

# **Installing and Configuring Firebird (Interbase) with Enhydra 5.1**

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# Chapter 1. Background

Borland (Inprise) has made the source code of the Interbase [<http://www.interbase.com/>] RDBMS engine version 6.0 available as an "open-source" project [<http://www.borland.com/devsupport/interbase/opensource/>]. There, you can find binaries and source codes for this version of Interbase. Unfortunately, Borland has also decided to not release free binaries of next versions (7.0 and later) of Interbase. This is one of the main reasons which led to the creation of the Firebird [<http://firebird.sourceforge.net/>] project.

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## Chapter 2. Installing Firebird (Interbase)

For Windows users, the easiest way to install Firebird or Interbase is to download a compiled installation script from the IBInstall [<http://ibinstall.defined.net/>] site. You just have to run the installation program and follow the instructions. Other users should follow the instructions found at the Firebird [<http://firebird.sourceforge.net/>] or Interbase [<http://www.borland.com/devsupport/interbase/opensource/>] site.

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# Chapter 3. Installing InterClient (JDBC driver)

The Interbase JDBC driver, called InterClient, talks to an intermediary server (InterServer) that talks to the Firebird/Interbase server. All three processes (Firebird/Interbase server, InterServer and InterClient) can run on different computers. You can find the InterClient/InterServer software on the Open-source Interbase [<http://www.borland.com/devsupport/interbase/opensource/>] site. You should download the version corresponding to your JDK. Note that InterClient and InterServer versions should match to work correctly.

After installing the InterClient software, you must add the "interclient.jar" file to your system CLASSPATH.

If you are using JDK 1.3.x, you should replace the "interclient.jar" with a version compiled with JDK 1.3.

Note : The 2.01 version of InterClient has been released by the Firebird [<http://firebird.sourceforge.net/>] project. This version should solve all problems relating to JDK 1.3. Download available in the Firebird directory of Sourceforge [<http://sourceforge.net/projects/firebird/>].

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# Chapter 4. Configuring DODS

You should modify the Standard database parameters in the "dods.conf" file in this way :

```
Database.OidDbType.Standard= "DECIMAL(9,0)"  
Database.VersionDbColumnName.Standard= "ObjectVersion"  
Database.DeleteCascade.Standard= true  
Database.StringQuoteCharacter.Standard= '  
Database.StringMatch.Standard= "LIKE"  
Database.StringWildcard.Standard= "%"  
Database.JDBCtype.BIT.Standard= "SMALLINT"  
Database.JDBCtype.TIME.Standard= "DATE"  
Database.JDBCtype.TIMESTAMP.Standard= "DATE"
```

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# Chapter 5. Configuring your Enhydra applications

You should add the "interclient.jar" file to your application CLASSPATH in the corresponding "start.in" file under the "Build up classpath" section (see the "Getting Started with Enhydra" [../getting\_started/pdf/getting-started.pdf] book for more information) :

```
# Build up classpath.
#
CLASSPATH=/firebird/interclient/interclient.jar
export CLASSPATH
```

Now you have to configure the database manager for your application in this way in the "application.conf.in" file ("simpleApp" being the name of your database) :

```
#-----
# Database Manager Configuration
#-----
DatabaseManager.Databases[] = "simpleApp"
DatabaseManager.DefaultDatabase = "simpleApp"
DatabaseManager.Debug = "false"
DatabaseManager.VersionColumnName = "ObjectVersion"
DatabaseManager.DB.simpleApp.ClassType = "Standard"
DatabaseManager.DB.simpleApp.JdbcDriver =
    "interbase.interclient.Driver"
DatabaseManager.DB.simpleApp.Connection.Url =
    "jdbc:interbase://loopback/d:/projets/dba/simpleapp.gdb"
DatabaseManager.DB.simpleApp.Connection.User = "SYSDBA"
DatabaseManager.DB.simpleApp.Connection.Password = "masterkey"
DatabaseManager.DB.simpleApp.Connection.MaxPoolSize = 30
DatabaseManager.DB.simpleApp.Connection.AllocationTimeout = 10000
DatabaseManager.DB.simpleApp.Connection.Logging = "false"
DatabaseManager.DB.simpleApp.ObjectId.CacheSize = 20
DatabaseManager.DB.simpleApp.ObjectId.MinValue = 1
```

You can find more information on each parameter in the "Getting Started with Enhydra" [../getting\_started/pdf/getting-started.pdf] book or in the "Configuring Enhydra 5.1 to use Interbase" ( [html \[configuring\\_enhydra\\_to\\_use\\_interbase.html\]](#) , [pdf \[configuring\\_enhydra\\_to\\_use\\_interbase.pdf\]](#) ) documentation.

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# Chapter 6. Resources

- Interbase.com [<http://www.interbase.com/>]
- Open-source Interbase [<http://www.borland.com/devsupport/interbase/opensource/>]
- Interbase Community [<http://community.borland.com/interbase/>]
- Interbase2000.org [<http://www.interbase2000.org/>]
- Firebird [<http://firebird.sourceforge.net/>]
- IBPhoenix.com [<http://www.ibphoenix.com/>]
- IBInstall [<http://ibinstall.defined.net/>]
- Interbase FAQ [<http://www.mers.com/faqinterbase.html>]
- Getting Started with Enhydra [[./getting\\_started/pdf/getting-started.pdf](#)]
- Configuring Enhydra 5.1 to use Interbase ( [html \[configuring\\_enhydra\\_to\\_use\\_interbase.html\]](#) , [pdf \[configuring\\_enhydra\\_to\\_use\\_interbase.pdf\]](#) )