

Clearspace Upgrade and Migration Guide

This document describes how to upgrade to the latest versions of Clearspace from previous versions of Clearspace. It also includes information on how to migrate from other Jive Software products, including Knowledge Base, Forums, and Integrated server.

Important Note Make sure to [backup your jiveHome directory](#) and [backup your database](#) before doing an upgrade.

Sections in this Topic

[Upgrading from the Standalone Distribution to the Installer Distribution](#)

[Upgrading the Standalone Distribution](#)

[Upgrading the WAR Installation](#)

[Upgrading the Source Build](#)

[Migrating from Other Jive Products](#)

[Migrating from One DBMS to Another](#)

[Back Up Your jiveHome Directory](#)

[Back Up Your Database](#)

[Clearspace Upgrade Philosophy](#)

[Known Issues](#)

Upgrading from the Standalone Distribution to the Installer Distribution

1. Verify you've backed up your [jiveHome directory](#) and [database](#).
2. Back up your Clearspace_HOME/server/shared/lib directory. After running the installer, if you're not using the embedded database, you will need to copy the JDBC driver you've been using into the newly installed server/shared/lib directory. In either case the JDBC driver needs to be in this directory before starting the new instance.
3. Run the installer.
4. Rename the newly installed jiveHome/ directory to something other than jiveHome; instead, you'll use the jiveHome directory you were using before. At the command line, you can run a command such as `mv jiveHome/ jiveHomeUnused/`.
5. Copy your existing, permanent jiveHome into the new Clearspace directory. Or, if you prefer, you can create a symbolic link inside that directory to your permanent jiveHome:
 - **UNIX/Linux/Mac:** Create a symbolic link to your permanent jiveHome directory in the Clearspace directory called jiveHome (for example, `ln -s /opt/jiveHome jiveHome`).
 - **Windows:** You can also create a symbolic link to your jiveHome directory if you have Junction installed (<http://www.microsoft.com/technet/sysinternals/utilities/Junction.mspx>).
6. You will need to copy your database JDBC driver back into the server/shared/lib directory before starting the newly installed Clearspace instance.
7. Start Clearspace using the Start menu command or desktop shortcut you installed.

Your new version of Clearspace should be up and running using your previously configured database and customized settings.

Note: Be sure to see [Evaluation Database to Oracle with Active Directory](#) under known limitations below.

Upgrading the Standalone Distribution

1. Verify you've backed up your [jiveHome directory](#) and [database](#).
2. Backup your Clearspace_HOME/server/shared/lib directory or, alternatively, after unzipping your new Clearspace download, you will need to copy the appropriate JDBC driver into the server/shared/lib directory. In either case the JDBC driver needs to be in this directory before restarting the standalone instance.
3. Unpack the new distribution of Clearspace.
4. Rename the jiveHome/ directory that comes with this distribution to something other than jiveHome, you won't be using this directory (for example, `mv jiveHome/ jiveHomeUnused/`).
5. Create a symbolic link inside the unpacked distribution to your permanent jiveHome:
 - **UNIX/Linux/Mac:** Create a symbolic link to your permanent jiveHome directory in the Clearspace directory called jiveHome (for example, `ln -s /opt/jiveHome jiveHome`)
 - **Windows:** You can also create a symbolic link to your jiveHome directory if you have Junction installed (<http://www.microsoft.com/technet/sysinternals/utilities/Junction.mspx>), or copy your permanent jiveHome into the Clearspace directory.
6. You will need to copy your database JDBC driver back into the server/shared/lib directory before restarting the standalone Clearspace instance
7. Issue the command `start-clearspace.sh` or `start-clearspace.bat`

Your new version of Clearspace should be up and running using your previously configured database and customized settings.

Note: Be sure to see [Evaluation Database to Oracle with Active Directory](#) under known limitations below.

