

# Installation of the EP60 ZIP File with PDK

Oliver Stiefbold

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## Prerequisites

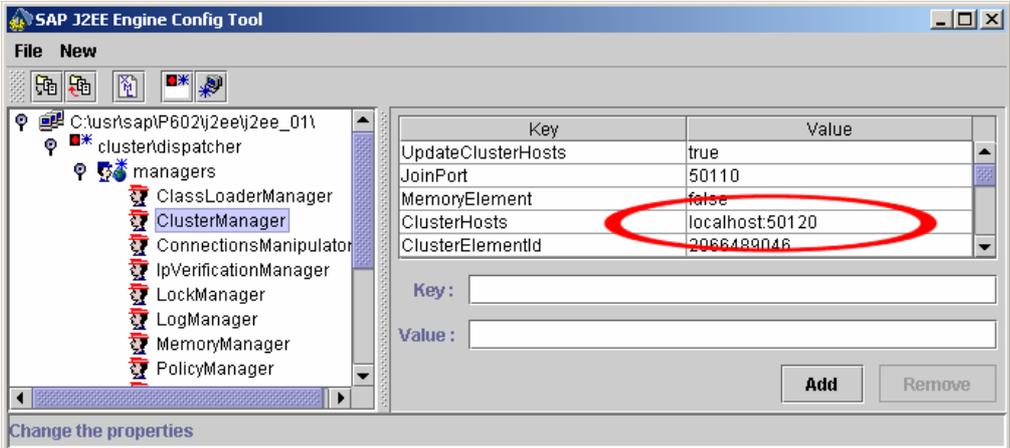
### Software:

Operating System	Windows 2000 or XP
SQL Server	<p>MS SQL Server on localhost (recommended master settings: user: sa, password: admin) <b>SP3, patch level SQL2000-KB810185-8.00.0844-ENU.exe and Unicode Hotfix!</b> (do not try anything else)</p> <p>In <i>Collation Settings</i> choose the SQL Collation <i>Binary Order, for use with the 850 (Multilingual) Character Set</i>.</p> <p>The environment 'PATH' variable should include the path of Query Analyzer of MS SQL Server (isqlw.exe). For example: PATH=%PATH%;C:\Program Files\Microsoft SQL Server\80\Tools\BINN Usually performed by the installation program of MS SQL Server.</p>
Java	<p>JDK 1.3.1_09 for EP60 SP2 Environment variable JAVA_HOME must be set. For example: JAVA_HOME=C:\jdk1.3.1_09</p>
Java IDE	<p>Eclipse is recommended. For further information on Eclipse please look at <a href="http://www.eclipse.org">www.eclipse.org</a></p>

### Hardware:

Memory	Minimum 512MB, 1GB is strongly recommended.
Size on disk	The package uses about 805 MB – 1 GB after unpacking.

## Making a ZIP for local Installation

1	Install portal from SAPINST on a standard machine according to installation guide.												
2	Apply patches and hotfixes from Service Market Place												
3	Configure basic settings and post installation steps as described in installations instructions												
4	<p>Start configtool and set R/3 Startup Service in dispatcher to manual (preferred by developers to start dispatcher and server separated ).</p> <p>Also set memorysetting of dispatcher to a realistic 20MB and server according to your needs to 364 – 800 MB (1,5 GB maximum under Windows).</p>												
5	<p>Also change the dispatcher hosts IP adress to <b>localhost</b> and "UpdateClusterHosts" to <b>false</b>. Otherwise you will cause network problems by moving EP from one machine to another.</p>  <p>The screenshot shows the SAP J2EE Engine Config Tool interface. On the left, a tree view shows the configuration hierarchy: C:\usr\sap\P602\j2ee\j2ee_01\cluster\dispatcher\managers\ClusterManager. The right pane displays a table of configuration properties:</p> <table border="1" data-bbox="718 952 1316 1108"> <thead> <tr> <th>Key</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>UpdateClusterHosts</td> <td>true</td> </tr> <tr> <td>JoinPort</td> <td>50110</td> </tr> <tr> <td>MemoryElement</td> <td>false</td> </tr> <tr> <td>ClusterHosts</td> <td>localhost:50120</td> </tr> <tr> <td>ClusterElementId</td> <td>2066489046</td> </tr> </tbody> </table> <p>Below the table, there are input fields for 'Key:' and 'Value:', and 'Add' and 'Remove' buttons. The 'ClusterHosts' value in the table is circled in red.</p>	Key	Value	UpdateClusterHosts	true	JoinPort	50110	MemoryElement	false	ClusterHosts	localhost:50120	ClusterElementId	2066489046
Key	Value												
UpdateClusterHosts	true												
JoinPort	50110												
MemoryElement	false												
ClusterHosts	localhost:50120												
ClusterElementId	2066489046												
6	<p>If using CM set config_local.properties under  C:\usr\sap\P602\j2ee\j2ee_00\cluster\server\services\servlet_jsp\work\jspTemp\irj\root\WEB-INF\portal\portalapps\com.sap.km.application\lib  according to your installation, suitable for other machines.</p> <p>Check (and change) KM configuration in the following files:</p> <p>C:\usr\sap\<instance_no&gt;\j2ee\j2ee_00\cluster\server\services\servlet_jsp\work\jsptemp\irj\root\web-inf\portal\portalapps\com.sap.km.application\lib\config_local.properties </instance_no&gt;\j2ee\j2ee_00\cluster\server\services\servlet_jsp\work\jsptemp\irj\root\web-inf\portal\portalapps\com.sap.km.application\lib\config_local.properties  check hostname=localhost:50000 and  check servletpath=C:/usr/sap/P601/global/config/cm</p> <p>C:\usr\sap\P601\j2ee\j2ee_00\cluster\server\services\servlet_jsp\work\jspTemp\irj\root\WEB-INF\portal\system\cm\cfw.properties and cm.properties :  System.SharedFolder=C:/usr/sap/P601/global/config/cm</p>												

