



macromedia
BREEZE

Installation Guide

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Resources for a Successful Breeze Deployment

Macromedia Breeze consists of three components: the Breeze Presentation platform, Breeze Training, and Breeze Live. Depending on the configuration purchased, you may be installing one, two, or all three of the components. The following are brief descriptions of the components:

Breeze Presentation platform The Breeze Presentation platform makes it possible to quickly create multimedia presentations that combine audio and video with slides and graphics.

Breeze Training Breeze Training lets you create courses, enroll students, and track and monitor student and course outcomes.

Breeze Live Breeze Live lets you conduct online real-time meetings in which you can show multimedia presentations and broadcast live audio and video to participants.

This chapter describes the variety of resources available to ensure successful deployment of the components within your organization.

Guide to documentation and additional resources

Macromedia Breeze contains a variety of media to help you learn how to use the components quickly.

About the electronic manuals and online help

In addition to this installation guide, the following electronic manuals and online help systems are available:

Note: The relevance of these guides to users depends on the modules installed on the Breeze Presentation platform, the type of user (such as meeting content manager, information technology engineer, or course presenter), and the user's Breeze account permissions.

- *Using the Breeze Manager* describes how to use the administration, presentation, and training components of Breeze. You can access *Using the Breeze Manager* documentation from the Breeze Manager Home page, and from the Help link in the Breeze Manager.
- *Using the Breeze Plug-In for PowerPoint* describes use of the plug-in that allows users to create Breeze presentations from PowerPoint. You can access *Using the Breeze Plug-In for PowerPoint* documentation from the Breeze Manager Home page, and from the Breeze menu in PowerPoint by selecting Breeze > Help.
- *Using the Breeze Publish Wizard* includes procedures for publishing Breeze presentations created in PowerPoint to your Breeze server. You can access *Using the Breeze Publish Wizard* documentation from the Breeze Manager Home page, and from the Help button in the Publish Wizard.
- *Breeze Live User Guide for Meeting Presenters* includes information about using the Breeze web application to host online real-time meetings. The documentation includes procedures that demonstrate the simplicity of adding slides, Flash SWF files, images, live audio and video to your presentation. You can access *Breeze Live User Guide* documentation from the Breeze Manager Home page, and from the Help menu within a Breeze Live meeting room (when you enter as a presenter) by selecting Meeting > Help.
- *Breeze Live User Guide for Meeting Participants* includes information relevant to users participating in an online real-time meeting. Breeze Live offers meeting participants a variety of options to make their experience truly participatory, including the ability to send messages and questions to presenters and to each other, and the ability to participate through live video and audio. You can access the *Breeze Live User Guide* documentation from the Breeze Manager Home page, and from the Help menu within a Breeze Live meeting room (when you enter as a participant) by selecting Meeting > Help.

To determine what documentation is relevant to your needs, consult the following table for guidelines:

Breeze user type	Recommended reading
Information technology (IT) engineer	<ul style="list-style-type: none">• <i>Breeze Installation Guide</i>.• Review the system requirements in all other user guides.
Content managers in charge of overall content within Breeze, and who may add users and permissions	<ul style="list-style-type: none">• <i>Using the Breeze Manager</i>• <i>Breeze Live User Guide for Meeting Presenters</i>

Breeze user type	Recommended reading
Content authors and instructional designers who create presentations and training with the Breeze Plug-In for PowerPoint	<ul style="list-style-type: none"> • <i>Using the Breeze Plug-In for PowerPoint</i> • <i>Using the Breeze Publish Wizard</i>
Content authors and instructional designers who create presentations and training with Breeze Live	<ul style="list-style-type: none"> • <i>Using the Breeze Manager</i> • <i>Breeze Live User Guide for Meeting Presenters</i>
Meeting administrators who create and manager Breeze Live meetings	<ul style="list-style-type: none"> • <i>Using the Breeze Manager</i> • <i>Breeze Live User Guide for Meeting Presenters</i>
End users who attend Breeze Live meetings	<ul style="list-style-type: none"> • <i>Breeze Live User Guide for Meeting Participants</i>

Information about specialized topics

This guide primarily provides information for a basic installation of Breeze components in which no more than one instance of each component is installed. It does not cover specialized topics. For information about clustered Breeze components, load balancing, and failover, see “Appendix A: Clustering Breeze Presentation Platforms” on page 26 and “Appendix B: Clustering Breeze Live” on page 29. For information about specialized topics not discussed in this installation guide, visit the Macromedia Breeze licensed-support website at www.macromedia.com/go/breeze_licensed_support.

Note: In order to access the licensed support site, you will need information from your Welcome letter, including your serial key.

The following are among the topics covered at the website:

- Upgrading from an earlier release
- Port numbers used by Macromedia Breeze
- Using and managing the Breeze database engine
- Integrating Macromedia Breeze with a learning management system (LMS)
- Troubleshooting

Additional resources

Additional documentation, white papers, and articles are available at the Breeze Product Center, Breeze Documentation Center, and Breeze Support Center websites:

Breeze Product Center The Breeze Product Center, at www.macromedia.com/software/breeze, is updated regularly with the latest information on Breeze, including FAQs, white papers, testimonials, and tips.

Breeze Documentation Center The Breeze Documentation Center, at www.macromedia.com/go/breeze_documentation, contains documentation for all Breeze products, answers to frequently asked questions, articles about specialized topics, and Breeze presentations.

Breeze Support Center The Breeze Support Center, at www.macromedia.com/support/breeze, contains current support information, including technical notes, helpful Breeze presentations, and support program details.

Troubleshooting

If you have difficulty installing or configuring Macromedia Breeze, visit the following website for troubleshooting information: www.macromedia.com/go/breeze_licensed_support.

Before You Install

For a successful installation, you should be aware of the information covered in this chapter. Topics include the following:

- [“Configurations available for installation” on page 7](#)
- [“Installation requirements” on page 7](#)
- [“The Breeze database” on page 10](#)
- [“Installing and configuring Macromedia Breeze overview” on page 10](#)

Configurations available for installation

Your enterprise has multiple configuration options available for installation of Breeze:

- Breeze Presentation platform
- Breeze Presentation platform and Breeze Training
Breeze Training is always installed on the same computer as Breeze Presentation platform.
- Breeze Presentation platform and Breeze Live
- Breeze Presentation platform, Breeze Training, and Breeze Live
- Breeze Live stand-alone configuration

When you install Breeze Live stand-alone configuration, you also need to install the Breeze application server, which provides necessary functionality that would otherwise be provided by the Breeze Presentation platform.

Additionally, depending on your organization's licensing and performance needs, you may choose to install a multi-server configuration. For more information, see [“Appendix A: Clustering Breeze Presentation Platforms” on page 26](#) and [“Appendix B: Clustering Breeze Live” on page 29](#).

When you run the Breeze installer, you see only the installation options for the specific components licensed by your organization.

Installation requirements

This section lists hardware and software requirements for installing the Breeze components. It covers the following topics:

- [“Breeze Presentation platform installation requirements” on page 7](#)
- [“Breeze Presentation platform with Breeze Live installation requirements” on page 9](#)
This section discusses installing Breeze Live and the Breeze Presentation platform on the same computer.
- [“Breeze Live installation requirements” on page 9](#)
This section lists requirements for installing Breeze Live on a separate computer from the Breeze Presentation platform.
- [“Additional software requirements” on page 10](#)

If you are installing the Breeze Live stand-alone configuration, all references to installation requirements for the Breeze Presentation platform in this chapter also apply to the Breeze application server, except where noted.

Note: For optimal performance, and to ensure the installation is not unnecessarily complicated, Macromedia recommends that you install Breeze on a dedicated computer.

Breeze Presentation platform installation requirements

The requirements for installing the Breeze Presentation platform alone and installing the Breeze Presentation platform with Breeze Training are identical. If you have Breeze Live, you can install it on the same computer as the Breeze Presentation platform or on another computer. For the requirements for installing Breeze Live on the same computer, see [“Breeze Presentation platform with Breeze Live installation requirements” on page 9](#).

