these values (excluding passwords) in a file named

ant.userinstall.properties in the same directory as

platform-installer-<version>.jar. Obtain the input property file by copying this file to ant.install.properties, and then modifying the installation options as required for the specific configuration.

In order to reduce the risk of revealing sensitive information, password values are not written by the installer to the properties file. When the installer creates the ant.userinstall.properties file, password properties are created and commented out. For example:

#cp.database.password=

Once the ant.userinstall.properties file is copied to ant.install.properties, you must locate the necessary password properties, uncomment them, and then add the actual password values. For example: cp.database.password=supersecurepassword

Performing a Semi-Silent Installation

Enable semi-silent installation by running the installation jar with the ant.install.properties file present in the installer directory. No other changes are required.

Performing a Silent Installation

Enable the silent installation mode by adding the swing-auto parameter when running an installation jar on the command line. For example, to perform a silent installation of Platform, open a command prompt, navigate to the directory containing the installer jar, then run the following command (using the proper version number for "<version #>"):

java -jar platform-installer-<version #>.jar swing-auto

Note: Note that the ant.install.properties file must be present in the same directory.

The installer runs using the values in the ant.install.properties file, and upon exit indicates success or failure with a message and error codes. A successful installation looks similar to the following:

```
$ java -jar platform-installer-<version #>.jar swing-auto
Loading self extractor...
Install Successful.
```

A failed installation looks like the following:

```
$ java -jar platform-installer-<version #>.jar swing-auto
Loading self extractor...
Install Failed.
```

After the installer runs, these additional files contain log and installer output information:

```
ant.install.log
installation-output.log
```

In the case of installation failure, consult the installation-output.log file for further information. (Possible reasons for failure include a missing input properties file, incorrect property values—for example, database passwords or any other error that would cause a failure during normal installation mode.)
Troubleshooting Installation Errors

The following are parameter validation errors that you may encounter at the end of installation:

Table 1: Installation Error Messages

Error Message	Cause
[java] Failed to connect to the database using connection URL:	Wrong database server name / IP address or port number
[java]	
<pre>jdbc:sqlserver://192.168.xx.yy:nnn;DatabaseName=ys_pldb;use r=sa;password=very_secure_pwd;selectMethod=cursor</pre>	
[java] The following exception was thrown:	
com.microsoft.sqlserver.jdbc.SQLServerException: The TCP/IP connection to the host 192.168.xx.yy, port nnn has failed. Error: "Connection refused. Verify the connection properties, check that an instance of SQL Server is running on the host and accepting TCP/IP connections at the port, and that no firewall is blocking TCP connections to the port.	
[java] Failed to connect to the database using connection URL:	Wrong database name
[java]	
jdbc:sqlserver://192.168.xx.yy:nnnn;DatabaseName=NotAPlatfo rmDB;selectMethod=cursor;user=sa;password=very_secure_pwd	
[java] The following exception was thrown:	
com.microsoft.sqlserver.jdbc.SQLServerException: The TCP/IP connection to the host 192.168.xx.yy, port nnnn has failed. Error: "connect timed out. Verify the connection properties, check that an instance of SQL Server is running on the host and accepting TCP/IP connections at the port, and that no firewall is blocking TCP connections to the port."	
[java] Exception while connecting: Login failed for user 'badUserId'.	Wrong database user name or password
[java] url used:	-
jdbc:sqlserver://192.168.xx.yy:nnnn;DatabaseName=ys_pldb;se lectMethod=cursor;user=badUserId;password=very_secure_passw ord	

Table 1: Installation Error Messages (Continued)

Error Message	Cause
[echo] pinging cluster node IP address 138.120.yy.zz [java] WARNING! Host 138.120.yy.zz is unknown - java.net.UnknownHostException: 138.120.yy.zz. This may be due to a firewall blocking requests or a specific server configuration, e.g.: permissions.	The cluster member node identified by the IP address specified is not reachable. This may be for one of the following reasons: • The host is not online
<pre>[java] ERROR! Host 138.120.yy.zz is unknown - java.net.UnknownHostException: 138.120.yy.zz. This may be due to a firewall blocking requests or a specific server configuration, e.g.: permissions. [java] Exception in thread "main"</pre>	 A firewall is blocking access to the host The IP address of the host is incorrect The host is configured not to
java.security.InvalidParameterException: Host 138.120.yy.zz is unknown - java.net.UnknownHostException: 138.120.yy.zz. This may be due to a firewall blocking requests or a specific server configuration, e.g.: permissions.	respond to ICMP ping requests
CheckLdapConnection: [echo] Checking connection to the LDAP Server on host 192.168.yy.zz, port 389	Wrong LDAP Server IP address and/or port specified.
[echo] Checking connection to 192.168.yy.zz on port 389 ERROR! Failed to check connection to host 192.168.yy.zz, please see the error log for details.	



