

Installing Patch 2 for Enterprise Portal 6.0 SP2



SAP Enterprise Portal 6.0 SP2



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Icon	Meaning
	Caution
	Example
	Note
	Recommendation
	Syntax

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Typographic Conventions

Type Style	Description
<i>Example text</i>	Words or characters quoted from the screen. These include field names, screen titles, pushbuttons labels, menu names, menu paths, and menu options. Cross-references to other documentation.
Example text	Emphasized words or phrases in body text, graphic titles, and table titles.
EXAMPLE TEXT	Technical names of system objects. These include report names, program names, transaction codes, table names, and key concepts of a programming language when they are surrounded by body text, for example, SELECT and INCLUDE.
Example text	Output on the screen. This includes file and directory names and their paths, messages, names of variables and parameters, source text, and names of installation, upgrade and database tools.
Example text	Exact user entry. These are words or characters that you enter in the system exactly as they appear in the documentation.
<Example text>	Variable user entry. Angle brackets indicate that you replace these words and characters with appropriate entries to make entries in the system.
EXAMPLE TEXT	Keys on the keyboard, for example, F2 or ENTER.

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Installing Patch 2 for Enterprise Portal 6.0 SP2

Purpose

This document describes the installation of Patch 2 for SAP Enterprise Portal 6.0 SP2, both for Portal Platform and for Content Management (CM).

The patch contains SDA files in the following software collections (*.swc files):

- User Management
- Portal Platform – catalog 1
- Portal Platform – catalog 2
- MetaMatrix
- CM & collaboration – catalog 1
- CM & collaboration – catalog 2

These files are deployed using the SAP Software Delivery Manager (SDM).

Patch 2 is delivered for installation on a CD. For additional patch information, see the appropriate SAP Notes.

Installing the Patch in a Portal Cluster

When applying the patch in a portal cluster environment, use the following sequence:

1. Stop all servers before running the patch on the initial portal server.
2. Run the patch on the initial portal server as described in this document.
3. On all the servers in the environment (except for the initial node), run appclear and then restart the server.

SAP Notes

SAP Note Number	SAP Note Short Text
678795	Central Note – Installing Patch 2 for EP 6.0 SP2
668312	Central Note – Enterprise Portal 6.0 SP2 Installation
668313	Central Note – Upgrade Enterprise Portal 6.0 SP1 to SP2
682652	EP6.0 Content Management & Collaboration SP2 Patch2
523026	How to apply patches to the KM DB (if not yet installed)



Running Patch 2 for Portal Platform 6.0 SP2

Use

Patch 2 for EP6 consists of SDA files, which you deploy using the SAP Software Delivery Manager (SDM). The SDM opens SDA packages, deploys the files according to type, and catalogs the file properties. When running a patch, the SDM upgrades installed files automatically. Apply this patch only to the initial portal installation. All subsequent portal cluster nodes replicate changes upon restart of J2EE Engine.

Prerequisites

- Upgrade SAP J2EE Engine to Patchlevel 17.
- SAP J2EE Engine is running.
- If you are using Oracle database server, upgrade to patch 9.2.0.4.
Find the Oracle Patch 9.2.0.4 on SAP Service Marketplace, at:
<http://service.sap.com/swcenter> --> Download --> Database patches
Use the read.me for the patchset documentation.
- Make sure that the PATH environment variable includes the path to the Java *bin* directory, as follows:
 - **UNIX:** <JDK installation folder>/bin
 - **Windows:** <installation directory>:\<JDK installation folder>\bin
- You have installed the Portal Platform according to the instructions in *Installing Portal Platform, Content Management and Collaboration* for SAP Enterprise Portal 6.0 SP2, located on SAP Service Marketplace at service.sap.com/ep60 → Documentation & More → Installation.



Patch 1 for SP2 is not a prerequisite. This patch can be installed whether or not you have installed Patch 1.

If you have already installed Patch 1, then you will not need to repeat some of the post-installation procedures. The procedures are denoted as required only if not done before.

