

# CA Business Intelligence

## Installation Guide

r2.1



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# Chapter 1: Installation Overview

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This section contains the following topics:

[About CA Business Intelligence](#) (see page 7)

[Intended Audience](#) (see page 9)

[Where Installation Information is Located](#) (see page 9)

[Pre-Installation Checklist](#) (see page 11)

[Installation Features](#) (see page 12)

[Determine the Currently Installed Version of CA Business Intelligence](#) (see page 15)

[Determine the Version of CA Business Intelligence to Install](#) (see page 15)

[Gather Information for the Installer](#) (see page 16)

[Media Content](#) (see page 31)

[Download the Documentation Roadmap or Another Document](#) (see page 31)

## About CA Business Intelligence

CA Business Intelligence is a set of reporting and analytic software that is utilized by a variety of CA products for the purposes of presenting information and supporting business decisions. CA products use CA Business Intelligence to integrate, analyze, and then present, through a variety of reporting options, vital information required for effective enterprise IT management.

Included in CA Business Intelligence is BusinessObjects Enterprise XI, a complete suite of performance management, information management, reporting, and query and analysis tools.

CA Business Intelligence installs BusinessObjects Enterprise XI as a stand-alone component. It runs independently of any CA products, allowing a variety of CA products to share the same Business Intelligence services. The installation of CA Business Intelligence is a distinct and separate activity within the overall CA product installation process.

## Central Management Server

BusinessObjects Enterprise XI requires a database to store information about users and groups, security levels, BusinessObjects Enterprise XI content, and servers. The primary database, which is maintained by the Central Management Server (CMS), is known as the CMS database.

During the installation of CA Business Intelligence, you specify the CMS you will use and enter the required parameters for authentication. CA Business Intelligence provides the option to install its own version of MySQL for the CMS, or you can use your existing database. See the worksheets for databases in the section [Database Requirements](#) (see page 23) to determine the information required for each option.

A second database is required if you plan to use auditing capabilities.

## Auditing

CA Business Intelligence provides the option of enabling auditing of your CMS. Administrators can use auditing to gain a better understanding of the users accessing the system and the documents with which they interact. The CMS collects and collates auditing data from system interactions and then writes the information to the auditing database. Administrators can then generate reports based on this auditing data.

For more information about auditing, see the auditing chapter of the *BusinessObjects Enterprise Administrator's Guide*. For instructions on how to download guides from the Business Objects web site, see [Download the Documentation Roadmap or Another Document](#) (see page 31).

## Application Servers

BusinessObjects Enterprise XI requires an application server to process the server-side scripts that make up web applications.

During the installation of CA Business Intelligence, you specify which application server you will use and enter the required configuration parameters. CA Business Intelligence provides the option to install its own version of Apache Tomcat, or you can use your existing application server. See the worksheets for [application servers](#) (see page 17) to determine the information required for each option.

## Intended Audience

This guide is for users who require a stand-alone installation of CA Business Intelligence and the BusinessObjects environment. Users should have a working knowledge of the following:

- Relational databases
- Web servers
- Platforms on which CA Business Intelligence is being installed or uninstalled
- Experience managing an application server

## Where Installation Information is Located

The following table explains where to find information in this guide:

<b>Type of Information</b>	<b>Section</b>
What is Business Intelligence?	<a href="#">About CA Business Intelligence</a> (see page 7)
System requirements	<a href="#">CA Business Intelligence Installation Requirements</a> (see page 33)
Pre-installation checklist	<a href="#">Pre-Installation Checklist</a> (see page 11)
Information required by the installation wizard	<a href="#">Gather Information for the Installer</a> (see page 16)
Install CA Business Intelligence	Microsoft Windows: <a href="#">Installation on Microsoft Windows</a> (see page 39) Unix/Linux: <a href="#">Installation on Unix and Linux</a> (see page 51)
Install a new version	<a href="#">New Install</a> (see page 14)
Update an existing installation	<a href="#">Update</a> (see page 14)
Modify an existing installation	<a href="#">Modify</a> (see page 14)
Repair an existing version	<a href="#">Repair</a> (see page 15)

<b>Type of Information</b>	<b>Section</b>
Uninstall CA Business Intelligence	Microsoft Windows: <a href="#">Uninstall CA Business Intelligence From Microsoft Windows</a> (see page 46) Unix/Linux: <a href="#">Uninstall CA Business Intelligence From Unix and Linux</a> (see page 58)
Perform a silent installation	Microsoft Windows: <a href="#">Run a Silent Installation</a> (see page 41) Unix/Linux: <a href="#">Run a Silent Installation</a> (see page 53)
Perform a silent uninstallation	Microsoft Windows: <a href="#">Run a Silent Uninstallation</a> (see page 48) Unix/Linux: <a href="#">Run a Silent Uninstallation</a> (see page 60)
Modify a response file	Microsoft Windows: <a href="#">Modify a Response File</a> (see page 41) Unix/Linux: <a href="#">Modify a Response File</a> (see page 53)
Perform a console installation	Microsoft Windows: <a href="#">Run a Console Installation</a> (see page 40) Unix/Linux: <a href="#">Run a Console Installation</a> (see page 52)
Uninstall using the console	Microsoft Windows: <a href="#">Uninstall Using the Console</a> (see page 48) Unix/Linux: <a href="#">Uninstall Using the Console</a> (see page 59)
Uninstall manually	<a href="#">Uninstall Manually</a> (see page 49)

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## Pre-Installation Checklist

To prepare for the installation, you may want to print the following checklist to ensure you meet all of the necessary system and software requirements before installing CA Business Intelligence.

- System Requirements.** Confirm that the Microsoft Windows or Unix/Linux operating system that is to host CA Business Intelligence meets the minimum system requirements and that enough disk space is available for the target installation. See the section [CA Business Intelligence System Requirements](#) (see page 33).
- Installation Type.** Determine what type of installation you are interested in. See the section [Installation Types](#) (see page 12).
- Installation Options.** If a previous version of CA Business Intelligence is already installed on your machine, determine whether you want to perform an upgrade, modification, or repair of an existing version. See the section [Installation Options](#) (see page 13).
- Application Server Selection.** Determine whether you want CA Business Intelligence to install its own version of Apache Tomcat or if you want to use your existing application server.  
  
See the worksheets for [application servers](#) (see page 17) to determine the information required for each option.
- Database Requirements.** Before you create the database that you want to integrate with CA Business Intelligence, identify the required [settings](#) (see page 23).
- Database Selection.** Determine whether you want CA Business Intelligence to install its own version of MySQL or if you want to use your existing database.  
  
See the worksheets for each database in the section [Database Requirements](#) (see page 23) to determine the information required for each option.
- Auditing.** Determine whether you want auditing enabled for your database. See the section [Auditing](#) (see page 8).
- Installation Information.** See the section [Gather Information for the Installer](#) (see page 16) to identify all other required information before starting the installer.

- **Installation Method.** Select an installation method: use the installation wizard, launch a console installation, or perform a silent installation. See the section [How to Install on Microsoft Windows](#) (see page 39) or [How to Install on Unix and Linux](#) (see page 51).
- **Response Files.** A response file can be generated via the console or installation wizard. If you plan on performing a future silent installation of CA Business Intelligence on another machine, be sure to create the response file via the initial console or installation wizard's summary. See the section [Response Files](#) (see page 17).

## Installation Features

The following sections explain the available installation types and options when installing CA Business Intelligence.

### Installation Types

There are several differences between a typical installation and custom installation. The installation flow differs based on the installation type that you select.

#### Typical

Recommended for most users, a typical installation provides the most common application features which include:

- MySQL as the CMS
- Apache Tomcat as the application server

## Custom

Recommended for advanced users, a custom installation lets you select and configure the application features to be installed. A custom installation provides the options to do the following:

- Install MySQL or use a pre-existing CMS, including:
  - Oracle
  - Microsoft SQL
  - IBM DB2
  - Sybase
  - MySQL
- Install Apache Tomcat or use a pre-existing application server, including:
  - BEA WebLogic
  - IBM WebSphere
  - Microsoft IIS
  - Apache Tomcat

For detailed instructions on how to perform a complete custom installation, see [Custom Installation Details](#) (see page 63).

## Installation Options

The following installation options are available with CA Business Intelligence.

**Note:** Be sure to review the required information needed for each installation type before you run the installer. See the section [Gather Information for the Installer](#) (see page 16).

## New Installation

The new installation option lets you install CA Business Intelligence on a machine (with a supported operating system) where it was not previously installed. You can select either a typical or a custom installation when installing a new version of CA Business Intelligence.

**Note:** You cannot install CA Business Intelligence on an operating system that already has a non-CA version of BusinessObjects installed.

A new installation provides the options to:

- Install MySQL or use a pre-existing database management system (DBMS), such as:
  - MySQL
  - Oracle
  - Microsoft SQL
  - IBM DB2
  - Sybase
- Install Apache Tomcat or use a pre-existing application server, such as:
  - Apache Tomcat
  - BEA WebLogic
  - IBM WebSphere
  - Microsoft IIS

## Update

This option applies BusinessObjects patches to a pre-existing installation.

## Modify

The modify option alters a pre-existing installation of the CA Business Intelligence in the following ways:

- Enables [auditing](#) (see page 8) for the CMS (Microsoft Windows only)
- Installs a new version of Apache Tomcat (Microsoft Windows only) or uses a pre-existing application server:
  - Apache Tomcat
  - BEA WebLogic
  - IBM WebSphere
  - Microsoft IIS

## Repair

The repair option repairs an existing installation of CA Business Intelligence by reinstalling it using the properties saved from previous installations.

Formerly installed features are repaired such that the associated feature is returned to a state consistent with that of being a new install of CA Business Intelligence.

**Note:** This option is available for Microsoft Windows only.

## Determine the Currently Installed Version of CA Business Intelligence

Version information is contained in the CA Business Intelligence properties file.

