

Installation Guide

Borland VisiBroker[®] 7.0

Borland[®]

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Introduction to Borland VisiBroker

For the CORBA developer, Borland provides *VisiBroker for Java*, *VisiBroker for C++*, and *VisiBroker for .NET* to leverage the industry-leading VisiBroker Object Request Broker (ORB). These three facets of VisiBroker are implementations of the CORBA 2.6 specification.

VisiBroker Overview

VisiBroker is for distributed deployments that require CORBA to communicate between both Java and non-Java objects. It is available on a wide range of platforms (hardware, operating systems, compilers and JDKs). VisiBroker solves all the problems normally associated with distributed systems in a heterogeneous environment.

VisiBroker includes:

- VisiBroker for Java, VisiBroker for C++, and VisiBroker for .NET, three implementations of the industry-leading Object Request Broker.
- VisiNaming Service, a complete implementation of the Interoperable Naming Specification in version 1.3.
- GateKeeper, a proxy server for managing connections to CORBA Servers behind firewalls.
- VisiBroker Console, a GUI tool for easily managing a CORBA environment.
- Common Object Services such as VisiNotify (implementation of Notification Service Specification), VisiTransact (implementation of Transaction Service Specification), VisiTelcoLog (implementation of Telecom Logging Service Specification), VisiTime (implementation of Time Service Specification), and VisiSecure.

VisiBroker features

VisiBroker offers the following features:

- “Out-of-the-box” security and web connectivity.
- Seamless integration to the J2EE Platform, allowing CORBA clients direct access to EJBs.
- A robust Naming Service (VisiNaming), with caching, persistent storage, and replication for high availability.
- Automatic client failover to backup servers if primary server is unreachable.
- Load distribution across a cluster of CORBA servers.
- Full compliance with the OMG's CORBA 2.6 Specification.
- Integration with the Borland JBuilder integrated development environment.
- Enhanced integration with other Borland products including Borland AppServer.

VisiBroker Documentation

The VisiBroker documentation set includes the following:

- Borland *VisiBroker Installation Guide*—describes how to install VisiBroker on your network. It is written for system administrators who are familiar with Windows or UNIX operating systems.
- Borland *Security Guide*—describes Borland's framework for securing VisiBroker, including VisiSecure for VisiBroker for Java and VisiBroker for C++.
- Borland *VisiBroker for Java Developer's Guide*—describes how to develop VisiBroker applications in Java. It familiarizes you with configuration and management of the Visibroker ORB and how to use the programming tools. Also described is the IDL compiler, the Smart Agent, the Location, Naming and Event Services, the Object Activation Daemon (OAD), the Quality of Service (QoS), the Interface Repository, and the Interface Repository, and Web Service Support.
- Borland *VisiBroker for C++ Developer's Guide*—describes how to develop VisiBroker applications in C++. It familiarizes you with configuration and management of the Visibroker ORB and how to use the programming tools. Also described is the IDL compiler, the Smart Agent, the Location, Naming and Event Services, the OAD, the QoS, Pluggable Transport Interface, RT CORBA Extensions, and Web Service Support.
- Borland *VisiBroker for .NET Developer's Guide*—describes how to develop VisiBroker applications in a .NET environment.
- Borland *VisiBroker for C++ API Reference*—provides a description of the classes and interfaces supplied with VisiBroker for C++.
- Borland *VisiBroker VisiTime Guide*—describes Borland's implementation of the OMG Time Service specification.
- Borland *VisiBroker VisiNotify Guide*—describes Borland's implementation of the OMG Notification Service specification and how to use the major features of the notification messaging framework, in particular, the Quality of Service (QoS) properties, Filtering, and Publish/Subscribe Adapter (PSA).
- Borland *VisiBroker VisiTransact Guide*—describes Borland's implementation of the OMG Object Transaction Service specification and the Borland Integrated Transaction Service components.

- Borland *VisiBroker VisiTelcoLog Guide*—describes Borland's implementation of the OMG Telecom Log Service specification.
- Borland *VisiBroker GateKeeper Guide*—describes how to use the VisiBroker GateKeeper to enable VisiBroker clients to communicate with servers across networks, while still conforming to the security restrictions imposed by web browsers and firewalls.

The documentation is typically accessed through the Help Viewer installed with VisiBroker. You can choose to view help from the standalone Help Viewer or from within a VisiBroker Console. Both methods launch the Help Viewer in a separate window and give you access to the main Help Viewer toolbar for navigation and printing, as well as access to a navigation pane. The Help Viewer navigation pane includes a table of contents for all VisiBroker books and reference documentation, a thorough index, and a comprehensive search page.

Important Updates to the product documentation, as well as PDF versions, are available on the web at <http://www.borland.com/techpubs>.

Accessing VisiBroker online help topics in the standalone Help Viewer

To access the online help through the standalone Help Viewer on a machine where the product is installed, use one of the following methods:

- Windows**
- Choose Start|Programs|Borland Deployment Platform|Help Topics
 - or, open the Command Prompt and go to the product installation `\bin` directory, then type the following command:
- ```
help
```
- UNIX**
- Open a command shell and go to the product installation `/bin` directory, then enter the command:
- ```
help
```
- Tip** During installation on UNIX systems, the default is to not include an entry for `bin` in your `PATH`. If you did not choose the custom install option and modify the default for `PATH` entry, and you do not have an entry for current directory in your `PATH`, use `./help` to start the help viewer.

Accessing VisiBroker online help topics from within the VisiBroker Console

To access the online help from within the VisiBroker Console, choose Help|Help Topics.