You can install the Breeze Presentation platform on a computer that meets the requirements described in the next section.

Hardware requirements for the Breeze Presentation platform

Your computer must meet the following hardware requirements for installing and using the Breeze Presentation platform:

- A Pentium III, 733 MHz processor
- 512 MB of RAM
- A CD-ROM drive
- A hard disk with the following disk space:
 - 1 GB for Macromedia Breeze Presentation platform installation
 - 10 GB per 100 presentations

Software requirements for the Breeze Presentation platform

You must have the following software on your computer to install the Breeze Presentation platform:

- One of the following Windows operating systems:
 - Windows XP Professional
 - Windows 2000 Server
 - Windows 2000 Professional
 - Windows 2003 Professional
 - Windows 2003 Server
- A local printer driver

The computer that is going to host the Breeze Presentation platform must have a local printer driver on it before you install Microsoft PowerPoint or Microsoft Office, or run the Breeze installer. This requirement applies even if the computer hosting the Breeze Presentation platform does not connect to a local printer.

If your server hardware platform lacks a local printer (LPT) port, you can install a local printer by starting the printer spooling service, and then setting it to start automatically.

Note: If you installed PowerPoint or Microsoft Office prior to installing a local printer driver, be sure to install the printer driver before installing the PowerPoint or Microsoft Office service packs and updates.

If there is no local printer driver or you install the printer driver after the Presentation platform is installed, the Presentation platform cannot convert PowerPoint presentations to Breeze Flash presentations. For instructions on verifying that a printer driver is installed and installing one if necessary, see the following procedures.

A local printer driver must be installed before you install Microsoft PowerPoint 2002 or Microsoft PowerPoint 2003.

- Microsoft PowerPoint 2002 or Microsoft PowerPoint 2003

PowerPoint 2002 or PowerPoint 2003 must be installed on the computer that is going to host the Breeze Presentation platform before you run the Breeze installer. If PowerPoint 2002 or PowerPoint 2003 are not installed, or if you install PowerPoint after the Presentation platform is installed, the Presentation platform cannot convert PowerPoint presentations to Breeze Flash presentations.

To install PowerPoint 2002 or PowerPoint 2003 for use with the Breeze Presentation platform, you must copy the contents of the PowerPoint installation CD to the hard disk of the computer you are installing on, and run the PowerPoint installer from the hard disk. You must follow this procedure because, in some contexts, Breeze might display a dialog box that requests you to install a component that is not part of a standard PowerPoint installation but is on the PowerPoint installation CD. There are cases in which the PowerPoint installer can install such a component from your hard disk, but not from the installation CD.

To verify that a printer driver is installed:

- 1 Select Start > Control Panel > Printers and Faxes.
Printers and Faxes lists the printer drivers installed on the computer.
- 2 Display the list in Thumbnails view. Select View > Thumbnails.
In Thumbnails view, the following icon for a local printer appears:



To install a printer driver if none is installed:

- If no printer drivers are installed, select Add, and then select a local printer driver for installation. The Windows printer-driver wizard guides you through the process.

Breeze Presentation platform with Breeze Live installation requirements

If your Breeze configuration includes Breeze Live, you can install the Breeze Presentation platform and Breeze Live on the same computer or on separate computers. This section gives installation requirements for installing Breeze Live and the Breeze Presentation platform on the same computer. For installation requirements when you install the Breeze Presentation platform without Breeze Live, see the preceding section.

Hardware requirements for the Breeze Presentation platform with Breeze Live

Your computer must meet the following hardware requirements for installing and using Breeze Live and the Breeze Presentation platform:

- A Pentium 4, 1 GHz processor (dual Pentium 4 or faster recommended)
- 512 MB of RAM
- A CD-ROM drive
- A hard disk with the following disk space:
 - 1 GB for Breeze Presentation platform installation
 - 10 GB per 100 presentations
This requirement does not apply to the Breeze application server in a Breeze Live stand-alone configuration.
 - 500 MB for Breeze Live installation
 - Initially, 80 GB for Breeze Live meeting files. Disk space requirements increase as more Breeze Live meetings are stored.

Software requirements for the Breeze Presentation platform with Breeze Live

The software requirements for installing the Breeze Presentation platform and Breeze Live on a computer are the same as for installing only the Breeze Presentation platform. For information on Breeze Presentation platform software requirements, see [“Software requirements for the Breeze Presentation platform” on page 8](#).

Breeze Live installation requirements

You can install Breeze Live on a computer that meets the following minimum requirements.

Hardware requirements for Breeze Live

Your computer must have the following hardware in order to install and use Breeze Live with the Breeze application server:

- A Pentium 4, 1-GHz processor (dual Pentium 4 or faster recommended)
- 512 MB of RAM
- A CD-ROM drive
- A hard disk with the following disk space:
 - 500 MB for Breeze Live installation
 - Initially, 80 GB for Breeze Live meeting files. Disk space requirements increase as more Breeze Live meetings are stored.

Software requirements for Breeze Live

You must have one of the following Windows operating systems on your computer to install the Breeze Presentation platform:

- Windows XP Professional
- Windows 2000 Server
- Windows 2000 Professional

- Windows 2003 Professional
- Windows 2003 Server

Additional software requirements

In addition to specific requirements for the computers hosting the Breeze Presentation platform and Breeze Live, Macromedia Breeze requires the following software:

- A database management system: either the Breeze database engine or Microsoft SQL Server 2000. The Breeze database engine comes with Macromedia Breeze, but there are restrictions on its use. For information about choosing between the Breeze database engine and Microsoft SQL Server 2000, see [“The Breeze database” on page 10](#).
- An SMTP e-mail server. The Breeze Presentation platform requires an SMTP e-mail server for sending e-mail notifications. To use the e-mail server with Breeze, you need to set a configuration property in the Breeze Presentation platform. For more information, see [“Configuring the Breeze Presentation Platform”](#).

For updated Breeze system requirements and recommendations, see www.macromedia.com/go/breeze_sysreqs.

The Breeze database

The Breeze Presentation platform requires a database created through either the Breeze database engine or Microsoft SQL Server 2000.

The Breeze database engine comes with Macromedia Breeze, but it has the following limitations:

- Because of licensing restrictions, you can install the Breeze database engine only on the same computer as the Breeze Presentation platform.
- Also because of licensing restrictions, you can only install the Breeze database engine on a single-processor computer.
- The Breeze database engine has a command-line interface for managing and querying the database, in contrast to Microsoft SQL Server 2000, which has graphical tools for these uses.

Recommendations:

- Consider installing the Breeze database engine for use in test environments.
- In a production environment, give preference to Microsoft SQL Server 2000 if your database administrator is not comfortable with command line interfaces.

For information on setting up the Breeze database through Microsoft SQL Server 2000, see [“Setting configuration properties for Microsoft SQL Server 2000” on page 15](#).

Note: To use a database with Breeze, the database must be set to case insensitive.

Installing and configuring Macromedia Breeze overview

To install and configure Breeze, perform the following steps.

To install and configure Macromedia Breeze:

- 1 Make sure that you have met all hardware and software requirements described in this chapter.
- 2 Run the Breeze installer to install Breeze components (see [“Installing Breeze” on page 11](#)).
- 3 Configure the Breeze database (see [“Setting Up the Breeze Database” on page 15](#)).
- 4 Configure the Breeze Presentation platform (see [“Configuring the Breeze Presentation Platform” on page 17](#)).
- 5 Configure Breeze Live, if you have installed it on a separate computer from the Breeze Presentation platform (see [“Configuring Breeze Live” on page 19](#)).

For information about starting Macromedia Breeze, see [“Starting your Breeze components” on page 21](#).