### To locate the properties file and identify your release information

1. Navigate to the installation location.
2. The default location is C:\Program Files\CA\SC\CommonReporting.
3. Open the version.txt file in a text editor.
4. The first line in version.txt, "BIEK Version," is the current version.  
For example, 2.0.0.10 (the full line says "BIEK Version = 2.0.0.10").

## Determine the Version of CA Business Intelligence to Install

Before installing CA Business Intelligence, you must determine the version of CA Business Intelligence to install.

### CA Business Intelligence Components:

#### CA Business Intelligence 2.0

Includes the following components and patches from Business Objects:

1. BusinessObjects XI R2 SP2
2. BusinessObjects XI R2 Service Pack 3
3. BusinessObjects XI R2 FP3.3

#### CA Business Intelligence 2.1

Includes the following:

1. BusinessObjects XI R2 SP2
2. BusinessObjects XI Service Pack 4 from Business Objects

## Gather Information for the Installer

Review the following sections to identify the information required for CA Business Intelligence before running the installer.

Installation worksheets are included in this guide for the application server and CMS requirements. Before starting the installation, use these worksheets to record information that is required to install, modify, or repair CA Business Intelligence. You may want to print these worksheets and use them to record required information prior to running the installer.

### BusinessObjects Administrator Credentials

The BusinessObjects administrator password must be identified before running the installer for both typical and custom installations.

This password must be mixed-case, at least six characters long, and cannot contain the word *administrator* in any form. It should also contain at least two of the following character types:

- Uppercase
- Lowercase
- Numeric
- Punctuation

### Microsoft Windows Installation Path

When installing on Microsoft Windows, the CA Business Intelligence installation path must be identified before running the installer for both typical and custom installations.

### BEA WebLogic Administrator Credentials

If a pre-existing version of BEA WebLogic was originally installed with BusinessObjects, the installer prompts you for WebLogic Administrator credentials when updating or modifying CA Business Intelligence. This is because the BusinessObjects WAR files are redeployed to the WebLogic server once the patches are applied during installation.

## CA Shared Components

Shared components are communal across CA applications. You can use them in any CA application in which you have privileges to build a component.

The environment variable for locating CA shared components is set by the first CA product that uses CA shared components.

When installing on Unix/Linux, the installation location is always under the CA shared components directory. You are prompted for the CASHCOMP directory during installation if one has not been created already.

## Response Files

A response file, used in a silent installation, contains answers to installation questions that otherwise would be provided by the user during the GUI or console installation. Each answer is stored as a value for a variable identified in the response file.

When running the installer via the installation wizard or the console, you are given an option to create a response file in the pre-installation summary, and are prompted for a location to save it. The response file and its specified parameters can then be used to run the installation in silent mode on another machine(s).

If you want to modify the specified parameters stored in the response file after running a GUI or console installation, see the section [Modify the Response File](#) for both [Microsoft Windows](#) (see page 41) and [Unix/Linux](#) (see page 53).

## Application Server Worksheets

You can use the worksheets in the following sections to identify the necessary information to install and configure the application servers used with CA Business Intelligence.

## Apache Tomcat

Before gathering the necessary information for Apache Tomcat, determine whether you want the installer to install a new version, or if you want to use a pre-existing version as your application server.

Complete one of the following worksheets.

### New Installation

Use this worksheet to identify the required information if you plan on installing a new version of Apache Tomcat.

Information Needed	Your Value
Installation path (Custom installation only) Default: C:\Program Files\CA\SC\CommonReporting\Tomcat <b>Note:</b> This default deployment directory is the same directory where BusinessObjects Enterprise XI r2 is installed.	
Tomcat connection port Default: 8080	
Tomcat redirect port Default: 8443	
Tomcat shutdown port Default: 8005	

*Important!* The CA Business Intelligence installer requires that these ports be opened by an administrator prior to installation as a firewall consideration.

### Existing Version

Use this worksheet to gather information if you plan on using an existing version of Apache Tomcat.

Information Needed	Your Value
Deployment directory location	

## Deploy to Apache Tomcat with a Name Other Than the Default

If Apache Tomcat is running as a service and using a name other than the default service name, you must perform a few manual steps to deploy the BusinessObjects web applications manually.

The default Windows service name for Apache Tomcat 5.0 and 5.5 is Tomcat5.

The user can use Tomcat Windows Service Installer to just install Apache Tomcat windows service, or install the full Apache Tomcat and then install windows service (by running service.bat).

### To deploy the BusinessObjects web applications manually

1. If the deployment directory does not exist in the BusinessObjects installation directory, take wdeploy.zip from \redist folder and unzip it to the BusinessObjects installation directory.

A folder named \deployment is created in the BusinessObjects installation directory.

2. Ensure that %JAVA\_HOME is set to the JDK 1.5 home directory.
3. Open a command prompt and navigate to the \deployment folder under the BusinessObjects installation directory.
4. Enter the following command:

```
wdeploy tomcat_type -Das_mode=standalone -Das_dir="tomcat_directory"  
-Das_service_name=tomcat_service_name deployall
```

#### **tomcat\_type**

Specifies the Apache Tomcat type. Enter the following:

- Apache Tomcat 5.0: Enter **tomcat**.
- Apache Tomcat 5.5: Enter **tomcat55**

#### **tomcat\_directory**

Specifies the full-qualified Apache Tomcat installation directory.

#### **tomcat\_service\_name**

Specifies the Apache Tomcat service name that you are using.

Due to a known issue in wdeploy, if you are using Apache Tomcat 5.5, and wdeploy has been run previously, then you must modify `<tomcat dir>\conf\server.xml` file before running wdeploy. Do the following:

1. Open server.xml with a text editor.
2. Delete the following entities:
  - `<Context path="/businessobjects/enterprise115/adhoc" docBase="C:/PROGRA~1/CA/SC/COMMON~1/deployment/workdir/tomcat55/application/adhoc.war" reloadable="true"/>`
  - `<Context path="/businessobjects/enterprise115/adminlaunch" docBase="C:/PROGRA~1/CA/SC/COMMON~1/deployment/workdir/tomcat55/application/admin.war" reloadable="true"/>`
  - `<Context path="/businessobjects/enterprise115/desktoplaunch" docBase="C:/PROGRA~1/CA/SC/COMMON~1/deployment/workdir/tomcat55/application/desktop.war" reloadable="true"/>`
3. Save server.xml.

If Apache Tomcat is running as a process, then you must perform a complete Apache Tomcat installation.

`<tomcat dir>\bin` should contain catalina.bat for Microsoft Windows and catalina.sh for Linux/Unix. If you are using Apache Tomcat 5.5, then the JAVA\_HOME system environment variable must be set to point to a JAVA 5.0 jdk or jre.

## BEA WebLogic

Use this worksheet to gather the necessary information to configure an existing version of BEA WebLogic as your application server.

Information Needed	Your Value
Deployment domain path	
WebLogic Port	
Default: 7001	

Information Needed	Your Value
WebLogic Administrator ID	
Default: weblogic	
WebLogic Administrator Password	
WebLogic Admin server name	
Default: BIEK	
Version of WebLogic server already installed	
Default: 9	

## IBM WebSphere

Use this worksheet to gather the necessary information to configure an existing version of IBM WebSphere as your application server.

Information Needed	Your Value
Install Directory	
WebSphere Server Name	
Default: server1	

## Timing Consideration

To avoid timing issues when using CA Business Intelligence with IBM WebSphere, complete the following procedure before starting WebSphere.

### To enter the correct settings for IBM WebSphere

1. Go to the IBM WebSphere installation location (for example, /opt/WebSphere/AppServer/properties).
2. Open file soap.client.props and locate the section SOAP Request Timeout.
3. Assign a zero value to the following property:  
com.ibm.SOAP.requestTimeout

## Patching Considerations

If you have an existing version of CA Business Intelligence installed with IBM WebSphere as your application server, and you want to apply a patch to BusinessObjects Enterprise XI, you must delete the following BusinessObjects Enterprise XI applications before running the patch:

- adhoc
- admin
- analysishelp
- dswsbobje
- infoview
- jsfadmin
- styles
- webcompadapter

These applications are deployed to WebSphere at the end of a BusinessObjects Enterprise XI installation. Use the IBM WebSphere Administrative console to delete *only* these specific applications.

*Important!* The WebSphere server must be manually restarted after the BusinessObjects web application deployment.

## Manual Folder Deletion

After uninstalling CA Business Intelligence, there are folders (such as bobje) left behind in the installation directory. You must manually delete them.

If the BusinessObjects web applications have been deployed to the WebSphere server, then the WebSphere server must be stopped before the bobje folder can be deleted.

## Microsoft IIS

Microsoft IIS must be registered with your Active Server Pages (ASP) before starting the installation of CA Business Intelligence. If Microsoft IIS is not registered with your ASP, run the following command before starting the installation:

```
regsvr32 "C:\WINDOWS\Microsoft.NET\Framework\v1.1.4322\aspnet_isapi.dll
```

Information for Microsoft IIS is gathered from the Windows registry. No other information is required from the user.

## Database Requirements

Before you create the database that you want to integrate with CA Business Intelligence, review the following sections that detail which settings are required when the database is created and which settings you should test before beginning your CA Business Intelligence install.

### **More information:**

[Central Management Server](#) (see page 8)

[Auditing](#) (see page 8)

## Unicode Character Encoding

Ensure that your database client and server are configured to use Unicode character encoding (such as UTF-8). Consult your database documentation to determine the settings required for a Unicode configuration.

For database clients, you must set certain parameters. The DB2 client, for example, must use the DB2CODEPAGE value of 1208. The Sybase database client typically requires the parameter LC\_ALL and an appropriate entry in the locale.dat file.

When you install your database server, such as Oracle and Sybase, you need to configure the server to use Unicode encoding for the character data types. For other databases, such as DB2, you can create the CMS database with Unicode settings on your existing database server.

## Library Path Specification

CA Business Intelligence requires 32-bit database clients. The library path must be set to point to the 32-bit client libraries.

## MySQL

There are no specific parameters for a MySQL database that are crucial for BusinessObjects Enterprise to work, other than the setting of UTF-8. See the section [Unicode Character Encoding](#) (see page 23).