Upgrading the WAR Installation

1. Verify you've backed up your [jiveHome directory](#) and [database](#).
2. Delete or move your previous WAR (and exploded WAR files) from your application server's web application directory (usually `webapps/`).
3. Unpack the new distribution of Clearspace.
4. You will need to point your Clearspace instance at your permanent jiveHome directory (which you have already backed up), this can be done in a few different ways:
 - **Option 1: Use the setup tool.** Use the Clearspace setup tool to set the value. After you deploy the web application you will have to run through the setup tool again, but you can point Clearspace at your current jiveHome and all your previous settings will be retained. **Caution:** When resetting the jiveHome location be sure that you click **Continue** and not **Create Directory** — you do not want to overwrite your jiveHome.
 - **Option 2: Use the EditWAR tool.** The EditWAR tool is a small application which will modify the packaged web application (`clearspace.war`) to point to the jiveHome directory. The `clearspace.war` file is also in the base directory of this distribution. To invoke the EditWAR tool, open a command prompt in the base directory of this distribution

and execute this command:

```
java -jar EditWAR.jar clearspace.war
```

The tool will then lead you through the process of updating the WAR.

- **Option 3: Set a JNDI value (advanced).** Set the location of the jiveHome directory via JNDI. In your app server, you can set a JNDI value of `java:comp/env/jiveHome` with a String value of the path to your jiveHome directory.
 - **Option 4: Set with a system property (advanced).** Set the location of the jiveHome directory manually by passing in a Java system property to your appserver. Set a property with the name of "jiveHome". Most app servers allow you to pass in an environment variable in the startup script. That might look like this:

```
java -DjiveHome=/usr/foo/jiveHome -cp . com.myappserver.Server
```
5. Copy the new clearspace.war into application server's web application directory, or redeploy the WAR using your application server's administration console.
 6. Your new version of Clearspace should be up and running using your previously configured database and customized settings.

Upgrading the Source Build

1. Verify you've backed up your [jiveHome directory](#), [database](#), and `Clearspace_HOME/custom` directory if you have added any of your own custom source code.
2. Delete or move your previous WAR (and exploded WAR files) from your application server's web application directory (usually `webapps/`).
3. Unpack the new distribution of Clearspace.
4. Rebuild the Clearspace source as detailed in the Clearspace Source Build.
5. You will need to point your Clearspace instance at your permanent jiveHome directory (the one you backed up), this can be done in a few different ways:
 - **Option 1: Use the setup tool.** Use the Clearspace setup tool to set the value. After you deploy the web application you will have to run through the setup tool again, but you can point Clearspace at your current jiveHome and all your previous settings will be retained. **Caution:** When resetting the jiveHome location be sure that you click **Continue** and not **Create Directory** as you do not want to overwrite your jiveHome.
 - **Option 2: Use the EditWAR tool.** The EditWAR tool is a small application which will modify the packaged web application (`clearspace.war`) to point to the jiveHome directory. The `clearspace.war` file is also in the base directory of this distribution.
To invoke the EditWAR tool, open a command prompt in the base directory of this distribution and execute this command:

```
java -jar EditWAR.jar clearspace.war
```


The tool will then lead you through the process of updating the WAR.
 - **Option 3: Set a JNDI value (advanced).** Set the location of the jiveHome directory via JNDI. In your app server, you can set a JNDI value of `java:comp/env/jiveHome` with a String value of the path to your jiveHome directory.
 - **Option 4: Set with a system property (advanced).** Set the location of the jiveHome directory manually by passing in a Java system property to your appserver. Set a property with the name of "jiveHome". Most app servers allow you to pass in an environment variable in the startup script. That might look like this:

```
java -DjiveHome=/usr/foo/jiveHome -cp . com.myappserver.Server
```
6. Redeploy the new clearspace.war into application server's web application directory, or redeploy the WAR using your application server's administration console.
7. Your new version of Clearspace should be up and running using your previously configured database and customized settings.

Migrating from Other Jive Products

You can use the Clearspace admin console to migrate data from other Jive products to Clearspace. Before you begin, keep in mind the following notes and best practices:

- Only the following Jive product versions are supported for importing:
 - Forums 5.0.5 and later.
 - Integrated Server 08.30.2006 and later.
 - Knowledge Base 1.7.5 and later.
- Note the import limitations for each product, listed below.
- Back up your existing Jive product data before importing to Clearspace.
- Import to a Clearspace test instance and ensure that the results are as you want before moving the instance to production.

