# Deploying JDBC drivers in PI 7.1x Systems



## **Applies to:**

SAP NetWeaver Process Integration 7.1x.

## **Summary**

This paper describes the procedure to deploy MS SQL 2005 JDBC 3.0 drivers on PI 7.1x systems. Also, the same document can be followed to deploy any other drivers (like OJDBC, JMS, etc.) as well, since the underlying procedure is the same for all drivers.

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#### **Author Bio**



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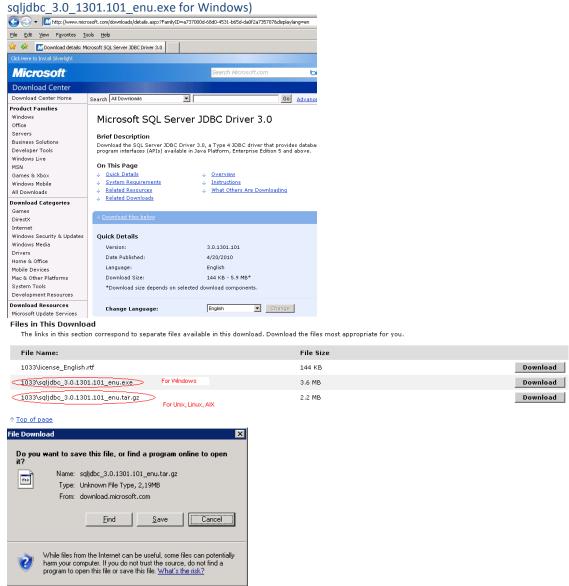
#### Introduction

This document describes the deployment steps for MS-SQL JDBC driver 3.0 onto SAP NetWeaver PI 7.1x systems, but can be used for deployment of any drivers since the underlying procedure is the same.

#### **Procedure**

1. Download the SQL JDBC 3.0 drivers file from

 $\frac{\text{http://www.microsoft.com/downloads/details.aspx?FamilyID=a737000d-68d0-4531-b65d-da0f2a735707\&displaylang=en}{\text{(sqljdbc\_3.0\_1301.101\_enu.tar.gz for Unix and}}$ 



2. Unzip the Unix version using gunzip command as follows:

```
      gunzip 

      > gunzip sqljdbc_3.0.1301.101_enu.tar.gz

      > ls -1

      total 17040

      -rwxrwxrwx 1
      sapsys 8704000 Jun 15 11:09 sqljdbc_3.0.1301.101_enu.tar
```

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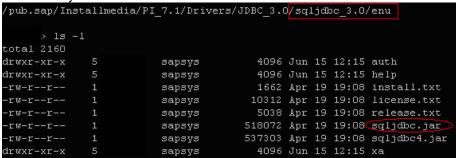
SDN - sdn.sap.com | BPX - bpx.sap.com | BOC - boc.sap.com | UAC - uac.sap.com

 Untar the .tar file obtained in the previous step: tar -xvf <filename.tar>

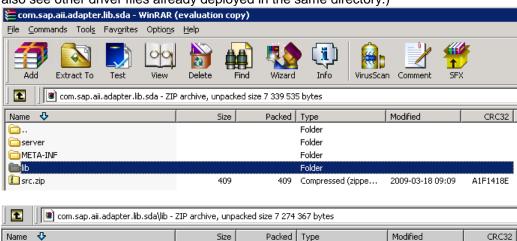
```
> tar -xvf sqljdbc_3.0.1301.101_enu.tar
sqljdbc_3.0/enu/auth/I&64/sqljdbc_auth.dll, 174472 bytes, 341 tape blocks
sqljdbc_3.0/enu/auth/x64/sqljdbc_auth.dll, 86408 bytes, 169 tape blocks
sqljdbc_3.0/enu/auth/x86/sqljdbc_auth.dll, 69000 bytes, 135 tape blocks
sqljdbc_3.0/enu/help/default.htm, 547 bytes, 2 tape blocks
sqljdbc_3.0/enu/help/html/002496f7-8ec0-4267-b4e6-ba095e2ef306.htm, 6971 bytes, 1
sqljdbc_3.0/enu/help/html/0041f9e1-09b6-4487-b052-afd636c8e89a.htm, 7644 bytes, 1
sqljdbc_3.0/enu/help/html/00f9e25a-088e-4ac6-aa75-43eacace8f03.htm, 11700 bytes,
```

```
> 1s -1
total 17048
drwxr-xr-x 3 sapsys 4096 Jun 15 12:15 sqljdbc_3.0
```

4. This extracts the files under the directory **sqljdbc\_3.0** and gives you the **sqljdbc.jar** file in the subdirectory **enu**.