## MySQL Worksheet

Use one of the following worksheets to identify the necessary information to install and configure MySQL as your CMS.

Before you gather the necessary information for MySQL, determine whether you want the installation wizard to install a new version, or if you want to use a pre-existing version.

### New Installation

Use the following worksheet to identify the required information if you plan on installing a new version of MySQL.

Information Needed	Your Value
Do you want auditing enabled for your database?	Yes or No
If yes, determine if you want to use the same settings for your audit database as those defined for your CMS. If you do, the installer takes the information you specify for your CMS and uses it for your auditing database. If you want to enter new settings for your auditing database, see the next worksheet.	
MySQL root password	
User name	
Password	
Database name	

For the installer to correctly set up auditing for your MySQL database installation (assuming you do not want to use the same settings as what is defined for your CMS), identify the following for your audit database:

Information Needed	Your Value
MySQL hostname	
Port number	
User name	
Password	
Database name	

## Existing Version

Use this worksheet to gather information if you plan on using an existing version of MySQL.

Information Needed	Your Value
Do you want auditing enabled for your database?	Yes or No
If yes, determine if you want to use the same settings for your audit database as those defined for your CMS. If you do, the installer takes the information you specify for your CMS and uses it for your auditing database. If you want to enter new settings for your auditing database, see the next worksheet.	
MySQL hostname	
Port number	
User name	
Password	
Database name	

For the installer to correctly set up auditing for your MySQL database (assuming you do not want to use the same settings as what is defined for your CMS), identify the following for your audit database:

Information Needed	Your Value
MySQL hostname	
Port number	
User name	
Password	
Database name	

## Oracle

There are no specific parameters for an Oracle database that are crucial for BusinessObjects Enterprise to work, other than the setting of [UTF-8](#) (see page 23). However, before you begin the install of BusinessObjects Enterprise, you must ensure the Oracle environment variables are set up correctly.

## Oracle Worksheet

Use this worksheet to gather the necessary information to configure an existing version of Oracle as your CMS.

Information Needed	Your Value
Do you want auditing enabled for your database?	Yes or No
If yes, determine if you want to use the same settings for your audit database as those defined for your CMS. If you do, the installer takes the information you specify for your CMS and uses it for your auditing database. If you want to enter new settings for your auditing database, see the next worksheet.	
TNS name	
User name	
Password	

For the installer to correctly set up auditing for your Oracle database (assuming you do not want to use the same settings as what is defined for your CMS), identify the following for your audit database:

Information Needed	Your Value
TNS name	
User name	
Password	

## Microsoft SQL Server

There are no specific parameters for a Microsoft SQL database that are crucial for BusinessObjects Enterprise to work, other than the setting of [UTF-8](#) (see page 23).

## Microsoft SQL Worksheet

Use this worksheet to gather the necessary information to configure an existing version of Microsoft SQL Server as your CMS.

Information Needed	Your Value
Do you want auditing enabled for your database?	Yes or No
If yes, determine if you want to use the same settings for your audit database as those defined for your CMS. If you do, the installer takes the information you specify for your CMS and uses it for your auditing database. If you want to enter new settings for your auditing database, see the next worksheet.	
DSN name	
Database name	
User name	
Password	

For the installer to correctly set up auditing for your Microsoft SQL Server database (assuming you do not want to use the same settings as what is defined for your CMS), identify the following for your audit database:

Information Needed	Your Value
DSN name	
Database name	
User name	
Password	

## IBM DB2

If you are using a DB2 database with your BusinessObjects Enterprise installation, there are specific settings you must select when the database is created.

**Important!** Modifying these settings after the database has been created is not acceptable.

When you create the database to use with BusinessObjects Enterprise:

- Ensure that the CMS database is not partitioned.

If your IBM DB2 CMS database is partitioned, you will have problems creating the CMS database.

**Note:** This requirement does not apply to the auditing database. If you prefer, you can use a partitioned IBM DB2 database for the auditing database.

- Create the database with the specific settings.

```
Collating Sequence = "Identity"  
Codeset = "UTF-8"  
Territory = "xx"
```

If your IBM DB2 database does not have the correct collating sequence setting, the users and usergroup objects may not sort properly in the Central Management Console (the BusinessObjects administration environment which provides control of the tasks that include setting up user roles, security access, server administration, password management, and so on).

### **xx**

The code that is appropriate to your code set and codepage for your location. Consult your IBM DB2 documentation for specifics.

- Ensure that your IBM DB2 database client and server are set up to use Unicode character encoding (such as UTF-8). See the section [Unicode Character Encoding](#) (see page 23).

**Note:** If you are using IBM DB2 8.1, you must have a C compiler that is installed and configured to build SQL stored procedures. IBM DB2 8.2 does not have this requirement. SQL stored procedures are used in BusinessObjects Enterprise when users are added to groups in the CMS. See the IBM DB2 documentation for details on how to configure the C compiler for SQL stored procedures, and for determining what version of the C compiler is supported on your platform.

**IBM DB2 Worksheet**

Use this worksheet to gather the necessary information to configure an existing version of IBM DB2 as your CMS.

<b>Information Needed</b>	<b>Your Value</b>
Do you want auditing enabled for your database?	Yes or No
If yes, determine if you want to use the same settings for your audit database as those defined for your CMS. If you do, the installer takes the information you specify for your CMS and uses it for your auditing database. If you want to enter new settings for your auditing database, see the next worksheet.	
Database alias	
User name	
Password	

For the installer to correctly set up auditing for your IBM DB2 database (assuming you do not want to use the same settings as what is defined for your CMS), identify the following for your audit database:

<b>Information Needed</b>	<b>Your Value</b>
Database alias	
User name	
Password	

## Sybase

If you are using Sybase, when you create your database for the CMS, ensure the page size is set to 8 KB.

**Note:** The Sybase database default page size is 2KB which is too small for the CMS. For the CMS to run optimally, the page size must be 8KB. The page size is set up during the database creation and it cannot be changed after the database is set up.

Ensure that your Sybase database client and server are set up to use Unicode character encoding (such as UTF-8). See the section [Unicode Character Encoding](#) (see page 23).

## Sybase Worksheet

Use this worksheet to gather the necessary information to configure an existing version of Sybase as your CMS.

Information Needed	Your Value
Do you want auditing enabled for your database?	Yes or No
If yes, determine if you want to use the same settings for your audit database as those defined for your CMS. If you do, the installer takes the information you specify for your CMS and uses it for your auditing database. If you want to enter new settings for your auditing database, see the next worksheet.	
Database alias	
User name	
Password	

For the installer to correctly set up auditing for your Sybase database (assuming you do not want to use the same settings as what is defined for your CMS), identify the following for your audit database:

Information Needed	Your Value
Database alias	
User name	

Information Needed	Your Value
Password	

## Media Content

BIEK r2 is distributed on a five-DVD set. One DVD per operating system is included.

## Download the Documentation Roadmap or Another Document

BusinessObjects has a documentation roadmap that provides extensive information on the available guides in task-based format. Use the roadmap as your starting point for becoming familiar with the documentation set.

You can use this procedure to download all documentation listed on the roadmap.

### To download the documentation roadmap

1. Open your web browser and go the SAP Help Portal:

<http://help.sap.com/>

2. At the top of the page, click the Business Objects tab.
3. Select the following from the drop-down lists:

Language: English

Product: BusinessObjects Enterprise

Version: BusinessObjects XI Release 2

**Note:** If you want to download patch-specific documentation, select the appropriate patch number from the version drop-down list.

4. Right-click the PDF icon for the following document:

BusinessObjects XI Release 2 Product Documentation Roadmap

**Note:** Similarly, if you want to download another document, right-click that document's PDF icon.

5. From the pop-up dialog, choose the menu item to save the PDF file locally.

**Note:** Help system updates are not available from the Business Objects website. They are provided in the patch updates.



# Chapter 2: CA Business Intelligence Installation Requirements

---

The following installation requirements must be met in order to use CA Business Intelligence.

This section contains the following topics:

[Platform-Specific Requirements](#) (see page 33)

[Server Platform Support](#) (see page 33)

[CA Business Intelligence System Requirements](#) (see page 34)

## Platform-Specific Requirements

This guide contains the general system requirements that are needed to install CA Business Intelligence. However, additional detailed information is provided by Business Objects about patch specifications, browser support, Service Pack updates, and so on.

**Important!** Before running the CA Business Intelligence installer, it is essential that you carefully review your specific platform's requirements to ensure a successful installation of CA Business Intelligence. See the Readme for the specific location of these important platform requirements documents provided by Business Objects.

## Server Platform Support

**Note:** BusinessObjects updates their supported platform list periodically. See the Readme for the specific location of these important platform requirements documents provided by Business Objects.

The following server platforms represent those platforms supported by BusinessObjects.

OS	Release	Version/Level
Microsoft Windows 2000	Advanced Server	SP4
Microsoft Windows 2000	Datacenter Server	SP4

<b>OS</b>	<b>Release</b>	<b>Version/Level</b>
Microsoft Windows 2000	Server	SP4
Microsoft Windows 2003 Server	Enterprise Edition	R2
Microsoft Windows 2003 Server	Datacenter Edition	SP1and SP2
Microsoft Windows 2003 Server	Enterprise Edition	SP1and SP2
Microsoft Windows 2003 Server	Standard Edition	SP1and SP2
Microsoft Windows 2003 Server	Web Edition	SP1and SP2
Linux Red Hat	Advanced and Enterprise Server for x86	4.0
Linux SuSe	Enterprise Server for x86	9.0
Unix Solaris	For SPARC	8, 9 and 10
Unix AIX	5L	5.2 and 5.3
UNIX HP-UX	PA-RISC	11.11 and 11.23

**Notes:** To successfully install CA Business Intelligence on Microsoft Windows, the user who runs the installation must be a member of the local Administrators group.

## CA Business Intelligence System Requirements

The following sections list the hardware and software requirements.

### Operating Systems

The following operating systems are recommended for CA Business Intelligence.