Importing Data from Another Jive Product

To migrate data from another Jive product to Clearspace, you use the admin console. Use the following steps:

1. Be sure to read the list of common importing limitations. Also, read the limitations specific to each product. These lists are provided below.
2. Start with a clean database to receive the imported data. In other words, your newly installed Clearspace instance should not include any user, community/space, or content data.
3. Shut down the system from which you're importing.
4. Start Clearspace and complete its setup tool if you haven't yet.
5. Start the admin console, then navigate to System > Import/Export > Import Content.
6. Under Import, select the Jive product from which you're importing.
7. Be sure to read the notes on the import page.
8. Enter the full path to the jiveHome directory for the product you're importing. This must be on the same server as your Clearspace instance.
9. In the data list, select No for any kind of data you don't want to have imported.
10. Click Continue to start importing.
After a few seconds, Clearspace will begin importing your data. Progress will be displayed in both the Clearspace user interface and in the Clearspace log file.
11. Restart Clearspace after the import is complete.
12. Rebuild the main and user search indices. In the admin console, click System > Settings > Search, then click the Index Tasks tab. To rebuild the main index, click Rebuild Index; to rebuild the user search index, click Rebuild User Index.
13. In Clearspace, examine the imported data to ensure that the results are correct.

Limitations Common to Import from Any of the Products

- Importers require a clean database to import into.
- The importer must be able to directly connect via JDBC to the database of the system being imported from.
- Implementations with custom user/group managers may require the administrator to manually copy user data to Clearspace prior to import.
- Statistical information is not copied into Clearspace. This includes logged search queries and read statistics.
- Report data is not migrated.
- Watch email templates are not migrated.
- Custom database tables/columns are not migrated.

- The system being imported from should be shut down while the importer is active.
- The import process copies data from one database to another and as such can take a fair amount of time.
- Only a few jive properties are migrated, such as email server information. Other properties such as cron tasks, event listeners, and so on will most certainly have to be rewritten to take into account the fact that Clearspace's API is quite different from the other products.

Jive Knowledge Base Import limitations

- Documents in multiple categories are only imported into Clearspace in their primary category.
- Skin fields are only imported as document properties and are not used in the display of documents at all in Clearspace.
- Recommendations are not migrated.
- Migrated content can look different in Clearspace due to Clearspace's support for wiki markup. Version 1.7 includes a filter you can install to handle these differences (if you're using Clearspace 1.5 or 1.6, you'll need to upgrade to 1.7 first). To install the filter:
 1. In the admin console go to Spaces > Settings > Filters and Macros
 2. Scroll to the bottom of the page, enter `com.jivesoftware.community.renderer.filter.WikiEscapeFilter` and click Add.
 3. Scroll to the top of the page to locate the Wiki Escape Filter, then click its Settings link.
 4. For Applying Filter to, select the Body check box.
 5. In the Cutoff Date box, enter the date and time you migrated from a 5.0.x version to Clearspace. For example, you might enter 09/28/2007 15:58 EDT.
 6. Click Save Properties.
 7. On the Filters and Macros page, for the Wiki Escape Filter, click On.
 8. Scroll to the bottom of the page and click Save Settings.

Jive Forums 5.0.x Import Limitations

- Migrated content can look different in Clearspace due to Clearspace's support for wiki markup. Version 1.7 includes a filter you can install to handle these differences (if you're using Clearspace 1.5 or 1.6, you'll need to upgrade to 1.7 first). To install the filter:
 1. In the admin console go to Spaces > Settings > Filters and Macros
 2. Scroll to the bottom of the page, enter `com.jivesoftware.community.renderer.filter.WikiEscapeFilter` and click Add.
 3. Scroll to the top of the page to locate the Wiki Escape Filter, then click its Settings link.
 4. For Applying Filter to, select the Body check box.
 5. In the Cutoff Date box, enter the date and time you migrated from a 5.0.x version to Clearspace. For example, you might enter 09/28/2007 15:58 EDT.
 6. Click Save Properties.
 7. On the Filters and Macros page, for the Wiki Escape Filter, click On.
 8. Scroll to the bottom of the page and click Save Settings.

