



OCS Client for Java Compatible Systems

User's Guide

v1.0

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Prefix

Organisational trends show that companies are increasing the availability of networked computing. Teamwork is becoming commonplace in the working environment. As technology continues to expand a method for supporting tasks that are carried out in groups needs to be satisfied. Groupware has emerged as a technology that can be used to support this.

The OCS software is designed to allow programmers to work on collaborative programming tasks together. The OCS package allows version controlling on system files to overcome collaborative consistency problems. It also prevents awareness problems by not allowing multiple users access to the same source code while working on a project. Communication methods such as task assignment and online chat facilities have been implemented to overcome presence awareness problems.

The manual describes how to use the OCS Client software.

Contact Information

The project is hosted at SourceForge. "SourceForge is a free service to [Open Source](#) developers offering easy access to the best in CVS, mailing lists, bug tracking, message boards/forums, task management, site hosting, permanent file archival, full backups, and total web-based administration."^[SF01].

The SourceForge address is -

<http://www.sourceforge.net/projects/openocs/>

The project also has a home page for general information for this project at -

<http://www.openOCS.org>

The author can be contacted at -

gary@openOCS.org

^[SF01] SourceForge homepage at <http://www.sourceforge.net>

Installation

The follow guides the installation process of the OCS Client application and how to connect to an OCS Server.

Java Runtime Environment

To use the OCS Client program you must install Java Runtime Environment Standard Version 1.3. The JRE is available for Windows, Solaris and Linux operating systems. The JRE is available to download from the following site -

<http://java.sun.com/j2se/1.3/jre/>

If your operating system is not supported by JRE 1.3, contact your vendor, they may provide a port of the JRE that is not supported by Java.

OCS Client

The OCS Client archive contains the following files –

- [ocApp Users Guide.pdf](#)
- [ocApp.jar](#)
- [ocApp.ico](#)
- [readme.txt](#)

ocApp.jar

This is the executable java archive. Provided that the JRE is installed using Java to execute this file will produce the OCS application.

Under the Windows Operating System it is possible to double click on this program to start it.

At the command line it is possible to execute the jar file as –

```
➤ java -jar ocApp.jar
```

WW Proxy Server

If you use a proxy server to connect to the world wide web it is necessary to provide the proxy server and port as parameters to the program when you execute it. For example if your proxy server is [wwwcache.wmin.ac.uk](#) and resides on port 3128 you would execute the program as –

```
➤ java -jar ocApp.jar wwwcache.wmin.ac.uk 3128
```

ocApp.ico

For convenience, this icon is provided for Windows users to display an icon for the application.

readme.txt

This file contains simple installation information and update information from previous versions.

ocApp Users Guide.pdf

This document.

Operation

How to use the OCS Client application.

System Menu



The system menu contains the necessary functions to connect and disconnect the application to the OCS Server.

Login

The login button allows the user to login to the system. A dialog similar to that shown in Figure 1 is displayed when this menu item is selected. The username field should contain the username that has been selected by the user. The password field should contain the password that is selected by the user. The first time logging in from

creation of an account the password field should be left blank. The group is the group you wish to connect to. The group should be set to 'openocs' if this is the first time logging into the system. This dialog will remember the login and group that you have used each time you start the application and open the login dialog box. It will not store your password for security.

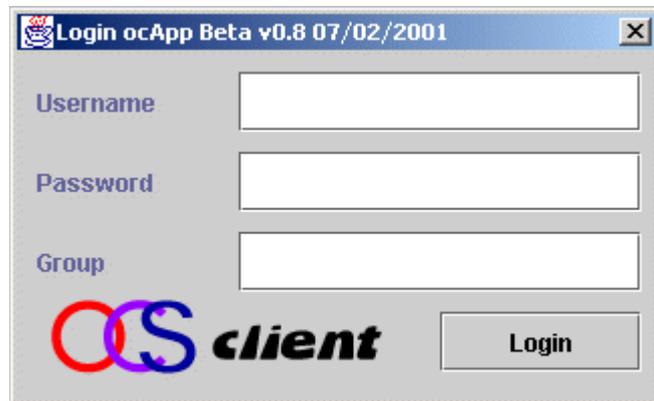


Figure 1

Logout

The logout button will disconnect you from the system. All open files will be closed (without uploading) and all windows will be closed. The logout button does not close the application

Reconnect

The reconnect button is used for reconnecting to the current group. If already connected this will close the connection and then reconnect. The reconnect button is useful if the user is experiencing network connection difficulties.