**Note:** The disk space specified for each platform is a combined amount of the space required for the installation of Business Objects Enterprise XI and Service Pack 4. Additional patches provided by Business Objects may require additional disk space.

## Microsoft Windows

The Windows system to which you are installing CA Business Intelligence must meet at least the following system requirements:

### **CPU**

P3 700 MHz

### **Memory**

2 GB RAM

### **Available disk space**

8.5 GB

### **DVD-ROM**

## Linux

The Linux system to which you are installing CA Business Intelligence must meet at least the following system requirements:

### **CPU**

P3 700 MHz

### **Memory**

1 GB RAM

### **Available disk space**

5.5 GB

### **DVD-ROM**

## Solaris

The Solaris system to which you are installing CA Business Intelligence must meet at least the following system requirements:

### **CPU**

SPARC v8plus

### **Memory**

512 MB RAM

### **Available disk space**

6.75 GB

### **DVD-ROM**

## AIX

The AIX system to which you are installing CA Business Intelligence must meet at least the following system requirements:

### CPU

1 CPU, Power 4

### Memory

2 GB RAM

### Available disk space

10 GB

### DVD-ROM

## HP-UX

The HP-UX system to which you are installing CA Business Intelligence must meet at least the following system requirements:

### CPU

11.11 PA-RISC

### Memory

2 GB RAM

### Available disk space

7 GB

### DVD-ROM

## Supported Databases

If you do not want MySQL installed, you must have a compatible database server installed and configured for the CMS.

<b>Provider Name</b>	<b>Data Connector</b>
IBM DB2/UDB for NT/Unix 8.1	DB2 Client 8.1
IBM DB2/UDB for NT/Unix 8.2	DB2 Client 8.2
IBM DB2/UDB for NT/Unix/Linux 9.1	DB2 Client 9.1
MS SQL Server 2000 SP4	Microsoft ODBC MDAC 2.8
MS SQL Server 2005	Microsoft ODBC MDAC 2.8 Microsoft ODBC SNAC (Native Client)

<b>Provider Name</b>	<b>Data Connector</b>
MS SQL Server 7.0 SP4	Microsoft ODBC MDAC 2.7
MySQL 4.1.13	MySQL C-API
Oracle 10g R1 (10.1)	Oracle Net Client 10.1(1)
Oracle 10g R2 (10.2)	Oracle Net Client 10.2(1)
Oracle 9.2	Oracle Net Client 9.2
Sybase Adaptive Server Enterprise 12.5.2	Sybase Open Client 12.5.2
Sybase Adaptive Server Enterprise 15	Sybase Open Client 12.5.2

**More information:**

[Database Requirements](#) (see page 23)

[Central Management Server](#) (see page 8)

[Auditing](#) (see page 8)

## Supported Application Servers

If you do not want Apache Tomcat installed by the CA Business Intelligence installer, you must have a compatible application server already installed. The following application servers are supported:

<b>Application Server</b>	<b>JDK</b>
Microsoft IIS 5.0 (Windows only)	N/A
Microsoft IIS 6.0 (Windows Only)	N/A
Apache Tomcat 5.0.27	1.4.2_08+ 1.5.0_xx
Apache Tomcat 5.5	1.5.0_xx
BEA WebLogic 8.1 SP4	1.4.2_x
BEA WebLogic 9.2	1.5.0_4+
IBM WebSphere 5.1.0.4	1.4.1_x
IBM WebSphere 5.1.1.x (excluding 5.1.1.4)	1.4.2_x
IBM WebSphere 6.0.0.2	1.4.2_x
IBM WebSphere 6.1.0.7	1.5.0_xx



# Chapter 3: Installation on Microsoft Windows

---

The following sections describe how to install CA Business Intelligence on Microsoft Windows.

This section contains the following topics:

[Microsoft Windows Permission](#) (see page 39)

[How to Install on Microsoft Windows](#) (see page 39)

[Uninstall From Microsoft Windows](#) (see page 46)

## Microsoft Windows Permission

To successfully install BusinessObjects Enterprise on Microsoft Windows, the user who runs the setup program must be a member of the local Administrators group.

The following are not supported:

- Installing on a domain controller.
- Installing on a machine where the Windows default security settings given to the local Administrators group have been modified.

**Note:** Contact your administrator for any problems relating to permissions.

## How to Install on Microsoft Windows

To install CA Business Intelligence on Microsoft Windows, complete the following procedures:

1. Review the section [Pre-Installation Checklist](#) (see page 11).
2. Ensure that all the prerequisite information for the installation is identified. See the section [Gather Information for the Installer](#) (see page 16).
3. Run the CA Business Intelligence installation through the installation wizard, console, or silent installation. See the following sections for details.

## Run the CA Business Intelligence Installation Wizard

Run the CA Business Intelligence installation wizard with `install.exe`, which is located in the `Disk1\InstData` folder on the CA Business Intelligence DVD for Microsoft Windows.

### To run the CA Business Intelligence installation wizard

1. Exit all applications that are running.
2. Insert the CA Business Intelligence DVD for Microsoft Windows and open the `Disk1\InstData\VM` folder.
3. Double-click `install.exe`.

The CA Business Intelligence installation wizard begins.

You can also start the installation wizard by doing the following:

1. Open a DOS command prompt.
2. Enter the following:

**`Disk1\InstData\VM\install.exe`**

The CA Business Intelligence installation wizard begins.

Follow the installation wizard panel instructions and use your completed worksheets to complete the wizard panels.

For detailed instructions on how to perform a complete custom installation, see [Custom Installation Details](#) (see page 63).

## Run a Console Installation

A console installation is another way to install CA Business Intelligence where command line prompts are provided for your input data.

### To run a console installation

1. Exit all applications that are running.
2. Insert the CA Business Intelligence DVD for Microsoft Windows.
3. From a command prompt, enter:

**`Disk1\InstData\VM\install.exe -i console`**

The CA Business Intelligence installation begins.

4. For each input prompt, use your completed worksheets to identify the required values.

## Run a Silent Installation

A silent installation is one that runs from the command line using the values provided in a response file. It does not prompt the user for input.

To run a silent installation with the values from the response file, you must use the command prompt to navigate to the directory that contains install.exe.

### To run a silent installation of CA Business Intelligence

1. Open a DOS command prompt.
2. Change the directory to .../Disk1/InstData/VM.
3. Enter the following command:

```
Disk1\InstData\VM\install.exe -f <path to response file>
```

#### ***path to response file***

The full path to the response file. The response file does not have to be in the same directory; it can be located anywhere and it can be named anything.

For more information about the response file, see the section [Response Files](#) (see page 17).

The CA Business Intelligence installation begins.

## Modify a Response File

Once a response file has been created, you can modify its settings using a text editor. The default parameters in the file reflect the information you entered during the initial installation via the installation wizard. For each system configuration, the response file has different parameters defined (for example, directory paths for Unix/Linux and Windows). Change the default values to best suit your environment.

**Note:** Changing the response file does not affect the current installation in any way. The response file is for use with a new installation on another machine.

Follow these guidelines when editing a response file:

- Before modifying this file, back up the original for safekeeping.
- Make changes according to the current system settings and comments provided in the response file.
- Save the file after you make changes.

## Example

The following is an example of the response file created during the initial typical CA Business Intelligence installation:

```
#####
# This is an InstallAnywhere variable that enables the installer to run in #
# silent mode and uses this properties file as the input #
# DO NOT MODIFY THIS VALUE #
#####

INSTALLER_UI=silent

#####
# INSTALLATION OPTIONS #
#####
#####
#####
#NOTE:For licensing purposes the installation should not be run if a NON CA BusinessObjects XI is already#
#installed on the machine / system. #
#####
#####

#This property indicates if the installer machine already has a CA BusinessObjects installed or not.
#Valid values => false {for TYPICAL or CUSTOM install set} or true {for UPDATE, MODIFY or REPAIR install set}
#This property will be verified in the installer.
#For example, if the CHOSEN_INSTALL_SET is UPDATE and this property is set to true, the installer still verifies
that
#CA BOXI is installed. If no CA BOXI is found, no update will be attempted.
IS_CA_BOXI_INSTALLED=false

#The chosen Install set value can be TYPICAL, CUSTOM, UPDATE, MODIFY
# and REPAIR {REPAIR is available only on Windows}
CHOSEN_INSTALL_SET=TYPICAL

#Destination Location #
# This value will be used only in Windows system #
USER_INSTALL_DIR=C:\Program Files\CA\SC\CommonReporting

# This is the BusinessObjects Installer source folder #
BIEK_SOURCE_DIR = C:\CABI_Installer\Disk1\InstData\VM\.\.\cabi

# This is the folder for BIEK API. #
# Its value is usually $BIEK_SOURCE_DIR\biek #
BIEK_PATH_DIR = C:\CABI_Installer\Disk1\InstData\VM\.\.\cabi\biek

#####
# Password for BusinessObjects XI's Administrator user #
# This value will be used to set the Administrator password #
# during TYPICAL or CUSTOM install sets #
```

```

# The password should be atleast 6 characters long      #
# The password can not contain 'administrator' in any form #
# The password has to have at least two of the following #
# types of characters                                  #
# - Uppercase                                         #
# - Lowercase                                         #
# - Number                                             #
# - Punctuation                                       #
#####

BIEK_BO_ADMIN_PASSWORD=CABlbo

#####
# Parameters specifically needed #
# only for non Windows OS      #
#####

# The CA Business Intelligence installer should be run as the 'root' user.
# The CA Business Intelligence wraps the BusinessObjects installation program that
# needs to run as a non-root user.
# Eenter credentials for a valid non-root user.
CABI_NONROOT_USER=
CABI_NONROOT_GROUP=

#The following value will be used to set the CASHCOMP dir if one is not already
# defined in the current environment.
BIEK_CASHCOMP_USER_DEFINED=

##### END NON WINDOWS SPECIFIC PARAMETERS #####

# Port to be used by the Central Management Server
#Default value is 6400
#This value can be changed only on NON WINDOWS OS
BIEK_PARAM_CMSPORT = 6400

#####
# The Locale code for the BO install #
#####
# English   = en
# French    = fr
# German     = de
# Spanish    = es
# Japanese  = ja
# Simplified
# Chinese   = zh_CN
# Traditional
# Chinese   = zh_TW
# Korean    = ko
# Dutch     = nl

