



Caplin Trader 1.1 Installation Guide

Configuring Caplin Trader to use the Oracle[®] RDBMS

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1 Introduction

Caplin Trader uses a relational database. The Caplin Trader evaluation version ships with the MySQL® Relational Database Management System (RDBMS), but you can change Caplin Trader's configuration to use an Oracle® database. This document explains how to do this.

1.1 Readership

This document is intended for Caplin Trader developers and database administrators.

1.2 Related documents

[1] Installing Caplin Trader for Evaluation

Describes how to install the evaluation version of Caplin Trader on a Linux server.

1.3 Acknowledgments

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2 Prerequisites

- An Oracle server version 10i or higher must be installed and available for Caplin Trader to use.
- Caplin Trader must be installed (see **Installing Caplin Trader for Evaluation**).

3 Converting Caplin Trader to use Oracle

3.1 Building Caplin Trader's Database

A script is supplied to create the database in Oracle:

InstallKits/webapps/caplintrader/applications/CaplinTrader/build/application-server/mysql/oracle-create-tables.sql

To create the database:

- Log on to the required instance of the Oracle RDBMS server, ensuring you have database administrator (DBA) privilege.
- Run the *oracle-create-tables.sql* DDL script to create the new database tables and constraints.
- Create a new Oracle logon for Caplin Trader to connect to the Oracle server. Ensure that the logon has permission to run DML statements against the new Caplin Trader database.

3.2 Configuring Caplin Trader to connect to the Database

Caplin Trader connects to the database using Hibernate, so the configuration file *hibernate.cfg.xml* on the J2EE™ application server must be changed to refer to the Oracle database. To do this, edit the supplied Oracle version of the file (*hibernate-oracle.cfg.xml*) and overwrite *hibernate.cfg.xml* with this new version, as follows:

1. Go to the directory containing the *hibernate.cfg.xml* file

Change to the *webcentric_servlet* application directory on your application server. For example, on a Tomcat server you would issue the following command:

```
cd /opt/apps/thirdparty/tomcat/webapps/webcentric_servlet/
    WEB-INF/classes
```

2. Add database connection details to the *hibernate-oracle.cfg.xml* file

Edit *hibernate-oracle.cfg.xml* to enter the correct database connection parameters. For example, if the parameters are Oracle SID = **caplintrader**, user = **caplin**, password = **pass123**, then these should be added in the file as follows:

```
<property name="hibernate.connection.url">
    jdbc:oracle:thin:@integrationlinux1:1521:caplintrader
</property>
<property name="hibernate.connection.username">
    caplin
</property>
<property name="hibernate.connection.password">
    pass123
</property>
```

3. Replace the *hibernate.cfg.xml* file with the Oracle version

Copy the edited file on to the standard one, so the application server will pick up the new configuration:

```
cp hibernate-oracle.cfg.xml hibernate.cfg.xml
```

You should now be able to run Caplin Trader against the Oracle database.

3.3 Configuring the Application Server to authenticate against Oracle

If you are using the Caplin Trader evaluation installation with Tomcat as the application server, then the *server.xml* file will, by default, authenticate against the MySQL server.

In your production environment, your application server will be configured to authenticate against an enterprise-level single-sign-on system (the details of how to do this will depend on the application server you are using).

If you wish to use Oracle for authentication, then modify the JDBC connection string in *server.xml* and you will not need to run the MySQL database server.



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