Options

The options menu item displays an options dialog shown in Figure 2. This dialog is used to set-up the server host and ports that the OCS Server resides on. The server host is the TCP host name or IP address that the OCS Server resides on. The OCS Server Port is the port that the OCS Server is running on. The Connection Server Port is the port the OCS Connection

Server is running on. The system remembers these values when the user clicks save.



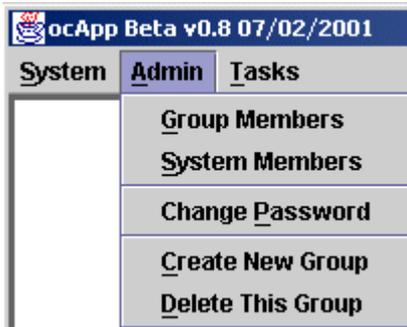
Figure 2

These values for these fields will be given to the user when they set-up an account on the system.

Exit

The exit button closes the client application. It will confirm that the user wants to exit the program. Locked files will be set to unlocked and not uploaded when the user exits the application. It is advised to use method of exiting the program and not killing the process as file locks will remain using this method.

Admin Menu



The admin menu allows user and group administrative tasks to be carried out.

Group Members

The group members' menu item displays a dialog shown in Figure 3. The group members shows the current members of the group. That is, those that can login to the group.

Remove From Group

The remove from group menu item allows the current user to remove the selected user from the system. The connected user level must be lower than the group member that the connected user wants to delete. If this is not the case the function will fail.

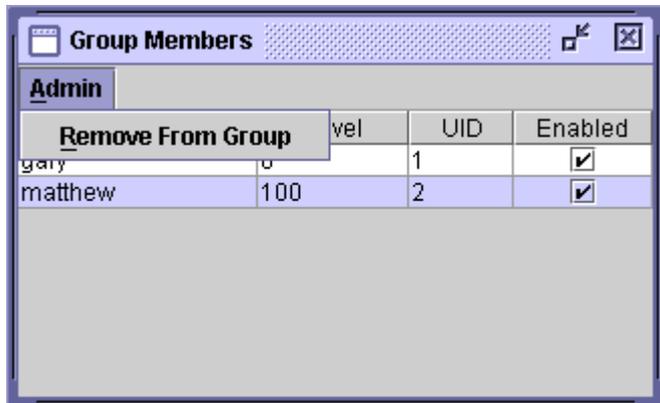


Figure 3



Figure 4

System Members

The system members' menu item shows a dialog very similar to the Group Members dialog. Contains information about the users that are on the system. The menu options (shown in Figure 5) allow the user to add system members to the current group.

Add to Group as User

Adds the current selected user as a member of the current group. The connected user must be a group manager to carry out this task.

Add to Group as Manager

Adds the currently selected user as a manager of the current group. The connected user must be owner of the group to carry out this task.

Change Password

Allows the user to change their system password. When the user clicks the change dialog box appears (shown in Figure 5). If this is the first time logged in as a new user the current password should be left blank. The new password is entered twice in New Password and Again text boxes to ensure that the user enters the password correctly.



Figure 5

Create New Group

Allows the user to create a new group. The connected user becomes the owner of the new group. The create new group dialog box is shown in Figure 6. The name is the name of the new group that is used to login to the group from the Login dialog. The comments is information about what the group is about. The comments for a group are stored on the database web output page.

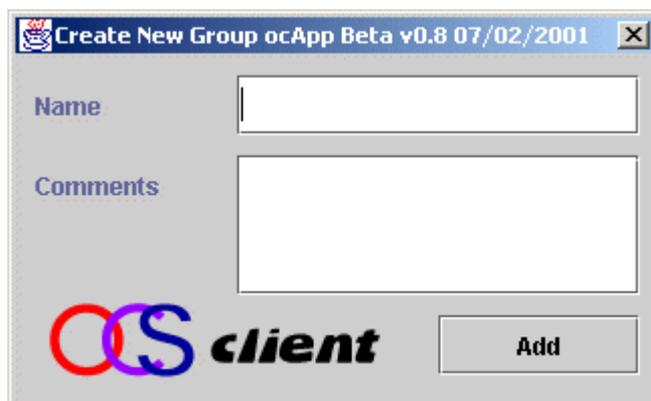


Figure 6

Delete This Group

If the connected user is the group owner this option allows the deletion of the current connected group. The group will be completely deleted from the server database.

