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SAP BusinessObjects Business Intelligence platform

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SAP BusinessObjects Explorer Installation Guide

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1 Introduction



1.1 About this document

This guide is for administrators who need to install SAP BusinessObjects Explorer either as:

- A new complete installation of SAP BusinessObjects Business Intelligence platform 4.1
- A patch installation of SAP BusinessObjects Explorer 4.1 after an upgrade of SAP BusinessObjects Business Intelligence platform from version 4.0 to 4.1.

1.2 Related documentation

The following SAP documentation provides information for SAP BusinessObjects Explorer 4.1:

Information	Documentation	Location
List of known issues and workarounds.	SAP BusinessObjects 4.1 Release Notes	http://service.sap.com/release-notes 
Supported platforms and third party software.	Product Availability Matrix	SAP Service Marketplace: http://service.sap.com/pam  In the <i>Search</i> field, type: Explorer 4.1
List of the new features introduced with the latest release.	What's New in SAP BusinessObjects 4.1	SAP Help Portal: http://help.sap.com
Architecture and technical landscape of the SAP BusinessObjects Business Intelligence platform 4.1, as well as links to required documentation and SAP notes.	<ul style="list-style-type: none">• <i>Business Intelligence Platform Installation Guide</i>• <i>Business Intelligence Platform Administrator Guide</i>• <i>Business Intelligence Platform Web Application Deployment Guide</i>• <i>Business Intelligence Platform Upgrade Guide</i>	
Error messages explained	SAP BusinessObjects 4.1 Error Message Guide	
Explorer installation tasks	<i>SAP BusinessObjects Explorer Installation Guide</i>	
Explorer server administration tasks	<i>SAP BusinessObjects Explorer Administrator's Guide</i>	

Information	Documentation	Location
End-user information on creating, managing and exploring data using the Explorer application interface.	<i>SAP BusinessObjects Explorer Online Help</i> PDF	
	<i>SAP BusinessObjects Explorer Online Help</i> Online Help	Log into the application then click Help .

2 Preparing to Install BusinessObjects Explorer

2.1 Aligning Business Intelligence platform and Explorer versions when updating

When you update your version of SAP BusinessObjects Explorer, you must ensure that the Business Intelligence platform (BIP) version is updated to the required version before updating to the same version for SAP BusinessObjects Explorer.

This step-wise method of updating the platform version as a pre-requisite to updating SAP BusinessObjects Explorer to the same version, applies to all instances of SAP BusinessObjects Explorer updates, including patches.

For example, if you run SAP BusinessObjects Explorer 4.0 SP6 patch 3 and want to update to SAP BusinessObjects Explorer 4.0 SP7 patch 2, do as follows:

1. Update BIP to 4.0 SP7.
2. Update SAP BusinessObjects Explorer to 4.0 SP7.
3. Install 4.0 SP7 patch 2 on BIP 4.0 SP7.
4. Install 4.0 SP7 patch 2 on SAP BusinessObjects Explorer 4.0 SP7.

2.2 Migrating from previous versions of Explorer

A correctly functioning installation of SAP BusinessObjects Business Intelligence platform 4.1. is required before installing SAP BusinessObjects Explorer 4.1. Refer to the following guides for information relevant to your deployment before installing SAP BusinessObjects Explorer 4.1:

- *Business Intelligence Platform Installation Guide*
- *Business Intelligence Platform Administrator Guide*
- *Business Intelligence Platform Web Application Deployment Guide*
- *Business Intelligence Platform Upgrade Guide*

The guides are available from the SAP Help Portal: <http://help.sap.com>.

Once you have successfully installed SAP BusinessObjects Business Intelligence platform 4.1, you can migrate your datasources for Explorer as follows:

If you are upgrading from...	Then do the following
SAP BusinessObjects Explorer 4.0	No specific resource migration actions are necessary. All version 4.0 resources are available to version 4.1.

If you are upgrading from...	Then do the following
SAP BusinessObjects Explorer XI 3x	You can not upgrade automatically. The migration from Explorer version 3x is partly automated by the Upgrade Management tool, but there are also some manual steps involved. Refer to Related Topics for information.

Related Information

[Migrating from Explorer 3.x to Explorer 4.1 \[page 6\]](#)

2.2.1 Migrating from Explorer 3.x to Explorer 4.1

SAP BusinessObjects Explorer 4.1 is a new installation that requires the prior installation of SAP BusinessObjects Business Intelligence platform 4.1.

The migration from Explorer version 3.x is partly automated by the Upgrade Manager tool, but there are also some manual steps involved. This section gives an overview of the migration process from SAP BusinessObjects Explorer XI 3.x to SAP BusinessObjects Explorer 4.1.