```

```
# Swedish = sv
# Italian = it
# Portugese = pt
INSTALLER_LOCALE = en

#####
# Set CMS Database parameters #
#                               #
#####

# should mysql be installed? The value can be true or false.
BIEK_INSTALL_MYSQL = true

#CMS DB TYPE can be MYSQL, MSSQL, DB2, ORACLE or SYBASE
BIEK_CMS_DB_TYPE=MYSQL

# MySQL root password
BIEK_MYSQL_ROOT = root

# User id to be used for MYSQL, DB2, MSSQL, ORACLE, SYBASE
BIEK_CMS_USER = businessobjects

# Password to be used for MYSQL, DB2, MSSQL, ORACLE, SYBASE
BIEK_CMS_PASSWORD = businessobjects

# CMS database name for MYSQL, MSSQL
BIEK_CMS_DB = $BIEK_CMS_DB$

# Database alias for DB2 / SYBASE, database server name for MYSQL, TNS name for ORACLE
BIEK_CMS_SRV = BOE115

# MSSQL DSN
BIEK_CMS_DSN =

# MYSQL server port number, needed for existing MYSQL installation
BIEK_CMS_PORT=

#####
# Set Audit database parameters #
#                               #
#####

# enable auditing for BO
BIEK_ENABLE_AUDITING = true

# User id to be used for MySQL, DB2, MSSQL, ORACLE,
BIEK_AUDIT_USER = businessobjects

# Password to be used for MySQL, DB2, MSSQL, ORACLE,
```

```
BIEK_AUDIT_PASSWORD = businessobjects

# database name for MySQL, MSSQL
BIEK_AUDIT_DB = BOE115_Audit

# DB2 database alias, MYSQL server host name, ORACLE TNS name, SYBASE database alias
BIEK_AUDIT_SRV =

# MSSQL DSN name
BIEK_AUDIT_DSN =

# MYSQL server port number
BIEK_AUDIT_PORT =

#####
# WEB SERVER PROPETIS      #
#####

# Do you want BO to install Tomcat
BIEK_INSTALL_TOMCAT = true

# install .NET for IIS?
BIEK_INSTALL_DOTNET = false

# WEB SERVER TYPE can be TOMCAT, WEBLOGIC, WEBSPPHERE or IIS
CABL_WEB_SERVER_TYPE=TOMCAT

#####
#  POST_INSTALL FUNCTIONS  #
#####

#####
# BO Tomcat Installation    #
# New or Existing          #
#####

# BO Tomcat directory either for new installation or for existing TOMCAT installation
BIEK_TOMCAT_DIR = C:\Program Files\CA\SC\CommonReporting\Tomcat

#Following TOMCAT values are needed only for a new TOMCAT installation.

# BO Tomcat Connection Port
BIEK_TOMCAT_CONNECTION_PORT = 8080

# BO Tomcat Redirect Port
BIEK_TOMCAT_REDIRECT_PORT = 8443

# Bo Tomcat Shutdown port
BIEK_TOMCAT_SHUTDOWN_PORT = 8005
```

```
#####  
# Deploy to Existing      #  
# Application Server      #  
#####  
  
# Target if deploying to a Websphere server  
BIEK_DEPLOY_WEBSPHERE_DIR =  
  
# Websphere Server Name  
BIEK_DEPLOY_WEBSPHERE_SRV =  
  
# Target if deploying to a WebLogic server  
BIEK_DEPLOY_WEBLOGIC_DIR =  
  
# Port number of weblogic server  
BIEK_DEPLOY_WEBLOGIC_PORT =  
  
# Admin user name for weblogic server  
BIEK_DEPLOY_WEBLOGIC_USER =  
  
# Admin user password for weblogic server  
BIEK_DEPLOY_WEBLOGIC_PWD =  
  
# Name of weblogic server  
BIEK_DEPLOY_WEBLOGIC_SRV =  
  
# Version of weblogic server ( 8 or 9)  
BIEK_DEPLOY_WEBLOGIC_VERSION =  
  
#####  
# Properties that control the log messages from BIEK API #  
#####  
  
BIEK_LOG_FILE=C:\\Program Files\\CA\\SC\\CommonReporting\\ca-install.log  
BIEK_DEBUG_ON=true
```

## Uninstall From Microsoft Windows

Uninstall CA Business Intelligence when it is no longer required on the system. The following sections explain how to uninstall CA Business Intelligence and its accompanying documentation from Microsoft Windows.

## Uninstallation Types

CA Business Intelligence offers two choices for uninstallation:

### **Complete Uninstall**

This option completely removes all features and components of CA Business Intelligence. Files and folders created after the installation are not affected.

### **Uninstall Specific Features**

This option lets you choose specific features of CA Business Intelligence to be uninstalled.

**Note:** A silent uninstallation cannot uninstall specific features; only a complete uninstallation can be performed.

## Uninstall Using the GUI

The uninstallation process starts in GUI mode by default *only* if the installer was run in GUI mode.

### **To uninstall CA Business Intelligence using the GUI**

1. Exit all applications that are running.
2. Open the CommonReporting folder located under C:\Program Files\CA\SC (assuming the installation location is C:\Program Files\CA\SC\CommonReporting).
3. Double-click Uninstall CA Business Intelligence.exe.

If you ran the installer either silently or via the console, double-clicking Uninstall CA Business Intelligence.exe starts the uninstallation process in silent mode only. In this scenario, if you wanted to start the uninstallation using the GUI, do the following:

1. Open a DOS command prompt.
2. Enter the following:

**C:\Program Files\CA\SC\CommonReporting\Uninstall CA Business Intelligence\Uninstall CA Business Intelligence.exe -i swing**

The CA Business Intelligence uninstallation process begins.

## Uninstall Using the Console

### To uninstall CA Business Intelligence using the console

1. Exit all applications that are running.
2. Open a DOS command prompt.
3. Go to the Uninstall CA Business Intelligence folder located under C:\Program Files\CA\SC\CommonReporting (assuming the installation location is C:\Program Files\CA\SC\CommonReporting).
4. Enter the following:

#### **Uninstall CA Business Intelligence.exe –i console**

The CA Business Intelligence uninstallation process begins.

## Run a Silent Uninstallation

### To uninstall CA Business Intelligence silently

1. Exit all applications that are running.
2. Open a DOS command prompt.
3. Go to the Uninstall CA Business Intelligence folder located under C:\Program Files\CA\SC\CommonReporting (assuming the installation location is C:\Program Files\CA\SC\CommonReporting).
4. Enter the following:

#### **Uninstall CA Business Intelligence.exe –i silent**

The CA Business Intelligence uninstallation process begins.

If CA Business Intelligence was installed silently or using the console, you can also perform a silent uninstallation by doing the following:

1. Open a DOS command prompt.
2. Enter the following:

#### **C:\Program Files\CA\SC\CommonReporting\Uninstall CA Business Intelligence\Uninstall CA Business Intelligence.exe**

The CA Business Intelligence uninstallation process begins.

## Uninstall Manually

### To uninstall CA Business Intelligence manually

1. Determine whether you have BusinessObjects patches installed and, if so, uninstall the patches in reverse order:
  - a. Locate the `biek.properties` file in the `CommonReporting` directory where you installed the product.
  - b. If you find the `biek.properties` file, open the file with a text editor and locate the `[Patches]` section. If you see any line that begins with "Patch1", "Patch2", and so on, then you have patches installed. Write down the patch files in reverse order (Patch3, Patch2, and so on).
  - c. If you do not find the `biek.properties` file, look for files in the `CommonReporting` directory that have the form `C_patch.zip`, where *patch* is the name of a patch that has been installed. These files are placed in the `CommonReporting` directory during installation.
2. Locate the `patch.properties` file, which should be in the `CommonReporting` directory. If the file is not there, you can find this file on the installation media in the `Disk1\cabi\patch` directory.
3. Use a text editor to open the `patch.properties` file to display the instructions for installing and uninstalling the BusinessObjects patches. The instructions are comprised of sections where each section represents a patch.
4. Locate the section for the *last* patch applied.
5. Within that section, locate a line that begins with "UNINSTALL\_WIN=." The rest of the line is the command for uninstalling the patch that the line is associated with.
6. In a CMD window, run the command.
7. Repeat Steps 4 to 6 for each patch.
8. Uninstall BusinessObjects by running the following command:  

```
msiexec /x {1FF06B85-EB4F-400D-8602-30A1DD48673B}
```



# Chapter 4: Installation on Unix and Linux

---

The following sections describe how to install CA Business Intelligence on Unix and Linux operating systems.

**Note:** The installer acts the same in both environments.

This section contains the following topics:

[Root/Non-Root Credentials](#) (see page 51)

[How to Install on Unix and Linux](#) (see page 51)

[Uninstall From Unix and Linux](#) (see page 58)

## Root/Non-Root Credentials

BusinessObjects cannot be installed as a root application on Unix and Linux. Since the installer is required to run as root, it switches to non-root credentials to run the BusinessObjects installation once the CA "run as root" portion of the installation is complete.

## How to Install on Unix and Linux

To install CA Business Intelligence on Unix and Linux, complete the following procedures:

1. Review the section [Pre-Installation Checklist](#) (see page 11).
2. Ensure that all the prerequisite information for the installation is identified. See the section [Gather Information for the Installer](#) (see page 16).
3. Run the CA Business Intelligence installation through the installation wizard, console, or silent installation. See the following sections for details.

## Run the CA Business Intelligence Installation Wizard

You run the CA Business Intelligence installation wizard with the Bourne shell script `install.bin`.