The Help menu also contains shortcuts to specific documents within the online help. When you select one of these shortcuts, the Help Topics viewer is launched and the item selected from the Help menu is displayed.

Documentation conventions

The documentation for VisiBroker uses the typefaces and symbols described below to indicate special text:

Table 1.1 Documentation conventions

Convention	Used for
<i>italics</i>	Used for new terms and book titles.
<code>computer</code>	Information that the user or application provides, sample command lines and code.
bold computer	In text, bold indicates information the user types in. In code samples, bold highlights important statements.
[]	Optional items.
...	Previous argument that can be repeated.
	Two mutually exclusive choices.

Platform conventions

The VisiBroker documentation uses the following symbols to indicate platform-specific information:

Table 1.2 Platform conventions

Symbol	Indicates
Windows	All supported Windows platforms.
Win2003	Windows 2003 only
WinXP	Windows XP only
Win2000	Windows 2000 only
UNIX	UNIX platforms
Solaris	Solaris only
Linux	Linux only

Contacting Borland support

Borland offers a variety of support options. These include free services on the Internet where you can search our extensive information base and connect with other users of Borland products. In addition, you can choose from several categories of telephone support, ranging from support on installation of Borland products to fee-based, consultant-level support and detailed assistance.

For more information about Borland's support services or contacting Borland Technical Support, please see our web site at: <http://support.borland.com> and select your geographic region.

When contacting Borland's support, be prepared to provide the following information:

- Name
- Company and site ID
- Telephone number
- Your Access ID number (U.S.A. only)
- Operating system and version
- Borland product name and version
- Any patches or service packs applied

- Client language and version (if applicable)
- Database and version (if applicable)
- Detailed description and history of the problem
- Any log files which indicate the problem
- Details of any error messages or exceptions raised

Online resources

You can get information from any of these online sources:

World Wide Web	http://www.borland.com
Online Support	http://support.borland.com (access ID required)
Listserv	To subscribe to electronic newsletters, use the online form at: http://www.borland.com/products/newsletters

World Wide Web

Check <http://www.borland.com/bes> regularly. The VisiBroker Product Team posts white papers, competitive analyses, answers to FAQs, sample applications, updated software, updated documentation, and information about new and existing products.

You may want to check these URLs in particular:

- http://www.borland.com/products/downloads/download_visibroker.html (updated VisiBroker software and other files)
- <http://www.borland.com/techpubs> (documentation updates and PDFs)
- <http://support.borland.com/entry.jspa?externalID=4273&categoryID=112> (VisiBroker FAQs)
- <http://community.borland.com> (contains our web-based news magazine for developers)

Borland newsgroups

You can participate in many threaded discussion groups devoted to the Borland VisiBroker. Visit <http://www.borland.com/newsgroups> for information about joining user-supported newsgroups for VisiBroker and other Borland products.

Note These newsgroups are maintained by users and are not official Borland sites.

Planning your installation

This guide describes installation and installation-related tasks for installing Borland VisiBroker on Windows and UNIX.

Some recommendations:

- Typically, you install VisiBroker on a large, shared UNIX or Windows machine.
- Installing the product documentation (online Help Topics) and/or the examples is optional, however, Borland recommends you install both.

Package contents

The package contains the Borland VisiBroker CD and product documentation. Your package may include additional product CDs that ship with Borland VisiBroker.

Note You can also download the Borland Software from the Borland web site:
http://www.borland.com/downloads/download_visibroker.html.

System requirements

For the latest information on platforms supported by Borland VisiBroker and for JDK requirements, please refer to the Borland web site: <http://www.borland.com/techpubs/visibroker/platforms>

In addition to platform-specific requirements, Borland VisiBroker components use TCP and UDP Broadcast services to communicate. Even if you are running the components on a single machine you must have TCP and UDP services available.

JDK

The installer installs JDK version 1.4.2 on Windows, and JDK 1.4.2 on UNIX platforms. The Borland VisiBroker infrastructure and tools use JDK 1.4.2.

Disk space requirements

For disk space requirements, refer to <http://www.borland.com/techpubs/visibroker/platforms>.

Important The disk space requirements can be affected by:

- operating system
- JDK

Licensing

There are two types of Borland VisiBroker licenses:

- **Node-locked licenses.** These licenses are locked to the system on which they are applied and activated. You cannot copy these licenses to another system, and they cannot be accessed from a VisiBroker product running on another system. If you reinstall the software on the same system, you will need to reactivate the license.
- **Network licenses.** These licenses require the use of a license server. VisiBroker supports the use of Belise (Borland's license server). Refer to the instructions in the email you receive from Borland for activating and using your network licenses.

VisiBroker node-locked licenses must be registered and activated before using the product. To apply node-locked licenses you will need the following:

- **The Serial Number and Key, or the activation file for each license.** These will arrive in an email from Borland.
- **A Borland Developer Network (BDN) account.** If you don't have an account, you will be able to create it during the registration/activation process described in [Chapter 3, "Installing VisiBroker on Windows"](#) and [Chapter 4, "Installing VisiBroker on Solaris."](#)
- **Internet access.** This is required if you want to use the Direct or Web page methods for activating your license. This can be from any system - not necessarily the system on which your product is installed.

If you are applying a license to a remote system, you must have Telnet access to that system and some way to copy (that is, FTP) the activation file to that system.

What's next?

