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Log File Management Tool Deployment and User's Guide

Configuration of the LFMT Database

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Configuration of the LFMT Database

For each LFMT Indexer/Collector pair, a separate LFMT database is required. New Comment

This section describes how to initialize a LFMT Database.

The configuration of a Database Access Point (DAP) for a LFMT Database is also detailed.

Important

- The LFMT Database (Oracle, MS-SQL or Postgres) is **NOT** the same as the GAX Database - its a different/separate database solely for LFMT Collector/Indexer pairs
- The GAX database is still required for GAX functionality
- A new Database must be created for LFMT functionality - a new/separate database for each LFMT Collector/Indexer pair (i.e. **LFMT_Chicago_1**)
- LFMT supports TLS database connections as of LFMT package version 8.5.104.10 (LFMT Collector 8.5.104.04+, LFMT Indexer 8.5.104.02+, LFMT Client 8.5.104.02+)

Initializing the LFMT Database

1. Navigate to the **<LFMT Collector Install Directory>\utilities\dbscripts** directory.
2. The table below lists the RDBMS database types and their corresponding LFMT initialization script names contained in the *dbscripts* directory.
3. Determine/locate the LFMT Database initialization script that corresponds to your RDBMS and LFMT deployment type (new install or upgrade).

DBMS	Script	Notes
Microsoft SQL	lfmdb_8.5.101.XX_mssql.sql	Use this for a new install of LFMT 8.5.10x.xx
Oracle	lfmdb_8.5.101.XX_ora.sql	Use this for a new install of LFMT 8.5.10x.xx
PostgreSQL	lfmdb_8.5.101.XX_postgres.sql	Use this for a new install of LFMT 8.5.10x.xx
Microsoft SQL	lfmdb_8.5.000.xx_to_8.5.101.xx_mssql.sql	Use this when upgrading from LFMT 8.5.000.xx to LFMT 8.5.101.xx
Oracle	lfmdb_8.5.000.xx_to_8.5.101.xx_ora.sql	Use this when upgrading from LFMT 8.5.000.xx to LFMT 8.5.101.xx

DBMS	Script	Notes
PostgreSQL	lfmdb_8.5.000.xx_to_8.5.101.xx_postgres.sql	Use this when upgrading from LFMT 8.5.000.xx to LFMT 8.5.101.xx
Microsoft SQL	lfmdb_8.5.100.xx_to_8.5.101.xx_mssql.sql	Use this when upgrading from LFMT 8.5.100.xx to LFMT 8.5.101.xx
Oracle	lfmdb_8.5.100.xx_to_8.5.101.xx_ora.sql	Use this when upgrading from LFMT 8.5.100.xx to LFMT 8.5.101.xx
PostgreSQL	lfmdb_8.5.100.xx_to_8.5.101.xx_postgres.sql	Use this when upgrading from LFMT 8.5.100.xx to LFMT 8.5.101.xx

4. Via your respective RDBMS UI, load and execute the initialization script that corresponds to your RDBMS and LFMT deployment type (new install or upgrade).

Important

- The result of the above is a new RDBMS LFMT database (i.e. **LFMT_Chicago_1**) that a LFMT Collector/Indexer pair can connect to
- When deploying multiple LFMT Collector/Indexer pairs a new RDBMS database is required for each and every LFMT Collector/Indexer pair

Provisioning a Database Access Point for the LFMT Database

1. Log into GAX, and navigate to **Configuration Manager**.
2. From the Environment section, select **Application Templates**.
3. In the Application Templates section, enter a name for the DAP Template in the **Name** text field.
4. Choose Database Access Point as the template type from the **Type** dropdown.
5. Enter **8.5** for the DAP version in the Version text field.
6. Click the **Save** button to save the new application template.
7. Once the Application Template has been created, navigate to **Configuration Manager**.
8. From the Environment section, select **Applications**.
9. In the Applications section, select **New**.
10. In the New Properties pane, select the **General** tab. Complete the following:
 - a. In the General tab, enter a name (i.e. **DAP_LFMT_Chicago_1**) for the LFMT DAP in the **Name** field.
 - b. Click on the **Template** field and navigate to the Application Template created above.
 - c. Click on the **Host** field and navigate to the host where LFMT Database resides.

- d. Choose **JDBC** as the connection type from the Connection Type dropdown.
 - e. Choose **Any** as the case conversion type from the Case Conversion dropdown.
 - f. Choose **Main** as the role from the Role dropdown.
 - g. Choose **False** as the role from the Debug dropdown.
 - h. Enter **15** for the DB timeout in the JDBC Query Timeout text field.
 - i. Choose your **DBMS type** (i.e. **postgres**) from the DBMS Type dropdown.
 - j. Enter the LFMT **Database Name** (i.e. **LFMT_Chicago_1**) in the Database Name text field.
 - k. Enter the LFMT **Database Username** in the Username text field.
 - l. Enter the LFMT **Database Password** in the User Password text field.
11. Select the Ports tab. Complete the following:
- a. Set the value of the default communication port to the listening port of your DBMS. Default ports are listed below:
 - For PostgreSQL the default listening port is **5432**.
 - For Oracle the default listening port is **1521**.
 - For MSSQL the default listening port is **1433**.
 - b. As of LFMT package version 8.5.104.10, TLS can be enabled for the connection to the LFMT database. To enable TLS, set the listening mode for the defined port to "secure".
12. Select the Application Options tab. Review and configure the LFMT DAP options.
- a. Create the section **lfmt**.
 - b. Create the option **site**.
 - c. Set the value of the **site** option (i.e. **Chicago_1**) to a unique identifier for the LFMT Database.