Chapter



Installing Geronimo Server

This chapter describes how to install and remove Geronimo server. It includes the following sections:

• Installing Geronimo as a Windows Service, page 39

Installing Geronimo as a Windows Service

Procedure: Installing Geronimo as a Windows service

Start of procedure

- 1. Run the Windows service as a user who has these permissions:
 - **a.** Permission Log In as a Service. Services are installed to be run under the Windows local system account. This account is restricted from network I/O by Windows design.
 - **b.** Permission to do the necessary kind of operation, for example, reading from the directory on the network.
- 2. Navigate to the Genesys Advisors installation directory and find the conf\advisors-server-wrapper.conf file, modify the memory settings based on the size of the client installation. The sizes in a) and b) are examples and may need to be larger depending on the size of the system in which the Enterprise Advisor is installed and the processing requirements for Geronimo.
 - a. # Initial Java Heap Size (in MB) wrapper.java.initmemory=128
 - b. # Maximum Java Heap Size (in MB) wrapper.java.maxmemory=1024

- 3. Open the Command prompt.
- 4. Navigate to the Genesys Advisors installation directory, then to the bin\windows-x86 subdirectory. Then run the command: InstallAdvisorsServer.bat This creates a Windows service named Advisors Suite Server. For more options on the these batch files, see AdvisorsServerInstructions.txt in the bin directory.
- 5. When it starts, the Windows service can create log files. To enable this, use the Log4j logging properties defined in advisors-server-wrapper.conf. The instructions are in the file.

The log file is:

- geronimo-tomcat6-minimal-2.1.3\advisors-server\wrapper.log
- **6.** If you have trouble starting the service, turn on the logging to look for issues.

End of procedure

Procedure: Removing the Geronimo server as an NT service

Start of procedure

- **1.** Open a command prompt window.
- 2. Change the directory to the one in which you installed Genesys Advisors, and then into bin\windows-x86.
- 3. Run the command: UninstallAdvisorsServer.bat

End of procedure



Chapter



Other Considerations

This chapter describes how to change and (re)configure other system parameters and settings. It includes the following sections:

- Changing Memory Allocations, page 41
- Installing Services under Windows 2008 Server, page 42
- Configuring Access to External Websites, page 42
- Changing the Mail Server Configuration After Server Installation, page 43
- Adding a Text Message on the Login Page, page 43
- Customizing the Logo and Colors in the Advisors Browser, page 43
- Installing and Configuring Apache, page 45
- Latency Getting to the Login page, page 48
- Encrypting LDAP Passwords, page 48

Changing Memory Allocations

If the log is reporting an out of memory error, set the heap size higher by editing the <install dir>/conf'/advisors-server-wrapper.conf file. About a third down the file, change the following lines:

```
# Initial Java Heap Size (in MB)
wrapper.java.initmemory=128
# Maximum Java Heap Size (in MB)
wrapper.java.maxmemory=1024
```

to

```
# Initial Java Heap Size (in MB)
```

wrapper.java.initmemory=800

Maximum Java Heap Size (in MB)
wrapper.java.maxmemory=1200

If the log is reporting a PermGen out of memory error, increase the permanent generation memory by editing the following line in the same file:

wrapper.java.additional.13=-XX:MaxPermSize=128m to wrapper.java.additional.13=-XX:MaxPermSize=256m

This increase in PermGen memory is normally required only when Platform uses a 64-bit JVM.

If the problem persists, experiment with higher values; however, the service may fail to start if it is unable to allocate all of the memory requested from the operating system. This will be noticeable if the server fails to start (reports an error during start). Turn various log settings to DEBUG in the conf file to help diagnose problems.