Once you've planned your network installations, you are ready to install VisiBroker. If you are installing on Windows, see the [Chapter 3, "Installing VisiBroker on Windows"](#) section. If you are installing on UNIX, see the [Chapter 4, "Installing VisiBroker on Solaris."](#)

Installing VisiBroker on Windows

This section describes how to install Borland VisiBroker and related components on Windows. If you are installing on Solaris, see the section on [Chapter 4, “Installing VisiBroker on Solaris.”](#)

- Note** We recommend uninstalling any previous versions of VisiBroker, or installing the new version to a different location; on a different install path.
- Note** If you have already installed an evaluation version and have since purchased a license to use VisiBroker on a permanent basis, you do not need to reinstall the version of the software you evaluated. You can use the License Manager (launched from the Tools menu in the Management Console) to remove your evaluation license, then add and activate your new, permanent license. For information on activating your new license, see [“Borland product registration wizard” on page 12.](#)

Preparing for installation

You can install VisiBroker from the CD or download the software from the Borland web site http://www.borland.com/downloads/download_visibroker.html.

Before you install VisiBroker:

- 1 Exit all applications.
- 2 Select an installation method:
 - If you want to download a version of the product from the Borland web site go to http://www.borland.com/downloads/download_visibroker.html.
 - If you are installing from CD, place the CD into your CD-ROM drive.
 - If you want to perform a silent installation using definitions from a properties file, see [Chapter 5, “Installing VisiBroker Using Silent Installation \(Windows and Solaris\).”](#)

JDK

The installer installs JDK versions 1.4.2 and 1.5.0 on Windows. The VisiBroker infrastructure and tools use JDK 1.4.2.

Installing Borland VisiBroker

To install VisiBroker and related components:

- 1 You can download the VisiBroker installer from the web or install from CD. If you are installing from CD and `autorun` is enabled on your system, the installer automatically starts when you insert the CD into your CD-ROM drive. If you are installing a VisiBroker installer downloaded from the web, double-click the downloaded executable to start the installation.

Follow the onscreen instructions. For most options, defaults offered by the installation wizard are acceptable. You can use the Previous button to return to earlier screens and change any information that is incorrect.

- 2 Select the Borland VisiBroker product you want to install:

Important

Once you select which product you are installing and click Next, to select a different product, you must cancel the current installation and restart the installation process.

- **VisiBroker.** Installs the VisiBroker Java and C++ Core, development and management tools, and optional VisiBroker Extended Services.

- 3 **License agreement.** Installation and use of VisiBroker requires acceptance of the license agreement.

- 4 **Choose Install Folder.** This creates a new installation of VisiBroker, or adds components to an existing 6.5 installation. Either accept the default (`C:\Borland\BDP`) or choose another location.

Important

You cannot install this version of VisiBroker on top of previous releases.

- 5 **Choose Product Components.** Depending on the Borland VisiBroker product you are installing, select from the following product components for each feature set:

- **VisiBroker Console.** GUI and tools for managing VisiBroker ORB and services.
- **VisiBroker Core.** VisiBroker for Java and C++ development tools and server components.
- **Documentation.** Suite of online documentation.
- **Examples.** Example applications for Borland Enterprise Server.
- **VisiBroker Extended Services.** Optional components you purchase for extended VisiBroker functionality.

- 6 **Choose VisiBroker Extended Services.** If you chose the option to install the VisiBroker Extended Services you purchased, select from the following extended services:

- **VisiNotify.** An industrial strength, ORB-level implementation of the OMG Event/Notification Service.
- **VisiSecure.** A framework for establishing secure connections between clients and servers.
- **VisiTime.** A complete implementation of the OMG Time Service Specification, Version 1.1.

- **VisiTransact.** A complete implementation of the OMG transaction management solution for transactions with CORBA applications over the Internet or intranets.
- **VisiTelcoLog.** An OMG compliant implementation of the OMG Telecom Log Service specification version 1.1.2

7 Choose Install Type. Typical/Custom panel:

a Typical. Express install - uses default settings.

In addition, the typical installation includes the following defaults:

- Smart Agent port. Also known as the `osagent`. This port is used by the ORB to communicate with the server. The default is 14000.
- Adding the VisiBroker `bin` directory to your PATH variable. The typical installation does not add the VisiBroker `bin` folder to your PATH. To add it, choose the Custom install type.

Note

If you select the default, you may have to manually add certain components to your environment path.

- Adding the VisiBroker environment variables. The typical installation does not add the VisiBroker environment variables to your system environment. If you choose the Custom install type to add the VisiBroker environment variables, the installation sets the `BES_LIC_DIR` to `<install_dir>\var` and `BES_LIC_DEFAULT_DIR` to `<install_dir>\license`.

b Custom. This option allows you to set various installation options, such as:

- Specifying Smart Agent port/Agent name to other than default values.
- Include `bin` directory in PATH. The default is “No”. To add the directory to your PATH, choose “Yes”.
- Include VisiBroker environment variables. The default is “No”. To add the VisiBroker environment variables to your system environment, choose “Yes”. The installation sets the `BES_LIC_DIR` to `<install_dir>\var` and `BES_LIC_DEFAULT_DIR` to `<install_dir>\license`.

8 Pre-Installation Summary. Review the displayed information before proceeding with the installation.

9 To approve your choices and start installing, click the Install button.

10 Registration.

- To launch the Borland Product Registration Wizard before exiting the installer, choose “Yes” (default) and click Next. The Registration Wizard launches in a separate window (see “[Borland product registration wizard](#)” on page 12). After you dismiss the Registration Wizard, the installer completion panel displays.
- If you are installing an evaluation or free version of VisiBroker, you are not prompted to launch the Registration Wizard. Before using VisiBroker, copy the license activation key file you receive by email from Borland to the `<install_dir>\license` directory. If you did not receive a license activation key file, or if you are reinstalling the software, go to http://www.borland.com/products/downloads/download_bes.html and download a new license key.