Explorer 3.x to 4.0 migration steps	Description
Install SAP BusinessObjects Business Intelligence platform 4.1. and SAP BusinessObjects Explorer 4.1.	See the Related Documentation section in this guide to find the information required for the installation process.
Migrate Explorer 3.x to Explorer 4.1	<p>Use the Upgrade Manager tool to migrate:</p> <ul style="list-style-type: none"> Explorer global application properties to the new CMS. Information Spaces based on Excel (available with the 3.2 version) to the new CMS, then then re-index. <p>Refer to the <i>Business Intelligence Platform Upgrade Guide</i> available from the SAP Help Portal: http://help.sap.com</p>

Related Information

[Migrating from Explorer 3.x to Explorer 4.1 \[page 6\]](#)

2.3 Choosing your deployment scenario

The deployment architecture you choose for SAP BusinessObjects Explorer depends on the size of your deployment, the types of actions your users most frequently perform when they use the software, and the

performance and reliability requirements of your business intelligence infrastructure. The Explorer servers can be installed on one or several machines with one or several instances of a service installed on each machine.

Related Information

[Installing Explorer on dedicated hosts or on an existing Business Intelligence platform host \[page 7\]](#)

[Standalone installation \[page 7\]](#)

[Distributed deployment scenarios \[page 7\]](#)

2.3.1 Installing Explorer on dedicated hosts or on an existing Business Intelligence platform host

You can install SAP BusinessObjects Explorer in one of the following ways:

- on the same server as the SAP BusinessObjects Business Intelligence platform
- on dedicated machines. This method results in better performance.

When you deploy a Explorer server on a machine that does not have an SAP BusinessObjects Business Intelligence platform installation, Explorer connects to another BusinessObjects Central Manager Server (CMS) on a separate machine on your network. You can modify this in the CMC at any time.

2.3.2 Standalone installation

Installing all of the Explorer components on a single host is recommended for testing purposes or in the case of smaller production deployments. If you already have an existing SAP BusinessObjects Business Intelligence platform installed, you can either choose to install your Explorer system on the same host, or on a dedicated host.

Related Information

[Installing Explorer on dedicated hosts or on an existing Business Intelligence platform host \[page 7\]](#)

2.3.3 Distributed deployment scenarios

Implementing a distributed deployment scenario is recommended in the case of larger and critical production deployments.

Failover

If failover is a key requirement, you can deploy more than one Explorer Master Server to manage the other Explorer servers. The Master Servers work together to maintain the consistency of critical data.

Load balancing

SAP BusinessObjects Explorer supports the clustering of your web application server. Hardware or software load balancers can be used as the entry-point for the web application servers to ensure that the processing is evenly distributed among servers.

Note

The following persistence types are currently supported

- Source IP address persistence

Note

For information about load balancing for SAP BusinessObjects Business Intelligence platform, refer to the SAP Product Availability Matrix (PAM) at: <http://service.sap.com/pam>. From the PAM home page, enter "Explorer 4.1" into the Search field on the PAM home page.

2.4 Checking installation prerequisites

SAP BusinessObjects Explorer 4.1 has the following installation pre-requirements:

- SAP BusinessObjects Business Intelligence platform 4.1 installed and functioning. Refer to the *Business Intelligence Platform Installation Guide* available at <http://help.sap.com> for the necessary installation requirements.
- Adobe Flash Player version 10.1 and higher.

For a detailed list of supported environments and hardware requirements, consult the Product Availability Matrix available from the SAP Service Marketplace <http://service.sap.com/pam>.

If you have an existing installation of SAP BusinessObjects Explorer 3.x, you need to uninstall this version before you install SAP BusinessObjects Explorer 4.1. Some files need to be removed manually before you install the new version. For details on which files you need to remove, see the *Uninstalling SAP BusinessObjects Explorer* sections for Windows or UNIX, listed in Related Topics. It is highly recommended you back up the SAP BusinessObjects Explorer WAR files, before you start the uninstallation procedure.

Note

Note the following actions to apply when deploying WAR files:

WAR file issues

And...

The WAR files for SAP BusinessObjects Explorer 4.1 are automatically deployed when using Tomcat as the web application server.

You can also deploy WAR files for Tomcat manually after the installation if required. Refer to Related Topics for the section on manually deploying WAR files.

For all other web application servers you must manually deploy the WAR files using the `wdeploy` tool.