Installing Breeze

Before you begin the installation process, check the following items:

- All requirements listed in “Before You Install” on page 7 are satisfied.
Verify the following requirements:
 - A local printer driver is installed on the same computer as the Breeze Presentation platform.
 - Microsoft PowerPoint XP is installed on the same computer as the Breeze Presentation platform.
- You have the serial number provided by Macromedia for installing Macromedia Breeze.
The Welcome letter that comes with the installation DVD contains the serial number.

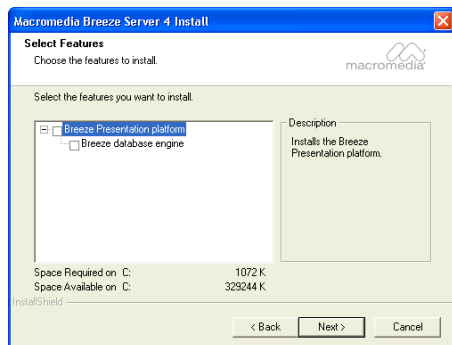
Using the Breeze installer

Use the procedure described in this section to install Breeze.

To install Breeze:

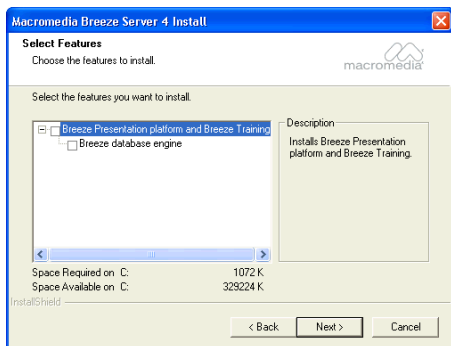
- 1 If the Breeze installer does not start automatically when you insert the Breeze installation DVD into the DVD drive, double-click the setup.exe file in the installation DVD’s root folder.
The installer Welcome window appears.
- 2 Click Next.
The License Agreement window appears.
- 3 Click Yes to accept the licensing terms.
The Customer Information window appears.
- 4 Enter your name, your company’s name, and your Breeze serial number.
The Welcome letter that comes with the installation CD contains the serial number.
The Choose Destination Location window appears.
- 5 Click Next to accept the default installation folder, or click the Browse button to select a different location, and then click Next.
The Select Features window appears and lists the software that you can install. The contents of the window vary, depending on which Breeze components you are licensed to install.
- 6 Select the software you want to install according to one of the following Breeze configurations:

Breeze Presentation platform only The following Select Features window appears if you are licensed to install only the Breeze Presentation platform:



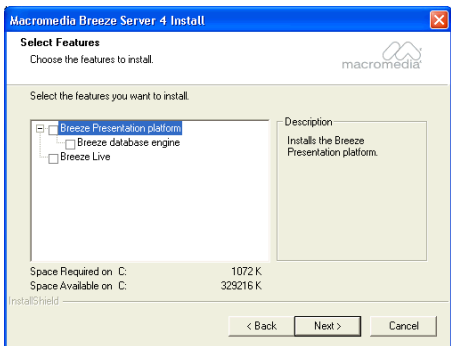
Note: If you install the Breeze database engine, it must be installed at the same time and on the same computer as the Breeze Presentation platform.

Breeze Presentation platform and Breeze Training The following Select Features window appears if you are licensed to install the Breeze Presentation platform and Breeze Training, but not Breeze Live:



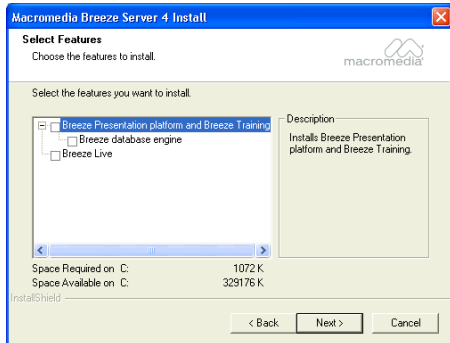
Note: The Breeze Presentation platform and Breeze Training are installed together, on the same computer. If you install the Breeze database engine, it must be installed at the same time and on the same computer as the Breeze Presentation platform.

Presentation platform and Breeze Live The following Select Features window appears if you are licensed to install the Breeze Presentation platform and Breeze Live, but not Breeze Training:



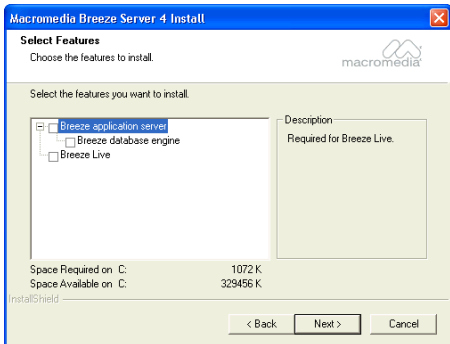
Note: If you install the Breeze database engine, it must be installed at the same time and on the same computer as the Breeze Presentation platform.

Breeze Presentation platform, Breeze Training, and Breeze Live The following Select Features window appears if you are licensed to install all three Breeze components:



Note: The Breeze Presentation platform and Breeze Training are installed together, on the same computer. If you install the Breeze database engine, it must be installed at the same time and on the same computer as the Breeze Presentation platform.

Breeze Live stand-alone configuration The following Select Features window appears if you are licensed to install the Breeze Live stand-alone configuration:



Note: If you install the Breeze database engine, it must be installed at the same time and on the same computer as the Breeze Presentation platform.

- 7 After you select the features you want in the Select Features window, click Next.

The Setup Status window appears and shows the installer's progress. Installing the software may take a few minutes.

If you elected to install the Breeze database engine, the installer for the Breeze database engine starts (the installer identifies itself as the installer for Microsoft SQL Server, Desktop Edition) after the Macromedia Breeze installation completes. Installing the Breeze database engine may take a few minutes. The installation proceeds automatically—you do not need to interact with the Breeze database-engine installer.

When installation is complete, the Breeze installation wizard Complete window appears.

- 8 Click Finish to exit the Breeze installation wizard.

After you install Breeze software, you need to configure it, which is described in the following section:

- “Setting Up the Breeze Database” on page 15
- “Configuring the Breeze Presentation Platform” on page 17
- “Configuring Breeze Live” on page 19

You need to configure Breeze Live only if you have installed it on a separate computer from the Breeze Presentation platform.

Completing an aborted installation

If the installer aborts during the installation of any Breeze components that include the built-in Breeze database, use the following procedure to complete the installation.

Note: If you were installing the Microsoft SQL server when the installation aborted, you should uninstall the Microsoft SQL server before completing the following steps. For more information, see the Breeze TechNote entitled *Installer detects existing installation of SQL Server* at www.macromedia.com/go/breeze_uninstall_technote.

To complete an aborted installation:

- 1 Reboot the server.
- 2 In Windows, open the Control Panel and double-click Add/Remove Programs.
- 3 In the Add or Remove Programs dialog box, select Macromedia Breeze Server, and then select Change or Remove Programs on the left of the dialog box. Click Change/Remove.
- 4 In the installation wizard, deselect the option to install the Breeze database and follow the steps in the wizard to finish installing Breeze Live and application server components.
- 5 When the installation is complete, reboot the server.

Starting and stopping Breeze components

Before you start the Breeze components, you must make sure that they have been properly configured and that either the Breeze database engine or Microsoft SQL Server is running.

To start the Breeze Presentation platform:

- Select Start > All Programs > Macromedia > Macromedia Breeze 4 > Start Breeze Server.

To stop the Breeze Presentation platform:

- Select Start > All Programs > Macromedia > Macromedia Breeze 4 > Stop Breeze Server.

To start Breeze Live:

- Select Start > All Programs > Macromedia > Macromedia Breeze 4 > Start Breeze Live Server.

To stop Breeze Live:

- Select Start > All Programs > Macromedia > Macromedia Breeze 4 > Stop Breeze Live Server.

Uninstalling Macromedia Breeze

You can uninstall Macromedia Breeze through the Windows Control panel. Before uninstalling, make sure you stop both the Breeze Presentation platform and Breeze Live, as described in the preceding section.

