CVS Summary

The first few times you use CVS, ask for help. If you think you have messed up the CVS repository in any way, you should not be shy of reporting it.

Logging on:

cvs login

(You will need to supply password)

Creating a branch from the current live or working version:

This will have to be done before you can work on files.

You will need a *branch name from which to* branch (i.e. the live branch name) – *original_branch* - and a *module name*. You will also have to specify a new working branch name – *new_branch*.

- Move to subfolder under which code is to appear.
- cvs checkout -r original branch module name
- cvs co -r new branch module name

e.g with a branch name of **RC_Training_19_03_2012** and a module name **training/appserver**:

```
cvs checkout -r RC_Training_19_03_2012 training/appserver
cvs co -r B_rbowles_scribble training/server
```

This gives a new branch name of **B** rbowles scribble.

Updating files in working subfolder:

This copies files that have changed from the repository to your working folder. You should always do this before making changes to a file to ensure that you are working on the latest version of the code. It is also a good idea to update before carrying out a merge operation.

- Move to the subfolder that requires the updated files
- cvs update -dP

The **-d** option creates new subfolders if they have been added to the branch. The **P** option purges old/unnecessary subfolders. Always update before committing a file to the respository. The keyword **update** can be abbreviated to **upd**

When you have done **cvs update**, you should do **cvs stat** to get information about the status of the branch you are working on. This is useful to ensure that you are working on the correct branch (e.g. not working on the live branch by mistake!)

Committing a file to the repository

cvs commit -m "Message describing change" filename

Reverting to an old copy of a file

Do this if you wish to revert to the copy of the file in the repository and abandon any changes you have made locally.

cvs update -C filename

Adding a new file to the repository

- Go to the subfolder containing the file
- cvs add filename
- Don't forget to **commit** the file afterwards or other team members won't be able to see it. When committing a newly-added file, use the standard message "Initial Revision".

Dealing with Conflicts

If a file is committed to the repository and contains lines which conflict with the version already in the repository, the two files will be merged with the conflicts highlighted. Such a file is indicated by a capital C at the start of the line when you do **cvs update**.

Conflicts may be removed from a file by updating it from the repository and removing them manually in a text editor. Lines that differ from one version of the file to another are indicated as follows:

<<<<<<<

This is one Line of the file

This is another Line of the file
Third line of the file

>>>>>>>>

The lines above the equal-sign row indicate lines in the original version, and below it, lines in the updated version. Any lines appearing in the second part but not in the first have been inserted, any lines in the first part but not in the second have been removed.

Files containing conflicts cannot be run as TCL programs as the additional symbols introduced by CVS causes the program to abort. Load the file into a text editor, and remove the <<<<<< li>line, the ========= line, the >>>>>>> line and one of the conflicting pieces of code.

It is a good idea to consult your colleagues before removing pieces of code that they have put in!

Merging into the live branch

When you are sure that your code is ready to go live, you merge it into the live branch as follows:

cvs update -j working-branch-name

It is a good idea to use **cvs stat** before doing a merge to ensure that you are about to merge from the correct branch. When you have carried out a merge, commit the files with the following standard message:

cvs commit -m "Merge of branch working-branch-name"

(Don't specify a file name so that the same message will be given to all merged files).

Check the Ladbrokes CVS Convention:

https://twiki.openbet/bin/view/Customers/LBRCVSTaggingSystem