Task Menu



The task menu allows tasks to be assigned to users. Any user can assign tasks to another user. The tasks are similar to email in that they have a sender and recipient and a message. Tasks also have started and completed time flags.

View Tasks

The view tasks menu item brings up a new window in the internal frame (shown in Figure 7). The user can select a task from the view task list and display a task in the task dialog (shown in Figure 8 but without modifiable fields). The connected user can view any task assigned to anyone. The username displayed in the view task dialog is the username the task has been assigned to. In the view task area it is possible to update the start and completed times by clicking on the respective check box items. If you are the owner of this task the delete button will remove the task from the system.



Figure 7

Create New Task

Allows the connected user to create a new task and assign it to another user. Selecting this menu item will display a dialog box (shown in Figure 8). From here it is possible to create a new task and assign it to a user. The user must press the 'Save' button to save the task before they use 'Close' or the X button to exit the dialog.

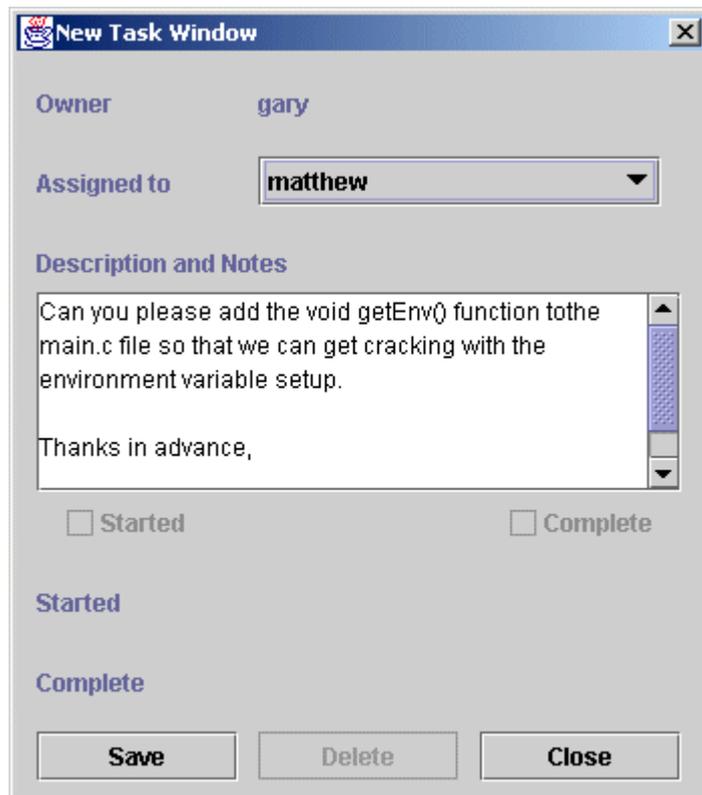


Figure 8

File Tree

The file tree (shown in figure 9,12 and 13) contains the files and directories for the connected group. When the user is not connected the file tree is empty.

Tree Icons

The following three tree icons are used

-  This icon represents a directory. Directories contain files.
-  Represents a file that is accessible (not locked).
-  Represents a file that is locked by another user.

Tree Menu

The tree menu is accessed by selecting an item in the tree frame (single left clicking mouse button and highlighting the item) and then right click the mouse button. Figure 9 shows the tree menu and its options on a file.

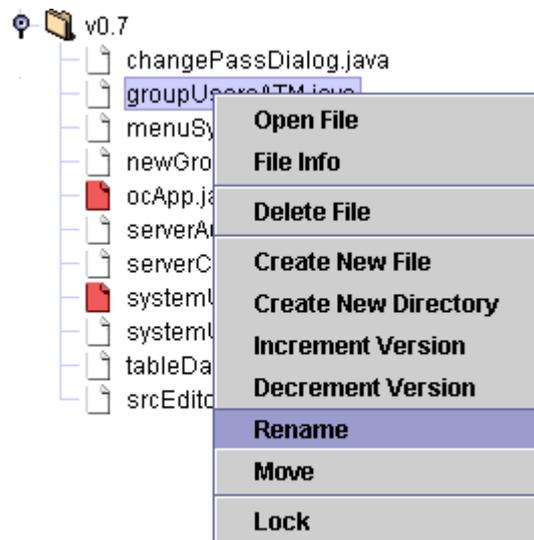


Figure 9

Open File

This will open the selected file. Double clicking the file carries out the same action as this.

File Info

The file info menu item displays a new dialog with information about the selected file. The file info dialog can be used to modify the comments of a file. The comments can be used to describe the file. Pressing the 'update comments' on the file info dialog will save the comments. It is not necessary for a file to be locked to update the comments and any group user can modify the comments for a file.