To uninstall Macromedia Breeze using the Windows Control Panel:

- 1 Open the Control panel and double-click Add/Remove Programs. Then select Macromedia Breeze Server 4.
- 2 Click Remove.

When you uninstall Macromedia Breeze, it does not uninstall the following elements:

- Breeze database
- Log files
- The Breeze configuration file, custom.ini
- Content files

If you experience any difficulty uninstalling Breeze, refer to TechNotes at the Breeze Licensed Support site: www.macromedia.com/go/breeze_licensed_support.

Setting Up the Breeze Database

Macromedia Breeze requires a database in order to store information about users, content, courses, meetings, and reports. The database is created through either the Breeze database engine or Microsoft SQL Server 2000. The Breeze database engine comes with Macromedia Breeze. You can install it at the same time you install the Breeze Presentation platform.

Note: If you are using the Breeze Live stand-alone configuration, all references to the Breeze Presentation platform in this chapter also apply to the Breeze application server.

The first time the Breeze Presentation platform runs, it creates the Breeze database. To create the database, the Breeze Presentation platform uses information in the configuration file, custom.ini, and executes a SQL script. The script creates the database and all the tables, indexes, and stored procedures that Macromedia Breeze requires.

If you use the Breeze database engine, the Breeze Presentation platform can use the default values in the custom.ini configuration file to create and set up the Breeze database. If you use Microsoft SQL Server 2000, you must set configuration properties in the custom.ini file, as described in the next section. To use a database with Breeze, the database must be set to case insensitive.

Note: Generally, there is no need to change configuration settings for the Breeze database engine. However, if you want to change any of the default settings for it, visit the following website for more information: www.macromedia.com/go/breeze_licensed_support.

Setting configuration properties for Microsoft SQL Server 2000

If you use Microsoft SQL Server 2000 for the Breeze database, you must set configuration properties in the Breeze Presentation platform configuration file, custom.ini.

To set configuration properties for the Breeze database when you use Microsoft SQL Server 2000:

- 1 Before you start the Breeze Presentation platform, you must edit the Breeze configuration file. Select Start > All Programs > Macromedia > Macromedia Breeze 4 > Configure Breeze.
- 2 Set properties in the Breeze configuration file, as listed in the following table:

Property	Default value	Description
DB_HOST	localhost	The name of the Microsoft SQL Server 2000 host computer
DB_NAME	breeze	The name of the Breeze database
DB_USER	sa	The user name for the Breeze Presentation platform to use in creating and accessing the database
DB_PASSWORD	breeze	The password for the Breeze Presentation platform to use in creating and accessing the database. To change the password, see "Changing the Breeze password" on page 15 .

To change the default password, which you should do to maintain security, and to see a complete list of the configuration properties that must be set before you can use Macromedia Breeze, see ["Configuring the Breeze Presentation Platform" on page 17](#).

Changing the Breeze password

The password for the Breeze Presentation platform allows access to the Breeze database. For the integrity of your system security, change the default password if you're using the Breeze database.

Note: Microsoft SQL Server 2000 users usually already have a password that the database administrator has set.

To change the database password:

- 1 Open the command prompt window on the computer that is hosting the database and type `osql -U sa -P breeze -d breeze` to log in to the Breeze database.
- 2 Enter the command for the new password, as shown in the following example:

```
sp_password @old=breeze, @new='NewPassword', @loginame = 'sa' go
```

For additional information about changing the password, see the Microsoft article, "How to Verify and Change the MSDE System Administrator Password" at: <http://support.microsoft.com/default.aspx?scid=kb;EN-US;322336#3>

Maintenance

For proper maintenance, you should back up files on a regular basis.

- To maintain the Microsoft Data Engine Database, see the Microsoft article, “Backing Up and Restoring Microsoft Data Engine Databases” at: www.microsoft.com/office/ork/2000/five/75t2_6.htm.
- You should regularly back up the content folder in the following location:
[Boot drive]\Breeze\content.
- Periodically, back up the entire Breeze root directory.
- You should occasionally delete log files in order to conserve disk space.

Upgrading Breeze

For information about upgrading Breeze and the database, see the “Upgrade Guide” at: www.macromedia.com/go/breeze_4_upgrade.

Configuring the Breeze Presentation Platform

It's important to configure the Macromedia Breeze Presentation platform by setting property values in the Breeze configuration file, custom.ini. For example, you should change the default support password to use the URL of your own enterprise support site. The following procedure and table indicate how to change settings in the custom.ini file.

Note: If you are using the Breeze Live stand-alone configuration, all references to the Breeze Presentation platform in this chapter also apply to the Breeze application server.

To open the Breeze configuration file for editing:

- Select Start > All Programs > Macromedia > Macromedia Breeze 4 > Configure Breeze.

The following table lists properties in the order in which they appear in the configuration file:

Property	Default value	Description
ADMIN_HOST	[none]	The host name to use in a URL for accessing Breeze. This is the host name that users enter directly in their browsers. For example, for the URL <code>http://aserver.mybreeze.com</code> , you would set <code>ADMIN_HOST=aserver.mybreeze.com</code> . If you set your web server to use a different port than port 80 for receiving HTTP messages, you must add the port number to the host name, as shown in the following example: <code>ADMIN_HOST=aserver.mybreeze.com:8080</code>
ADMIN_EMAIL	[none]	The login name to use for primary administrative access to the Breeze Manager. The login name must be the e-mail address of the primary administrator. The following example shows how you can set this property. <code>ADMIN_EMAIL=jsmith@mycompany.com</code>
ADMIN_PASSWORD	[none]	The password to use for primary administrative access to the Breeze Manager.
SYSTEM_EMAIL	[none]	The e-mail address that users see as the source of notifications sent by Breeze and to which they can send responses. You can define the user name in the e-mail address as an alias so that more than one person receives user responses. The following example shows how you can set this property. <code>SYSTEM_EMAIL=breeze@mycompany.com</code>
SUPPORT_EMAIL	*** Support link not configured. Please see installation guide for customizing support links. ***	An e-mail address or URL within your organization to which you want to direct users when they need technical support or help with using Breeze. The address or URL you enter is used in Breeze e-mail notifications. The following examples show how you can set this property. <code>SUPPORT_EMAIL=http://www.mydomain.com/breeze/support/index.html</code> <code>SUPPORT_EMAIL=breezesupport@mydomain.com</code> If you do not change the default value, users see the default text instead of a support location.
BCC_EMAIL	[none]	A "blind-copy" e-mail address to which all notifications that users receive are also sent. This property allows administrative tracking of e-mail messages sent through Breeze without exposing an internal e-mail address. The following example shows how you can set this property. <code>BCC_EMAIL=sjones@mycompany.com</code>
SMTP_HOST	mail	The name of the outgoing SMTP mail server to use for sending out Breeze e-mail notifications.
DB_HOST	localhost	The name of the Breeze database's host computer.
DB_NAME	breeze	The name assigned to the Breeze database.

Property	Default value	Description
DB_USER	sa	The user name for the Breeze Presentation platform to use in accessing the database.
DB_PASSWORD	breeze	The password for the Breeze Presentation platform, which allows access to the database. For the integrity of your system security, change the default password. See "Changing the Breeze password" on page 15 .
HTTP_PORT	80	The port for the web server associated with Breeze to use for receiving HTTP messages.
#FCS_CONTENT_PATH	\\fileservers\bre ezeshare\cont ent\	If you have installed Breeze Live and the Breeze Presentation platform on separate computers, this property is the path to shared Breeze Live meeting files. Initially, the property is commented out. You need to uncomment it for it to take effect, as shown in the following example: FCS_CONTENT_PATH=\\fileservers1\breeze\live_meetings For more information on Breeze Live shared files, see "Configuring Breeze Live" on page 19 .

