



TEMENOS™

TAFJ-H2 Install

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Temenos



Amendment History:

Revision	Date Amended	Name	Description
11	1 st April 2011	TAFJ team	Initial version
11.1	5 th September 2011	H. Aubert	JDK 32 bits – XMX parameters
12	7 st February 2012	H. Aubert	R12GA review
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Errata and Comments

If you have any comments regarding this manual or wish to report any errors in the documentation, please document them and send them to the address below:

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Introduction

This document will show all the steps to configure H2 database, ready to be used by T24 with TAFJ.

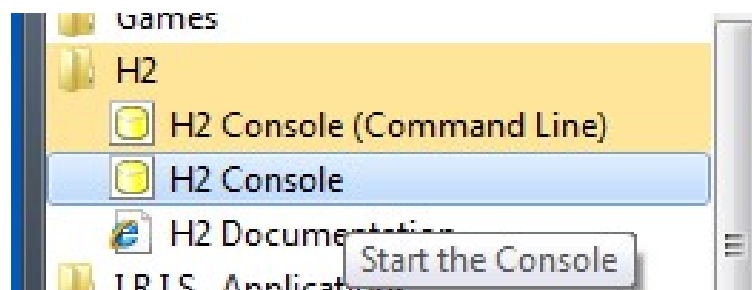
Download the database H2 from the URL : <http://www.h2database.com/html/main.html>

Install H2

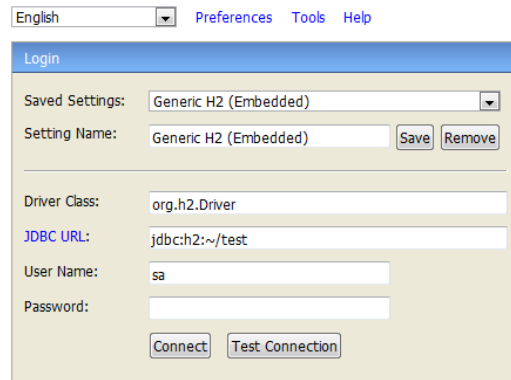
Please refer to the product documentation for the install.

Check Installation

On the windows menu, select “**H2 Console**”



You Navigator open automatically the URL : <http://localhost:8082/login.jsp?>



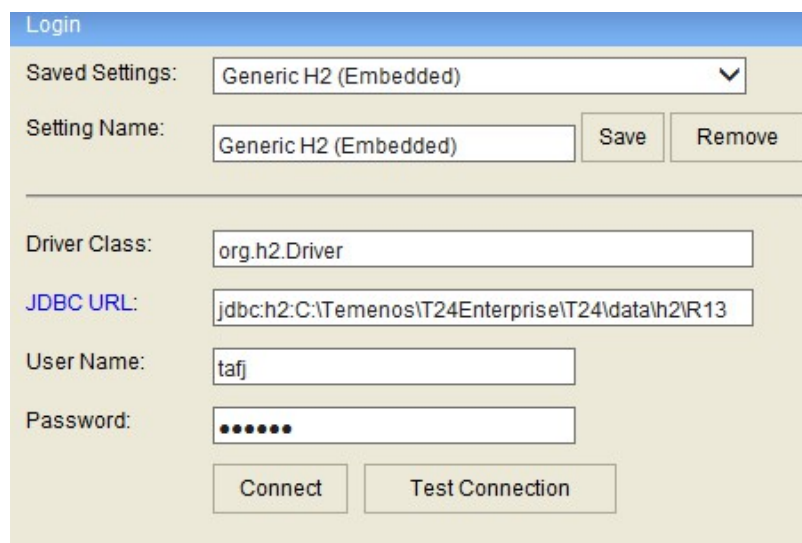
Create a new database with a user and a password.