When using `wdeploy` to deploy the WAR files for SAP BusinessObjects Explorer 4.1 on the JBoss 5x application server, you must deploy each WAR file to a folder with the identical name as the WAR file .

For example, the `explorer.war` file should be unpacked to a folder called `<explorer.war>` in the path `<JBoss_HOME>/server/default/deploy`.

1. Ensure that SAP BusinessObjects Business Intelligence platform 4.1 is installed and configured correctly as described in the *Business Intelligence Platform Installation Guide* at: <http://service.sap.com/instguides>. You must have administrator access to the designated machine for installation.

Correct configuration means the machine on which SAP BusinessObjects Business Intelligence platform 4.1 is installed, is operating and accessible on the network, and that the following servers are present:
 - a. Central Management Server (CMS)
 - b. Connection Server
 - c. Output File Repository Server
 - d. Input File Repository Server
 - e. A web application server
2. Make a note of the CMS logon credentials of the SAP BusinessObjects Business Intelligence platform 4.1 installation. You will need these when installing SAP BusinessObjects Explorer. The CMS logon credentials are the following:
 - The machine that SAP BusinessObjects Business Intelligence platform 4.1 is installed on is operating and is accessible on the network.
 - A BusinessObjects Enterprise SIA is installed on any machine that hosts Explorer servers.
 - The CMS credentials of the SAP BusinessObjects Business Intelligence platform 4.1 installation. These are the following:
 - a. CMS name
 - b. Port number
 - c. User Name
 - d. Password
 - e. Authentication method (if installing on Microsoft Windows).

Related Information

[Related documentation \[page 3\]](#)

[Uninstalling SAP BusinessObjects Explorer on Windows \[page 17\]](#)

[Deploying the WAR files manually \[page 13\]](#)

3 Installing BusinessObjects Explorer

3.1 Installation package contents

The SAP BusinessObjects Explorer setup includes the following packages:

Explorer servers

This feature includes:

- The backend servers:
 - Master
 - Indexing
 - Search
 - Exploration
- Third-party components

ⓘ Note

You can install the servers on different host machines. For example, you can have dedicated machines for indexing, exploration, and search.

Web Applications

This feature includes the necessary web portal deployment components.

Search integration

Component necessary to integrate Explorer search capabilities with SAP BusinessObjects BI Launch Pad.

Related Information

[Choosing an installation for your operating system \[page 11\]](#)

3.2 Choosing an installation for your operating system

The installation procedure you follow depends on the operating system of your Explorer server host machines.

Related Information

[Installing SAP BusinessObjects Explorer on Microsoft Windows \[page 11\]](#)

[Installing Explorer on UNIX \[page 12\]](#)

3.2.1 Installing SAP BusinessObjects Explorer on Microsoft Windows

1. Double-click `setup.exe`.
2. Select a setup language. This is the language for the installation wizard.
3. If the installer detects that certain installation pre-requisites are missing, a dialog box appears with a list of missing components. Click each item in the list for a description of the action necessary to meet the requirement. You must resolve the pre-requisite issues before continuing with the installation.
4. In the *BusinessObjects Explorer Setup* dialog box, click *Next >*.
5. Read and accept the License Agreement, then click *Next >* to start your installation.

The detected directory is based upon your SAP BusinessObjects Business Intelligence platform installation directory. You can not install Explorer in an alternative directory.
6. Select one or more language packs. These are the languages that users can select as their preferred language in the preference settings.
7. Select the components to install and click *Next >*.
8. Enter your CMS logon credentials:
 - CMS Name
 - Port number
 - User Name
 - Password
 - Authentication
9. Click *Next >*.
10. If you selected the *Manually deploy web applications to a supported Java Web Application Server after the installation* option during the installation of SAP BusinessObjects Business Intelligence platform, the *Explorer Web Application Deployment* dialog box appears:
 - a. Check the checkbox if you want to launch `wDeploy` after the installation or let it unchecked if you do not want to.
 - b. Click *Next >*.
11. On the *Start Installation* dialog box, click *Next >* to start the installation and *Finish* once the installation has completed.