Configuring Breeze Live

If you install Macromedia Breeze Live on the same computer as the Breeze Presentation platform, no additional configuration of Breeze Live is necessary. If you install Breeze Live on a separate computer from the Breeze Presentation, you need to perform the configuration steps described in this chapter.

Note: If you are using the Breeze Live stand-alone configuration, all references to the Breeze Presentation platform in this chapter also apply to the Breeze application server.

Breeze Live creates files that need to be shared with the Breeze Presentation platform. If Breeze Live is not on the same computer as the Breeze Presentation platform, you need to set up the shared access to these files and copy the custom.ini configuration file used by the Breeze Presentation platform to the Breeze Live host computer.

To configure Breeze Live on a separate computer from the Breeze Presentation platform:

- 1 Create a user account on the domain that contains the Breeze Live and Breeze Presentation platform host computers, and give the account administrative privileges to both computers.
This is the Breeze user account. Breeze Live and the Breeze Presentation platform will use this account to run as Windows services.
- 2 Immediately under the Breeze Live installation folder, create a folder called “content” for the files that Breeze Live and the Breeze Presentation platform need to share.
- 3 Share the Breeze Live installation folder so that Breeze Live and the Breeze Presentation platform have access to it.
- 4 Set permissions on the Breeze Live installation folder. Give the Breeze user you created in step 1 full control of the folder.
Because Breeze Live and the Breeze Presentation platform run as the Breeze user you created, this privilege lets them write files to the folder and its subfolders.
- 5 Set the `FCS_CONTENT_PATH` property in the Breeze Presentation platform custom.ini configuration file to the location of the content folder you created in step 2.

For example, if the Breeze Live host computer is named ZLIVE, you set `FCS_CONTENT_PATH` as shown in the following example:

```
FCS_CONTENT_PATH=\\ZLIVE\breeze_live_install_folder\content
```

For more information about the `FCS_CONTENT_PATH` configuration property, see the table of configuration properties in “[Configuring the Breeze Presentation Platform](#)” on page 17.

The custom.ini configuration file on the Breeze Presentation platform host computer resides in the Breeze Presentation platform installation folder.

- 6 If your Breeze server will serve presentations for Internet clients, add the following entries at the end of the configuration file. In the example below, `breeze.yourhostname.com` represents the fully qualified domain name of your Internet accessible Breeze server as it appears in the Domain Name Service (DNS) and in your `ADMIN_HOST` entry.

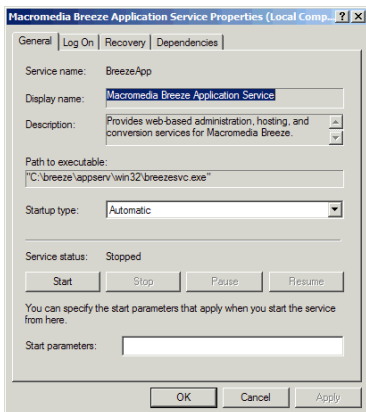
```
USE_HOST_MAPPINGS=yes  
host.breeze=breeze.yourhostname.com
```

- 7 Copy the custom.ini file to the Breeze Live installation folder on the Breeze Live host computer.
- 8 On the Breeze Presentation platform host computer, set the login properties for the Macromedia Breeze Application Service so that the Breeze user account can start the service.

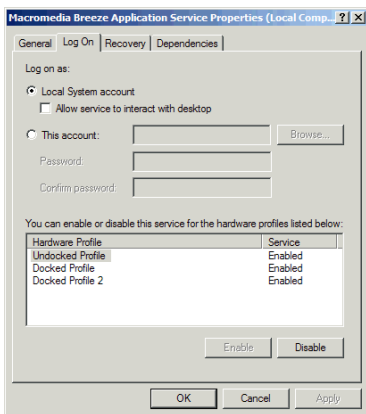
To set login properties for the Macromedia Breeze Application Service:

- a Depending on your operating system, do one of the following:
 - In Windows 2000, select Start > Settings > Control Panel > Administrative Tools > Services.
 - In Windows XP, select Start > Control Panel > Performance and Maintenance > Administrative Tools > Services.
 - In Windows 2003, select Start > Administrative Tools > Services

- b In the list of services, double-click Macromedia Breeze Application Service.
The Properties window for the Macromedia Breeze Application Service appears:



- c Click the Log On tab.
The Log On dialog box appears:



- d Select This Account and then enter the name of the Breeze user account you created, followed by the account's password and a confirmation of the password.
- 9 Restart the Macromedia Breeze Application Service for your changes to take effect.
- 10 On the Breeze Live host computer, follow the procedure given in step 7, and set the login properties for the Flash Communication Server and the Flash Communication Administration Server so that the Breeze user account can start the services.
- 11 Restart the Flash Communication Server and the Flash Communication Administration Server for your changes to take effect.

Verifying Your Installation

After you have installed and configured Macromedia Breeze, you should verify that the installation was successful and that all features are functional.

Note: If you are using the Breeze Live stand-alone configuration, all references in this chapter to the Breeze Presentation platform also apply to the Breeze application server.

This chapter describes how to verify a successful Breeze installation using the following procedures:

To verify a successful Breeze installation:

- 1 Start your Breeze components and other required software (see “Starting your Breeze components” on page 21).
- 2 Verify that the Breeze database and Breeze Presentation platform work together (see “Verifying that the Breeze database and Breeze Presentation platform work together” on page 22).
- 3 Verify that you can use the Breeze Manager, a web application within the Breeze Presentation platform, and that it can send e-mail using your e-mail server (see “Verifying that you can use the Breeze Manager and send e-mail notifications” on page 23).
If you installed the Breeze Live stand-alone configuration, skip steps 4 and 5, and go directly to step 6.
- 4 Verify that you can use basic features of the Breeze Presentation platform: Convert a PowerPoint presentation to a Breeze Flash presentation, save it in the Presentation platform content library, and then view it (see “Verifying that you can use the Breeze Presentation platform” on page 23).
- 5 If you have installed Breeze Training, verify that you can use it (see “Verifying that you can use Breeze Training” on page 24).
- 6 If you have installed Breeze Live, verify that you can use it (see “Verifying that you can use Breeze Live” on page 24).

If you receive error messages or cannot perform any of the steps, visit the following website for troubleshooting information: www.macromedia.com/go/breeze_licensed_support.

Starting your Breeze components

Before you can verify that your Breeze components function successfully, you must start the database management system for the Breeze database and the Breeze Presentation platform. You must start your Breeze components in the following order:

- 1 Start the Breeze database before you start the Breeze Presentation platform.
- 2 Start the Breeze Presentation platform before you start Breeze Live.

If you are using Breeze Live stand-alone configuration, start the Breeze application server before you start Breeze Live.

Starting the database management system for the Breeze database

The following procedure applies to the Breeze database engine, which is installed as a Windows service. If you configured Microsoft SQL Server 2000, you simply need to verify that the database is running.

To start the Breeze database:

- 1 Open the Services window under the Windows Control Panel:
 - In Windows 2000, select Start > Settings > Control Panel > Administrative Tools > Services.
 - In Windows XP, select Start > Control Panel > Performance and Maintenance > Administrative Tools > Services.
 - In Windows 2003, select Start > Administrative Tools > Services.
- 2 In the list of services, find MSSQLSERVER.
The Breeze database engine appears as MSSQLSERVER in the list of services.
- 3 If the status is Stopped, select MSSQLSERVER, and click the Restart icon (Windows 2000 and Windows 2003) or the Restart link (Windows XP).

Starting the Breeze Presentation platform

The following procedure starts the Breeze Presentation platform.

To start the Breeze Presentation platform:

- Select Start > All Programs > Macromedia > Macromedia Breeze 4 > Start Breeze Server.

Starting Breeze Live

The following procedure starts Breeze Live.

To start Breeze Live:

- Select Start > All Programs > Macromedia > Macromedia Breeze 4 > Start Breeze Live Server.