Installing Services under Windows 2008 Server

For installations on Windows 2008 Server, the Administrator installing the Advisors components and the Apache Web server should have permissions to install an NT service.

If for some reason granting this access is not possible, you can create shortcuts to the service installers that you may run as an Administrator.

To install the Platform Geronimo NT service, create a shortcut for the InstallAdvisorsServer.bat file.

To install the XMLGen NT service, create a shortcut for the InstallXMLGen.bat file.

To install Apache (including its NT service), create a short cut for the MSI installer.

Once you have created a shortcut, right click on the shortcut, and use the Run as administrator option to install the NT service for that component.

Configuring Access to External Websites

If you want access external websites via the Genesys Browser, you need to add an extra entry in the MODULE tables in the Platform database.

Below is a sample INSERT statement:

insert into Module (NAME, APP_DEPLOY_URL, VISIBLE, CODE, HELP_URL, MODULE_VERSION , ISEXTERNAL) values ('APEX', 'http://www.informiam.com', 'Y', 'APX', '','','Y')

Changing the Mail Server Configuration After Server Installation

Procedure: Changing the Mail Server configuration after Platform server is installed

Start of procedure

- 1. In the conf directory, locate the MailService.properties.
- 2. Edit the settings.
- 3. For the new settings to take effect, restart the server.

End of procedure

Adding a Text Message on the Login Page

To add a message on the Login page, you must have administrative privileges on the machine where the Web components of Genesys Advisors offering reside. Once logged in, locate and modify the remote-message.txt file using a text editor.

Customizing the Logo and Colors in the Advisors Browser

You can change the logo and background on the Advisors Browser to display your company's logo and background. The dimensions of the new logo must be the same as the dimensions of the Genesys logo (maximum 210*52 pixels).

Procedure: Customizing the logo

Start of procedure

- In the deploy directory, navigate to the folder: C:\informiam\custom\browser.
- 2. Replace the existing logo file with the custom logo. The logo filename must be remote-logo.png. The logo file should have the same dimensions as /chrome/skin/ea/ent-images/logo.png.
- Replace the existing background file with the custom background. The background filename must be remote-background.jpg. The background file should have the same dimensions as /chrome/skin/ea/ent-images/login-bkgnd.jpg.
- 4. Change informiam.js and skin.js under the Apache Server directory to:

```
informiamCustom =
{ mainColor: '#0288D7',
secondaryColor: '#59B1E4',
thirdColor: '#BDE7FF',
accentColor: '#024B7D',
textColor: '#023E67',
```

End of procedure

Customizing the Colors for Alert Management

toolBarColor: '#6893cc', borderColor: '#3b5984', backGroundColor: '#d2e3f8' }; All properties from the skin object must be propagated out to Contact Center Advisor and Workforce Advisor. setMainColor(informiamCustom.mainColor); setSecondaryColor(informiamCustom.secondaryColor); setThirdColor(informiamCustom.thirdColor); setAccentColor(informiamCustom.accentColor); setTextColor(informiamCustom.textColor); setToolBarColor(informiamCustom.toolBarColor); setBorderColor(informiamCustom.borderColor); setBorderColor(informiamCustom.borderColor);

Installing and Configuring Apache

Procedure: Installing and configuring Apache

Purpose: To install an Apache Web Server 2.2+ instance to direct http requests to the appropriate server. It is recommended to install Apache Web Server on a separate box.

Start of procedure

- 1. To enable Apache Web Server serving different modules in the Advisors Browser (for example, Administration, Contact Center Advisor, Workforce Advisor), edit the httpd.conf file located in the conf folder of the Apache Web Server installation as outlined below.
 - **a.** Locate the following lines in the httpd.conf file:
 - #LoadModule headers_module modules/mod_headers.so
 - #LoadModule proxy_module modules/mod_proxy.so
 - #LoadModule proxy_ajp_module modules/mod_proxy_ajp.so
 - #LoadModule proxy_http_module modules/mod_proxy_http.so
 - **b.** Remove the hash mark (#) from the beginning of each line, so that these four lines appear like this:
 - LoadModule headers_module modules/mod_headers.so
 - LoadModule proxy_module modules/mod_proxy.so
 - LoadModule proxy_ajp_module modules/mod_proxy_ajp.so
 - LoadModule proxy_http_module modules/mod_proxy_http.so
 - **c.** Locate the following entry and add a # to comment out Deny from all and to add Allow from all:

```
<Directory />
Options FollowSymLinks
AllowOverride None
Order deny,allow
#Deny from all
Allow from all
Satisfy all
</Directory>
```