Important

You must register and activate your license in order to use the product. If you have a valid, node-locked license for a previous version of VisiBroker (BES) on the same machine where you installed VisiBroker 7.0, use the `lmadm` command-line tool to migrate your previous license for use with the newly-installed software. For information about VisiBroker license types, see the “[Licensing](#)” on page 8.

Note

You can register and activate your license later, by running the `lmadmw` executable found in the `<install_dir>\bin` directory.

11 When the installation completes, to dismiss the installer, click Done.

Install log

The installer generates an install log that is written to the root of the installation directory if you installed VisiBroker from CD, or to the folder where the installer file resides if you used a downloaded file to install VisiBroker.

The VisiBroker install log file is:

```
<install_dir>\Borland_Visibroker_InstallLog.xml
```

The file is an XML formatted log with installation-specific information, such as errors.

Product documentation

The Borland VisiBroker CD contains a complete library of online documentation. To access the documentation on a machine where the product is installed, use one of the following methods:

- At the command prompt, use the following command:

```
help
```

To recognize the `help` command, your path system variable must include the `<install_dir>\bin` directory, or you can enter the path explicitly.

- Choose Start|Programs|Borland VisiBroker|Help Topics
- From within the VisiBroker Console, go to the Help menu
- From within VisiBroker Console, go to the Help menu

Configuring VisiBroker C++ server, VisiTransact, or VisiNotify license variables

Before running a VisiBroker for C++ server, VisiTransact, or VisiNotify, you need to set two license environment variables (`BES_LIC_DIR` and `BES_LIC_DEFAULT_DIR`). During installation, a batch script is created for you to use for setting these environment variables.

To set the variables:

- 1 Open a command window.
- 2 Change directories to `<install_dir>\bin`.
- 3 Execute `vbroker.bat`.

Borland product registration wizard

Before using VisiBroker, you need to register and activate the license you received for your product. The license may be in the form of an email from Borland listing one or more serial numbers and license keys, or it may be a license key file sent to you in an email from Borland.

If you have a valid, node-locked license for an earlier versions of VisiBroker (BES) installed on the same machine as the newly-installed VisiBroker software, use the `lmadm` command-line tool to migrate your previous license for use with the newly-installed VisiBroker software. (For information about VisiBroker license types, see the [“Licensing” on page 8.](#))

If you have already received a key file in an email from Borland for a product you purchased online or downloaded for evaluation, or if you downloaded a free version of the product, you can use the registration wizard to apply the key file, or you can copy it to the `<install_dir>\license` directory and it will be applied automatically when you restart your product.

If you have a serial number and key, you can register and activate your VisiBroker product using one of the following registration methods:

- **Direct.** If your system is connected to the Internet, this is the simplest method. The product registration wizard guides you through all required steps and automatically activates your license for you. For more information, see the [“Direct registration” on page 13](#).
- **Email.** You send your registration request via your own email account (from any system), and will receive an activation file via email that you can apply to your installation. For more information, see the [“Email registration” on page 13](#).
- **Web page.** Similar to email, except you register by visiting the Borland web site. For more information, see the [“Web page registration” on page 14](#).
- **Telephone.** You provide information to a Borland representative, who will send you an activation file by email or mail. For more information, see the [“Telephone registration” on page 14](#).

Depending on which method you choose, you may be asked to indicate whether you have a Borland Developer Network (BDN) account. If you do not have an account, you will be prompted to create one in the product registration wizard.

If you do not choose the Direct registration method, you will receive an activation file. Simply copy this file into the `<install_dir>\license` directory and it will be applied automatically when you start your product.

Direct registration

To use the Borland product registration wizard for Direct registration:

- 1 Select the Direct registration method in the first wizard screen, and click Next.
- 2 Indicate whether you have a BDN account, and click Next. If you do not have an account you are prompted to create one in this wizard.
- 3 If applicable, enter proxy settings for your internet connection.
- 4 Review the summarized information before clicking Next. The wizard monitors and displays the progress of your registration.
- 5 When registration is successfully completed, click Next. Then click Finish to close the Wizard.

Email registration

To use the Borland product registration wizard for Email registration:

- 1 In the first wizard screen, select the Email registration method and click Next.
- 2 Indicate whether you have a BDN account, and click Next. If you do not have an account you are prompted to create one in this wizard.
- 3 Review the summarized information before clicking Next.
- 4 Copy the content of the Email Registration content pane into an email message addressed to `reg@borland.com`, and click Next.

- 5 To close the Wizard, click Finish. You will receive a product activation file by email.
- 6 Copy the activation file into the `<install_dir>\license` directory, and it will be applied automatically when you start your product.

Web page registration

To use the Borland product registration wizard for Web page registration:

- 1 In the first wizard screen, select the Web page registration method and click Next.
- 2 Copy the registration key from the Web Registration step of the wizard, then click Finish to close the Wizard.
- 3 Start a web browser and open the `http://reg.borland.com` URL.
- 4 In the registration web page, enter your BDN account information and click Login. If you do not have an account, click the Create account link (`http://reg.borland.com/srs5/new_user.jsp`).
- 5 In the Product Registration web page, enter the Serial Number and the Registration Key (from the registration wizard) and click Continue.
- 6 Verify the email address to which the activation file will be sent, and click Register. You will receive a product activation file by email.
- 7 Copy the activation file into the `<install_dir>\license` directory, and it will be applied automatically when you start your product.

Telephone registration

To use the Borland product registration wizard for Telephone registration:

- 1 In the first wizard screen, select the Telephone registration method and click Next.
- 2 From the drop-down list, select the location that is nearest you.
- 3 Click Next, then click Finish to close the Wizard.
- 4 Dial the number for assistance by telephone and keep the information in the Phone Registration wizard screen on hand.
- 5 When you receive your activation file, copy it into the `<install_dir>\license` directory, and it will be applied automatically when you start your product.

