

# **GENESYS**

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## eServices Administrator's Guide

**UCS** Administration

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# UCS Administration

This section provides information for administrators regarding Universal Contact Server (UCS). In addition to the topics on this page, there is also the following:

- Special instructions on enabling a user who is not the schema owner to run UCS with an Oracle database
- Queries that users of the UCS database must have permission to run
- · Updating interaction data in a routing strategy
- Limitations to observe in operating UCS
- Enabling full text searching of the UCS database
- Masking sensitive data, such as credit card numbers, phone numbers, and Social Security numbers, in UCS logs.

## Access to Configuration Server

Be sure to run UCS with a user that has write access to the Configuration Server database for all the tenants associated with this UCS (that is, the user specified on the Security tab of the UCS Application object).

This means that UCS does not support Configuration Server Proxy version 8.0.2 and earlier, which has only read access to the Configuration Server database. UCS does support Configuration Server Proxy version 8.0.3 and later.

## Client Connection Timeout

To avoid inconsistency, every client of UCS should have the timeout of its connection to UCS set to a higher value than the timeout of UCS's connection to its Database Access Point (DAP).

This allows UCS to consistently either perform long queries or abort them, in accord with the clients' requirements.

## Contact Identification and Creation

When a new interaction enters the system, UCS performs the following tasks:

1. Contact identification—UCS checks whether this interaction is coming from a known contact: more precisely, whether the contact data included in the new interaction matches an existing contact in the

UCS database. UCS does this in response to a request from a media server, the Identify Contact Routing strategy object, or the Agent Interaction SDK CreateInteraction method.

2. Contact creation—If the contact does not exist in the database, UCS creates a new record to represent it.

#### Character Sets

#### Oracle

The character set WE8IS08859P1 does not have any representation of characters in the range 128–159. Because of this, with an Oracle database, attempting to save characters in this range in a column of type NCHAR or NVARCHAR results in corrupted data. Genesys recommends that for non-Unicode deployment you set the Oracle NLS\_CHARACTERSET parameter to WE8MSWIN1252 instead of WE8IS08859P1. WE8MSWIN1252 is a superset of WE8IS08859P1, so there will be no data loss for most European languages (but data in non-Latin writing systems will still be corrupted).

For support of non-Latin charsets, use the following parameter settings in Oracle:

NLS CHARACTERSET AL32UTF8

NLS\_NCHAR\_CHARACTERSET AL16UTF16

#### DB2 and PostgreSQL

DB2 and PostgreSQL must use the UTF-8 codeset for the UCS database.

## **Important**

UCS support of PostgreSQL is limited and does not support the following:

- · Multiple-site deployment
- Multi-tenant deplyoment
- Clusters
- · High availability
- · Load balancing

### TLS and IPv6

The following two items also apply to E-mail Server.

#### TLS Connection as Windows Service

When UCS has Transport Layer Security (TLS) configured, either as a server on its ESP port, or as a client in its connection to Message Server, there are two ways to enable it as a Windows Service:

#### Log on As a Local Host User

- 1. Select the Windows service related to UCS.
- 2. Select the Log On tab. The default setting is Log on as local system account.
- 3. Select Log on as this account and provide the login/password of a local host user.

#### Import a Certificate to the Local System Account

Do one of the following:

- Run psexec.exe -i -s mmc.exe, then import a certificate for a user that is the local system account.
- Run psexec.exe -i -s certutil -f -user -p [password] -importpfx [path to the certificate]

#### Notes on psexec.exe:

- With the flag -s, psexec.exe executes the specified program under the system account.
- psexec is part of PSTools, which can be downloaded from <a href="http://technet.microsoft.com/en-US/sysinternals">http://technet.microsoft.com/en-US/sysinternals</a>

## Mixing IPv6 and IPv4

UCS and E-mail Server do not support the command-line option transport-ip-version. If either of these is connected to Configuration Server using IPv6 but connected to other components using IPv4, you must add the following argument to (ContactServerDriver|JavaEmailServerDriver).ini:

-Djava.net.preferIPv6Addresses=true

## Database Performance

#### **OLTP**

For best performance, Genesys strongly recommends that you set up the UCS database as OLTP (online transaction processing).

#### **Tuning for Attachments**

UCS uses the Content field of the Document table to store attachments; also, the Content field of the ixnContent table stores raw e-mails, including attachment data. If you plan to store large attachments (bigger than 5 MB), you should tune the database according to the recommendations of

your database vendor.

For example, increasing the block size of database files for these fields can greatly enhance performance in access and storing of large attachments, at the cost of a slight loss of performance with smaller ones. Also, some databases offer the ability to partition data according to specified criteria. Both tables have a theSize column that you can use to do such partitioning. This could enable you to store small attachments in a specific file and large ones in another, for example.

Refer to the tuning guides of your database vendor for more information.