

Reading Plus®

Using *Deep Freeze* with Reading Plus®

Overview:

When using Reading Plus®, student workstations are required to download a series of JAR files for the application to function. Normally, these applets are stored in the *Java Cache*. This allows the workstation to spend less time and bandwidth downloading JAR files with every student login. On a computer that uses *Deep Freeze*, these JAR files would not be persistent between reboots, and each workstation would download said files with each login. This document explains how to set the Java Cache location into a new or pre-existing *Thawspace*.

Configuring *Deep Freeze* to cache applets:

To ensure workstations with *Deep Freeze* are set up to allow for caching, follow these directions:

1. In a new or pre-existing *Thawspace*, create a folder to containing the future *Java cache* (ie: JavaCache). Please refer to your *Deep Freeze* user guide for additional information regarding *Thawspaces*.
 - You can use a hidden *Thawspace* to prevent students from being able to readily view the *Java Cache*.
2. Open *Deep Freeze*, and select *Boot Thaw* or *Boot Thaw on Next 1 Restarts*.
3. Reboot the machine to a Thawed state and log in as a Local Administrator.
4. Open the computer's *Control Panel* and select the *Java* icon.
5. Under the *General* tab, click on the *Settings...* button in the *Temporary Internet Files* section.
6. Change the *Java cache* directory to the folder in the *Thawspace* from step 1.
 - If you are unable to click the *Change...* button on a *Windows Vista/7* machine, follow these steps:
 - a. Close the *Java Control Panel*, and any instances of Java or programs using Java.
 - b. Go to the local *Java Deployment* directory for the workstation's administrator account

Example: `C:\Users\\AppData\LocalLow\Sun\Java\Deployment)`

- c. Open the *deployment.properties* file in *Notepad*, or some other script editing software.
- d. Copy the following lines into the bottom of the opened file:

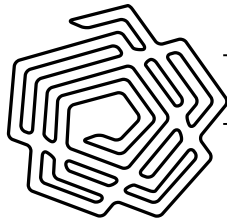
```
deployment.user.cachedir=<Thawspace directory>
deployment.system.cachedir=<Thawspace directory>
deployment.user.logdir=<Thawspace directory>
deployment.user.tmp=<Thawspace directory>
```

Where `<Thawspace directory>` is the desired cache directory in the *Thawspace*, and is formatted with `\\` after the drive letter and each subsequent folder (ie: `deployment.user.tmp=c:\\folder\\sub-folder`). Feel free to save an unedited copy of *deployment.properties* to use as a back-up.

- e. Save the edited version of *deployment.properties*.
- f. Return to the *Java Control Panel* in step 6. If the directory does not appear to have changed, repeat steps a-f to ensure that all changes were implemented correctly.

Now that the Java Cache has been changed, we need to make sure that the cache location is changed for all future users.

7. Open Windows Explorer, and turn on the functionality to view hidden files. To do this:
 - Click on the *Tools* button at the top of the window, or if you can't see it, press the *Alt* button on your keyboard once.
 - Select *Folder Options...*
 - Under the *View* tab, click the bubble labeled *Show hidden files, folders, and drives*.
 - Click *OK*.
8. Navigate to the *Deployment* folder of the original *Java Cache* directory for your current profile (the one used when changing the Java Cache location). The default locations for *Windows XP* and *Windows Vista/7* are as follows:
 - *Windows XP* – `C:\Documents and Settings\\Application Data\Sun\Java\Deployment`
 - *Windows Vista/7* – `C:\Users\\AppData\LocalLow\Sun\Java\Deployment`



9. With the exception of the *deployment.properties* file, delete all other files and folders in the *Deployment* folder.
10. Copy the *Sun* directory in *Application Data/AppData* for your current user profile (see step 8).
11. Navigate to *Documents and Settings (Windows XP)* or *Users (Windows Vista/7)* and then to the hidden *Default User* or *Default* folder.
 - This folder is hidden, but if you've successfully turned on the setting in step 7, the folder will appear, but look faded.
12. Paste the copied *Sun* directory into the appropriate folder:
 - *Windows XP* — `C:\Documents and Settings\Default User\Application Data`
 - *Windows Vista/7* — `C:\Users\Default\AppData\LocalLow`
 - Create the *LocalLow* folder in the *AppData* directory if it doesn't exist (*Windows Vista/7* only).
13. Turn off the functionality to view hidden files (as seen in step 7).

At this point, every time a new profile is created on the workstation, it will use the *deployment.properties* file that points to a *Java Cache* in the *Thawspace*. However, any existing profiles need the updated *deployment.properties* file in their respective default *Java Cache* locations. If the data on the existing profiles does not need to be preserved, then follow these steps:

14. Click on the *Windows Start* button, or press the *Windows* key on your keyboard.
15. Right click on *My Computer (Windows XP)* or *Computer (Windows Vista/7)* and click *Properties*.
16. On the left side of the resulting window, click *Advanced system settings*.
17. Under the *Advanced* tab, within the *User Profiles* field, click the *Settings...* button.
18. Excluding the *Default Profile* entry, delete all other profiles by clicking on them and then selecting the *Delete* button.
 - A profile contains data specific to that user's personal settings within *Windows* but will not effect their permissions or ability to log in.
 - You will not need to delete your current profile, as you have already edited the *Java Cache* location.

Any new profiles created will now be configured to use the new *Java Cache* location on the *Thawspace*. The workstation may now be unthawed and regular Reading Plus® use may resume.