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# Genesys Administrator Extension Deployment Guide

TLS: Configuring the GAX Database

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You must configure your Oracle, Microsoft SQL, 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)

### 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)

### 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**