### To run the CA Business Intelligence installation wizard

1. Exit all applications that are running.
2. Insert the CA Business Intelligence DVD for Unix/Linux and open a Bourne shell.
3. Enter the following:

#### **`cabiinstall.sh gui`**

...which is located in the root directory of the CA Business Intelligence installation package.

The CA Business Intelligence installation wizard begins.

4. Follow the installation wizard panel instructions and use your completed worksheets to complete the wizard panels.

For detailed instructions on how to perform a complete custom installation, see [Custom Installation Details](#) (see page 63).

## Run a Console Installation

A console installation is another way to install CA Business Intelligence where command line prompts are provided for your input data.

### To run the console installation

1. Exit all applications that are running.
2. Insert the CA Business Intelligence DVD for Unix/Linux and open a Bourne shell.
3. Enter the following:

#### **`cabiinstall.sh console`**

...which is located in the root directory of the CA Business Intelligence installation package.

The CA Business Intelligence installation begins.

4. For each input prompt, use your completed worksheets to identify the required information.

## Run a Silent Installation

A silent installation is one that is run from the command line using the values provided in a response file. It does not prompt the user for input.

### To run a silent installation of CA Business Intelligence

1. Exit all applications that are running.
2. Insert the CA Business Intelligence DVD for Unix/Linux and open a Bourne shell.
3. Enter the following:

**cabiinstall.sh silent** *<path to response file>*

...which is located in the root directory of the CA Business Intelligence installation package.

#### ***path to response file***

The full path to the response file. The response file does not have to be in the same directory; it can be located anywhere and it can be named anything.

For more information about the response file, see the section [Response Files](#) (see page 17).

The CA Business Intelligence installation begins.

**Note:** When running a silent installation, if the install launches into the GUI or console mode, it could be because the properties file path is invalid. If this happens, cancel the GUI/console installation and correct the properties file path to continue with the silent installation.

## Modify a Response File

Once a response file has been created, you can modify its settings using a text editor. The default parameters in the file reflect the information you entered during the initial installation via the installation wizard. For each system configuration, the response file has different parameters defined (for example, directory paths for Unix/Linux and Windows). Change the default values to best suit your environment.

**Note:** Changing the response file does not affect the current installation in any way. The response file is for use with a new installation on another machine.

Follow these guidelines when editing a response file:

- Before modifying this file, back up the original for safekeeping.
- Make changes according to the current system settings and comments provided in the response file.
- Save the file after you make changes.

## Example

The following is an example of the response file created during the initial typical CA Business Intelligence installation:

```
#####
# This is an InstallAnywhere variable that enables the installer to run in #
# silent mode and uses this properties file as the input #
# DO NOT MODIFY THIS VALUE #
#####

INSTALLER_UI=silent

#####
# INSTALLATION OPTIONS #
#####
#####
#####
#NOTE:For licensing purposes the installation should not be run if a NON CA BusinessObjects XI is already#
#installed on the machine / system. #
#####
#####

#This property indicates if the installer machine already has a CA BusinessObjects installed or not.
#Valid values => false {for TYPICAL or CUSTOM install set} or true {for UPDATE, MODIFY or REPAIR install set}
#This property will be verified in the installer.
#For example, if the CHOSEN_INSTALL_SET is UPDATE and this property is set to true, the installer still verifies
that
#CA BOXI is installed. If no CA BOXI is found, no update will be attempted.
IS_CA_BOXI_INSTALLED=false

#The chosen Install set value can be TYPICAL, CUSTOM, UPDATE, MODIFY
# and REPAIR {REPAIR is available only on Windows}
CHOSEN_INSTALL_SET=TYPICAL

#Destination Location #
# This value will be used only in Windows system #
USER_INSTALL_DIR=/opt/CA/SharedComponents/CommonReporting

# This is the BusinessObjects Installer source folder #
BIEK_SOURCE_DIR = /opt/new_test/Disk1/InstData/VM/././cabi

# This is the folder for BIEK API. #
# Its value is usually $BIEK_SOURCE_DIR/biek #
BIEK_PATH_DIR = /opt/new_test/Disk1/InstData/VM/././cabi/biek

#####
# Password for BusinessObjects XI's Administrator user #
# This value will be used to set the Administrator password #
# during TYPICAL or CUSTOM install sets #
```

```

# The password should be atleast 6 characters long      #
# The password can not contain 'administrator' in any form  #
# The password has to have at least two of the following  #
# types of characters                                     #
# - Uppercase                                           #
# - Lowercase                                           #
# - Number                                              #
# - Punctuation                                         #
#####

BIEK_BO_ADMIN_PASSWORD=Admin123!

#####
# Parameters specifically needed #
# only for non Windows OS      #
#####

# The CA Business Intelligence installer should be run as the 'root' user.
# The CA Business Intelligence wraps the BusinessObjects installation program that
# needs to run as a non-root user.
# Enter credentials for a valid non-root user.
CABI_NONROOT_USER=becbr04
CABI_NONROOT_GROUP=becbr04

#The following value will be used to set the CASHCOMP dir if one is not already
# defined in the current environment.
BIEK_CASHCOMP_USER_DEFINED=/opt/CA/SharedComponents

##### END NON WINDOWS SPECIFIC PARAMETERS #####

# Port to be used by the Central Management Server
#Default value is 6400
#This value can be changed only on NON WINDOWS OS
BIEK_PARAM_CMSPORT = 6400

#####
# The Locale code for the BO install #
#####
# English = en
# French = fr
# German = de
# Spanish = es
# Japanese = ja
# Simplified
# Chinese = zh_CN
# Traditional
# Chinese = zh_TW
# Korean = ko
# Dutch = nl

```

```
# Swedish = sv
# Italian = it
# Portugese = pt
INSTALLER_LOCALE = en

#####
# Set CMS Database parameters #
#                               #
#####

# should mysql be installed? The value can be true or false.
BIEK_INSTALL_MYSQL = true

#CMS DB TYPE can be MYSQL, MSSQL, DB2, ORACLE or SYBASE
BIEK_CMS_DB_TYPE=MYSQL

# MySQL root password
BIEK_MYSQL_ROOT = root

# User id to be used for MYSQL, DB2, MSSQL, ORACLE, SYBASE
BIEK_CMS_USER = businessobjects

# Password to be used for MYSQL, DB2, MSSQL, ORACLE, SYBASE
BIEK_CMS_PASSWORD = businessobjects

# CMS database name for MYSQL, MSSQL
BIEK_CMS_DB = $BIEK_CMS_DB$

# Database alias for DB2 / SYBASE, database server name for MYSQL, TNS name for ORACLE
BIEK_CMS_SRV = BOE115

# MSSQL DSN
BIEK_CMS_DSN =

# MYSQL server port number, needed for existing MYSQL installation
BIEK_CMS_PORT=

#####
# Set Audit database parameters #
#                               #
#####

# enable auditing for BO
BIEK_ENABLE_AUDITING = true

# User id to be used for MySQL, DB2, MSSQL, ORACLE,
BIEK_AUDIT_USER = businessobjects

# Password to be used for MySQL, DB2, MSSQL, ORACLE,
```

```
BIEK_AUDIT_PASSWORD = businessobjects

# database name for MySQL, MSSQL
BIEK_AUDIT_DB = BOE115_Audit

# DB2 database alias, MYSQL server host name, ORACLE TNS name, SYBASE database alias
BIEK_AUDIT_SRV =

# MSSQL DSN name
BIEK_AUDIT_DSN =

# MYSQL server port number
BIEK_AUDIT_PORT =

#####
# WEB SERVER PROPETIS      #
#####

# Do you want BO to install Tomcat
BIEK_INSTALL_TOMCAT = true

# install .NET for IIS?
BIEK_INSTALL_DOTNET = false

# WEB SERVER TYPE can be TOMCAT, WEBLOGIC, WEBSPPHERE or IIS
CABL_WEB_SERVER_TYPE=TOMCAT

#####
# POST_INSTALL FUNCTIONS  #
#####

#####
# BO Tomcat Installation  #
# New or Existing        #
#####

# BO Tomcat directory either for new installation or for existing TOMCAT installation
BIEK_TOMCAT_DIR = /opt/CA/SharedComponents/CommonReporting/Tomcat

#Following TOMCAT values are needed only for a new TOMCAT installation.

# BO Tomcat Connection Port
BIEK_TOMCAT_CONNECTION_PORT = 8080

# BO Tomcat Redirect Port
BIEK_TOMCAT_REDIRECT_PORT = 8443

# Bo Tomcat Shutdown port
BIEK_TOMCAT_SHUTDOWN_PORT = 8005
```

```
#####  
# Deploy to Existing      #  
# Application Server      #  
#####  
  
# Target if deploying to a Websphere server  
BIEK_DEPLOY_WEBSPHERE_DIR =  
  
# Websphere Server Name  
BIEK_DEPLOY_WEBSPHERE_SRV =  
  
# Target if deploying to a WebLogic server  
BIEK_DEPLOY_WEBLOGIC_DIR =  
  
# Port number of weblogic server  
BIEK_DEPLOY_WEBLOGIC_PORT =  
  
# Admin user name for weblogic server  
BIEK_DEPLOY_WEBLOGIC_USER =  
  
# Admin user password for weblogic server  
BIEK_DEPLOY_WEBLOGIC_PWD =  
  
# Name of weblogic server  
BIEK_DEPLOY_WEBLOGIC_SRV =  
  
# Version of weblogic server ( 8 or 9)  
BIEK_DEPLOY_WEBLOGIC_VERSION =  
  
#####  
# Properties that control the log messages from BIEK API #  
#####  
  
BIEK_LOG_FILE=/opt/CA/SharedComponents/CommonReporting/ca-install.log  
BIEK_DEBUG_ON=true
```

## Uninstall From Unix and Linux

Uninstall CA Business Intelligence when it is no longer required on the system. The following sections explain how to uninstall CA Business Intelligence and its accompanying documentation from Unix/Linux.

## Uninstallation Types

CA Business Intelligence offers two choices for uninstallation:

### **Complete Uninstall**

This option completely removes all features and components of CA Business Intelligence. Files and folders created after the installation are not affected.