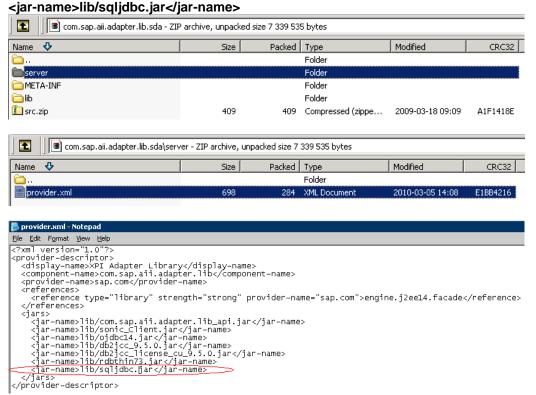
5. Add the **sqljdbc.jar** file to the **lib** sub-directory of the sda file **com.sap.aii.adapter.lib.sda**. (You can also see other driver files already deployed in the same directory.)



Saprali, adapter. iib. sda (iib - 21P archive, unpacked size / 274 367 bytes					
Name ♣	Size	Packed	Туре	Modified	CRC32
<u></u>			Folder		
sqljdbc.jar	518 072	484 613	Executable Jar File	2010-04-19 20:08	80B770FE
<u> </u>	1 253 490	1 141 831	Executable Jar File	2009-03-20 11:34	759928AD
	494 837	485 354	Executable Jar File	2010-03-04 11:03	BA682504
📤 ojdbc14.jar	1 545 954	1 464 091	Executable Jar File	2009-03-17 17:54	C6164AB7
📤 db2jcc_license_cu_9.5.0.jar	1 015	645	Executable Jar File	2009-03-26 09:40	8F0AF19A
<u></u> db2jcc_9.5.0.jar	2 833 724	2 683 326	Executable Jar File	2009-03-26 09:40	16613D5C
🕍 com.sap.aii.adapter.lib_api.jar	901	753	Executable Jar File	2009-03-18 09:09	9D9221B4

SAP COMMUNITY NETWORK SDN - sdn.sap.com | BPX - bpx.sap.com | BOC - boc.sap.com | UAC - uac.sap.com

6. Edit the file **provider.xml** which is in the **server** sub-directory of the sda file and add an entry for the sqljdbc.jar file similar to other .jar files:

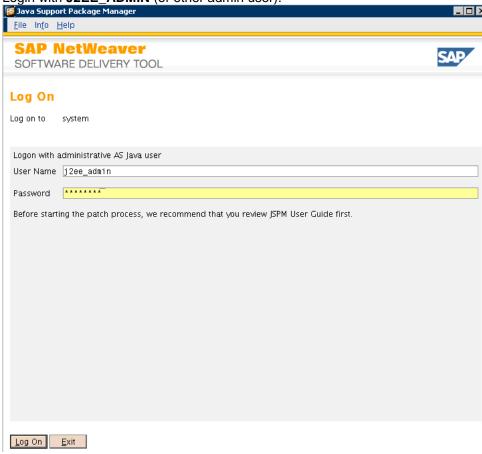


- 7. Save the updated SDA file com.sap.aii.adapter.lib.sda and copy it to the /usr/sap/trans/EPS/in directory on the server where it is to be deployed.
- 8. Start JSPM from /usr/sap/<SID>/<INSTANCE>/j2ee/JSPM directory using the following command: go "-config=/jspm/forceMode=true" "-config=/jspm/deployVersionRule=updateAII"

sidadm > ./go "-config=/jspm/forceMode=true" "-config=/jspm/deployVersionRule=updateAll" Current log directory is /usr/sap/<mark>eSD></mark>/DVEBMGSO4/j2ee/JSPM/log/log\_2010\_06\_14\_10\_41\_28. Waiting for SDTServer to connect ...

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Login with J2EE\_ADMIN (or other admin user).



10. Select "Hot Fixes" and click Next.



To apply a Support Package Stack, we recommend that you select the "Support and Enhancement Package Stack" option. Otherwise, your system might become inconsistent. For step by step description of the update procedure, see respective Support Package Stack Guide

The Inbox directory is /usr/sap/trans/EPS/in.

