

Setting up an Oracle® Database

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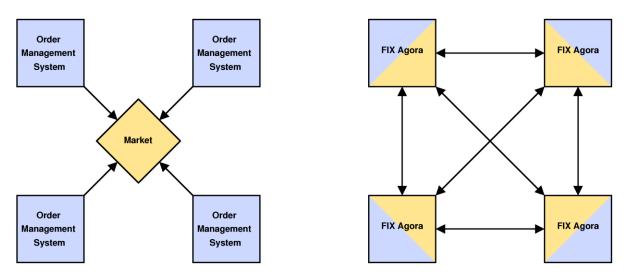
Objectives

This guide gives step-by-step instructions for setting up an Oracle® database connected to FIX Agora. The paper starts with the installation of the JDBC connector and describes the configuration of FIX Agora to work with an Oracle database.

About FIX Agora

FIX Agora is a peer-to-peer OTC trading network for financial institutions with an integrated order management system. The application can act as buy side and sell side. FIX Agora supports indicative quoting and processing of order requests. It is equipped with multiuser spreadsheets for price calculations as market maker.

FIX Agora ships with the option for exporting trade reports into Excel® sheets and SAP® Financial Supply Chain Management (requires SAP® JCO). The application is client/server based, modular and extensible.



FIX Agora is working with the Financial Information eXchange ("FIX") protocol. The FIX protocol is an industry driven standard for the electronic communication of trade related messages, released and maintained by FIX Protocol, Ltd.

FIX Agora is a 100% Java open source implementation running on Windows, Linux/UNIX and Mac OS (client only). It requires Oracle® JRE version of 1.6 or higher.

This software is published under the GNU Lesser General Public License, Version 2.1 (LGPLv2.1).

Download and Installation

Download the version of Oracle Express that fits to your operating system from OTN:

http://www.oracle.com/technetwork/products/express-edition/downloads/index.html

Follow the installation instructions and start the *Application Express Login* in your web browser:

http://127.0.0.1:7070/apex



Switch to:

• $Administration \rightarrow Application Express Internal Administration$

Log in as administrator. Choose *Create Workspace* and fill the following field:

Workspace Name: agora

Hit Next and fill:

Schema Name: agora Schema Password: agora

Hit Next and define an administrator:

Administrator Username: agora Administrator Password: agora Email: agora@agora.com

Hit Next and Create Workspace.

Configuring FIX Agora

An Oracle JDBC Connector is required by FIX Agora to connect to the database. Search the file named ojdbc6_g.jar in your Oracle installation and copy it into:

```
fixagora-server/extlib
```

In a typical UNIX installation this file can be found in:

```
/u01/app/oracle/product/11.2.0/xe/jdbc/lib
```

Now switch to the folder:

```
fixagora-server/conf/META-INF
```

Replace the existing file properties.xml by renaming the file properties.oracle to properties.xml. If your database is not running on your local host or you have choosen a different account, modify the file properties.xml according to your installation:

```
<property name="hibernate.connection.url"
value="jdbc:oracle:thin:@127.0.0.1:1521:XE"/>
<property name="hibernate.connection.username" value="agora"/>
<property name="hibernate.connection.password" value="agora"/>
```

Finally, import the database with the business blueprint used in the demonstration. Switch to the folder:

```
fixagora-server/etc
```

Import the SQL script containing the business blueprint by running:

```
/u01/app/oracle/product/11.2.0/xe/bin/imp agora/agora@XE FILE=blueprint_oracle.sql FULL=yes
```

Now you can start the demo system containing the business blueprint.

You can create a plain system by skipping the import procedure. A plain system is not running in demo mode! You have to start client and server manually. In this case the default account with admin privileges is:

User: Admin Password: admin

Caution: If the system is empty initialized, it is not possible to import the business blueprint afterwards!