Related Information

[Related documentation \[page 3\]](#)

3.2.2 Installing Explorer on UNIX

1. Launch `setup.sh` using the `InstallDir` parameter to set the destination from the command line.
For example, `./setup.sh -InstallDir <InstallDir_Path>`. `<InstallDir_Path>` corresponds to the destination folder where the application is going to be installed if you are doing a fresh installation, or the folder where the application is already installed if you're upgrading or installing a patch.
The SAP BusinessObjects Explorer Setup screen appears.
2. Select the current language for the installation.
3. Specify the destination folder for the install. This must be the same installation folder that contains SAP BusinessObjects Business Intelligence platform 4.2.
A pre-requisites check screen appears. If the installer detects that critical and optional installation pre-requisites are missing, a list of missing components appears.
4. If necessary, resolve the critical pre-requisites issues before continuing the installation.
The following screens appear:
 - Welcome to the SAP BusinessObjects Explorer Installation Wizard
 - SAP BUSINESS OBJECTS License Agreement
5. Once you have read the agreement, validate your choice as follows:
 - Press [y] to agree to these terms or [n] to quit.
 - Press [Ctrl-N] to go Back, [Ctrl-X] to quit.
6. Select the language packs you want to install. Use the arrow keys to select a menu item:
 - Press [X] to Select/Unselect it
 - Press [Ctrl-B] to go back
 - [Enter] to continue.
 - Press [Ctrl-X] to quit.
7. Select the features you want to install on the directory you specified:
 - Explorer Servers (Master, Indexing, Search, and Exploration)
 - Web Application Component (this includes the web portal deployment components)
 - Search integration (with BI Launch Pad).
8. Press .
9. In the *Enter Information for existing CMS* screen, type the following information:
 - CMS Name
 - Port number
 - User Name
 - Password
10. Press .
11. Enter the node name and port for an existing local SIA , or create a new one.
The installation starts.

Related Information

[Related documentation \[page 3\]](#)

3.2.3 Running a silent install

You can set every option in the installation wizard from the command-line. This type of installation is known as a silent install. Installation options can be given directly on the command-line as a parameter, or can be stored in a response file.

For complete instructions on the silent install procedure, refer to the silent installation section of the *Business Intelligence Platform Installation Guide* available from the SAP Help portal <http://help.sap.com>.

Related Information

[Related documentation \[page 3\]](#)

3.3 Deploying the WAR files manually

If the Explorer WAR files were not automatically deployed during installation, you can manually deploy the files using the `wdeploy` application provided with your SAP BusinessObjects Business Intelligence platform installation.

Deployment is dependent on your web application server and operating system. Refer to the *SAP BusinessObjects Business Intelligence platform Web Application Deployment Guide* at <http://help.sap.com> for full information on using `wdeploy` to deploy WAR files.

The following WAR files and referenced properties files are available for SAP BusinessObjects Explorer 4.1:

WAR File	Properties file
explorer	explorer.properties
explorer_help	explorer_help.properties

Related Information

[Deploying WAR files with JBoss 7.1 \[page 14\]](#)

3.3.1 Deploying WAR files with JBoss 7.1

Deploying WAR files with the web application server JBoss 7.1 requires a manual deployment as follows:

Note

For full information on deploying WAR files, including JBoss 7.1, refer to the Web Application Deployment Guide for the SAP BusinessObjects Business Intelligence platform 4.1 from the SAP Help Portal: <http://help.sap.com>.

1. Create a directory `rsa\main` under `<jboss 7 root>\modules\com`.
2. Copy all files from:

```
<BOE root>\SAP BusinessObjects Enterprise XI 4.0\wdeploy\rsa_module\
```

To

```
<jboss 7 root>\modules\com\rsa\main
```

3. Restart JBoss
4. Open a command line shell
5. Go to the wdeploy folder: `<BOE root>\SAP BusinessObjects Enterprise XI 4.0\wdeploy\`.
6. Type: `wdeploy.bat jboss7 predeployall`.
7. Copy all the WAR files from:

```
<BOE root>\SAP BusinessObjects Enterprise XI  
4.0\wdeploy\workdir\jboss7\application
```

To

```
c:\sau
```

This simplifies the path for the deployment in JBoss.

8. Go to `<jboss 7 root>\bin`.
9. Launch `jboss-cli.bat`.
10. Type `connect`.
11. Type the following command for `explorer.war`:
`deployment=explorer.war:add(enabled="true",runtime-name="explorer.war",
content=[{"path"=>"C:/sau/explorer.war","archive"=>false}])`.
12. Repeat the previous step for the `explorer_help.war` file substituting `explorer_help.war` for `explorer.war`.

3.4 Post-installation configuration

Once your SAP BusinessObjects Explorer installation is complete, you need to configure the following:

- the index directory where indexes will be stored
- the session timeout
- the Java Virtual Machine (JVM) heap size for each Explorer server
- For an upgrade from a release previous to version 4.2 SP5, when you configure the memory manually, remove the following options from the command line parameters for the Explorer Servers:
 - `-XX:MaxPermSize`
 - `-XX:MaxMetaspaceSize`
- If you are not using Tomcat as your web application server, you must redeploy all web applications. This includes redeploying all SAP BusinessObjects Business Intelligence platform web applications.