Procedure

The following steps describe the procedure for running Patch 2 both for UNIX and Windows platforms. Instructions that are specific to one or the other operating system are indicated as such.

To access the Patch file:

1. Use the CD labeled *Enterprise Portal 6.0 SP2 Patch 2*, material number: 51020549.
2. Unix Users only:
 - a. Log on to your installation host as user with *super user (root)* rights.
 - b. Mount the Installation CD.



Mount the CD locally. We do **not** recommend using Network File System (NFS).

- c. In your UNIX environment, log in with account ***j2eeadm***. Make sure that the user has access to the SDA files that you need to deploy for running the patch.
- d. Make sure the \$DISPLAY variable is set correctly.

To stop the application:

1. Ensure that the SAP J2EE Engine with the initial portal is running.
2. Do one of the following:
 - o **For UNIX:**
 - i. Navigate to the SAP J2EE Engine *Administrator* by typing:

```
cd
/usr/sap/<SAP_J2EE_System_Name>/j2ee/j2ee_<instance_number>/admin
```
 - ii. To start the SAP J2EE Engine *Administrator* type

```
./go
```
 - o **For Windows:**
 - i. Navigate to the installation drive following the path:

```
\\usr\sap\<SAP_J2EE_System_Name>\j2ee\j2ee_<instance_number>\admin
```
 - ii. To start the SAP J2EE Engine *Administrator* run:

```
go.bat
```
3. Connect to the SAP J2EE Engine of the initial portal. To do so, from the Connect menu choose *Login*. Connect to the SAP J2EE Engine of the initial portal by choosing *Login* from the Connect menu.
4. After the logon, navigate to *server node-> services->deploy*. In the Deployed Components window, expand the server node.
5. Click the *servlet_jsp* node. All installed applications are displayed.
6. Select the application *irj* and press the **Stop Application** button. The application *irj* is stopped.



Keep the SAP J2EE Engine Administrator window open.

To apply the patch:

1. Open the SAP Software Delivery Manager:
 - **For UNIX:**
 - i. Navigate to the SDM by typing:

```
cd /usr/sap/<SAP_J2EE_System_Name>/java/sdm/program
```
 - ii. Open the SDM by typing
./startSDM.sh
 - **For Windows:**
 - i. Navigate to the installation drive following the path:

```
\\usr\sap\<SAP_J2EE_System_Name>\java\sdm\program
```
 - ii. Open the SDM by running
startSDM.bat

The SAP Software Delivery Manager opens.

2. In the SDM *Deployment* tab, click the plus sign (+) icon, browse to the Patch 2 CD, and navigate to the UME directory. Select ***UME.swc***.
3. In the SDM *Deployment* tab, click the plus sign (+) icon and navigate to directory *Portal* → *Catalog*. Select ***Catalog1.swc***.
4. In the SDM *Deployment* tab, click the plus sign (+) icon and navigate to directory *Portal* → *Catalog2*. Select ***Catalog2.swc***.
5. In the SDM *Deployment* tab, click the plus sign (+) icon and navigate to directory *Metamatrix*. Select ***Catalog3.swc***.
6. Choose *Next*.
7. Expand the Deployment Configuration area that appears in the lower central part of the screen and choose *Use existing deployment parameter values*.
8. Continue to choose *Next* in each of the subsequent screens until you reach the screen with the *Start* button.
9. Choose *Start* to deploy the Software Catalogs (*.swc) files.
10. When deployment is finished, choose *Confirm*.
11. Quit the SDM.
12. Restart the SAP J2EE Engine.
13. Complete the patch installation. See [Completing the Portal Patch Installation \[Page 9\]](#).



