

**Instructions for creating a
Firebird 2.1.2 Data Source
in
ColdFusion 9/ColdFusion Builder 1
on a
Microsoft Windows XP Pro platform**

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Based on original instructions supplied by

**Mike Hickman via Yahoo, and
Adam Cameron via Adobe.**

*This document was created using OpenOffice 3.1.0 Build 9399 and exported to .pdf
A custom paper size is used to provide a clear view of the included screen images*

Task

Make my very first ColdFusionBuilder 9 project, and connect it to Firebird 2.1.2.
Following the video: http://labs.adobe.com/technologies/coldfusion9/videos/bforta_03/

THE PROBLEM

Connecting ColdFusion to an ODBC data source is documented sufficiently enough that I was able to create a data source that worked for CFB1, but only in design time. The CF9 project would not run because something called "Hibernate" complained that it needed to know the dialect of the FB database. The dialect is 3, and that value is entered into the ODBC properties in Windows, however, I guess Hibernate is unable to get that value from the ODBC properties and, I don't know anything about Hibernate, or how to configure it so that it knows that the dialect is 3. So, I moved on to try and connect my CF9/CFB1 using the Firebird JDBC connection utility called Jaybird. Using ODBC would create "vendor lock in" to Microsoft Windows, which would be less than desirable to my customers, so perhaps it's good that this happened anyway.

THE SOLUTION (Caveat: This is only what I found works. There may be other better solutions)

Assumptions:

ColdFusion 9 has been installed, ColdFusion Builder 1 has been installed,
Firebird 2x has been installed and a user called COLDFUSION has been created, complete with a password.

- 1) Obtain the file: **Jaybird-2.1.6JDK_1.6.zip**
- 2) Unzip the file to it's own directory
- 3) Copy only the file: **jaybird-full-2.1.6.jar** to the folder: **C:\ColdFusion9\runtime\servers\lib**
- 4) **Reboot** your computer to allow CF to clear it's caches and load the jaybird classes.
- 4) Click XP menu choices: Start button-> All Programs-> Adobe-> Cold Fusion 9-> Administrator

Set up the CF9 Administrator as shown in the following images.
Be sure to read the last page with important instructions about how to set up your CF9 project.

Expand All / Collapse All

SERVER SETTINGS

- Settings
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Select this

DATA & SERVICES

- Data Sources**
- ColdFusion Collections
- Verity K2 Server
- Solr Server
- Migrate Verity Collections
- Web Services
- Flex Integration

DEBUGGING & LOGGING

SERVER MONITORING

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PACKAGING & DEPLOYMENT

Data & Services > Data Sources

Add and manage your data source connections and Data Source Names (DSNs). You use a DSN to connect ColdFusion to a variety of data sources.

Enter any name you choose for "Data Source Name" then select "other" as the "Driver. You can see that I already have cfBAA_jdbc set up. I'm creating another JDBC datasource here called cfKATO

Add New Data Source

Data Source Name

Driver

Add

Click "Add" when done.

Connected Data Sources

Actions	Data Source Name	Driver	Status
	cfartgallery	Apache Derby Embedded	
	cfBAA_jdbc	Firebird	
	cfBAA_odbc	ODBC Socket	
	cfbookclub	Apache Derby Embedded	
	cfcodeexplorer	Apache Derby Embedded	
	cfdocexamples	Apache Derby Embedded	

Verify All Connections

Expand All / Collapse All

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Data & Services > Datasources > Other

cfKATO

CF Data Source Name	<input type="text" value="cfKATO"/>
JDBC URL	<input type="text" value="jdbc:firebirdsql://localhost/c:\firebird\db\kato.fdb"/>
Driver Class	<input type="text" value="org.firebirdsql.jdbc.FBDriver"/>
Driver Name	<input type="text" value="Firebird"/>
User name	<input type="text" value="COLDFUSION"/>
Password	<input type="password" value="....."/> (16-character limit)
Description	<input type="text" value="JDBC connection to KATO"/>

Fill in the fields as shown. Change kato.fdb to your own database name as appropriate. Driver Class must be exactly as shown, note that it is "FBDriver" at the end, not "FBDrive".

Click "Show Advanced Settings" when these fields have been filled in.

Don't trust the dots! Re-enter the password even if it looks like CF or your browser has "remembered" the password.

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Find: insomnia Match case

You **DID** set up a user called COLDFUSION in the Firebird local server, as instructed at the start of this document right?

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JDBC connection to KATO

Description

Hide Advanced Settings

Submit

Cancel

Connection String

Limit Connections

Restrict connections to

Maintain Connections

-- Maintain connections across client requests.

Timeout (min)

20 Interval (min) 7

Disable Connections

-- Suspend all client connections.

Login Timeout (sec)

30

CLOB

-- Enable long text retrieval (CLOB).

BLOB

-- Enable binary large object retrieval (BLOB).

Long Text Buffer (chr)

64000

Blob Buffer(bytes)

64000

Disable Autogenerated Keys

-- Disable retrieval of autogenerated keys

Allowed SQL

- SELECT Create GRANT
- INSERT DROP REVOKE
- UPDATE ALTER Stored Procedures
- DELETE

Validation Query

SELECT * FROM KTO_SYS WHERE OBJ_RID = 1

Put a check in these two check boxes and add a validation query, something that will always return one record if the connection is working.

Click "Submit" when done.

Expand All / Collapse All

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Data & Services > Data Sources

Add and manage your data source connections and Data Source Names (DSNs). You use a DSN to connect ColdFusion to a variety of data sources.

Add New Data Source

Data Source Name

Driver

Connected Data Sources

Actions	Data Source Name	Driver	Status
	cfartgallery	Apache Derby Embedded	OK
	cfBAA_jdbc	Firebird	OK
	cfBAA_odbc	ODBC Socket	OK
	cfbookclub	Apache Derby Embedded	OK
	cfcodeexplorer	Apache Derby Embedded	OK
	cfdoexamples	Apache Derby Embedded	OK
	cfKATO_jdbc	Firebird	OK

The new Data Source is listed. (I appended _jdbc for clarity). Clicking "Verify all Connections" will produce the OKs you see under "Status"

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You can now log out of the administrator and use the new data source to connect your ColdFusion 9 project(s).

SPECIAL INSTRUCTIONS FOR YOUR CF9 PROJECTS

Watch the video:

http://labs.adobe.com/technologies/coldfusion9/videos/bforta_03/

When Ben Forta gets to the part about constructing the file called

Application.cfc

There is one extra line needed. Make the text look as follows:

```
<cfcomponent>
  <cfset this.datasource="cfBAA_jdbc">
  <cfset this.ormenabled=TRUE>
  <cfset this.ormsettings.dialect="org.hibernate.dialect.FirebirdDialect">
</cfcomponent>
```

You must include the last "cfset" line or else Hibernate will complain that it doesn't know what the dialect is. Note that the first "cfset" line is set to my own "cfBAA_jdbc", of course you will change the data source name to your own data source name.

CONCLUSION

If this doesn't work first try, you may have to stop/start the local host (or other connected) server within ColdFusion, (See the bottom tab labeled "Servers" in CFB1) or even stop/start the ColdFusion Application Server Service in Windows, or even do one more reboot of your PC.

I was able to get data returned during runtime, which solves my original problem.

----- **END OF DOCUMENT** -----