Important

Ensure that the **site** option for each LFMT DAP in the LFMT solution is different.

Tip

For more information on the LFMT DAP configuration options, please refer to the [LFMT DAP Configuration Options](#) section.

Examples:

Configuration of the LFMT Database

The screenshot shows the GAX Configuration page for 'DAP_LFMT Properties'. The left sidebar contains a menu with 'General', 'Ports', 'Tenants', 'Options', 'Permissions', 'Dependencies', and 'Application Options'. The 'Options' menu item is selected. The main content area is titled 'Application Options' and contains a table with columns: Name, Section, Key, and Value. The table has one row with the following data:

Name	Section	Key	Value
lfmt \ site	lfmt	site	demo

The screenshot shows the GAX Configuration page for 'DAP_LFMT Properties'. The left sidebar contains a menu with 'General', 'Ports', 'Tenants', 'Options', 'Permissions', 'Dependencies', and 'Application Options'. The 'Options' menu item is selected. The main content area is titled 'Options' and contains a table with columns: Name, Section, Key, and Value. The table has one row with the following data:

Name	Section	Key	Value
default \ connection_type	default	connection_type	JDBC

Configuring Connections to the LFMT DAP/Database

The LFMT Database stores information accessed by the LFMT Client (GAX), the LFMT Indexer, and the LFMT Collector, therefore each LFMT application requires a connection the respective LFMT DAP.

This section describes how to configure connections to the LFMT database.

Configuring GAX for use with the LFMT Database

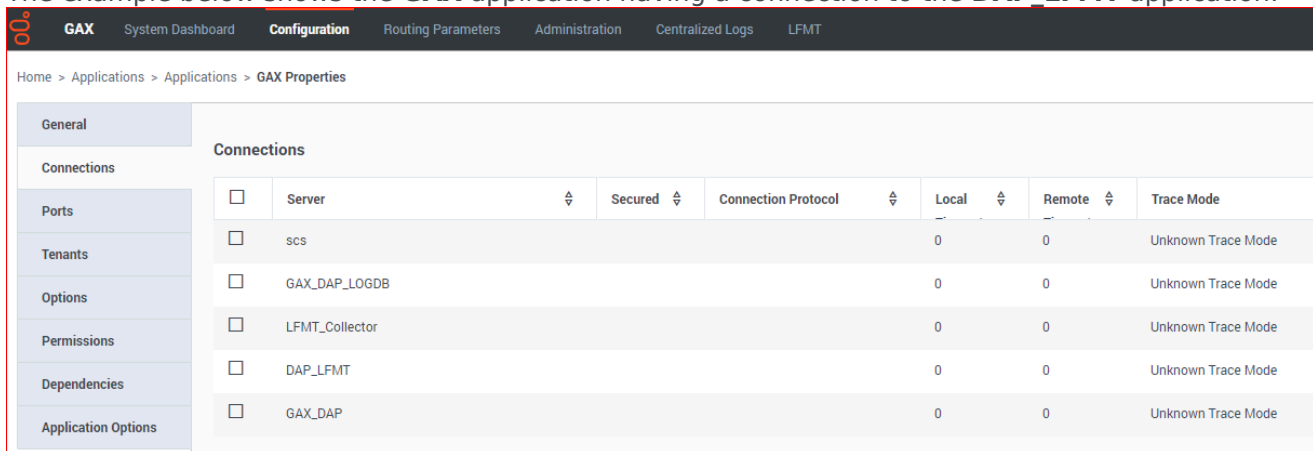
1. Log into GAX, and navigate to Configuration Manager.
2. From the Environment section, select **Applications**.
3. In the Applications section, select the GAX Application configured for use with the **LFMT Client**.
4. In the Application Properties pane, select the **Connections** tab.
5. In the Connections tab, add a connection to the **LFMT DAP** (i.e. DAP_LFMT_Chicago_1) to which GAX will connect.

Important

A single GAX application may have multiple connections to more than one LFMT DAP object/instance.