#### Select a package type to apply

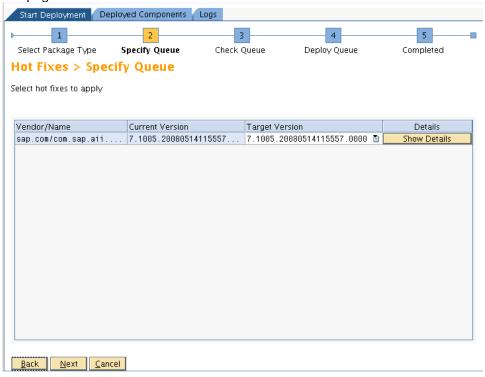
- O Support and Enhancement Package Stack
- O Java Support Package Manager (JSPM)
- O Single Support Packages and Patches (advanced user only)

  Hot Fixes
- O New Software Components
- O Business Packages (advanced user only)
- Additional Usage Type Installation (advanced user only)

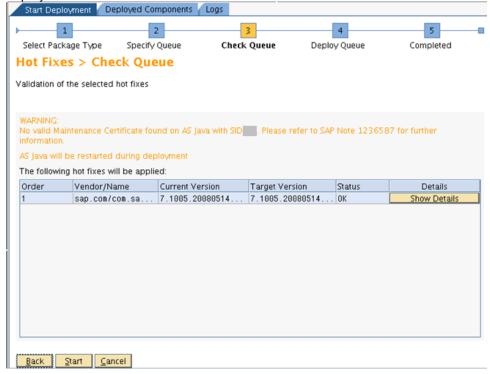
This system is not under NWDI control.

<u>N</u>ext <u>C</u>ancel

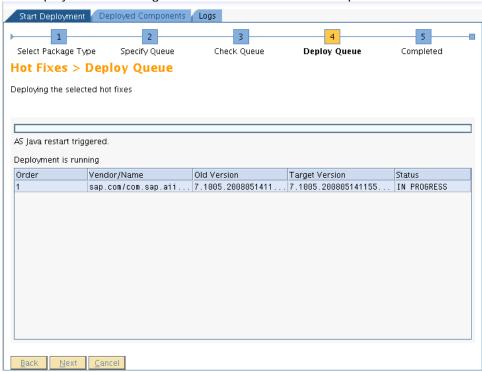
11. Under **Specify Queue**, the component sap.com/com.sap.aii.adapter.lib will be listed. Click **Next** on this page.



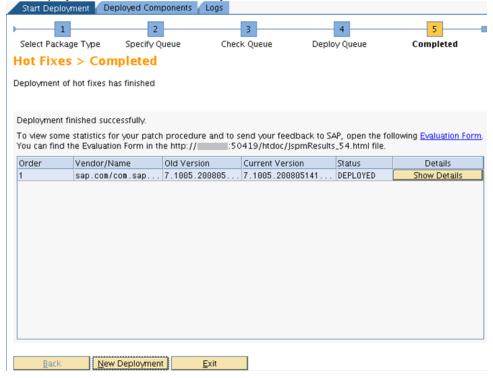
12. On the **Check Queue** page, make sure the **Status** column is reading **OK** and click **Start** to start the deployment.



13. The deployment is running and AS Java is restarted in the process.



14. The deployment finishes successfully and the status reads **DEPLOYED**.



15. The successfully deployed jar files can now be seen under the following path: /usr/sap/<SID>/<INSTANCE>/j2ee/cluster/bin/ext/com.sap.aii.adapter.lib/lib

```
/usr/sap/<SDD DVEBMGS04/j2ee/cluster/bin/ext/com.sap.aii.adapter.lib/lib
                                          901 Mar 05 07:52 com.sap.aii.adapter.lib_api.jar
2833724 Mar 05 08:03 db2jcc_9.5.0.jar
-rw-r--r--
                            sapsys
-rw-r--r--
                            sapsys
                                           1015 Mar 05 08:03 db2jcc_license_cu_9.5.0.jar
-rw-r--r--
                            sapsys
                                          1545954 Mar 05 07:52 ojdbc14.jar
494837 Jun 14 10:49 rdbthin73.jar
-rw-r--r--
                            sapsys
-rw-r--r--
                            sapsys
                                           1253490 Mar 05 08:03 sonic Client.jar
-rw-r--r--
                            sapsys
                                          518072 Jun 16 05:32 sqljdbc.jar
-rw-r--r--
                            sapsys
```

## **Related Content**

Refer to SAP Note 639702 - JDBC Driver for Microsoft SQL Server

Refer to SAP NetWeaver Process Integration 7.11 Library at <a href="http://help.sap.com/saphelp\_nwpi711/helpdata/en/c0/3930405fa9e801e100000000a155106/frameset.htm">http://help.sap.com/saphelp\_nwpi711/helpdata/en/c0/3930405fa9e801e100000000a155106/frameset.htm</a>

Visit SAP SDN Forums <a href="http://forums.sdn.sap.com">http://forums.sdn.sap.com</a> for further queries on SAP NetWeaver PI

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