Uninstalling Borland VisiBroker

To uninstall Borland VisiBroker:

- 1 Make sure there are no background processes (such as `osagent`) running during the uninstall.
- 2 Open the installation directory.
- 3 Double-click the Uninstall icon.
- 4 Click Uninstall to completely remove all components that were installed.

Note This does not remove files and folders that were created after the installation.

- 5 After you run the uninstall program, check the installation directory and remove any unnecessary files and subdirectories.

Note After uninstalling, there may still be files and folders stored in the user's "Documents and Settings" (for example, `.bdp65`) folder. You should delete these as well.

Installing VisiBroker on Solaris

This section describes how to install Borland VisiBroker and related components on the Solaris operating systems. If you are installing on Windows, see the [Chapter 3, “Installing VisiBroker on Windows.”](#)

- Note** We recommend uninstalling any previous versions of VisiBroker, or installing the new version to a different location; on a different install path.
- Note** If you have already installed an evaluation version and have since purchased a license to use VisiBroker on a permanent basis, you do not need to reinstall the version of the software you evaluated. For information on activating your new license, see [“Borland product registration wizard” on page 20.](#)

Preparing for installation

You can install VisiBroker from the CD or download the software from the Borland web site http://www.borland.com/products/downloads/download_bes.html.

Before you install VisiBroker, select the installation method:

- If you want to download a version of the product from the Borland web site, go to http://www.borland.com/products/downloads/download_bes.html.
- If you are installing from CD, mount the Borland VisiBroker CD before starting the installation. (For Solaris see [“Mounting the VisiBroker CD on Solaris” on page 16.](#)
- If you want to install from the command line without invoking the installer's GUI, see [“Running the installer without a GUI” on page 19.](#)
- If you want to perform a silent installation using definitions from a properties file, see [Chapter 5, “Installing VisiBroker Using Silent Installation \(Windows and Solaris \).”](#)

JDK

The JDK, version 5.0, is installed during installation on Solaris.

Mounting the VisiBroker CD on Solaris

The Borland VisiBroker CD includes installation software for the Solaris operating systems. This section describes how to prepare to install VisiBroker on Solaris from CD.

To mount a CD on your local workstation:

- 1 Log into your workstation.

Note If the Volume Manager is not running, you need super-user privileges to mount the CD in step 5.

- 2 Insert the CD into the drive.
- 3 Open a command shell.
- 4 To determine if the Volume Manager is running, enter the following command:

```
/usr/bin/ps -ef | grep mountd
```

To see a list of all running processes, look for a response similar to the following:

```
root 247 1 0 Oct 30? 0:00 /usr/lib/autofs/automountd
```

- 5 If the Volume Manager is running, proceed to [“Installing Borland VisiBroker” on page 16](#).
- 6 If the Volume Manager is not running, become root, then enter the following commands to mount the CD before proceeding to [“Installing Borland VisiBroker” on page 16](#):

```
/usr/sbin/mount -F hsfs -r /dev/dsk/device /cdrom
```

where `device` is the device name of the CD.

- 7 Enter the following command to change to the CD directory:

```
cd /cdrom
```

- 8 To unmount the CD after installing VisiBroker, become root and enter the following command:

```
umount /cdrom
```

Installing Borland VisiBroker

To install Borland VisiBroker and related components:

- 1 You can download the VisiBroker installer from the web or install from CD.

- If installing VisiBroker from CD:

- 1 Type the appropriate command:

Solaris:

```
install_solaris
```

The CD splash screen appears after a few moments.

- 2 Click the highlighted product.

The installation wizard launches in a separate window.

Note To view Readme and installation documentation on the CD, or to browse the contents of the CD, click the appropriate entries on the splash screen.

- If installing VisiBroker on Solaris from a downloaded file:

- 1 Go to the directory where you extracted the installer.
- 2 To launch the installation wizard, invoke the extracted `.bin` file.

- Important**

 - Select the Borland VisiBroker product you want to install:

Once you select which product you are installing and click Next, to select a different product, you must cancel the current installation and restart the installation process.

VisiBroker. Installs the VisiBroker Java and C++ Core, development and management tools, and optional VisiBroker Extended Services.

 - **License agreement.** Installation and use of VisiBroker requires acceptance of the license agreement.
 - **Choose Install Folder.** This creates a new installation of VisiBroker, or adds components to an existing 6.5 installation.
- Important**

You cannot install this version of VisiBroker on top of previous releases.

 - **Choose Product Components.** Depending on the Borland VisiBroker product you are installing, select from the following product components for each feature set:
 - **VisiBroker Console.** GUI and tools for managing VisiBroker ORB and services.
 - **VisiBroker Core.** VisiBroker for Java and C++ development tools and server components.
 - **Documentation.** Suite of online documentation.
 - **Examples.** Example applications for Borland VisiBroker.
 - **VisiBroker Extended Services.** Optional components you purchase for extended VisiBroker functionality.
 - **Choose VisiBroker Extended Services.** If you chose the option to install the VisiBroker Extended Services you purchased, select from the following extended services:
 - **VisiNotify.** An industrial strength, ORB-level implementation of the OMG Event/Notification Service.
 - **VisiSecure.** A framework for establishing secure connections between clients and servers.
 - **VisiTime.** A complete implementation of the OMG Time Service Specification, Version 1.1.
 - **VisiTransact.** A complete implementation of the OMG transaction management solution for transactions with CORBA applications over the Internet or intranets.
 - **VisiTelcoLog.** An OMG compliant implementation of the OMG Telecom Log Service specification version 1.1.2
 - **Choose Install Type.** Typical/Custom panel:
 - 1 **Typical.** Express install - uses default settings.