- d. Locate the following entry near line 133 and add a # to comment it out:
 #ServerAdmin
- e. Add the following line: ProxyRequests off

- f. Add the following lines (with sample IP addresses) to the bottom of the file and change the IP addresses if necessary: # Platform and Advisors Modules ProxyPass /am/ ajp://192.168.40.234:8009/am/ ProxyPass /admin/ ajp://192.168.40.234:8009/admin/ ProxyPass /am-admin/ ajp://192.168.40.234:8009/am-admin/ ProxyPass /ca/ ajp://192.168.40.234:8009/ca/ ProxyPass /static/ ajp://192.168.40.234:8009/static/ ProxyPass /ca-ws/ ajp://192.168.40.234:8009/ca-ws/ ProxyPass /ea-ws/ ajp://192.168.40.234:8009/ea-ws/ ProxyPass /dashboard/ ajp://192.168.40.234:8009/dashboard/ ProxyPass /nav-service/ ajp://192.168.40.234:8009/nav-service/ ProxyPass /prefs-service/ ajp://192.168.40.234:8009/prefs-service/ ProxyPass /wu/ ajp://192.168.40.235:8009/wu/ # Genesys Resource Management Console Web Application ProxyPass /rmc/ ajp://192.168.40.235:8009/rmc/ # Genesys Adapter Admin Web Application ProxyPass /gc-admin/ ajp://192.168.40.235:8009/gc-admin/ # FA ProxyPass /fa/ ajp://192.168.40.234:8009/fa/ # HA ProxyPass /ha/ ajp://192.168.40.233:8009/ha/ ## Note that a second copy of Apache must go on the XMLGen server and serve /ca-xml/ "locally" ProxyPass /ca-xml/ http://192.168.40.234/ca-xml/ **Note:** If you need to access external applications via the Genesys Browser should have lines for each of those applications. For example: ProxyPass /APEX/ http://www.cra-arc.gc.ca/formspubs/menu-eng.html
- 2. Copy the contents of the baseweb-<version>-static-web.zip from the Advisors Platform distribution (the directories within the static-web-content) into the Apache htdocs directory.

- **3.** Install another instance of Apache Web Server 2.2+ onto the same box where the CCAdv application server and XMLGen have been installed. This instance of Apache Web Server will be used to serve XML content produced by XMLGen.
 - **a.** Locate the following entry in the httpd.conf and add a # to comment out Deny from all, and add Allow from all:

```
<Directory />
    Options FollowSymLinks
    AllowOverride None
    Order deny,allow
    #Deny from all
    Allow from all
    Satisfy all
</Directory>
```

- b. Locate the following entry near line 133 and add a # to comment it out:#ServerAdmin
- **c.** Locate the following line and remove the **#** from the beginning of the line:

#LoadModule headers_module modules/mod_headers.so
so that this line appears like this:

LoadModule headers_module modules/mod_headers.so

d. Point the Apache Web Server to the XMLGen output directory provided in Section 'XMLGen Services Option' above. Add the following line to the end of httpd.conf file:

Alias /ca-xml/ "D:/Program Files/genesys/ca-xml/"

- **Note:** The directory D:/Program Files/genesys/ca-xml/ is an example. This directory must be exactly the same as provided during XMLGen installation.
 - e. Add the following lines to the bottom of the file:

```
<Location /ca-xml/>
Header add "Cache-control" "no-cache"
Header add "Pragma" "no-cache"
Header add "Expires" "Thu, 01 Jan 1970 00:00:00 GMT"
</Location>
```

End of procedure

Latency Getting to the Login page

Consider raising the ThreadsPerChild setting to 1024 if Apache log files on the Web server show:

- [warn] Server ran out of threads to serve requests. Consider raising the ThreadsPerChild setting
- [notice] Child 5068: All worker threads have exited.
- [notice] Child 5068: Child process is exiting

Encrypting LDAP Passwords

The password used to connect to the LDAP server is obfuscated in the EASecurityRealm.properties file. If the password needs to be changed after installation, the ConfigurationObfuscator tool, located in the distribution artifacts, can be used with the following syntax:

java -cp installer-support-<version #>-jar-with-dependencies.jar com.informiam.installer.ConfigurationObfuscator <configuration directory> EASecurityRealm.properties

(where $\langle version \# \rangle$ is the current build version number.)