Completing the Portal Patch Installation

Use

To complete the patch installation, you:

- Verify that the external compiler settings (javac) are correctly configured.
- Upload the updated files by starting the IRJ application
- Copy a file to its appropriate location
- Replace the SAP and JDBC connectors with the ones updated for SP2
- Verify the patch installation and log on to the portal

Procedure

To verify that the J2EE settings for the Java compiler are correctly configured:

1. Access the following file with a text editor:

```
/usr/sap/<j2ee_instance_name>/j2ee/j2ee_<instance_number>/cluster/server/services/servlet_jsp/properties
```

2. Make sure that the following properties are set to the following values:

InternalCompiler=**false**

ExternalCompiler=<value of the JAVA_HOME environment variable>/bin/javac



The value of JAVA_HOME environment variable for example is */usr/opt/java*

3. Perform this verification on each server node, local or cluster.

To start the application:

1. In the SAP J2EE Engine Administrator, make sure that the *irj* application is still selected, and press the button **Start Application**.
2. The portal restarts and uploads the new files and content.

This may take **several minutes to a couple of hours**.



DO NOT stop the application until it's all uploaded!

To verify if it is still working, look at the server console logs. These files are located at:

```
/usr/sap/<j2ee_instance_name>/j2ee/j2ee_<instance_number>/cluster/server/managers/console_logs/*<time stamp>.log
```

3. Wait for the check mark to confirm that the application is up.

When this happens, the *processing* icon  is replaced with the *OK* icon .

To copy the user mapping properties file to its location:

If you have already installed Patch 1 and performed this step, skip it now.

1. Access the following file:

UNIX:

```
/usr/sap/<j2ee_instance_name>/j2ee/j2ee_<instance_number>/cluster/s  
erver/services/servlet_jsp/work/jspTemp/irj/root/WEB-  
INF/portal/system/pcd/Migration/mapping/cms_mapping.properties
```

Windows:

```
\usr\sap\<j2ee_instance_name>\j2ee\j2ee_<instance_number>\cluster\s  
erver\services\servlet_jsp\work\jspTemp\irj\root\WEB-  
INF\portal\system\pcd\Migration\mapping\cms_mapping.properties
```

2. Copy it to the following location:

UNIX:

```
/usr/sap/<j2ee_instance_name>/global/config/pcd/Migration/mapping
```

Windows:

```
\usr\sap\<j2ee_instance_name>\global\config\pcd\Migration\mapping
```

To replace the current connectors with the new ones:

If you have already installed Patch 1 and performed this step, skip it now.

1. To remove existing connectors, access the SAP J2EE Admin tool.
 - a. Go to *Server* → *Services*.
 - b. Select the eisconnector service. In the work area, the SAP and JDBC connectors are listed.
 - c. Select the SAP connector, and click the **Remove** button.
 - d. Select the JDBC connector, and click the **Remove** button.
 - e. Repeat this procedure for all the servers on the machine.

2. To install new connectors:
 - a. Click the **Add** button.
 - b. Look in the folder:
UNIX:
`/usr/sap/<j2ee_instance_name>/j2ee/j2ee_<instance_number>/services/connectors/`
Windows: <installation drive>:\usr\sap\<j2ee_instance_name>\j2ee\j2ee_<instance_number>\services\connectors\
 - c. Select the file for the SAP connector:
`SAPCFConnector.rar`
 - d. Click **OK**.
 - e. Select the file for the JDBC connector:
`jdbcConnector.rar`
 - f. Click **OK**.
 3. Restart SAP J2EE Engine.

To verify the patch installation:

1. Verify that the patch deployment was successful. Follow the procedure described in [Patch Deployment Verification \[Page 14\]](#).
2. Log on to the portal. Make sure that the top-level navigation appears and that you can perform administrative tasks via the portal UI.



Running Patch 2 for Content Management

Prerequisites

- SAP J2EE Engine is running.
- You read SAP note 682652, for CM Patch 2 installation.
- You have installed Content Management (CM) according to the instructions in *Installing Portal Platform, Content Management and Collaboration* for SAP Enterprise Portal 6.0 SP2, located on SAP Service Marketplace at service.sap.com/ep60 → *Documentation & More* → *Installation*.



