Genesys Administrator Extension Deployment Guide

TLS: Configuring the GAX Database

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Contents

You must configure your Oracle, Microsoft SQL 2008 R2, or PostgreSQL server to use TLS. Refer to the documentation that came with your database for information on how to use TLS security.

Configuring the GAX Database for TLS (Oracle)

Purpose

- To enable TLS support for your GAX Oracle database.

Prerequisites

- Setting up the Genesys Administrator database (for Oracle)

Start

1. Configure Oracle as described in the related database guides, and configure a TCPS listener.
2. Set the level of TLS control on the DAP.
    a. In the GAX section of the DAP, create an option that is named `tls_mode`.
    b. Specify one of the following values for the `tls_mode` option:

- `off`—No TLS will be used.
- `required`—If a server does not support TLS, revoke the connection.
- `authentication`—GAX will validate the server send-certificate with the local trust store.
- `<option not set>`—Same as `off`.

End

Configuring the GAX Database for TLS (Microsoft SQL Server 2008)

Prerequisites

- Setting up the Genesys Administrator database (for Microsoft SQL Server).
- Ensure that you are using the latest JTDS driver (1.2.5 or later).

Start

1. Configure Microsoft SQL Server as described in the related database guides.
2. Set the level of TLS control on the DAP.
    a. In the GAX section of the DAP, create an option that is named `tls_mode`.

    b. Specify one of the following values for the `tls_mode` option:

- `off`—Do not use TLS.
- `request`—If the server supports TLS, it is used.
- `required`—If the server does not support TLS, the connection is revoked.
- `authentication`—GAX validates the server-send certificate against the local trust store.
- `<option not set>`—Same as `off`.

- Verify that the configured port is identical to the TLS listener port of Microsoft SQL Server
- Due to an incompatibility between newer versions of Java and the Microsoft SQL Server driver, disable CBC Protection to enable GAX to connect to a Microsoft SQL Server database.

  - For Windows, add the following line to the `setenv.bat` file:

`set JAVA_OPTS=%JAVA_OPTS% -Djsse.enableCBCProtection=false`

  - For Linux, add the following line to the `setenv.sh` file:

`JAVA_OPTS="$JAVA_OPTS -Djsse.enableCBCProtection=false"`

End

Configuring the GAX Database for TLS (PostgreSQL)

> 💡 **Note**: This procedure applies only to GAX 8.1.310 releases or higher.

Prerequisites

- Setting up the Genesys Administrator database (for PostgreSQL).

Start

1. Configure PostgreSQL as described in the related database guides.
2. Set the level of TLS control on the DAP.
   a. In the GAX section of the DAP, create an option that is named `tls_mode`.
   b. Specify one of the following values for the `tls_mode` option:

- `off`—Do not use TLS.
- `required`—If the server does not support TLS, the connection is revoked.
- `authentication`—GAX validates the server-send certificate with the local trust store.
- `<option not set>`—Same as `off`.

End