Note: The password must be saved in the EASecurityRealm.properties file in plain text to enable the Configuration Obfuscator to convert the password into obfuscated form.



Supplements

Related Documentation Resources

The following resources provide additional information that is relevant to this software. Consult these additional resources as necessary.

Performance Management Advisors

- *Performance Management Advisors 8.0 Platform Deployment Guide* describes how to install and configure the Advisor Platform.
- *Performance Management Advisors 8.0 Frontline Advisor Deployment Guide* describes how to install and configure Frontline Advisor.
- *Performance Management Advisors 8.0 Cisco Adapter Deployment Guide* describes how to configure and install the Cisco Adapter.
- *Performance Management Advisors 8.0 Genesys Adapter Deployment Guide* describes how to configure and install the Genesys Adapter.
- Performance Management Advisors 8.0 Contact Center Advisor & Workforce Advisor Deployment Guide describes how to configure and install Contact Center Advisor Workforce Advisor.
- *Performance Management Advisors 8.0 Contact Center Advisor & Workforce Advisor Administrator User's Guide* describes how to configure your enterprise hierarchy and set up threshold rules/goals and users.
- *Performance Management Advisors 8.0 Contact Center Advisor User's Guide* describes how to personalize your display of information for monitoring and root cause analysis.
- *Performance Management Advisors 8.0 Workforce Advisor User's Guide* describes how to personalize your display of information for monitoring and root cause analysis.
- *Performance Management Advisors 8.0 Frontline Advisor Administrator User's Guide* describes how to perform administration functions for Frontline Advisor.
- *Performance Management Advisors 8.0 Frontline Advisor Manager User's Guide* describes how to perform manager functions for Frontline Advisor.

- *Performance Management Advisors 8.0 Frontline Advisor Agent Advisor User's Guide* describes how to perform agent functions for Frontline Advisor.
- *Performance Management Advisors 8.0 Alert Management User's Guide* describes how to manage the actions taken to resolve alerts and use the database to learn and repeat successes.
- *Performance Management Advisors 8.0 Resource Management User's Guide* describes how to maintain skill levels and agents.
- *Performance Management Advisors 8.0 Performance Monitor User's Guide* summarizes how to personalize your display of information for monitoring.
- *Performance Management Advisors 8.0 Workforce What-If Tool User's Guide* describes and gives examples of scenarios that illustrate how to adjust resource levels to achieve optimal outcomes.

Genesys

- *Genesys Technical Publications Glossary*, which ships on the Genesys Documentation Library DVD and which provides a comprehensive list of the Genesys and computer-telephony integration (CTI) terminology and acronyms used in this document.
- *Genesys Migration Guide*, which ships on the Genesys Documentation Library DVD, and which provides documented migration strategies for Genesys product releases. Contact Genesys Technical Support for more information.
- Release Notes and Product Advisories for this product, which are available on the Genesys Technical Support website at http://genesyslab.com/support.

Information about supported hardware and third-party software is available on the Genesys Technical Support website in the following documents:

- Genesys Supported Operating Environment Reference Manual
- Genesys Supported Media Interfaces Reference Manual

Consult these additional resources as necessary:

- *Genesys Hardware Sizing Guide*, which provides information about Genesys hardware sizing guidelines for Genesys releases.
- *Genesys Interoperability Guide*, which provides information on the compatibility of Genesys products with various Configuration Layer Environments; Interoperability of Reporting Templates and Solutions; and GPlus Adapters Interoperability.
- *Genesys Licensing Guide,* which introduces you to the concepts, terminology, and procedures relevant to the Genesys licensing system.

For additional system-wide planning tools and information, see the release-specific listings of System Level Documents on the Genesys Technical Support website, accessible from the <u>system level documents by release</u> tab in the Knowledge Base Browse Documents Section.