Delete File

Providing the user is the owner of a file or owner of the group they can delete the file. This removes it from the database and the tree.

Create New File

This menu item creates a new dialog (shown in figure 10) that allows the user to create a new file. The file will be inserted into the same directory as the selected file or directory the user has highlighted.

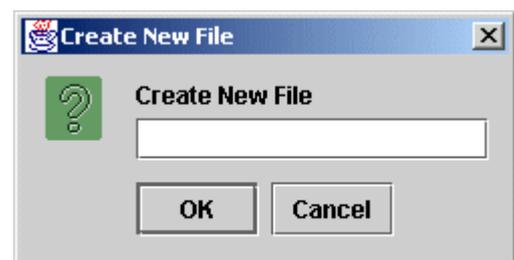


Figure 10

The text box in the create new file dialog box is for entering the name of the new file.

Create New Directory

Creates a new directory. This option displays a dialog similar to that shown in Figure 10. The directory will be created in the directory of the selected file or selected directory.

Increment Version

Increments the selected file version by 1. The current file version can be seen by looking at the file info.

Decrement Version

Decrements the selected file version by 1. The current file version can be seen by looking at the file info.

Rename

The rename options allows you to change the name of a file. A dialog similar to that shown in Figure 10 will be displayed.

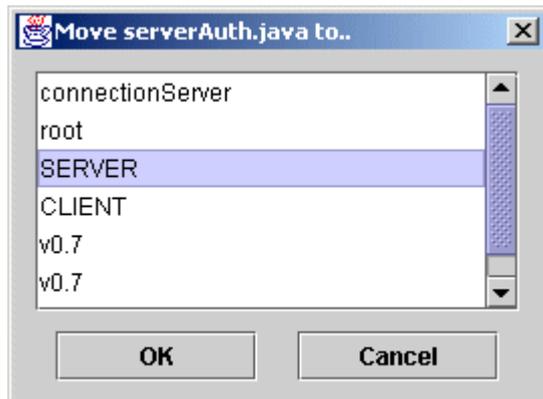


Figure 11

Move

Move option allows the user to move the selected file to a different directory. This menu item will open a new dialog window (shown in Figure 11). Selecting a directory in the item list and clicking 'OK' will move the file to the selected directory.

Lock

Will lock the selected file. The file icon will change and the file will not be accessible to any other user while the file is locked unless the lock is forced unlocked by a group manager or owner.

Unlock

Unlocks a locked file. The unlock menu item is only shown when a locked file has been highlighted (shown in Figure 12). Providing the connected user is the owner of the lock the file will be unlocked.



Figure 12

Force Unlock

The option is available to group owners and managers to force the unlock of a file. If the client locking the file has it opened the remote client will have its editor window closed without saving any updates.

Delete Directory

The delete directory option (shown in Figure 13) allows the deletion of directories. Deleting a directory recursively deletes all files off the directory tree.