Verifying that the Breeze database and Breeze Presentation platform work together

If you can log in to the Breeze Manager (a web application within the Breeze Presentation platform), it means that the Breeze database and the Breeze Presentation platform can function together.

To log in to the Breeze Manager:

- 1 Go to the following URL: `http://hostname/common/support/course/startmain.htm`.

In this URL, *hostname* is the name of the Breeze Presentation platform host computer.

The Welcome page for Macromedia Breeze appears. Under the Start Using Macromedia Breeze heading, there is a link for logging in to Breeze and a link for downloading the Macromedia Breeze Plug-In for Microsoft PowerPoint. You will download the Breeze Plug-in for PowerPoint in a later step (see “[Verifying that you can use the Breeze Presentation platform](#)” on page 23).

- 2 Click the login link.

The Breeze Manager log-in window appears.

- 3 As your login name, enter the value you set for the ADMIN_EMAIL property in the Breeze Presentation platform configuration file (see the table of configuration properties in “[Configuring the Breeze Presentation Platform](#)”).
- 4 As your password, enter the value you set for the ADMIN_PASSWORD property in the Breeze Presentation platform configuration file (see the table of configuration properties in “[Configuring the Breeze Presentation Platform](#)”).

If you can log in successfully, the Breeze Manager home page appears. If you do not have Breeze Training, the Courses tab is not visible. If you do not have Breeze Live, the Meetings tab is not visible.

macromedia
BREEZE

Home | Content | Courses | Meetings | Users | Reports | Account help | logout

Home | My Courses | My Scheduled Meetings logged in: sgowin@macromedia.com

Actions

- [New Meeting](#)
- [Change My Password](#)
- [Change My Time Zone](#)
- [View Documentation & Resources](#)

Search Breeze

My Scheduled Meetings	Role	Start Time
You have no meetings.		

My Courses	Opens	Closes
You are not enrolled in any courses.		

Verifying that you can use the Breeze Manager and send e-mail notifications

To verify that you can use the Breeze Presentation platform and that it can send e-mail using your e-mail server, you'll create a new Breeze user, send an e-mail notification to the user, and then confirm that the e-mail was received.

To create a new user and send an e-mail notification:

- 1 Click the Users tab on the Breeze Manager home page.
- 2 In the Users and Groups page, click New User.
The New User Information page appears and requires the following information:
 - First Name
 - Last Name
 - Email (your e-mail address, which is used as your login name)
 - Password (this must be four characters or more in length)
- 3 Enter the required information using your e-mail address in the Email text box, and make sure that the Email the New User Account Information, Login and Password option is selected.
- 4 Under the Group Memberships heading, assign the user to the Account Administrators group and click Save.
- 5 Allow enough time for an e-mail notification to arrive, and check your e-mail.

If you received the notification, your Breeze Presentation platform is functional and can send e-mails using your e-mail server.

The new-user notification contains the following text and URL:

To start using your Macromedia Breeze account, use the following link:

http://ADMIN_HOST/common/support/course/startmain.htm

Here, *ADMIN_HOST* is the value you set for the *ADMIN_HOST* property in the Breeze Presentation platform *custom.ini* configuration file. For more information about the *ADMIN_HOST* configuration property, see the table of configuration properties in [“Configuring the Breeze Presentation Platform” on page 17](#).

The URL takes you to the Breeze Welcome page, from which you can download the Breeze Plug-In for PowerPoint, which is required in the next section.

Verifying that you can use the Breeze Presentation platform

To verify that you can use the Breeze Presentation platform, you'll send a PowerPoint presentation to the Breeze Presentation platform for compilation into a Breeze Flash presentation and then view it.

Before you can send a PowerPoint presentation to the Breeze Presentation platform, you must install the Breeze Plug-In for PowerPoint on a computer that meets the following requirements:

- PowerPoint is already installed on the computer.
- The Breeze Presentation platform is not currently installed on the computer and is not going to be installed later, as long as the plug-in is in use.

To create a Breeze presentation and view it:

- 1 Go to the URL that you received in the new-user notification that was described in the preceding section (http://ADMIN_HOST/common/support/course/startmain.htm).
The URL takes you to a page with the heading “Welcome to Macromedia Breeze” and a link for downloading the Breeze Plug-In for PowerPoint.
- 2 Click the download link.
A login window for the download appears.
- 3 Log in with the e-mail address and password of the user you created in step 2 of [“Verifying that you can use the Breeze Manager and send e-mail notifications” on page 23](#).
The Macromedia Breeze Plug-In for PowerPoint page appears and gives instructions for installing the plug-in.
- 4 Follow the instructions for installing the plug-in.
- 5 If you do not have a PowerPoint presentation that you can send to the Breeze Presentation platform for compilation into a Breeze Flash presentation, create a presentation of one or two slides and save the presentation.

- 6 Open the Breeze Publish Wizard by selecting Publish from the Breeze menu in PowerPoint. The Publish Wizard login window appears.
- 7 Log in with the e-mail address and password you used in step 3, and follow the steps in the Publish Wizard.
When you complete the steps in the Publish Wizard, your PowerPoint presentation is uploaded to the Breeze Presentation platform and compiled into a Breeze Flash presentation. When the compilation is complete, the Presentation platform sends you an e-mail notification with a link to the presentation.
- 8 Click the link in the e-mail notification to view the presentation in your browser.

Verifying that you can use Breeze Training

To verify that Breeze Training is functional, you'll use the Breeze Plug-In for PowerPoint to create a quiz within a PowerPoint presentation, publish the presentation using the Publish Wizard, create and enroll in a Breeze course, and take the quiz. Then confirm that you can generate a report that contains the quiz results.

To verify that Breeze Training is installed and functioning successfully:

- 1 In PowerPoint, select Breeze > Quizzes and Surveys.
- 2 In the Quiz Wizard that appears, follow the steps to create a quiz.
Only one quiz question is necessary.
- 3 After you create your quiz in PowerPoint, publish it to the Breeze Presentation platform.
The publishing procedure is the same as step 6 in the procedure in ["Verifying that you can use the Breeze Presentation platform" on page 23](#).
- 4 In the Breeze Manager, click the Courses tab to open the Courses page, and then click New Course.
- 5 In the Course wizard, follow the steps to create a course.
 - In step 2, select the PowerPoint presentation that contains the quiz you created.
 - In step 3, enroll yourself as a learner.
 - In step 5, send an e-mail notification to yourself.
The e-mail notification you receive contains a link to the course presentation.
- 6 Click the link to see the course presentation and take the quiz.
- 7 After submitting your quiz, go to the Breeze Manager, and click the Reports tab.
- 8 On the Reports page, click the Course Reports [View] link.
The Course Reports page appears. Your course should be listed.
- 9 Click the By Users link for your course.
A page that contains information about your course by individual user appears. If the report lists you as a user and gives your quiz results, you have verified that Breeze Training is successfully installed.

Verifying that you can use Breeze Live

To verify that Breeze Live is functional, you'll create a Breeze meeting and then enter (log in to) the meeting room.

To verify that Breeze Live is installed and functioning successfully:

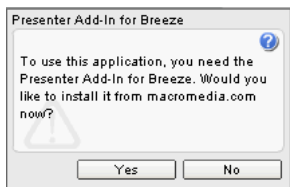
- 1 In the Breeze Manager, click the Meetings tab and select New Meeting.
The first page of the Meeting Wizard appears and requires the following information:
 - Meeting Name
 - Summary
 - Start Time
 - Duration
 - Meeting Access
- 2 Enter the required information. For the Meeting Access option, select Only Registered Users and Accepted Guests May Enter This Room, and then click Next.
The Select Participants page appears.

- 3 Select the user you created earlier (see step 2 in “[Verifying that you can use the Breeze Manager and send e-mail notifications](#)” on page 23) and click Finish.

The Meeting Information page for the meeting you created appears.

- 4 Click the Invitations link.
- 5 On the Invitations page, click Send to send yourself a meeting invitation. This invitation contains a link to the meeting room in which the meeting is held.
- 6 When the meeting invitation arrives, click the meeting link.