The installation of Patch 1 for CM is not a requirement. If you have not applied it yet, proceed with Patch 2 installation.

Procedure

The following steps describe the procedure for running Patch 2 for SP2 for both UNIX and Windows platforms. Instructions that are specific to one or the other operating system are indicated as such.

To prepare for running Patch 2 for CM:

1. Use the CD labeled *Enterprise Portal 6.0 SP2 Patch 2*, material number: 51020549.
2. Unix Users only:
 - a. Log on to your installation host as user with *super user (root)* rights.
 - b. Mount the Installation CD.



Mount the CD locally. We do **not** recommend using Network File System (NFS).

- c. In your UNIX environment, log in with account **j2eeadm**. Make sure that the user has access to the SDA files that you need to deploy for running the patch.
- d. Make sure that the \$DISPLAY, JAVA_HOME and PATH system variables are set correctly.

To apply the CM patch:

1. Ensure that the SAP J2EE Engine with the initial portal is running.
2. Open the SAP Software Delivery Manager:
 - **For UNIX:**
 - i. Navigate to the SDM by typing:

```
cd /usr/sap/<SAP_J2EE_System_Name>/java/sdm/program
```
 - ii. Open the SDM by typing:

```
./startSDM.sh
```

- **For Windows:**

- i. Navigate to the installation drive following the path:
`\usr\sap\<SAP_J2EE_System_Name>\java\sdm\program`
- ii. Open the SDM by running:
`startSDM.bat`

The SAP Software Delivery Manager opens.

3. In the SDM *Deployment* tab, click the plus sign (+) icon, browse to the Patch 2 CD, navigate to directory `\CM_COLL\catalog1` and run the first CM and Collaboration SWC, *kmc.swc*.
4. Apply the second CM and Collaboration SWC, *streamsrv.swc*, from folder `\CM_COLL\catalog2`.
5. Choose *Next*.
6. Continue to choose *Next* in each of the subsequent screens until you reach the screen with the *Start* button.
7. Choose *Start* to deploy the Software Catalogs (*.swc) files.
8. When deployment is finished, choose *Confirm* and quit SDM.
9. After the confirmation message appears, restart SAP J2EE Engine.



This may take several minutes to one hour.

To complete the CM patch installation:

1. Verify that the CM patch installation is successfully completed. To do so:
 - a. Open the file:
`usr/sap/<j2ee_instance_name>/j2ee/j2ee_<instance_number>/cluster/server/cf_installation.report`
 - b. Make sure that the following line appears:
"The upgrade sequence completed successfully."
- 
- To check the installation status, see the console logs:
- ```
/usr/sap/<j2ee_instance_name>/j2ee/j2ee_<instance_number>/cluster/server/managers/console_logs/*<time stamp>.log
```
2. Verify that the patch deployment was successful. Follow the procedure described in [Patch Deployment Verification \[Page 14\]](#).
  3. If you have installed Patch 1 Hotfix 1 for CM, and as part of this installation you already applied CM database patch, skip this step. Otherwise, install now the CM Database patch. For instructions, see note **523026** "How to apply patches to the KM DB".
  4. Log on to the portal. Verify CM functionality via the portal UI.



## Patch Deployment Verification

### Use

It is possible that the SDM successfully copied all the files to their destination, but some files could not be uploaded. In this case, users may run into trouble when trying to use specific portal features. To prevent this, it is imperative that you verify patch deployment as described below.

### Deployment Verification Workflow

To verify successful patch deployment, do the following:

- Check for undeployed PAR and EPT files using one of the following means:
  - Use the System Analyzer. See [Check and Fix Err Files with the System Analyzer \[Page 15\]](#).
  - Do it manually. See [Manually Check for ERR files \[Page 16\]](#).
- If there are deployment errors:
  - Rename ERR files using the System Analyzer.
  - Manually rename the files. See [Manually Rename ERR Files \[Page 17\]](#).



If the deployment is successful but you still cannot log on to the portal, contact your local support center/software supplier.