6. Click the **Save** button to save changes to the application.
7. Restart GAX.

The example below shows the **GAX** application having a connection to the **DAP_LFMT** application:



Home > Applications > Applications > GAX Properties							
General	Connections						
Connections	<input type="checkbox"/>	Server	Secured	Connection Protocol	Local	Remote	Trace Mode
Ports	<input type="checkbox"/>	scs			0	0	Unknown Trace Mode
Tenants	<input type="checkbox"/>	GAX_DAP_LOGDB			0	0	Unknown Trace Mode
Options	<input type="checkbox"/>	LFMT_Collector			0	0	Unknown Trace Mode
Permissions	<input type="checkbox"/>	DAP_LFMT			0	0	Unknown Trace Mode
Dependencies	<input type="checkbox"/>	GAX_DAP			0	0	Unknown Trace Mode
Application Options							

Configuring LFMT Indexer for use with the LFMT Database

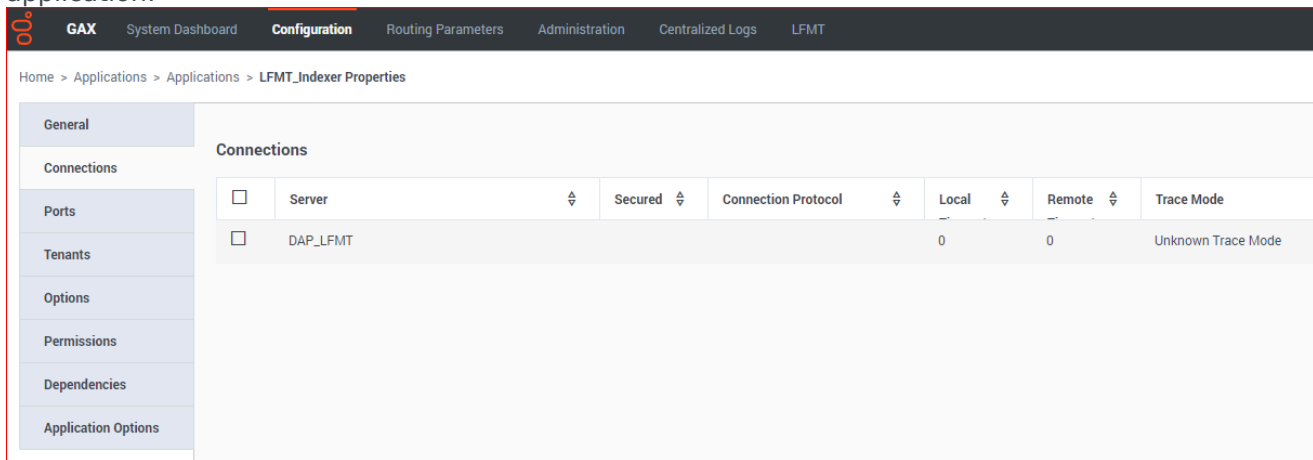
1. Log into GAX, and navigate to **Configuration Manager**.
2. From the Environment section, select **Applications**.
3. In the Applications section, select the **LFMT Indexer application** that will access the LFMT Database.
4. In the Application Properties pane, select the **Connections** tab.
5. In the Connections tab, add a connection to the **LFMT DAP** to which **LFMT Indexer** will connect.

Important

A LFMT Indexer may have *only one* connection to a LFMT DAP instance.

6. Click the **Save** button to save changes to the application.
7. **Restart** LFMT Indexer.

The example below shows the **LFMT_Indexer** application having a connection to the **DAP_LFMT** application:



The screenshot shows the GAX Configuration Manager interface. The top navigation bar includes GAX, System Dashboard, Configuration, Routing Parameters, Administration, Centralized Logs, and LFMT. The breadcrumb trail is Home > Applications > Applications > LFMT_Indexer Properties. The left sidebar contains tabs for General, Connections, Ports, Tenants, Options, Permissions, Dependencies, and Application Options. The main pane is titled 'Connections' and displays a table with the following data:

<input type="checkbox"/>	Server	Secured	Connection Protocol	Local	Remote	Trace Mode
<input type="checkbox"/>	DAP_LFMT			0	0	Unknown Trace Mode

Configuring LFMT Collector for use with the LFMT Database

1. Log into GAX, and navigate to **Configuration Manager**.
2. From the Environment section, select **Applications**.
3. In the Applications section, select the **LFMT Collector** that will access the LFMT Database.
4. In the Application Properties pane, select the **Connections** tab.
5. In the Connections tab, add a connection to the **LFMT DAP** to which **LFMT Collector** will connect.


Important

A LFMT Collector may have *only one* connection to a LFMT DAP instance.

6. Click the **Save** button to save changes to the application.
7. **Restart** LFMT Collector.

The example below shows the **LFMT_Collector** application having a connection to the **DAP_LFMT** application:

Configuration of the LFMT Database



GAX

System Dashboard

Configuration

Routing Parameters

Administration

Centralized Logs

LFMT

Home > [Applications](#) > Applications > LFMT_Collector Properties

General

Connections

Ports

Tenants

Options

Permissions

Dependencies

Application Options

Connections

<input type="checkbox"/>	Server	Secured	Connection Protocol	Local	Remote	Trace Mode
<input type="checkbox"/>	ms			0	0	Unknown Trace Mode
<input type="checkbox"/>	DAP_LFMT			0	0	Unknown Trace Mode
<input type="checkbox"/>	GAX			0	0	Unknown Trace Mode