If the Presenter Add-In for Breeze is not installed on your computer, the following window appears:



- 7 If the Presenter Add-In for Breeze window appears, click Yes.
A login window for your meeting appears.
- 8 Log in to enter the meeting as a Registered User.
Use the e-mail address and password for the user you created earlier (see step 2 in “[Verifying that you can use the Breeze Manager and send e-mail notifications](#)” on page 23).
If your browser successfully displays the online meeting room for your meeting, Breeze Live is functional.

Appendix A: Clustering Breeze Presentation Platforms

If your Macromedia Breeze license permits, you can install the Breeze Presentation platform on two or more computers, and then cluster the Breeze Presentation platforms to provide load balancing and failover.

Clustering Breeze Presentation platforms has the following advantages:

- You can effectively use third-party hardware or software to provide load balancing and failover for HTTP requests. Clustering Breeze Presentation platforms allows them to share session data with each other so that load balancing and failover through third-party solutions can be effective.
- Clustered Breeze Presentation platforms provide their own load balancing for requests to create Breeze Flash presentations from Microsoft PowerPoint presentations.
- All Breeze Presentation platforms in a cluster have copies of the same content. If one computer in a cluster fails, the Breeze Presentation platform on another computer in the cluster can take over and supply the same content.

Note: If you are using the Breeze Live stand-alone configuration, all references to the Breeze Presentation platform in this appendix apply also to the Breeze application server.

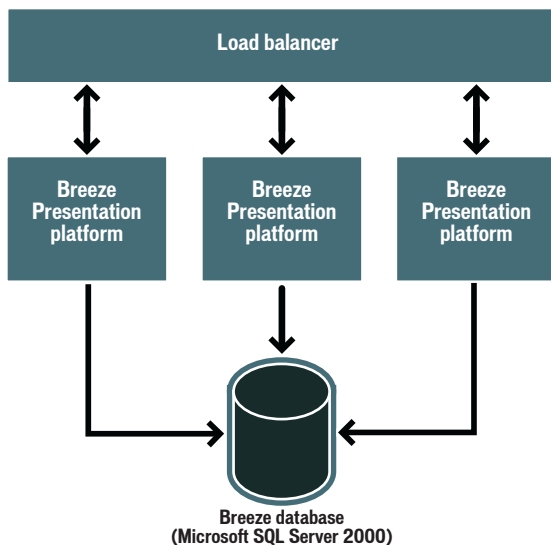
This appendix explains how to cluster Breeze Presentation platforms and verify that the cluster functions successfully. The following topics are discussed:

- “Setting up a cluster of Breeze Presentation platforms” on page 26
- “Verifying failover for HTTP requests” on page 27
- “Verifying replication of content across the cluster” on page 27

Setting up a cluster of Breeze Presentation platforms

Each Breeze Presentation platform in a cluster must be able to access the Breeze database. Because licensing restrictions do not allow more than one Breeze Presentation platform to access the Breeze database engine, you must use Microsoft SQL Server 2000 for the Breeze database.

The following figure illustrates a cluster with a load balancer and with the Breeze Presentation platform on three computers.



To set up clustered Breeze Presentation platforms:

- 1 Install the Breeze Presentation platform on each computer that will be in the cluster.
During installation, you use the same license key each time you install the Breeze Presentation platform.
- 2 Set configuration properties in the custom.ini file belonging to one of the Breeze Presentation platforms in the cluster.
For information on setting configuration properties for the Breeze Presentation platform, see [“Configuring the Breeze Presentation Platform” on page 17](#).
Some of the properties you need to set in the custom.ini configuration file apply to the Breeze database. For information on these properties and on setting up the Breeze database, see [“Setting Up the Breeze Database” on page 15](#).
- 3 Copy the custom.ini configuration file to the installation folder of all the other Breeze Presentation platforms in the cluster.

All Breeze Presentation platforms must have identical custom.ini files.

Your Breeze Presentation platforms are now clustered. Before you start one of the Breeze Presentation platforms, you need to start Microsoft SQL Server.

Verifying failover for HTTP requests

You can verify that your Breeze Presentation platform cluster provides failover in the event that one of the computers in the cluster fails. The following procedure assumes that there are two computers in the cluster: Computer1 and Computer2. The steps for verifying failover with more than two computers are very similar.

The main approach in the procedure that follows is to demonstrate failover when you are using the Breeze Manager. If the computer you are accessing for the Breeze Manager fails and you can continue to use the Breeze Manager without logging in again and without interruption, failover is successful.

To verify failover for HTTP requests in a Breeze Presentation platform cluster with two computers:

- 1 Verify that the Breeze Presentation platform on Computer1 is started and that the Breeze Presentation platform on Computer2 is stopped.
Before you start the Breeze Presentation platform, Microsoft SQL Server 2000 must be running.
To start the Breeze Presentation platform:
 - Select Start > All Programs > Macromedia > Macromedia Breeze 4 > Start Breeze Server.To stop the Breeze Presentation platform:
 - Select Start > All Programs > Macromedia > Macromedia Breeze 4 > Stop Breeze Server.
- 2 Log in to the Breeze Manager.
You can log in to the Breeze Manager from the following URL: http://admin_host/servlet/admin. In the URL, *admin_host* is the host name you entered as the value of the ADMIN_HOST property in the Breeze Presentation platform custom.ini configuration file (see step 2 under [“Setting up a cluster of Breeze Presentation platforms” on page 26](#)).
When you log in, the Breeze Manager home page opens.
- 3 Start the Breeze Presentation platform on Computer2.
- 4 Stop the Breeze Presentation platform on Computer1.
- 5 Click the Reports tab.

If failover is successful, the Breeze Manager Reports page opens. If the login page opens or any other page is displayed, failover was not successful.

Verifying replication of content across the cluster

You can verify that content uploaded to one Breeze Presentation platform in a cluster is replicated to all other Breeze Presentation platforms in the cluster and is therefore available whenever failover is necessary. As in the preceding section, the procedure that follows assumes a cluster with two Breeze Presentation platforms.

To verify replication of content across a cluster with two Breeze Presentation platforms:

- 1 Verify that the Breeze Presentation platform on Computer1 is running and that the Breeze Presentation platform on Computer2 is stopped.

Before you start the Breeze Presentation platform, Microsoft SQL Server 2000 must be running.

To start the Breeze Presentation platform:

- Select Start > All Programs > Macromedia > Macromedia Breeze 4 > Start Breeze Server.

To stop the Breeze Presentation platform:

- Select Start > All Programs > Macromedia > Macromedia Breeze 4 > Stop Breeze Server.

- 2 Log in to the Breeze Manager.

You can log in to the Breeze Manager from the following URL: http://admin_host/servlet/admin.

In the URL, *admin_host* is the host name you entered as the value of the `ADMIN_HOST` property in the Breeze Presentation platform `custom.ini` configuration file (see step 2 under “[Setting up a cluster of Breeze Presentation platforms](#)” on page 26).

When you log in, the Breeze Manager home page opens.

- 3 Upload a JPEG image or other content to the Breeze Presentation platform on Computer1:

- a Make sure that you are a member of the Account Authors user group.

To upload content, even if you are an account administrator, you must also be a member of the Account Authors user group. As an account administrator, you can add yourself to the Account Authors group. For more information, open Using the Breeze Manager Help > Contents > Managing Users and Groups > Managing Groups > Adding members to a group.

- b Click the Content tab in the Breeze Manager.

- c On the Content page, click New Content and then follow the steps displayed in your browser for adding content.

Once your test content is uploaded, a User Content page opens and displays a list of the content that belongs to you.

- 4 Click the link to the newly uploaded test content.

A Content Information page with a URL for viewing your test content opens.

- 5 Make a note of the URL.

You will use it in step 9.

- 6 Click the URL.

Your test content is displayed.

- 7 Start Computer2, wait 10 seconds or so, and then stop Computer1.