### **Uninstall Specific Features**

This option lets you choose specific features of CA Business Intelligence to be uninstalled.

**Note:** A silent uninstallation cannot uninstall specific features; only a complete uninstallation can be performed.

## Uninstall Using the GUI

### **To uninstall CA Business Intelligence using the GUI**

1. Exit all applications that are running.
2. Open the Uninstall folder located under `/opt/CA/SharedComponents/CommonReporting` (assuming the installation location is `/opt/CA/SharedComponents/CommonReporting`).
3. Enter the following:

```
/opt/CA/SharedComponents/CommonReporting/Uninstall/Uninstall_CA_Business_Intelligence -i swing
```

The CA Business Intelligence uninstallation process begins.

## Uninstall Using the Console

### **To uninstall CA Business Intelligence using the console**

1. Exit all applications that are running.
2. Open a Bourne shell.
3. Enter the following:

```
/opt/CA/SharedComponents/CommonReporting/Uninstall/Uninstall_CA_Business_Intelligence
```

The CA Business Intelligence uninstallation process begins.

## Run a Silent Uninstallation

### To uninstall CA Business Intelligence silently

1. Open a Bourne shell
2. Go to the Uninstall folder located under  
./opt/CA/SharedComponents/CommonReporting (assuming the installation location is /opt/CA/SharedComponents/CommonReporting).
3. Enter the following

**./Uninstall\_CA\_Business\_Intelligence -i silent**

The CA Business Intelligence uninstallation process begins.

# Chapter 5: Post-Installation Considerations

---

This section contains the following topics:

[Sample Database and Templates](#) (see page 61)

[Firewall Configuration](#) (see page 62)

## Sample Database and Templates

The installer provides the option of installing a set of template reports provided by CA, as well as a sample database and templates supplied by BusinessObjects.

The templates provided by CA are reports that demonstrate the CA look and feel. The CA templates run against the BusinessObjects sample database. This database is only available on Microsoft Windows. Although you can see the report results on Unix/Linux, they are stored in the report and cannot be run on Unix/Linux platforms.

## Firewall Configuration

BusinessObjects Enterprise XI works with firewall systems to provide reporting across intranets and the Internet without compromising network security.

A firewall is a security system that protects one or more computers from unauthorized network access. A firewall restricts people to entering and leaving your network at a carefully controlled point. It also prevents attackers from getting close to your other defenses. Typically, a firewall protects a company's intranet from being improperly accessed through the Internet. A firewall can enforce a security policy, log Internet activity, and be a focus for security decisions. A firewall cannot protect against malicious insiders or connections that do not go through it. A firewall also cannot set itself up correctly or protect against completely new threats.

By default, BusinessObjects Enterprise XI uses dynamically chosen port numbers for communications between components. You must change this default when you place a stateful firewall that uses packet filtering or Network Address Translation (NAT) between BusinessObjects Enterprise XI components. These firewalls provide protection by permitting communications from outside the firewall with only specified addresses and ports inside the firewall.

To enable BusinessObjects Enterprise XI to communicate across such a firewall, you must do the following:

1. Configure its components to use fixed addresses and ports.
2. Configure your firewall to allow communications to the services behind the firewall using these addresses and ports.

For more detailed information about firewalls and how to enable BusinessObjects Enterprise XI to communicate between them, obtain the *BusinessObjects Enterprise XI Release 2 Deployment and Configuration Guide*. For instructions on how to download guides from the Business Objects web site, see [Download the Documentation Roadmap or Another Document](#) (see page 31).

# Appendix A: Custom Installation Details

---

This appendix describes the process for completing a custom installation of CA Business Intelligence.

This section contains the following topics:

[Perform a Custom Installation](#) (see page 63)

## Perform a Custom Installation

This section provides details on how to perform a custom installation.

### **To perform a custom installation of CA Business Intelligence**

1. Enter and Confirm the BusinessObjects XI Administrator Password.
2. Select the CMS database type.

To administer the CMS database, you need to set up a database account. If you choose to install MySQL when you install CA Business Intelligence, you will be prompted during installation to set up this account.

If you plan to use your own database, complete these steps before installing CA Business Intelligence.

### **To set up a database account for CA Business Intelligence**

- a. Create or select a user account that provides BusinessObjects Enterprise with the appropriate privileges to your database server.
- b. Verify that you can log on to your database and carry out administrative tasks using the account you set up for use by the CMS.
3. Specify the database connection properties.

### **For Oracle**

- a. Click Oracle.
- b. Enter the Oracle tnsname in the TNS Name field.
- c. Enter the credentials for the server in the User Name and Password fields.
- d. Repeat these steps for the auditing database if you plan on using one and then click Next; otherwise, click Next. Selecting "Use the same setting for Audit database" will apply the CMS database connection setting to the auditing database.

**For IBM DB2**

- a. Click IBM DB2.
- b. Enter the Database alias name in the Server field.
- c. Enter the credentials for the server in the User Name and Password fields.
- d. Repeat these steps for the auditing database, if you plan on using one and then click Next; otherwise, click Next. Selecting "Use the same setting for Audit database" will apply the CMS database connection setting to the auditing database.

**For MySQL**

- a. Click MySQL.
- b. Enter the database name in the Database field for the CMS database.
- c. Enter the host name in MySQL hostname field.
- d. Enter the port being used by MySQL in the Port field.
- e. Enter the credentials for the server in the User Name and Password fields.
- f. Repeat these steps for the auditing database, if you plan on using one and then click Next; otherwise, click Next. Selecting "Use the same setting for Audit database" will apply the CMS database connection setting to the auditing database.

**For Sybase**

- a. Click Sybase.
- b. Enter the database alias name in the Database alias field for the CMS database.
- c. Enter the credentials for the server in the User Name and Password fields.
- d. Repeat these steps for the auditing database, if you plan on using one and then click Next; otherwise, click Next. Selecting "Use the same setting for Audit database" will apply the CMS database connection setting to the auditing database.

**For Microsoft SQL Server**

**Note:** Microsoft SQL Server is not available on Unix/Linux platforms.

This database should be set up prior to installation. You must create a new Data Source using ODBC Data Source Administrator under System DSN tab for this connection.

- a. Click Microsoft SQL Server, and then click Next.
- b. Enter the DSN Name.

- c. Enter the Database Name.
  - d. Enter the User Name.
  - e. Enter and confirm the Password.
  - f. Repeat these steps for the auditing database, if you plan on using one and then click Next; otherwise, click Next. Selecting "Use the same setting for Audit database" will apply the CMS database connection setting to the auditing database.
4. Specify the web server configuration. CA Business Intelligence provides the option to install its own version of Apache Tomcat, or you can use your existing application server.

**For Apache Tomcat:**

- a. Click Tomcat.
- b. Enter the location of the existing Apache Tomcat installation.  
**Note:** When Tomcat is already installed, the installer only prompts for this information.
- c. Enter the Tomcat Connection Port
- d. Enter the Tomcat Redirect Port
- e. Enter the Tomcat Shutdown Port.

**For BEA Weblogic**

- a. Enter the WebLogic domain path.
- b. Enter the WebLogic port.
- c. Enter the Administrator ID.
- d. Enter the Administrator Password.
- e. Enter WebLogic Admin Server Name.
- f. Enter WebLogic Server Version number.

**For IBM WebSphere**

- a. Enter the WebSphere Install Directory.
- b. Enter the WebSphere Server Name.

**For Microsoft IIS**

**Note:** Microsoft IIS Server is not available on Unix/Linux platforms.

Information for Microsoft IIS is gathered from the Windows registry. No other information is required from the user.

5. Specify whether to install sample database and templates.
6. Review the settings and install CA Business Intelligence.



# Appendix B: Troubleshooting

---

If an installation fails, check the log file for further information. The log file will contain these error codes, presented as return values from certain functions.

The log files are located at the top level of the CA Business Intelligence installation directory. During the installation process, they are located in a temporary location, determined from the TEMP environment property on the system. If the installation fails, you can locate the log file in this temporary location.

This section contains the following topics:

[Microsoft Windows-Specific Error Codes](#) (see page 67)

[Unix and Linux-Specific Error Codes](#) (see page 70)

[CA Business Intelligence-Specific Error Codes](#) (see page 74)

## Microsoft Windows-Specific Error Codes

The following table provides the Microsoft Windows-specific error codes:

Code	Constant	Description
0	ERROR_SUCCESS	The operation was successful.
1	ERROR_INVALID_FUNCTION	Incorrect function. This probably indicates an internal error in BIEK.
2	ERROR_FILE_NOT_FOUND	The system cannot find the file specified.
3	ERROR_PATH_NOT_FOUND	The system cannot find the path specified.
5	ERROR_ACCESS_DENIED	Access is denied.
8	ERROR_NOT_ENOUGH_MEMORY	Not enough storage is available to process this command.

<b>Code</b>	<b>Constant</b>	<b>Description</b>
11	ERROR_BAD_FORMAT	An attempt was made to load a program with an incorrect format.  This probably indicates an internal error in BIEK.
15	ERROR_INVALID_DRIVE	The system cannot find the drive specified.
1601	ERROR_INSTALL_SERVICE_FAILURE	The Windows Installer Service could not be accessed. This can occur if the Windows Installer is not correctly installed.
1602	ERROR_INSTALL_USEREXIT	User cancelled installation.
1603	ERROR_INSTALL_FAILURE	Fatal error during installation. This seems to be a catch-all for almost anything bad that happens during installation, such as not enough disk space.
1604	ERROR_INSTALL_SUSPEND	Installation suspended, incomplete.
1612	ERROR_INSTALL_SOURCE_ABSENT	The installation source for this product is not available. Verify that the source exists and that you can access it.
1613	ERROR_INSTALL_PACKAGE_VERSION	This installation package cannot be installed by the Windows Installer service. You must install a Windows service pack that contains a newer version of the Windows Installer service.
1618	ERROR_INSTALL_ALREADY_RUNNING	Another installation is already in progress. Complete that installation before proceeding with this install.

