



JDBC Connection

E Team **Crystal Reports 2016**

Product Version R9.7 | July 6, 2017

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E Team Release 9.7 – Embedded Reports Viewer

NC4's release of E Team R9.7 contains an embedded report viewer. When using this viewer all reports should be configured to use a JDBC connection. This document provides instructions for setting up a JDBC connection in Crystal 2016. This is a multi-step process that includes:

- Downloading sqljdbc4.jar driver.
- Editing CRConfig.xml.
- Creating new data connection in Crystal 2016.

How to Install JDBC Driver into Crystal Reports

1. Download **sqljdbc4.jar** driver. It is actually a .jar file when you unzip the Source file.
2. Place just the **sqljdbc4.jar** in the following folder: C:\Program Files (x86)\SAP BusinessObjects\Crystal Reports\java\lib\external.
Just the single .jar file.
3. Now got to C:\Program Files (x86)\SAP BusinessObjects\SAP BusinessObjects Enterprise XI 4.0\java\CRConfig.xml
4. Open this file in something like Notepad++ because you are going to modify the .xml file
5. Add the following line showing where the sqljdbc4.jar file is: "C:\Program Files (x86)\SAP BusinessObjects\Crystal Reports\java\lib\external\sqljdbc4.jar";
6. The section in the .xml should look like this (it is the last greyed entry):

```

9 <CommonBinDir>C:\Program Files (x86)\SAP BusinessObjects\SAP BusinessObjects Enterprise XI 4.0\bin\</CommonBinDir>
10
11 <Javaserver-configuration>
12 <DataDriverCommon>
13 <JavaDir32>C:\Program Files (x86)\SAP BusinessObjects\SAP BusinessObjects Enterprise XI 4.0\win32_x86\saajvm\bin\</JavaDir32>
14 <JavaDir64>C:\Program Files (x86)\SAP BusinessObjects\SAP BusinessObjects Enterprise XI 4.0\win64_x64\saajvm\bin\</JavaDir64>
15 <Classpath>C:\Program Files (x86)\SAP BusinessObjects\SAP BusinessObjects Enterprise XI 4.0\java\lib\external\log4j.jar;C:\Program Files (x86)\SAP BusinessObjects\SAP BusinessObjects Enterprise XI 4.0\java\lib\external\CRDBJDBCServer.jar;C:\Program Files (x86)\SAP BusinessObjects\SAP BusinessObjects Enterprise XI 4.0\java\lib\external\CRDBXMLServer.jar;C:\Program Files (x86)\SAP BusinessObjects\SAP BusinessObjects Enterprise XI 4.0\java\lib\external\CRDBWicServer.jar;C:\Program Files (x86)\SAP BusinessObjects\SAP BusinessObjects Enterprise XI 4.0\java\lib\external\CRDBWicExternal.jar;C:\Program Files (x86)\SAP BusinessObjects\SAP BusinessObjects Enterprise XI 4.0\java\lib\external\CRDBXMLExternal.jar;"C:\Program Files (x86)\SAP BusinessObjects\Crystal Reports\java\lib\external\sqljdbc4.jar";</Classpath>
16 </DataDriverCommon>

```

7. Now you will modify a few more lines:
 - a. Edit **JDBCURL** tag to put database server url. E.g. jdbc:sqlserver://Your Database Name\\Your E Team Instance Name:1433

- b. My Db Server name you can get from your Database Admin, and the Instance name is in your eteam URL. Example: Demo.nc4d.com/**eteam**, eteam is the instance name. The :1433 is the secure port for E Team.
- c. Should look something like this:
`<JDBCURL>jdbc:sqlserver://WIN-LUP5JAO2VK6\eteam:1433</JDBCURL>`
- d. Edit the **JDBCClassName** tag to update driver classname.
`com.microsoft.sqlserver.jdbc.SQLServerDriver`
- e. Should look like this:
`<JDBCClassName>com.microsoft.sqlserver.jdbc.SQLServerDriver</JDBCClassName>`
- f. Edit **JDBCUserName** tag to enter user name for SQLserver. It is usually **eteam**.
- g. Should look like this: `<JDBCUserName>eteam</JDBCUse`
- h. The finished product should look like this:

```

27 </DataDriverCommon>
28 <JDBC>
29   <CacheRowsetSize>100</CacheRowsetSize>
30   <JDBCURL>jdbc:sqlserver://WIN-LUP5JAO2VK6\eteam:1433</JDBCURL>
31   <JDBCClassName>com.microsoft.sqlserver.jdbc.SQLServerDriver</JDBCClassName>
32   <JDBCUserName>eteam</JDBCUserName>
33   <JNDIURL></JNDIURL>
34   <JNDIConnectionFactory></JNDIConnectionFactory>

```

- i. Save the updated CRconfig.xml file.
- j. Open Crystal Reports 2016, and create a new data connection on a **new** report. Select JDBC, enter the eteam password for the Database, and select the database you are going to use. You should get a result, scroll down to DBO and you will see tables and views.