- 8 Close the browser window in which you were viewing the test content.

- 9 Open a new browser window and go to the URL for viewing your test content.

If your test content is displayed, replication to Computer2 was successful. A blank window or an error message means that replication failed.

Appendix B: Clustering Breeze Live

If your Macromedia Breeze license permits, you can install Breeze Live on two or more computers and then cluster the computers to provide load balancing and failover for Breeze Live.

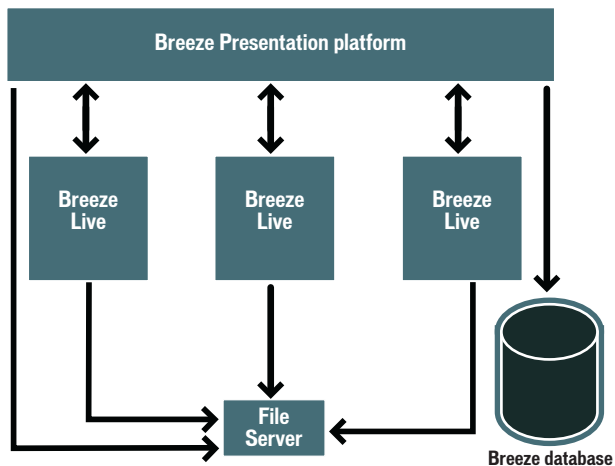
This appendix explains how to create a Breeze Live cluster and verify that the cluster functions successfully. It contains the following main sections:

- “Setting up a Breeze Live cluster” on page 29
- “Verifying failover for Breeze Live” on page 30

Setting up a Breeze Live cluster

When you create a Breeze Live cluster, Breeze Live on each computer must communicate with the Breeze Presentation platform and with a file server that stores the files created by each Breeze Live installation. The Breeze Presentation platform also needs access to the Breeze Live files on the file server. The following figure illustrates a cluster with Breeze Live on three computers.

Note: If you are using Breeze Live stand-alone configuration, all references to the Breeze Presentation platform in this appendix also apply to the Breeze application server.



To set up a Breeze Live cluster for load balancing and failover:

- 1 Install Breeze Live on each computer that will be in the cluster.
- 2 Create a user account on the domain that contains the Breeze Live and Breeze Presentation platform computers, and give the user account administrative privileges to all the Breeze Live and Presentation platform computers.

This is the Breeze user account. Each Breeze Live in the cluster and the Breeze Presentation platform will use this account to run as services under the Windows operating system.

- 3 On a file server, create a folder for Breeze, and immediately below the Breeze folder, create a subfolder for the Breeze Live files that will be shared.

For example, the following is a possible path to the shared files: \\fileserver1\breeze\content. In this appendix, the examples assume that the Breeze folder is named “breeze” and that the folder for shared files created by Breeze Live is named “content.” In practice, you can choose other names for the folders.

- 4 On the file server, share the Breeze folder, giving the Breeze user you created in step 2 full control over the folder.
To share the Breeze folder:
 - a Right-click the Breeze folder in the Windows Explorer Folders panel, and select Sharing and Security.
The Properties window for the Breeze folder opens:
 - b Click Share This Folder and enter a Share name, for example, **Breeze**.
 - c Click Apply and then click the Permissions button.
The Permissions window opens.
 - d Remove the Everyone group, if you want to, and then click Add.
The Select Users or Groups window opens.
 - e Click the Locations button and select the domain in which you created the Breeze user.
 - f In the Object Names text box, enter the name of the Breeze user, and then click Check Names to verify that the name you entered is recognized, and click OK.
 - g In the Permissions window, select the Breeze user and click Full Control, and then click OK.
 - h In the Properties window, click OK.
- 5 Set the `FCS_CONTENT_PATH` property in the Breeze Presentation platform custom.ini configuration file to the location of the folder containing shared Breeze Live files.
For example, given `\\fileserver1\breeze\content` as the folder containing the shared files, you would set the `FCS_CONTENT_PATH` property as shown in the following example:
`FCS_CONTENT_PATH=\\fileserver1\breeze\content`
For more information about the `FCS_CONTENT_PATH` configuration property, see [“Configuring the Breeze Presentation Platform” on page 17](#).
The custom.ini configuration file on the Breeze Presentation platform computer resides in the Breeze Presentation platform installation folder.
- 6 Copy the custom.ini file to the Breeze Live installation folder on each of the Breeze Live computers.
- 7 On the Breeze Presentation platform computer, set the login properties for the Macromedia Breeze Application Service so that the Breeze user account can start the service.
 - a Depending on your operating system, do one of the following:
For Windows XP, select Start > Control Panel > Administrative Tools > Services Shortcut.
For Windows 2000, select Start > Settings > Control Panel > Administrative Tools > Services.
For Windows 2003, select Start > Administrative Tools > Services.
 - b In the list of services, double-click Macromedia Breeze Application Service.
The Properties window for the Macromedia Breeze Application Service appears.
 - c Click the Log On tab.
 - d Select This Account and then enter the name of the Breeze user account you created, followed by the account’s password and a confirmation of the password.
- 8 Restart the Macromedia Breeze Application Service so that your changes take effect.
- 9 On each Breeze Live computer, follow the procedure given in step 7, and set the login properties for the Flash Communication Server and the Flash Communication Administration Server so that the Breeze user account can start the services.
- 10 On each Breeze Live computer, restart the Flash Communication Server and the Flash Communication Administration Server so that your changes take effect.

Verifying failover for Breeze Live

You can verify that your Breeze Live cluster provides failover if one of the computers in the cluster fails. If failover is successful, you have configured the cluster correctly and can expect that load balancing also functions successfully.

When a Breeze meeting is created, as soon as the first user enters the online meeting room in which the meeting is held, the meeting and its meeting room are assigned to Breeze Live on a specific computer.

To verify that failover works, the basic strategy is to create a Breeze meeting, enter the online meeting room for the meeting, and do something that changes the state of the meeting room, such as entering a note in the meeting room’s Note pod. Then shut down the Breeze Live that is responsible for the meeting and see if the meeting room is redisplayed in the same state as before.

The following procedure for verifying failover in a Breeze Live cluster assumes that there are two computers in the cluster, Computer1 and Computer2. The procedure for verifying failover with more than two computers is very similar.

To verify failover in a Breeze Live cluster with two computers:

- 1 Verify that no Breeze meetings are currently open.
This ensures that if you create two meetings, load balancing assigns each meeting to a different computer.
- 2 Open the Breeze Manager and create a new meeting. Enter the meeting room for the meeting.
For information about opening the Breeze Manager and creating meetings, see [“Verifying that the Breeze database and Breeze Presentation platform work together”](#) on page 22 and [“Verifying that you can use Breeze Live”](#) on page 24.
When you create a meeting room, your browser displays a Meeting Information page. Click Enter Meeting Room.
- 3 In the meeting room’s Note pod, enter **Meeting room 1** or similar text for identification purposes.
To enter text in the Note pod, simply place the cursor in the Note pod and start typing.
- 4 Repeat steps 1 and 2 to create a new meeting and a Note pod entry, such as **Meeting room 2**.
You can have two or more meeting rooms open in your browser at the same time.
Because of load balancing, each meeting you created should be assigned to a different computer.
- 5 Stop Breeze Live on Computer1 by selecting Start > All Programs > Macromedia > Macromedia Breeze 4 > Stop Breeze Live Server.
If failover is successful, the window for one of the meeting rooms goes blank for up to a minute while failover is activated. Then the meeting room is displayed again, exactly as it was before.
If failover is successful for Computer1, the next step is to test failover for Computer2.
- 6 To enable testing of failover for Computer2, restart Breeze Live on Computer1 by selecting To Start > All Programs > Macromedia > Macromedia Breeze 4 > Start Breeze Live Server.
- 7 Stop Breeze Live on Computer2.
If failover takes place, as described in step 5, you have successfully configured your Breeze Live cluster.