7	Recommended step: Stop Enterprise Portal and SQL Server. Detach Databases for EP and KM (usually located SQL Server homedirectory) with SQL Server Enterprise Manager. Move DB files to /usr/sap/<sid>/mssql/
8	Add helper batch files and scripts. ZIP up /usr/sap/* and distribute

### **Install on 2<sup>nd</sup> desktop**

1	Move to new machine and unzip Attach Databases for Enterprise Portal and optionally KM Start portal Write installation instruction for your colleagues ;-).
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## Helpful batch files and scripts

### AttachDatabases.bat

( this is an sql server command line which executes AttachDatabases.sql)

```
echo Attaching portal databases ...  
call isqlw -S localhost -U sa -P admin -i mssql\AttachDatabases.sql -o attach.log
```

### DetachDatabases.bat

```
echo Detaching portal databases ...  
call isqlw -S localhost -U sa -P admin -i mssql\DetachDatabases.sql -o detach.log
```

### AttachDatabases.sql

```
Use master  
GO  
PRINT 'Check P62 database'  
if (not exists(select name from master..sysdatabases where name = 'P62' ))  
BEGIN  
PRINT 'Attaching P62 database'  
EXEC sp_attach_db @dbname = 'P62',  
@filename1 = 'C:\usr\sap\P602\mssql\P62.MDF',  
@filename2 = 'C:\usr\sap\P602\mssql\P62_log.LDF'  
END  
GO  
PRINT 'Assigning user to P62 database'  
if (exists(select name from master..syslogins where name = 'SAPP62'))  
BEGIN  
use P62  
EXEC sp_changedbowner 'sa'  
exec sp_droplogin 'SAPP62'  
END  
GO  
Use master  
GO  
EXEC sp_addlogin 'SAPP62', 'p62', 'P62'  
GO  
Use P62  
EXEC sp_changedbowner 'SAPP62'
```

### DetachDatabases.sql

```
Use master  
GO  
PRINT 'detaching old P62 database'  
Exec sp_detach_db 'P62', 'true'  
GO  
  
-- example for the WCM database  
--Use master  
--GO  
--PRINT 'detaching old W62 database'  
--Exec sp_detach_db 'W62', 'true'  
--GO
```