In addition, the typical installation includes the following defaults:

 - **Smart Agent port.** Also known as the `osagent`. This port is used by the ORB to communicate with the server. The default is 14000.
 - **Agent name.** Every agent using the same Smart Agent (`osagent`) port should have a unique name. The default is the host name.

The value(s) you enter for the port(s) must be valid for the installation to proceed.
- Note**

Install log

The installer generates an install log that is written to the root of the installation directory if you installed VisiBroker from CD, or to the folder where the installer file resides if you used a downloaded file to install VisiBroker.

The VisiBroker install log file is:

```
<install_dir>/Borland_VisiBroker_InstallLog.xml
```

The file is an XML formatted log with installation-specific information, such as errors.

Product documentation

The Borland VisiBroker CD contains a complete library of online documentation. To access the documentation on a machine where the product is installed, use one of the following methods:

- Open a command shell and type the command:

```
help
```

To recognize the `help` command, your path system variable must include the `<install_dir>/bin` directory, or you can enter the path explicitly.

- Go to the Help menu
- From within VisiBroker (Standalone) Console, go to the Help menu

Running the installer without a GUI

The installer is capable of running in a text only mode for UNIX systems. You can invoke the installer with a parameter which specifies the UI mode.

To run the installer in text-only mode:

- 1 Change directories to the folder where the installation executable file is.
- 2 Type the appropriate command:

- **Solaris CD**

```
install_solaris install -i console
```

- **Solaris downloaded file**

```
<install_file>.bin install -i console
```

The installer will write to `stdout` and read from `stdin`. This allows you to `telnet` from one system to another and run the installer remotely.

Configuring VisiBroker for C++ server, VisiTransact, or VisiNotify license variables

Before running VisiBroker C++ server, VisiTransact, or VisiNotify, you need to set two license environment variables (`BES_LIC_DIR` and `BES_LIC_DEFAULT_DIR`). During installation, a shell script is created for you to use for setting these environment variables.

To set the variables:

- 1 Open a command window.
- 2 Change directory to `<install_dir>/bin`.
- 3 Determine the appropriate script for your shell.

If you are using the Korn or Bourne shell, use the following script to set environment variables:

```
vbroker.sh
```

If you are using the C shell, use the following script to set environment variables:

```
vbroker.csh
```

- 4 To run the script automatically when you log in, add a command to your `.profile`, `.cshrc`, or `.login` file.

Borland product registration wizard

Before using VisiBroker, you need to register and activate the license you received for your product. The license may be in the form of an email from Borland listing one or more serial numbers and license keys, or it may be a license key file sent to you in an email from Borland.

If you have a valid, node-locked license for a previous version installed on the same machine as the newly-installed VisiBroker, use the `lmadm` command-line tool to migrate your previous license for use with the newly-installed software. (For information about VisiBroker license types, see the “[Licensing](#)” on page 8.)

If you have already received a key file in an email from Borland for a product you purchased online or downloaded for evaluation, or if you downloaded a free version of the product, you can use the registration wizard to apply the key file, or you can copy it to the `<install_dir>/license` directory and it will be applied automatically when you restart your product.

If you have a serial number and key, you can register and activate your VisiBroker product using one of the following registration methods:

- **Direct.** If your system is connected to the Internet, this is the simplest method. The product registration wizard guides you through all required steps and automatically activates your license for you. For more information, see the “[Direct registration](#)” on page 21.
- **Email.** You send your registration request via your own email account (from any system), and will receive an activation file via email that you can apply to your installation. For more information, see the “[Email registration](#)” on page 21.
- **Web page.** Similar to email, except you register by visiting the Borland web site. For more information, see the “[Web page registration](#)” on page 21.
- **Telephone.** You provide information to a Borland representative, who will send you an activation file by email or mail. For more information, see the “[Telephone registration](#)” on page 22.

Depending on which method you choose, you may be asked to indicate whether you have a Borland Developer Network (BDN) account. If you do not have an account, you will be prompted to create one in the product registration wizard.

If you do not choose the Direct registration method, you will receive an activation file. Simply copy this file into the `<install_dir>/license` directory and it will be applied automatically when you start your product.

Direct registration

To use the Borland product registration wizard for Direct registration:

- 1 Select the Direct registration method in the first wizard screen, and click Next.
- 2 Indicate whether you have a BDN account, and click Next. If you do not have an account you are prompted to create one in this wizard.
- 3 If applicable, enter proxy settings for you internet connection.
- 4 Review the summarized information before clicking Next. The wizard monitors and displays the progress of your registration.
- 5 When registration is successfully completed, click Next. Then click Finish to close the Wizard.

Email registration

To use the Borland product registration wizard for Email registration:

- 1 In the first wizard screen, select the Email registration method and click Next.
- 2 Indicate whether you have a BDN account, and click Next. If you do not have an account you are prompted to create one in this wizard.
- 3 Review the summarized information before clicking Next.
- 4 Copy the content of the Email Registration content pane into an email message addressed to `reg@borland.com`, and click Next.
- 5 To close the Wizard, click Finish. You will receive a product activation file by email.
- 6 Copy the activation file into the `<install_dir>/license` directory, and it will be applied automatically when you start your product.