Refer to the *SAP BusinessObjects Explorer Administrator's Guide* and the *Business Intelligence Platform Administrator Guide* for information on configuring the Explorer servers.

Related Information

[Related documentation \[page 3\]](#)

3.4.1 Updating Explorer when SAP HANA version is updated

When installing or updating new versions of SAP HANA, Explorer should be also updated with the corresponding version of the SAP HANA JDBC driver.

Perform the following steps on all nodes containing Explorer:

1. Stop all Explorer servers:
 - Exploration
 - Indexation
 - Master
 - Search
2. Remove the old driver from the following directory:


```
$InstallFolder\SAP
BusinessObjects\Explorer14.0\plugins\com.sap.ngdbc_1.0.0\lib\ngdbc.jar
```

Note

The file can be deleted or moved to another directory that is not in the install folder.

3. Copy the new `ngdbc.jar` driver from the following directory `__installer.HDB\client\JDBC.TGZ\JDBC.tar\ngdbc.jar` to the location of the old driver.
4. Restart the Explorer servers.

3.5 To use ONE Installer

ONE Installer is a single installation package that supports multiple BI installation scenarios such as, fresh installation of a Service Package or Patch, any Patch to Patch update, or any Service Package to Patch update.

If you are new to SAP BusinessObjects BI Platform, then you can use ONE Installer package for fresh installation of the latest available Support Package or Patch version of the BI release.

Apart from the existing individual packaging types for fresh and update installation scenarios, this is a new packaging type introduced in 4.2 SP06 for both fresh and update installation scenarios. This package is shipped along with the existing packages.

For more information about ONE Installer, see the *Business Intelligence Platform Installation Guide for Unix* and the *Business Intelligence Platform Installation Guide for Windows*.

4 Uninstalling BusinessObjects Explorer

4.1 Uninstalling SAP BusinessObjects Explorer on Windows

Back up the SAP BusinessObjects Explorer WAR files, before you start the uninstallation procedure.

1. Navigate to the [Control Panel](#) of your Windows installation on the server machine.
2. Open [Add or Remove Programs](#).
3. Locate [SAP BusinessObjects Explorer](#).
4. Click [Remove](#).
5. In the confirmation box, click [Yes](#) to uninstall SAP BusinessObjects Explorer .

SAP BusinessObjects Explorer is removed from your system.

4.2 Uninstalling SAP BusinessObjects Explorer on UNIX

This procedure describes how to uninstall SAP BusinessObjects Explorer from an IBM AIX platform.

1. To uninstall the servers, execute the following commands from the wdeploy directory: [InstallDir]/sap_bobj/enterprise_xi40/wdeploy/wdeploy.sh
 - `wdeploy.sh tomcat7 -DAPP=explorer undeploy`

Note

If you are using a different version of Tomcat, replace the "7" by the version number.

- `modifyOrRemoveProducts.sh`
2. Remove SAP BusinessObjects Explorer 4.1.
 3. In the [Enter Information for existing CMS](#) screen, confirm you want to remove SAP BusinessObjects Explorer 4.1.
 4. Confirm your choice.
- SAP BusinessObjects Explorer is removed from your system.

Note

After uninstalling SAP BusinessObjects Explorer, the Explorer servers remain displayed in the CMC. If you wish to install another version or re-install Explorer, you must remove these servers from the list. Refer to Related Topics for this information.

Related Information

[Removing Explorer servers listed in the CMS \[page 18\]](#)

4.3 Removing Explorer servers listed in the CMS

After uninstalling SAP BusinessObjects Explorer, the Explorer servers may remain displayed within the CMC. For Windows systems it is not necessary to delete them before installing a newer version of Explorer.

On Linux, the Explorer services persist after uninstallation, and following a new installation of Explorer, the new Explorer services cannot be started. The Explorer servers in the CMC list need to be deleted.

You can remove the Explorer servers displayed in the CMC for Linux installations as follows:

1. Execute the following command from the wdeploy directory: `[InstallDir]/sap_bobj/enterprise_xi40/wdeploy/wdeploy.sh .
wdeploy.sh tomcat7 -DAPP=explorer undeploy`

Note

If you are using a different version of Tomcat, replace the "7" by the version number.



2. To uninstall SAP BusinessObjects Explorer, execute `modifyOrRemoveProducts.sh`.
3. Delete the folder `Explorer14.1`.
4. Delete any remaining Explorer Servers in the CMC.
5. If required, re-install SAP BusinessObjects Explorer.

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