Flex Test Drive Setup Instructions

To complete the Flex Test Drive and/or the Flex Mobile Test Drive, you need the following software.

- Flash Builder
    - For the web Test Drive: Flash Builder 4 (http://adobe.com/go/tryflashbuilder)
    - For the Mobile Test Drive: Flash Builder Burrito (http://adobe.com/go/flashbuilder_preview/)
- One of the following application servers on your computer:
    - ColdFusion 7 or later
    - Java (1.5 or later)
    - PHP (5.2.4 or later) with MySQL and the PHP MySQLi extension

Note: The same server side files can be used to complete the exercises for the Flex Test Drive (http://adobe.com/devnet/flex/testdrive) and the Flex Mobile Test Drive (http://adobe.com/devnet/flex/testdrivemobile).

Complete one of the sections below to set up your server. If you do not currently have an application server, download and install the ColdFusion Developer Edition server (http://adobe.com/go/trycoldfusion) to get up and running the most quickly and easily; when installing, select the Server configuration option (so it is installed as a self-contained server), use the built-in development server, and enable RDS.

Test Drive setup for ColdFusion

1. Unzip testdrive_setup_CF.zip. It contains two CAR files (testdrive_win.car and testdrive_mac.car) and a ZIP file (testdrive.zip).
2. If you have ColdFusion Enterprise or ColdFusion Developer, deploy the CAR file.
    - In the ColdFusion Administrator (http://localhost:8500/CFIDE/administrator/ for the default standalone installation), navigate to Packaging & Deployment > ColdFusion Archives and browse to and deploy one of the CAR files.
    - In the Deploy Wizard, change the deploy locations to reflect the locations of the db and wwwroot folders on your server. For example, on a Mac: /Applications/ColdFusion9/wwwroot/TestDrive and on Windows: /Applications/ColdFusion9/db/testdrive or C:\ColdFusion9\wwwroot\TestDrive and C:\ColdFusion 9\db\testdrive.
    - After deploying, check that you have a new data source called testdrive_db and a new folder in wwwroot called TestDrive. If your datasource verification

fails, delete the datasource and recreate it: testdrive_db, Apache Derby Embedded, and point to the /ColdFusion/db/testdrive database just installed.

3. If you have ColdFusion Standard, you need to manually place the server files and create a datasource.
    - Unzip testdrive.zip. It contains TestDrive and db folders.
    - Place the TestDrive folder in the ColdFusion webroot, /ColdFusion/wwwroot/.
    - Open the db folder. It contains a folder called testdrive.
    - Place this testdrive folder in the ColdFusion db folder, /ColdFusion/db/.
    - In the ColdFusion Administrator (http://localhost:8500/CFIDE/administrator/ for the default standalone installation), navigate to Data & Services > Data Sources and create a new data source called testdrive_db with an Apache Derby Embedded driver and the database folder set to the testdrive folder you just placed in the /ColdFusion/db/ folder.
4. Open /ColdFusion/wwwroot/TestDrive/services/EmployeeService.cfc in an editor and examine the code. This class file contains the methods you will call from your Flex application. Note that the methods have the access argument set to remote so that they can be called from a Flex application.
5. Open /ColdFusion/wwwroot/WEB-INF/flex/services-config.xml in an editor. This file is used when calls are made to the server from your application. Locate the <property-case> tag and change all three values to true as shown below.

```
<property-case>
        <!-- cfc property names -->
        <force-cfc-lowercase>true</force-cfc-lowercase>
        <!-- Query column names -->
        <force-query-lowercase>true</force-query-lowercase>
        <!-- struct keys -->
        <force-struct-lowercase>true</force-struct-lowercase>
    </property-case>
```

Note: If you are using an earlier version of ColdFusion, your configuration file may not have these tags and you will need to add them. See the documentation on using Flash Remoting with your particular server.

6. Restart the ColdFusion server.
7. Test the setup by browsing to http://{your server:your port}/TestDrive/test/test.html. For this default standalone ColdFusion installation,

browse to http://localhost:8500/TestDrive/test/test.html. You should see employee data from the database successfully displayed in a datagrid.

Test Drive setup for Java

1. Unzip testdrive_setup_JAVA.zip. It contains a WAR file (testdrive.war) for a web application called testdrive.
2. Deploy the WAR file to your web server. It contains the Java classes, an Apache Derby embedded database, and BlazeDS 4 files.
3. Open /{your server wepapps folder}/testdrive/WEB-ING/src/services/EmployeeService.java in an editor. This class file contains the methods you will call from your Flex application. It must have a no argument constructor.

   Note: For Windows, the ConnectionHelper.java file assumes the testdrive web app is deployed on the C drive. If it is not deployed on the C drive, you need to modify this file appropriately and recompile it, replacing /{your server wepapps folder}/testdrive/WEB-ING/classes/services/ConnectionHelper.class.

4. Open /WEB-INF/flex/remoting-config.xml in an editor and examine the code. Notice the definition for the destination called employeeService which points to the services.EmployeeService class.
5. Test the setup by browsing to http://{your server:your port}/testdrive/test/test.html. For example, for the BlazeDS turnkey server, browse to http://localhost:8400/testdrive/test/test.html. You should see employee data from the database successfully displayed in the datagrid.

Test Drive setup for PHP

1. Unzip testdrive_setup_PHP.zip. It contains TestDrive and Database folders.
2. Create a testdrive_db database on your MySQL installation using the testdrive_db.sql file located in the Database folder. If you do not have permissions to create a database, use the testdrive_table.sql file instead to create two tables in an existing database. After the database is created, set user privileges for it.
3. Move the TestDrive folder, which contains the PHP service file, to your PHP server.
4. Open /TestDrive/test/test.php in an editor and change the username, password, server, and databasename properties to the correct values for your server setup. Test the setup by browsing to http://{your server:your port}/TestDrive/test/test.html. For example, browse to

http://localhost/TestDrive/test/test.html. You should see a list of the names of the employees in the database successfully displayed.

5. Open /TestDrive/services/EmployeeService.php in an editor and change the username, password, server, port, and databasename properties to the correct values for your server setup. This class file contains the methods you will call from your Flex application.