Web page registration

To use the Borland product registration wizard for Web page registration:

- 1 In the first wizard screen, select the Web page registration method and click Next.
- 2 Copy the registration key from the Web Registration step of the wizard, then click Finish to close the Wizard.
- 3 Start a web browser and open the `http://reg.borland.com` URL.
- 4 In the registration web page, enter your BDN account information and click Login. If you do not have an account, click the Create account link (`http://reg.borland.com/srs5/new_user.jsp`).
- 5 In the Product Registration web page, enter the Serial Number and the Registration Key (from the registration wizard) and click Continue.
- 6 Verify the email address to which the activation file will be sent, and click Register. You will receive a product activation file by email.
- 7 Copy the activation file into the `<install_dir>/license` directory, and it will be applied automatically when you start your product.

Telephone registration

To use the Borland product registration wizard for Telephone registration:

- 1 In the first wizard screen, select the Telephone registration method and click Next.
- 2 From the drop-down list, select the location that is nearest you.
- 3 Click Next, then click Finish to close the Wizard.
- 4 Dial the number for assistance by telephone and keep the information in the Phone Registration wizard screen on hand.
- 5 When you receive your activation file, copy it into the `<install_dir>/license` directory, and it will be applied automatically when you start your product.

Uninstalling Borland VisiBroker

To uninstall Borland VisiBroker:

- 1 Make sure there are no background processes (such as `osagent`) running during the uninstall.
- 2 Change directories to the Borland VisiBroker `UninstallerData` directory.
- 3 Enter the appropriate `uninstall` command:

For Solaris installed from a CD:

```
uninstall
```

Note This does not remove files and folders that were created after the installation.

- 4 After you run the `uninstall` command, check the installation directory and remove any unnecessary files and subdirectories.

Note After uninstalling, there may still be files and folders stored in the user's home directory (for example, `.bdp65`). You should delete these as well.

Installing VisiBroker Using Silent Installation (Windows and Solaris)

This section describes procedures for installing VisiBroker using silent installation for Windows and Solaris.

Note For the latest platform information and system requirements for installing VisiBroker, go to <http://www.borland.com/techpubs/visibroker/platforms>.

What is silent installation?

Silent installation is recommended for use in medium to large scale deployments. It is used to set installation configurations, one time, using the configurations for installing on multiple machines. Once the configuration file is set up the silent installation runs without user interaction.

Important Using silent installation implies your consent to the VisiBroker License Agreement.

Preparing for installation

Before using silent installation you should:

- Check disk space requirements.
- Verify the installation root directory has no existing VisiBroker installation.

Disk space requirements

The total amount of disk space required to install VisiBroker depends on which components you install. For more information, go to <http://www.borland.com/techpubs/>.

Note Disk space includes JDK installation.

JDK

For Windows, one JDK version is installed with the product: JDK 1.4.2. On Solaris, only JDK 5.0 is installed with the product. The optional JDK property (`JVM_JDK_HOME`) sets the JDK path for VisiBroker components that host user application code.

For silent installation, the optional `JVM_JDK_HOME` property is only used when you need to set the JDK path to a JDK other than the default version, 5.0.

Using a JDK other than the one installed with VisiBroker may have unpredictable results. We highly recommend you use the JDK included with the installer.

Important Do not remove the JDK installation that `JVM_JDK_HOME` points to before uninstalling VisiBroker. If you remove the installed JDK, the Uninstaller will not work, since the Uninstaller is configured to use the JDK pointed to by the `JVM_JDK_HOME` property.

Using silent installation

Important You cannot reinstall VisiBroker over a previous installation in the same VisiBroker installation directory, or file location. You must first uninstall any previous version before reinstalling. If you do not uninstall first, you must reinstall to another file location.

Before invoking the silent installation process, you must first create a text file that contains the properties for configuration settings, such as install directory, server name, and JDK home. Each property must be listed on its own line, terminated by a carriage return, with no blank spaces at the end of each line and no blank lines at the end of the file. See the [“Properties file for silent installation” on page 25](#) for more information.

After creating the text properties file, save it as `<propertiesfile>.txt`, where `<propertiesfile>` is the filename prefix for your properties file. Now you can invoke the silent installation process using the values specified in the properties file(s).

Invoking silent installation on Windows

Note All properties and values are case-sensitive. When specifying directory and file paths, always use a forward slash.

To invoke the silent installation process on Windows:

- 1 Open a command prompt.
- 2 Go to http://www.borland.com/products/downloads/download_bes.html and download VisiBroker for Windows.
- 3 Go to the directory where you downloaded the installer and invoke the silent installation process by entering the following command. Make sure to specify the full path name of the `<propertiesfile>` file:

```
<installer_file> -f <path to properties file>
```

where `<installer_file>` is the name of the VisiBroker installer file and `<path to properties file>` is the full path of the `<propertiesfile>` file.

For example:

```
BDP_Windows.exe -f c:/silentproperties.txt
```

Note After silent installation is completed, you need to register and activate the license you received for your product. The license may be in the form of an email from Borland listing one or more serial numbers and license keys, or it may be a license key file sent to you in an email from Borland. For information on activating your new license, see the [“Borland product registration wizard” on page 12](#). You can register and activate your license by running the `lmadmw` executable found in the `<install_dir>\bin` directory.

Invoking silent installation on Solaris

Note All properties and values are case-sensitive. When specifying directory and file paths, always use a forward slash.

To invoke the silent installation process on Solaris:

- 1 Open a command-line shell.
- 2 Go to http://www.borland.com/downloads/download_visibroker.html and download VisiBroker for Solaris.
- 3 Extract the installer executable file.
- 4 Go to the directory where you extracted the installer and obtain all permissions, or `chmod all`, where `777` indicates all, to run the installer.
- 5 Invoke the silent installation process by entering the following command. Make sure to specify the full path name of the `<propertiesfile>` file:

```
<installer_file> -f <path to properties file>
```

where `<installer_file>` is the name of the VisiBroker installer and `<path to properties file>` is the full path of the `<propertiesfile>` file.