JDBC URL: jdbc:h2:<path_of_database>\<database_name>

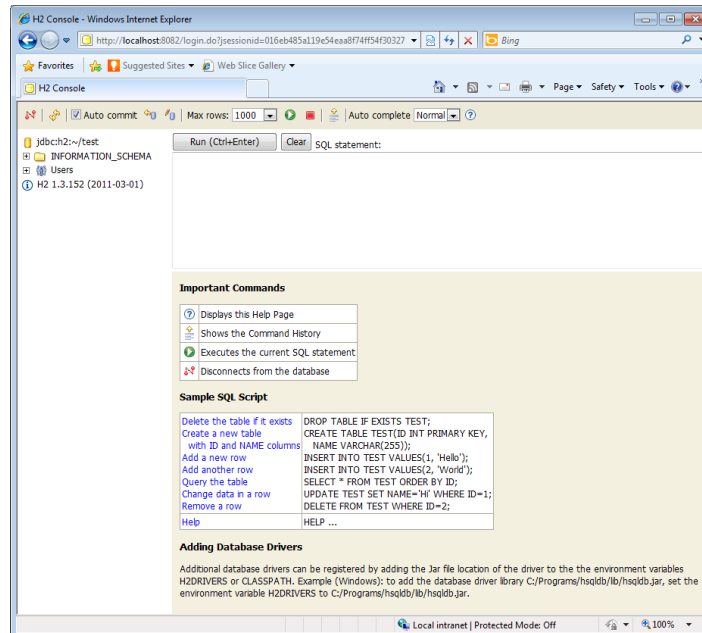
User Name: tafj

Password: secret

i.e



Press "Connect"



Your Database works successfully.

Stop H2 for the next process.

Load the necessary stored functions

1. Copy from <TAFJ_HOME> \dbscripts\h2 all files to <H2_HOME>\bin
2. Copy from <H2_HOME>\bin\H2*.jar to <TAFJ_HOME>\ext
3. Edit the file <H2_HOME>\bin\h2.bat and h2w.bat to add to the classpath TAFJFunctions.jar. (TAFJFunctions.jar can be found in <TAFJ_HOME> \dbscripts\h2)

If the JDK is a 32 bits, add -Xmx1024M -XX:MaxPermSize=256M, so you won't run out of memory.

i.e.

```
@java -Xmx1024M -XX:MaxPermSize=256M -cp
```

```
"h2-1.3.152.jar;TAFJFunctions.jar;%H2DRIVERS%;%CLASSPATH%" org.h2.tools.Console  
%*
```

On the windows menu, select “H2 Console” again.

This time connect as a server:

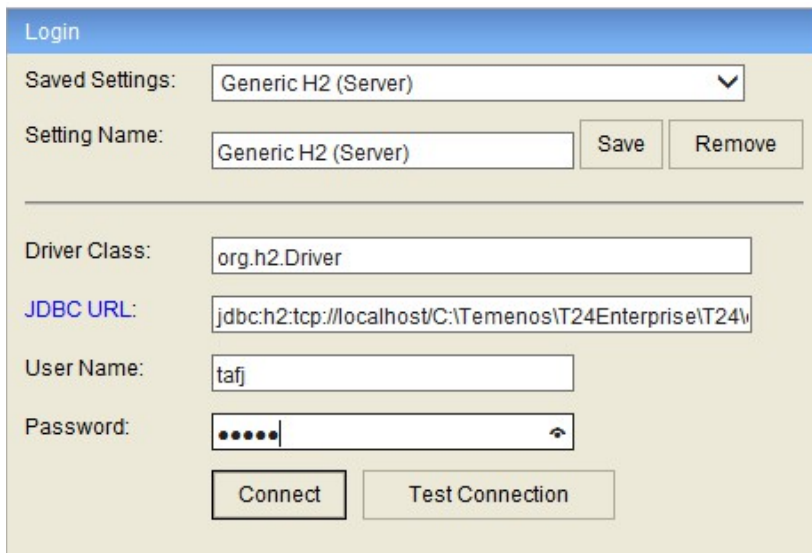
JDBC URL:

`jdbc:h2:tcp://localhost/<path_of_database>\<database_name>`

User Name: tafj

Password: secret

i.e



From the command line :

```
Cd <H2_HOME>\bin
```

```
tCreatedB
```

The name of the database is : `<path_of_database>\<database_name>`

The username is the user used to create the database

The password is the password used to create the database


```
=====
This assistant will help you creating a H2 database ready to be used by TAFJ.
It will load the necessary stored functions as well as creating a default (empty)
TAFJ_VOC Table
```

```
Press <ENTER> to Continue.
```

```
Location : C:/Temenos/T24Enterprise/3rdParty/db/h2/h2/bin
Please enter the database Name to create or update : (Default : 'TAFJDB')
C:\Temenos\T24Enterprise\T24\data\h2\R13
Connecting using :
jdbc:h2:tcp://localhost/C:\Temenos\T24Enterprise\T24\data\h2\R13
UserName :
tafj
Password :
secret
Do you want to set the database in single bytes Separator mode ?
Single Char Separator : (Default : 'No')
Single Char Separator : (Default : 'No')
```

```
Defining TAFJ Functions .....
```

```
Creating : tafjexistsCol FOR "com.temenos.dbi.storedfunctions.BasicFunctions.existsCol";
Creating : tafjor FOR "com.temenos.dbi.storedfunctions.BasicFunctions.OR";
Creating : tafjand FOR "com.temenos.dbi.storedfunctions.BasicFunctions.AND";
Creating : tafjcase FOR "com.temenos.dbi.storedfunctions.BasicFunctions.CASE";
.
.
.
.
.
Creating : tafjdate FOR "com.temenos.dbi.storedfunctions.BasicFunctions.DATE";
Creating : tafjsum FOR "com.temenos.dbi.storedfunctions.BasicFunctions.SUM";
Creating : FM FOR "com.temenos.dbi.storedfunctions.BasicFunctions.FM";
Creating : VM FOR "com.temenos.dbi.storedfunctions.BasicFunctions.VM";
Creating : SM FOR "com.temenos.dbi.storedfunctions.BasicFunctions.SM";
Creating : TAFJRIGHTJUSTIFY FOR
"com.temenos.dbi.storedfunctions.BasicFunctions.TMS_RIGHTJUSTIFY";
```

```
Finished.
```

```
In order to use the newly created database, you need to make sure that your tafj.properties
file
```

```
contains the following values :
```

```
temn.tafj.jdbc.url           =
jdbc:h2:tcp://localhost/C:\Temenos\T24Enterprise\T24\data\h2\R13
temn.tafj.jdbc.driver        = org.h2.Driver
temn.tafj.jdbc.username      = tafj
temn.tafj.jdbc.password      = secret
```

```
You can run a DBImport on this database. The format have to be CLOB and not XML
```

Copy in your TAFJ properties file the properties given by **tCreateDB** in red.

Your database is ready to receive the T24 data.

Appendix – Create H2 database with maven

Please refer to the TAFJ MAVEN PLUGIN documentation to get started on how creating a TAFJ maven project to run a DBImport.

The following pom.xml sample will allow you to create an H2 database from scratch, load the java stored function and run the DBImport based on the VOC you specify in the configuration section.

Run the following command to execute the DBImport.

mvn install -P h2

You have to use the profile -P h2 if you want to use the tafj-pom-parent predefined dependency on h2 library (1.3.172).

This version could be overridden with the tag `<h2Version>1.3.172</h2Version>` in the properties section of the pom.

Otherwise if you don't use the h2 profile, you will have to add under your TAFJ_HOME/ext folder the h2-XXX.jar version of your choice.

```
<project xmlns="http://maven.apache.org/POM/4.0.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
    http://maven.apache.org/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>

  <!-- THIS PARENT PROJECT HAS TO BE USED TO HAVE THE CORRECT DEFINITION OF
  THE tafj-maven-plugin -->
  <!-- ALL MAVEN PROJECTS DEPENDING ON tafj-maven-plugin SHOULD INHERIT FROM
  THIS POM PARENT -->
  <parent>
    <groupId>com.temenos.tafj</groupId>
    <artifactId>tafj-maven-parent</artifactId>
    <version>0.1.0</version>
  </parent>

  <!-- MAVEN PROJECT EXAMPLE TO DEMONSTRATE TAFJ MAVEN PLUGIN -->
  <!-- YOU COULD OVERRIDE ALL PARAMETERS BELOW, groupId, name, artifactID,
  version WITH YOUR OWN VALUES -->
  <groupId>com.temenos.tafj</groupId>
  <name>TAFJMavenH2DBImport</name>
  <artifactId>TAFJMavenH2DBImport</artifactId>
  <version>0.0.1-SNAPSHOT</version>

  <properties>
    <!-- Path to TAFJ_HOME -->
    <tafjHome>${basedir}/target/tafjHome</tafjHome>
```

```
<!-- H2 version defined in tafj-pom-parent could be overriden here -->
<!--<h2Version>1.3.172</h2Version> -->
</properties>

<build>
  <plugins>
    <plugin>
      <groupId>com.temenos.tafj</groupId>
      <artifactId>tafj-maven-plugin</artifactId>
      <executions>
        <execution>
          <goals>
            <goal>dbimport</goal>
          </goals>
          <configuration>
            <tafjHome>${tafjHome}</tafjHome>
            <createDefaultDB>true</createDefaultDB>
            <dbImportProperties>
              <Url>jdbc:h2:${tafjHome}/h2/Data/DEMODB</Url>
              <Driver>org.h2.Driver</Driver>
              <User>tafj</User>
              <Password>tafj</Password>
              <!-- Add a path to a VOC file -->
              <VocFile>C:\ModelBank\R13GA\bnk\bnk.run\VOC</VocFile>
              <UserDirectories>${tafjHome}/h2/Data/UD</UserDirectories>
              <ClearTables>Yes</ClearTables>
              <Layout>STRING</Layout>
            </dbImportProperties>
          </configuration>
        </execution>
      </executions>
    </plugin>
  </plugins>
</build>
</project>
```