## Additional Steps for multi server node clusters and KM standard configuration

SharePortal.bat

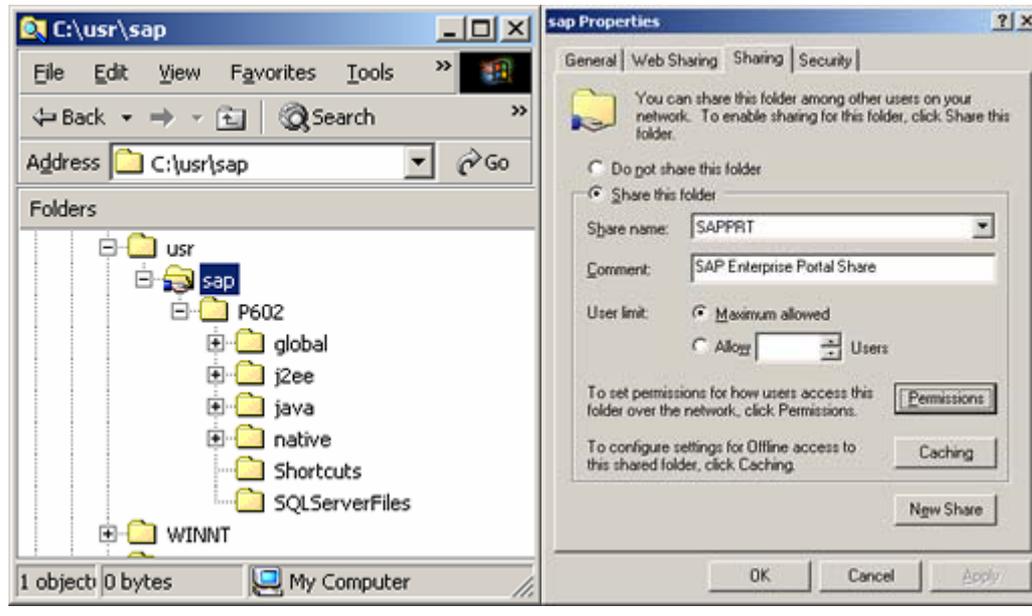
```
@Echo off
```

```
net share SAPPRT=C:\usr\sap /UNLIMITED
```

Share c:\usr\sap as SAPPRT

For low security you can also grant "full access" to everyone.

For high security you may use your own credentials (if you are an administrator and you start the portal), or create a user and a user group with administrative privileges. When prompted, you can enter the user's credentials.



## Installing Databases on a Remote System

If you want to split the Portal and the databases you have to do some additional installation steps:

1. Copy database files from folder `C:\usr\sap\<version>\SQLServerFiles` to the system that should contain the databases. In the following steps we call the database system "pServer". The folder names and structure stay the same.
2. Check if you MS SQL Server is running and start the batch file `C:\usr\sap\<version>\RegisterDatabases.bat` on the database system. This will attach database files for databases portal and Content Management to your MS SQL Server on the database system.
3. Check the content of the file `C:\usr\sap\<version>\attach.log`. If the databases were attached correctly, the content looks like this:  
Attaching B0x database  
Attaching W0x database

Now the connection pool settings of the Portal (on your localhost) have to be adjusted.

4. Start Dispatcher and Server (using the shortcuts).
5. Start admin tool and connect to the server using 'Administrator' as user and a empty password.
6. Navigate to Server -> Services -> dbpool in the User Interface of the admin tool.
7. Change database URLs

From	To
<code>jdbc:sap:sqlserver://localhost:1433;DatabaseName=P6x</code>	<code>jdbc:sap:sqlserver://pServer:1433;DatabaseName=P6x</code>

8. Exit the admin tool.
9. Modify the connection pool settings of KM by changing the property "dbserver" from "localhost" to "pServer" in the files:  
.../WEB-INF/portal/system/cm/cm.properties  
.../WEB-INF/portal/portalapps/com.sap.km.application/lib/config\_local.properties

## Running the System

1. Start Dispatcher and Server (using the shortcuts).
2. Use `C:\usr\sap\<version>\<version>.htm` to access the Portal (contains also shortcuts to important folders in the ZIP installation)

## EP Development Plugin for Eclipse

The PDK provides an Eclipse plugin that supports Portal application development. To get the plugin and further information select following topics in the Portal:

Java Development > Documentation > Getting Started

Open the node "Implementing a Portal Component" in the index tree and click on "PDK Plugin". The first paragraph will lead you to the installation guide.

### Updates of Eclipse plugins

Are available at <http://sdn.sap.com> downloads.

## Troubleshooting

Problem	Troubleshooting
Connection problems when using AdminTool:	Server must be running when using AdminTool (Note: ConfigTool can be run without server)
Out of memory:	Try to increase the memory settings found in <root of SAP J2EE>\cluster\dispatcher\go.bat (default: 32M) <root of SAP J2EE>\cluster\server\go.bat (default: 256M) <root of SAP J2EE>\cluster\server\godebug.bat (default: 256M)
If running as a service, don't forget	<root of SAP J2EE>\cluster\dispatcher\cmdline.properties <root of SAP J2EE>\cluster\server\cmdline.properties
Portal not responding:	Well if you click with your mouse into the open cmd window, Windows expects to do sth. Means java waits until doomsday. Type "esc" to go on.

## Check your database installation

If the startup of your portal throws exceptions, first check if all database setting are correct!

In MSSQL Enterprise Manager --> local --> security -->logins

Check: Database P62, W62 (for PDK 60 SP2) , user SAPP62 (pw:p62) und SAPW62 (pw:w62) exist. If SAPP62 and SAPW62 are not db\_owner register them !