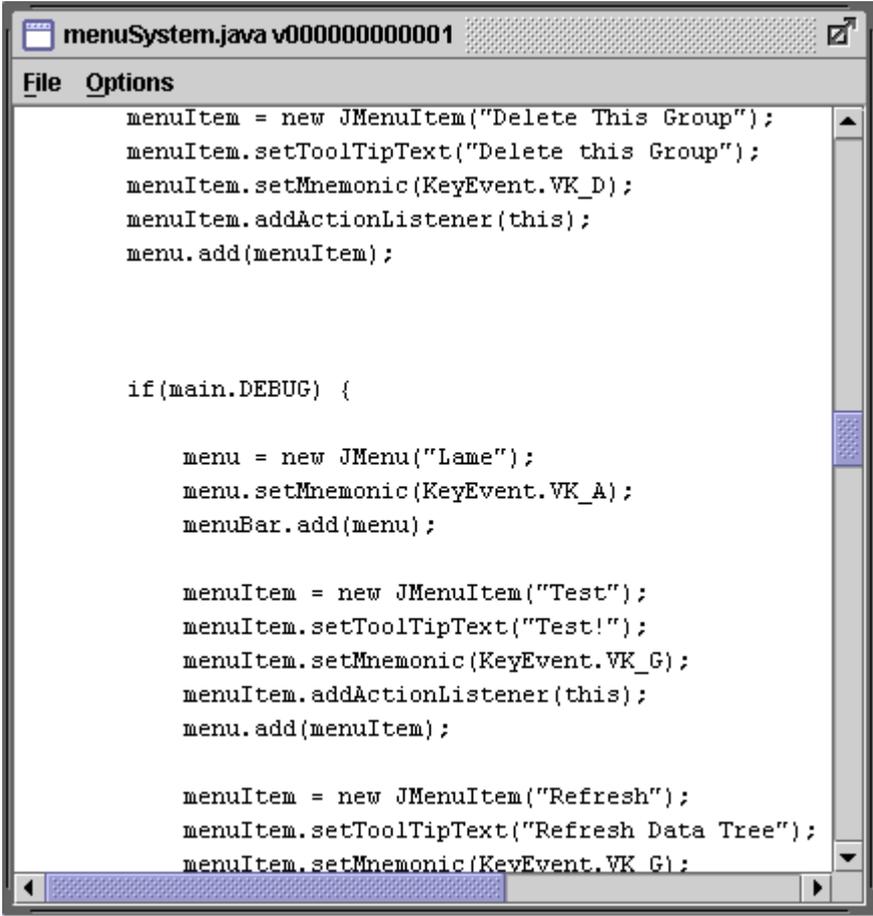
Figure 13

Desktop

The desktop pane displays multiple windows (shown in appendix I). The desktop pane includes a chat console and editing windows. It is also used to list group tasks, group users and system users.

Editing Window

An editing window is any of the windows that are opened when a file is being editing. The editing window is shown in figure 14.



```
menuSystem.java v000000000001
File Options
menuItem = new JMenuItem("Delete This Group");
menuItem.setToolTipText("Delete this Group");
menuItem.setMnemonic(KeyEvent.VK_D);
menuItem.addActionListener(this);
menu.add(menuItem);

if(main.DEBUG) {

    menu = new JMenu("Lame");
    menu.setMnemonic(KeyEvent.VK_A);
    menuBar.add(menu);

    menuItem = new JMenuItem("Test");
    menuItem.setToolTipText("Test!");
    menuItem.setMnemonic(KeyEvent.VK_G);
    menuItem.addActionListener(this);
    menu.add(menuItem);

    menuItem = new JMenuItem("Refresh");
    menuItem.setToolTipText("Refresh Data Tree");
    menuItem.setMnemonic(KeyEvent.VK_G);
```

Figure 14

The text in an editing window is that which is stored in the file that the data originates from. When an editing window is open the file is locked and cannot be accessed by any other users.

Editing Window File Menu

The editing window menu options. The file options are shown in Figure 15.

Upload

This option uploads the file to the system.

Upload + Version Increment

Uploads the file to the server and increments the file version.

Upload + Close

Uploads the file to the server and closes this editing window.

Upload + Version Increment + Close

Uploads the file, increments the version and closes this editing window.

Close

Closes the editing window without uploading the file to the server.

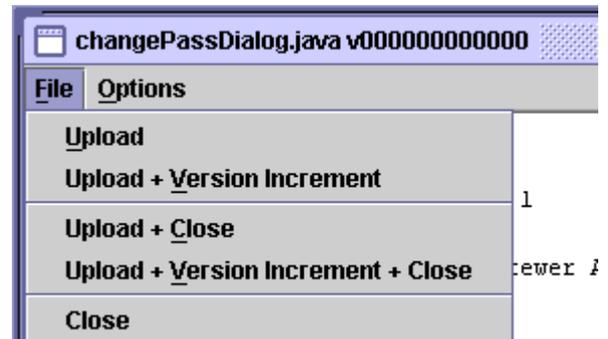


Figure 15

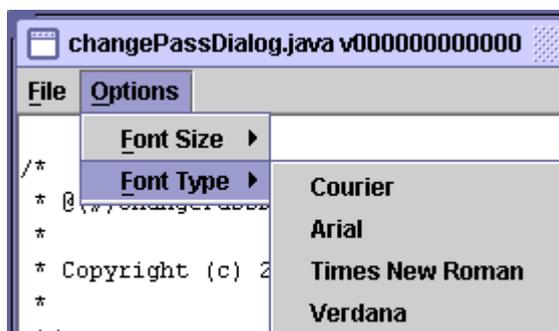


Figure 16

Editing Window Options Menu

The options menu allows the user to change the way the text area is displayed. With this option the user can change the type of font used to display the file and the font size. The options menu is shown in Figure 16.

Limitations

The current limitations of the OCS Client application.

- Files and usernames cannot have spaces or commas in them.
- Cannot move or rename directories.