

Preparation

This section details how to prepare for the installation of the SAP BusinessObjects Business Intelligence (BI) platform.

Process Flow

1. Ensure that sufficient disk space is available. Allow for both the operating system and the software to grow over time as patches or new components become available.
2. Gather the installation media or download the latest release and any patches or service packs from the SAP Service Marketplace as described in [To download the installation program](#).
 - To download SAPCAR, go to <http://service.sap.com/bosap-support> > **Software Downloads > Support Packages and Patches > Browse our Download Catalog > SAP Technology Components > SAPCAR**.
 - To download SAP HOST AGENT, go to <http://service.sap.com/bosap-support> > **Software Downloads > Support Packages and Patches > Browse our Download Catalog > SAP Technology Components > SAP HOST AGENT**

Note:

The path that you download the product to should not be too long.

3. If you plan to use SAP System Landscape Directory (SLD), ensure that the SAP Host Agent is installed before installing the BI platform. For more information on SLD, see “Registration of SAP BusinessObjects Business Intelligence platform in the System Landscape” in the *SAP BusinessObjects Business Intelligence Platform Administrator Guide*. For information on SAP Host Agent, see [To enable SAP System Landscape Directory \(SLD\) support](#).
4. Decide which options you will change select the installation process. In most cases, you can accept the default values. More advanced installations require that you plan the installation process. The installation program prompts for the following information:
 - License information (the name of the user and company associated with your BI platform license).
 - Web application server configuration, including type, connection, and authentication details.
 - Database server configuration, including type, connection, and authentication details.
 - CMS system and Auditing Data Store configuration information, including type, connection, and authentication details.
 - Folder where the BI platform will be installed.
 - Central Management Console (CMC) administrator account password and cluster key.
 - CMS port number to receive incoming connections.
 - Server Intelligence Agent (SIA) name.
 - Server Intelligence Agent (SIA) port number for incoming connections.
 - SAP Solution Manager Diagnostics (SMD) configuration.
 - CA Wily Introscope Enterprise Manager configuration.
 - Subversion or ClearCase version control system configuration to store configuration files.

- Lifecycle management (LCM) configuration.
- Installation type and components ("Full", "Custom / Expand", "Web Tier").

4.1 System requirements

Use the following guidelines when you install SAP BusinessObjects Business Intelligence platform:

- Ensure that the operating system is supported. Only 64-bit operating systems are supported.
- Before you run the installation program, ensure that the destination partition has enough room for the deployment to expand (when updates and new features are added in the future).
- If you install the deployment on the operating system partition, ensure that there is enough room for the deployment and the operating system. It is recommended that you have at least 2 gigabytes available for temporary files and web applications.
- If you have previously installed any SAP BusinessObjects products, the installation program uses the existing directory.

For a detailed list of supported operating systems and hardware requirements, consult the *Supported Platforms* documentation available at <http://service.sap.com/bosap-support>.

4.1.1 Additional requirements for Red Hat Linux

Before installing on Red Hat Linux, you must ensure all the required libraries are installed. Ensure you have root access, then use the *Yum* software installation tool to run the following commands:

- `yum install compat-libstdc++-33-3.2.3-69.el6.i686`
- `yum install compat-libstdc++-33.i686 0:3.2.3-69.el6`
- `yum install glibc.i686`
- `yum install libstdc++.i686`
- `yum install libX11-1.3-2.el6.i686`

If these libraries are not installed, you may encounter errors during the installation of SAP BusinessObjects Business Intelligence platform, as described in the following SAP Support Knowledge Base articles:

- 1692724
- 1692679
- 1692695

4.1.2 Additional requirements for Solaris

The SAP BusinessObjects Business Intelligence platform cannot be installed onto a Solaris machine that is configured with soft partitions.

4.1.3 Additional requirements for SUSE

Before installing on SUSE Linux Enterprise, edit or add the following kernel parameters and values to the `/etc/sysctl.conf` file:

```
kernel.sem = 250 32000 32 1024
kernel.msgmni = 1024
kernel.shmmax = 18446744073709551615
```

The root user account must be used to edit this file. To view the current contents of the `/etc/sysctl.conf` file, run `sysctl -p` from the command line. To check current limit settings for your operating system, run `ipcs -l` from the command line.

4.1.4 Account permissions

To install SAP BusinessObjects Business Intelligence platform on a Unix or Linux host, a user must have the following permissions:

Category	Required access
Operating system	<ul style="list-style-type: none"> • Permission to read, write, and execute scripts in the destination directory. • For a system install, root access is required (the installation program creates start-up run control scripts in <code>/etc/rc</code> that start or stop the servers when the host machine is started or stopped).
Network	<ul style="list-style-type: none"> • Network connectivity through appropriate ports to all machines in the deployment. • Access to shared file system directories. • Appropriate network authentication privileges.
Database	<ul style="list-style-type: none"> • Permission for the SAP BusinessObjects user account to create, edit, and drop tables. • Permission for the SAP BusinessObjects user account to create stored procedures (required by the Central Management Server (CMS) system database).

4.1.4.1 Additional Unix and Linux requirements

User account

Create a user account and group under which the software's background processes can run. Use this account to perform the installation and run the software. The account does not require root privileges.

Locale

Before you install, set the installing account's environment to use a supported UTF-8 locale and ensure that your console software supports UTF-8 character sets. To ensure that your operating system uses the correct locale, set the `LC_ALL` and `LANG` environment variables to your preferred locale in your login environment.

For example, the following `bash` shell commands set the locale to the United States English UTF-8 locale:

```
export LANG=en_US.utf8
export LC_ALL=en_US.utf8
```

Tip:

Type `locale` to check that all of the related locale environment variables (such as `LC_MONETARY`, `LC_NUMERIC`) were properly set by `LC_ALL`.

For a detailed list of supported Unix and Linux environments, see the Product Availability Matrix (PAM).

See the section on *International Deployments* in the *Administrator Guide* for information on deploying to a multilingual audience.

Commands

In order for the installation program to run correctly, the following utilities must be installed on your system and available on the path:

/bin/sh	pwd	read	touch
uname	expr	hostname	sed
awk	chown	grep	tail
tar	id	dirname	gzip
stty	ulimit	which	ping

If one of them is not available on your system, install a version from your operating system vendor rather than a third-party vendor (such as the GNU project).

Note:

The output from a GNU version of a utility can differ significantly from the version provided by your operating system vendor. To prevent the installation program from encountering output in an unexpected format, ensure that no GNU utilities are used in the installing user account's environment.

Installations

A new installation can be one of two different types.

- User installation

The installed software is owned by the account that was used to run the installation program. This account must be used to start and stop the servers. Access to the root user account is not required to perform a user installation, and installation program will exit if it detects that it is being run as root.

- System installation

A system installation is a finished user installation with system startup and shutdown run control scripts added. These scripts automatically start and stop SAP BusinessObjects Business Intelligence platform server functions as the operating system starts up or shuts down. The script to install the run control scripts must be run with root privileges after a user installation has completed.

4.1.5 Network permissions

Ensure that the upgrade management tool can communicate with the source and destination deployments. For more information on network permissions, see the “Securing SAP BusinessObjects Business Intelligence platform” chapter of the *SAP BusinessObjects Business Intelligence platform Administrator's Guide*.