## Checking and Fixing \*.ERR Files with the System Analyzer

### Use

The System Analyzer tool is a convenient way of checking the portal system for errors and applying fixes where available. For more information about using the analyzer, see *Verify Installation Readiness with the System Analyzer* in the portal installation guide on SAP Service Marketplace, at [service.sap.com/ep60](http://service.sap.com/ep60) → *Documentation & More* → *Installation*.

### Procedure

1. Launch the Analyzer. To do so, go to the folder:

**UNIX:**

```
/usr/sap/<SYSTEM_NAME>/j2ee/<j2ee_<INSTANCE_NUMBER>/Analyzer/
```

**Windows:**

```
<installation
drive>:\usr\sap\<SYSTEM_NAME>\j2ee\<j2ee_<INSTANCE_NUMBER>\Analyzer
```

2. Run the following file:

**UNIX:** ./go

**Windows:** go.bat

3. From the Navigation panel, choose *Analyzer* → *Files* → *Backup Files*.
4. From the right-click menu, select *Analyze*. The analysis results are displayed in the output area.
5. If \*.err files are listed, use the *Fix* option from the right-click menu to turn them to \*.bak files.
6. To redeploy, restart the SAP J2EE Engine.
7. Repeat the Analyzer test. If you find more \*.err files, contact your local support center/software supplier.



## Manually Check for \*.ERR files

### Procedure

#### Checking for undeployed PAR files:

1. After restarting the SAP J2EE Engine, go to the following directories:
  - `/usr/sap/<SAP_J2EE_System_Name>/j2ee/j2ee_<inst.nr>/cluster/server/services/ervlet_jsp/work/jspTemp/irj/root/WEB-INF/deployment`
  - `/usr/sap/<SAP_J2EE_System_Name>/j2ee/j2ee_<inst.nr>/cluster/server/services/ervlet_jsp/work/jspTemp/irj/root/WEB-INF/deployment/pcd`
2. Check each PAR file.
  - A file that was successfully deployed will read: *<name of file>*.PAR.**BAK**
  - A file that was not successfully deployed will read: *<name of file>*.PAR.**ERR**



To check for deployment errors on an NT machine, follow the same paths as described in this section. The log file on NT will have a *.log* extension.

#### Checking for undeployed EPT files:

1. After restarting the SAP J2EE Engine, go to:
  - `/usr/sap/<SAP_J2EE_System_Name>/j2ee/j2ee_<inst.nr>/cluster/server/services/ervlet_jsp/work/jspTemp/irj/root/WEB-INF/deployment/pcdContent`
2. Check each EPT file.
  - A file that was successfully deployed will read: *<name of file>*.EPT.**BAK**
  - A file that was not successfully deployed will read: *<name of file>*.EPT.**ERR**



## Manually Rename \*.ERR files

### Use

If the patch deployment checks indicate that error files have been created, try to fix the errors by renaming the files.

### Procedure

#### To manually rename \*.ERR files on UNIX platform:

1. If there are \*.PAR.ERR or \*.EPT.ERR files after deployment, go to the directory where those files are located and run one of the following lines:
  - For \*.PAR.ERR files:

```
ls -d *.par.err | sed 's/\(.*\)\.par.err$/mv & \1.par/' | sh
```
  - For \*.EPT.ERR files:

```
ls -d *.ept.err | sed 's/\(.*\)\.ept.err$/mv & \1.ept/' | sh
```

These commands remove the ERR suffix from the file name (all \*.PAR.ERR files to PAR; all \*.EPT.ERR files to EPT).

2. Restart SAP J2EE Engine. Log in with account **j2eeadm**

#### To manually rename ERR files on Windows platform:

1. Rename the \*.PAR.ERR and \*.EPT.ERR files manually, using Windows explorer or any other Windows means/
2. Restart SAP J2EE Engine.

If the error persists open a CSN message with SAP customer support and provide the corresponding log file `<name_of_file>.PAR.LOG` or `<name_of_file>.EPT.LOG`.