For example:

```
BDP_Solaris32.bin -f /usr/home/myname/silentproperties.txt
```

or

```
BDP_Solaris64.bin -f /opt/myname/silentproperties.txt
```

Note After silent installation is completed, you need to register and activate the license you received for your product. The license may be in the form of an email from Borland listing one or more serial numbers and license keys, or it may be a license key file sent to you in an email from Borland. For information on activating your new license, see the [“Borland product registration wizard” on page 20](#). You can register and activate your license by running the `lmadmw` executable found in the `<install_dir>/bin` directory.

Properties file for silent installation

This properties file applies to silent installation of VisiBroker. The property file is a plain text file, with each property listed on its own line, terminated by a carriage return, with no blank spaces at the end of each line and no blank lines at the end of the file. The properties can appear in any order in the file.

Important (Windows only) If you click the Uninstall icon to uninstall an instance of VisiBroker that was silently installed, VisiBroker uninstalls silently, without warning.

Table 5.1 Properties File Contents for Silent Installation

Variable	Value
INSTALLER_UI	<code>silent</code> (required). The mode of installation.
USER_INSTALL_DIR	<code><install_dir></code> (required). The full path name for the Borland VisiBroker product directory of your choice. <ul style="list-style-type: none"> ■ For Windows, the default installation directory is <code>C:/Borland/BDP</code>. ■ For Solaris, the default installation directory is <code>/opt/Borland/BDP</code>.
INSTALL_TYPE	The following type is required: <ul style="list-style-type: none"> ■ <code>VisiBroker</code> Installs Borland VisiBroker.
USER_SHORTCUTS	<ul style="list-style-type: none"> ■ Windows (optional)—The full path name for the product shortcuts directory. For Windows, the default for VisiBroker is <code>../Start Menu/Programs/BES VisiBroker Edition</code>. ■ Solaris (required)—The required value for Solaris is <code>/dev/null</code>.

Table 5.1 Properties File Contents for Silent Installation (continued)

Variable	Value
JVM_JDK_HOME	(optional). Sets the JDK path for VisiBroker components that host user application code. The default is set to the location where the JDK included with VisiBroker is installed.
OSAGENT_PORT	(optional). Default is 14000.
INSTALL_VBCONSOLE	(optional, applies to VisiBroker Edition only). Installs the GUI and tools for managing VisiBroker ORB and services. Default is YES.
INSTALL_VISICORE	(optional, applies to VisiBroker Edition only). Installs the VisiBroker for Java and C++ development tools and server components. Default is YES.
INSTALL_DOCS	(optional). Installs the suite of online documentation. Default is YES.
INSTALL_EXAMPLES	(optional). Installs the example applications for Borland Enterprise Server. Default is YES.
VISI_SERVICES	(optional, applies to VisiBroker Edition only). When <code>INSTALL_TYPE</code> is <code>VisiBroker</code> , installs any optional VisiBroker Extended Services you purchased. The value is a comma-delimited list that contains one or more of the following entries: <ul style="list-style-type: none"> ■ <code>VisiNotify</code> ■ <code>VisiSecure</code> ■ <code>VisiTime</code> ■ <code>VisiTransact</code> ■ <code>VisiTelcoLog</code> <p>For example, if you purchased VisiBroker with <code>VisiNotify</code> and <code>VisiTransact</code>, include the following line in your silent installation <code><properties></code> file to install those additional services: <code>VISI_SERVICES=VisiNotify,VisiTransact</code></p> <p>For a description of each optional Extended Service, see step 6 under “Installing Borland VisiBroker” on page 10.</p>
CONFIGURATION_SETUP	(optional). Installs the VisiBroker example configuration. Default is YES.
VBROKER_SETUP	(optional). Windows only. The system variable <code>BES_LIC_DIR</code> is set to <code><install_dir>/var</code> and <code>BES_LIC_DEFAULT_DIR</code> is set to <code><install_dir>/license</code> . The default is NO.
VISICORE_FEATURES	{Javal.NET} this will determine whether you get Visi for Java/C++, Visi for .NET, or both. Default is Visi for Java/C++. This is ignored if you specified <code>INSTALL_VISICORE=NO</code>
VB_NET_MODE	{Development Client Server} which license mode you want for Visi for .NET. Default is Development. This is ignored if you did not include .NET in <code>VISICORE_FEATURES</code>
VB_NET_FEATURES	{Tools Add-In} whether you install the tools and/or add-in features. Default is neither tools nor add-in will be installed. If you specify Add-In, you'll get Tools as well. This is ignored if you did not include .NET in <code>VISICORE_FEATURES</code>

Sample silent installation properties for Windows

This example installs VisiBroker on non-default agent ports, and sets VisiBroker system variables.

```
INSTALLER_UI=silent
USER_INSTALL_DIR=c:/Borland/BDP
OSAGENT_PORT=14925
INSTALL_TYPE=VisiBroker
VBROKER_SETUP=YES
```

Sample silent installation properties for Solaris

This example installs VisiBroker on non-default agent ports, and installs several VisiBroker Extended Services.

```
INSTALLER_UI=silent
USER_INSTALL_DIR=/opt/Borland/BDP
USER_SHORTCUTS=/dev/null
OSAGENT_PORT=14925
INSTALL_TYPE=VisiBroker
VISI_SERVICES=VisiNotify,VisiSecure,VisiTime,VisiTransact,VisiTelcoLog
```

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