<b>Code</b>	<b>Constant</b>	<b>Description</b>
1619	ERROR_INSTALL_PACKAGE_OPEN_FAILED	This installation package could not be opened. Verify that the package exists and that you can access it. Check the value of SourceDir in the INI file.
1620	ERROR_INSTALL_PACKAGE_INVALID	This installation package could not be opened. Possibly corrupt files on the DVD.
1622	ERROR_INSTALL_LOG_FAILURE	Error opening installation log file. Verify that the specified log file location exists and that you can write to it.
1623	ERROR_INSTALL_LANGUAGE_UNSUPPORTED	The language of this installation package is not supported by your system.
1624	ERROR_INSTALL_TRANSFORM_FAILURE	Error applying transforms. The only transforms we use are related to languages.
1625	ERROR_INSTALL_PACKAGE_REJECTED	This installation is forbidden by system policy. Contact your system administrator.
3010	ERROR_SUCCESS_REBOOT_REQUIRED	The installation was successful but a reboot is required to complete the installation.

## Unix and Linux-Specific Error Codes

The following table provides the Unix/Linux-specific error codes:

<b>Code</b>	<b>Description</b>
0	Success
1	Operation not permitted
2	No such file or directory
3	No such process
4	Interrupted system call
5	Input/output error
6	No such device or address
7	Argument list too long
8	Exec format error
9	Bad file descriptor
10	No child processes
11	Resource temporarily unavailable
12	Cannot allocate memory
13	Permission denied
14	Bad address
15	Block device required
16	Device or resource busy
17	File exists
18	Invalid cross-device link
19	No such device
20	Not a directory
21	Is a directory
22	Invalid argument
23	Too many open files in system
24	Too many open files
25	Inappropriate ioctl for device
26	Text file busy

---

<b>Code</b>	<b>Description</b>
27	File too large
28	No space left on device
29	Illegal seek
30	Read-only file system
31	Too many links
32	Broken pipe
33	Numerical argument out of domain
34	Numerical result out of range
35	Resource deadlock avoided
36	File name too long
37	No locks available
38	Function not implemented
39	Directory not empty
40	Too many levels of symbolic links
42	No message of desired type
43	Identifier removed
44	Channel number out of range
45	Level 2 not synchronized
46	Level 3 halted
47	Level 3 reset
48	Link number out of range
49	Protocol driver not attached
50	No CSI structure available
51	Level 2 halted
52	Invalid exchange
53	Invalid request descriptor
54	Exchange full
55	No anode
56	Invalid request code
57	Invalid slot

---

<b>Code</b>	<b>Description</b>
59	Bad font file format
60	Device not a stream
61	No data available
62	Timer expired
63	Out of streams resources
64	Machine is not on the network
65	Package not installed
66	Object is remote
67	Link has been severed
68	Advertise error
69	Srmount error
70	Communication error on send
71	Protocol error
72	Multihop attempted
73	RFS specific error
74	Bad message
75	Value too large for defined data type
76	Name not unique on network
77	File descriptor in bad state
78	Remote address changed
79	Can not access a needed shared library
80	Accessing a corrupted shared library
81	.lib section in a.out corrupted
82	Attempting to link in too many shared libraries
83	Cannot exec a shared library directly
84	Invalid or incomplete multibyte or wide character
85	Interrupted system call should be restarted
86	Streams pipe error
87	Too many users
88	Socket operation on non-socket

---

<b>Code</b>	<b>Description</b>
89	Destination address required
90	Message too long
91	Protocol wrong type for socket
92	Protocol not available
93	Protocol not supported
94	Socket type not supported
95	Operation not supported
96	Protocol family not supported
97	Address family not supported by protocol
98	Address already in use
99	Cannot assign requested address
100	Network is down
101	Network is unreachable
102	Network dropped connection on reset
103	Software caused connection abort
104	Connection reset by peer
105	No buffer space available
106	Transport endpoint is already connected
107	Transport endpoint is not connected
108	Cannot send after transport endpoint shutdown
109	Too many references: cannot splice
110	Connection timed out
111	Connection refused
112	Host is down
113	No route to host
114	Operation already in progress
115	Operation now in progress
116	Stale NFS file handle
117	Structure needs cleaning
118	Not a XENIX named type file

---

<b>Code</b>	<b>Description</b>
119	No XENIX semaphores available
120	Is a named type file
121	Remote I/O error
122	Disk quota exceeded
123	No medium found
124	Wrong medium type

## CA Business Intelligence-Specific Error Codes

The following table provides the CA Business Intelligence-specific error codes:

<b>Code</b>	<b>Constant</b>	<b>Description</b>
16000	ERROR_BIEK_NON_CA_INSTALL	Returned during installation if a non-Business Intelligence Embedding Kit version of BusinessObjects is already installed on the system.
16001	ERROR_BIEK_NOT_INSTALLED	Returned during uninstall if a Business Intelligence Embedding Kit version of BusinessObjects is not installed on the system, to prevent accidentally uninstalling a non-Business Intelligence Embedding Kit version of BusinessObjects.
16002	ERROR_BIEK_FILE_IO	An error occurred creating or writing to a file.
16003	ERROR_BIEK_REGISTRY	An error occurred reading from or writing to the registry.
16004	ERROR_BIEK_INITIALIZE	An error occurred reading the INI file.

<b>Code</b>	<b>Constant</b>	<b>Description</b>
16005	ERROR_BIEK_CA_VER	A Business Intelligence Embedding Kit version of BusinessObjects is already installed, but it doesn't match the version we're attempting to install.
16006	ERROR_BIEK_ARGUMENTS	Invalid arguments were passed to biekek.exe.
16007	ERROR_BIEK_UNEXPECTED	This error code was included to take care of a possible ambiguity between the return code of GetExitCodeThread() and the return code of MsiInstallProduct(). If this error occurs it means that MsiInstallProduct() returned ERROR_NO_MORE_ITEMS (259) for some reason. This is the same as the value STILL_ACTIVE returned by GetExitCodeThread() which is tested to see if the thread is still running.
16008	ERROR_BIEK_INVALID_PATH	An invalid path was passed into a function or entered in the INI file.
16009	ERROR_BIEK_LANG_SUPPORT	A language code was used that isn't supported on this system.
16010	ERROR_BIEK_INVALID_PARAM	An attempt was made to set a parameter that isn't supported by the selected options.
16011	ERROR_BIEK_INVALID_VALUE	An attempt was made to set a parameter to an invalid value.
16012	ERROR_BIEK_DEPLOY_FAILED	An error occurred attempting to deploy .war files to an application server.

<b>Code</b>	<b>Constant</b>	<b>Description</b>
16013	ERROR_BIEK_IMPORT_FAILED	An error occurred attempting to import a BIAR file.
16015	ERROR_BIEK_DISK_HUGE	Hard disk size of greater than 256 terabytes (TB) reported.
16016	ERROR_BIEK_LOW_DISK_SPACE	Insufficient hard disk space for installation.
16017	ERROR_BIEK_INVALID_COMBO	The combination of options and parameters don't match.
16018	ERROR_BIEK_MEMORY	Unable to allocate memory. (Unix only)
16019	ERROR_BIEK_ENVIRONMENT	The environment variable CASHCOMP is not set. (Unix only)
16020	ERROR_BIEK_INVALID_CODE	An attempt was made to register a product code that has already been registered, or to uninstall a product code that has not been installed.
16021	ERROR_BIEK_PERMISSIONS	Insufficient permissions for operation. Returned if SetInstallUser is called by a non-root user or SetSCDir is called if the user does not have execute and read permissions on the SC directory (Unix only).
16022	ERROR_BIEK_ROOT_INSTALL	A call to StartInstall was made as root. SetInstallUser must be called first. (Unix only)

Code	Constant	Description
16023	ERROR_BIEK_SET_USER	<p>Unable to change user or group to the value selected in SetInstallUser. (Unix only)</p> <p><b>Note:</b> If this error is returned something very bad has happened: either an internal error or some system instability. The validations in the SetInstallUser API should have caught the error before it got this far.</p>
16024	ERROR_BIEK_JAVA_VM	An error occurred with the Java Virtual Machine.
16025	ERROR_BIEK_BOSDK_EXCEPTION	An error occurred calling a BusinessObjects SDK function.
16026	ERROR_BIEK_UNKNOWNHOSTEXCEPTION	An attempt was made to connect to a CMS server that does not exist or is not running.
16027	ERROR_BIEK_CMSCONNECT	An error occurred logging onto a CMS. This could be due to invalid username/password, invalid CMS host/port number, or invalid authentication type.
16028	ERROR_BIEK_ABNORMAL_EXIT	A child process spawned by BIEK has exited abnormally.
16029	ERROR_BIEK_PATCH_READ	Internal code. Should not be returned to an external user.
16030	ERROR_BIEK_PATCH_LEVEL	The current install of BusinessObjects requires a previous patch in order to accept this patch.

<b>Code</b>	<b>Constant</b>	<b>Description</b>
16031	ERROR_BIEK_PATCH_UNKNOWN	Unknown patch type. BIEK currently supports official BusinessObjects patches only.
16032	ERROR_BIEK_SC_ALREADY_SET	CASHCOMP environment is already set on Unix.
16033	ERROR_BIEK_ALREADY_INSTALLED	An error occurred calling SetTargetDir to set the target dir to a new location if the BIEK version of BusinessObjects is already installed on Windows.
16034	ERROR_BIEK_SET_REG	An error occurred with setting registry on Windows.
16035	ERROR_BIEK_NO_TOMCAT_RUNNING	No Tomcat service is currently running.
16036	ERROR_BIEK_TOMCAT_NOSTOP	Unable to stop Tomcat service.
16037	ERROR_BIEK_TOMCAT_NOSTART	Unable to start Tomcat service.
16038	ERROR_BIEK_WEBLOGIC_ADMINPWD	The BEA WebLogic administrator password is not provided.
16039	ERROR_BIEK_NOT_SUPPORTED_VERSION	The Web server version is not supported.

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