Jive Forums 5.5 Import Limitations

- Drafts are not currently imported into Clearspace.
- Themes are not migrated.
- Tags are not migrated.
- Community everywhere data is not migrated.
- Localized properties are not migrated.

- Reward data is not migrated.

Jive Integrated Server Import Limitations

- Link information between threads and documents is preserved as object properties however that data is not currently used by Clearspace

Migrating from One DBMS to Another

You can use the Clearspace admin console to migrate Clearspace data from one database management system to another. Clearspace supports the following DBMSs as either source or destination systems (supported versions are those that are supported for installation; see the Clearspace Installation Guide for more details):

- DB2
- MSSQL
- MySQL
- Oracle
- PostgreSQL

In the admin console, go to **System > Import/Export > Database Migration**. The database migration tool will migrate your Clearspace instance from one database server to another. Before beginning the migration, you must:

- Ensure that the **Clearspace instance is not needed** during migration. It will be unavailable while this tool is running.
- Ensure that the **destination database has no tables or data**. This tool will create tables and delete data in the destination database.
- Ensure that **you haven't customized the source database** you're migrating from. This tool might not work at all if your source database doesn't conform to the default schema. For customizations made by Jive's professional services team, please contact your service representative before migrating. For other issues, please contact Jive's support team.
- Copy the **correct driver for the new database** to the application classpath (such as the Clearspace WEB-INF/lib directory).
- **Be prepared to restart Clearspace** after migrating.

Note: If you begin migration but don't finish, it's possible to put Clearspace into a in-between state. In this state, you'll receive an "in-progress" message even though you're no longer migrating. If this happens, you can fix it in the admin console. In the console, go to System > Management > System Properties, scroll to locate the skin.default.maintenace.enabled property, then click its delete button. After you do this you should be able to refresh your browser to view the Clearspace UI.

Note: Be sure to see [Evaluation Database to Oracle with Active Directory](#) under known limitations below.

Back Up Your jiveHome Directory

The jiveHome directory is the place where Clearspace stores a number of things about your environment. The database connection information is stored there as well as logs, cached attachments, your license file, and the evaluation database files (if used).

You should back this up before upgrading and you should get in the practice of backing up this directory on a regular basis. The easiest way to back up the directory is to use a ZIP or TAR application or script to package the directory.

Back Up Your Database

You should back up your database on a regular basis and before upgrades. For now, the best way to manage database backups is to follow the recommendations of your DBA or the recommendations of your database software. There are a number of tools built in to various databases. Here are a few example:

- MySQL — Use the "mysqldump" tool.
- Postgres — Use the "pg_dump" tool.
- Oracle — Use the "exp" program.

There are many tools for each database; try to pick one that suits your environment.

Clearspace Upgrade Philosophy

Upgrading web applications doesn't have to be hard. We've made every effort for this to be a seamless process. If you have [feedback](#) or suggestions for this process, we'd love to hear it.

In general, upgrading between revision releases will be easy (ie, 1.0.0 to 1.0.1, or 1.0.0 to 1.0.5). Upgrades between minor releases (ie, 1.0 to 1.1, or 1.0 to 1.3) might require a bit more work but we have an upgrade wizard in the application to assist.

Known Issues

Evaluation Database to Oracle with Active Directory

If you are currently using the evaluation database and wish to upgrade from version 1.4, 1.5, or 1.6 and switch to running Oracle with Active Directory there is an extra step you must perform in order to work around an issue within Oracle.

1. The first step is to upgrade Clearspace to 1.7. If you are currently running on the evaluation database and using Active Directory, or if you are currently running Oracle, and want to switch from Default to Active Directory for user authentication, don't change the database or authentication settings during the upgrade process. Keep everything the same and simply run through the upgrade tasks.
2. Once you have upgraded Clearspace, stop your application server, edit

<jiveHome>/jive_startup.xml, and change <setup>>true</setup> to <setup>>false</false>, and restart the application server.

3. You will be forced to re-run the setup tool, but this time you can set your new database and user authentication options to use Oracle and Active Directory.