Genesys product documentation is available on the:

- Genesys Technical Support website at http://genesyslab.com/support.
- Genesys Documentation Library DVD, which you can order by e-mail from Genesys Order Management at <u>orderman@genesyslab.com</u>.

Document Conventions

This document uses certain stylistic and typographical conventions introduced here—that serve as shorthands for particular kinds of information.

Document Version Number

A version number appears at the bottom of the inside front cover of this document. Version numbers change as new information is added to this document. Here is a sample version number:

80fr_ref_06-2008_v8.0.001.00

You will need this number when you are talking with Genesys Technical Support about this product.

Screen Captures Used in This Document

Screen captures from the product graphical user interface (GUI), as used in this document, may sometimes contain minor spelling, capitalization, or grammatical errors. The text accompanying and explaining the screen captures corrects such errors *except* when such a correction would prevent you from installing, configuring, or successfully using the product. For example, if the name of an option contains a usage error, the name would be presented exactly as it appears in the product GUI; the error would not be corrected in any accompanying text.

Type Styles

Table 2 describes and illustrates the type conventions that are used in this document.

Table 2: Type Styles

Type Style	Used For	Examples
Italic	 Document titles Emphasis Definitions of (or first references to) unfamiliar terms Mathematical variables Also used to indicate placeholder text within code samples or commands, in the special case where angle brackets are a required part of the syntax (see the note about angle brackets on page 53). 	Please consult the <i>Genesys Migration</i> <i>Guide</i> for more information. Do <i>not</i> use this value for this option. A <i>customary and usual</i> practice is one that is widely accepted and used within a particular industry or profession. The formula, $x + 1 = 7$ where x stands for

Type Style	Used For	Examples
Monospace font	All programming identifiers and GUI elements. This convention includes:	Select the Show variables on screen check box.
(Looks like teletype or typewriter text)	 The <i>names</i> of directories, files, folders, configuration objects, paths, scripts, dialog boxes, options, fields, text and list boxes, operational modes, all buttons (including radio buttons), check boxes, commands, tabs, CTI events, and error messages. The values of options. Logical arguments and command syntax. Code samples. Also used for any text that users must manually enter during a configuration or installation procedure, or on a command line. 	In the Operand text box, enter your formula. Click OK to exit the Properties dialog box. T-Server distributes the error messages in EventError events. If you select true for the inbound-bsns-calls option, all established inbound calls on a local agent are considered business calls. Enter exit on the command line.
Square brackets ([])	A particular parameter or value that is optional within a logical argument, a command, or some programming syntax. That is, the presence of the parameter or value is not required to resolve the argument, command, or block of code. The user decides whether to include this optional information.	smcp_server -host [/flags]
Angle brackets (<>)	A placeholder for a value that the user must specify. This might be a DN or a port number specific to your enterprise. Note: In some cases, angle brackets are required characters in code syntax (for example, in XML schemas). In these cases, italic text is used for placeholder values.	smcp_server -host ⟨confighost⟩

Table 2: Type Styles (Continued)

Document Conventions



Index

Symbols

[] (square brackets).	÷								53
< > (angle brackets)	2	2		2	2	2	2	2	53

Α

angle brackets		÷	÷				53
audience, for document				2			. 8

В

brackets												
angle.									2			. 53
square	÷	÷					÷	÷	÷			. 53

С

commenting on	thi	is	do	эс	ur	ne	en	t.								. 9
conventions																
in document .					÷						÷	÷		2		. 52
type styles		•	÷		÷	÷	÷	÷	÷	÷	÷	÷	÷	÷	÷	. 52

D

document									
audience									. 8
conventions	۰.		2		2	2		2	. 52
errors, commenting on				2		÷			. 9
version number	۰.		2	2	2		2	2	. 52

F

font styles													
italic			2							2			52
monospace		÷	÷	÷	÷	÷	÷	÷	÷	÷		÷	53

I

intended audience.					÷			÷		. 8
italics	1	4		2	2	2		2	2	.52

Μ

monospace font																.53
----------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-----

S

square brackets																.53
-----------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-----

Т

type styles													
conventions	2			2	2			2				2	52
italic	2		2	2			2		2		2	2	52
monospace	2		2	2	2				2		2	2	53
typographical styles						4							52

V

Index