

Caplin Trader 1.4

Configuring Caplin Trader To Use The Oracle RDBMS

March 2009

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1 Preface

1.1 What this document contains

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.

About Caplin document formats

This document is supplied in Portable document format (*.PDF* file), which you can read on-line using a suitable PDF reader such as Adobe Reader®. The document is formatted as a printable manual; you can print it from the PDF reader.

1.2 Who should read this document

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

1.3 Related documents

[1] Installing Caplin Trader for Evaluation

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

1.4 Typographical conventions

The following typographical conventions are used to identify particular elements within the text.

Type	Uses
<i>/AFolder/Afile.txt</i>	File names, folders and directories
<code>Some code;</code>	Program output and code examples
The value=10 attribute is...	Code fragment in line with normal text
Some text in a dialog box	Dialog box output
Something typed in	User input – things you type at the computer keyboard
XYZ Product Overview	Document name
◆	Information bullet point
■	Action bullet point – an action you should perform

Note: Important Notes are enclosed within a box like this.
Please pay particular attention to these points to ensure proper configuration and operation of the solution.

Tip: Useful information is enclosed within a box like this.
Use these points to find out where to get more help on a topic.

1.5 Feedback

Customer feedback can only improve the quality of our product documentation, and we would welcome any comments, criticisms or suggestions you may have regarding this document.

Please email your feedback to documentation@caplin.com.

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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 Building the Caplin Trader 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:

1. Log on to the required instance of the Oracle RDBMS server, ensuring you have database administrator (DBA) privilege.
2. Run the *oracle-create-tables.sql* DDL script to create the new database tables and constraints.
3. 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.

4 Configuring the database connection

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 parameters 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 to the standard one, so the application server will pick up the new configuration:

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

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

5 Configuring server authentication 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, modify the JDBC connection string in *server.xml* and you will not need to run the MySQL database server

Contact Us

Caplin Systems Ltd

Triton Court

14 Finsbury Square

London EC2A 1BR

Telephone: +44 20 7826 9600

Fax: +44 20 7826 9610

www.caplin.com

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