

product review by Pat Bell

For years, in my cave in darkest mid-Wales, I have muddled through version control between my main development machine and my mobile laptop installation. Various batch files copy files by date back and forth across my LAN, but only by maintaining both machines as virtual clones of each other. I was the master of the batch file, except for the few times I fell foul of my 'system' and lost several days' edits. Then along came XP and 'security' – now my 'version control' was a two-stage process run on each computer. Still just about manageable for my three or four current projects. But then along comes an assistant developer. "Discipline will prevail" methinks... perhaps not, I think my haphazard methods will not easily work with a collaborator.

So the hunt is on. MS Visual SourceSafe and SourceSafe Offsite Collaborative were recommended but, though well-established, these seem to be somewhat expensive and draconian products ruling like a dragon-lady librarian who won't let me take out 'fmdm1' because my library card is full, or perhaps I have outstanding fines. There are several alternative products out there but this is not a comparative review. I wanted advice about which software to use, Code Co-op was one I had been considering and, when my pleas for advice coincided with a free offer of Code Co-op in return for a review, who was I to argue with destiny.

This, then, is a review of how Code Co-op came into my Delphi programming existence; how it applies to my specific requirements, which are for two Delphi developers to work on the same projects at home and at HQ. If you're a member of a 20 strong, military grade team of Delphi wizards then turn the page, that is unless you want to see how the other 95% of us ordinary mortals muddle through.

First Impressions

Downloading and installing Code Co-op 3.5 was pretty straightforward. The 2Mb file was easily extracted and installed, giving me the option of where to install it and in what program group, options I have come to expect for all Delphi add-ons. Immediately following installation, I was taken automatically (optionally) to the html tutorial. Like many users, I probably didn't read the tutorial and help files as thoroughly as I should have. Just like many developers. Reliable Software knew this and, after several tactful attempts to suggest this as the cause of some of my problems, they acknowledged some 'idiosyncrasies' as I struggled through my introduction to Code Co-op.

At one point I found myself with a disturbing 6.5Gb (yes that's gigabytes!) of messages accumulating in Code Co-op's public inbox – we finally discovered this to be a 'deadly embrace' where I had some non-existent users in a project. Some of my problems were down to my own impatience. But I get ahead of myself: version 3.5 eventually worked but, having encountered some problems, I thought it would be better to review the beta of version 4 which included some fixes resulting directly from my feedback.

Code Co-op has two main components: the project manager, 'Code Co-op itself, and what they call the Dispatcher. The Dispatcher runs, mostly, in the background, and is the agent for communicating with other developers using Code Co-op either by email or on a LAN.

Initial configuration has been made clear and simple in version 4, though being a user I did manage to find a way of failing to fully configure it by trying to be clever – all in the interest of beta testing, of course <vb>. However, if you start up the manager (Code Co-op) and try to create a new project or join one before configuration you get



Figure 1

then

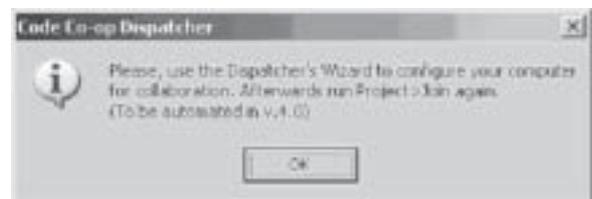


Figure 2

Not automated yet ... but right clicking the Dispatcher icon (Figure 3) in the systray and choosing the Collaboration Wizard - which takes you through the steps using prompt and nice diagrams - makes it almost impossible to go wrong.



Figure 4

As this dialogue suggests, Code Co-op is for use on a LAN and/or using email. The standalone option is really just for getting to know the program and has no other useful purpose.

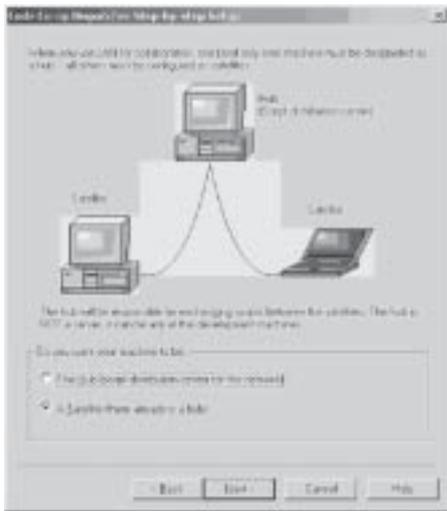


Figure 5

A LAN configuration has to have a single machine (designated as the hub) that distributes the projects and their changes (known as scripts). My own configuration necessitates both email and LAN, and the hub needs to be the machine that receives scripts by email. There are options to forward emailed scripts but I decided that, already having the most complicated configuration, to avoid making things any more so.

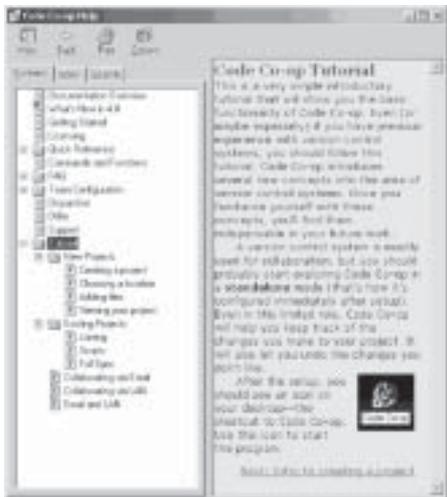


Figure 6

The html help (Figure 6) includes a tutorial, which advises starting with the standalone mode. I believe I caused myself problems with tutorial 'residue', so you might like to run through the tutorial first then uninstall and reinstall. However, the configuration wizard is pretty straightforward so you might like to plunge straight in and follow the tutorial as far as it applies to your own situation.

A quick preliminary glance through the FAQs showed me an issue about Outlook Express security warnings and how to turn them off. I have encountered this issue before when making use of Simple MAPI. OE6 requires an acknowledgement for mail not sent manually. You can't turn

this off in Outlook XP, though and you need a third party applet (of which there are several: I found one called ClickYes which works fine).

Adding an existing project is pretty straightforward. Project— >New gets you Figure 7.

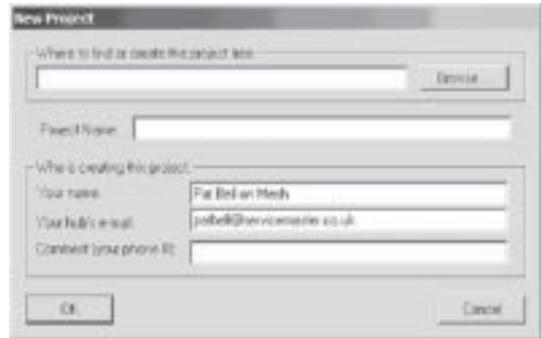


Figure 7

It would have been nice to have had at least a guess made at the project folder, perhaps the Delphi default, but it's easy enough to find with the [Browse] provided. I tried to be smart and typed the path in but missed a folder and so it was expecting me to create a project from scratch, in other words the location of a project yet to be created in Delphi. To correct my mistake, I needed to delete the project from Code Co-op by defecting and being the last member of the project. A rather nice idea, to be a defector and the last one turns the lights out – a feeling of being part of a conspiracy instead of a disobedient schoolboy having lost his library card.

Having located an existing project, the folder is scanned and the extensions found are presented for inclusion (or not) in the files to be managed by Code Coop.

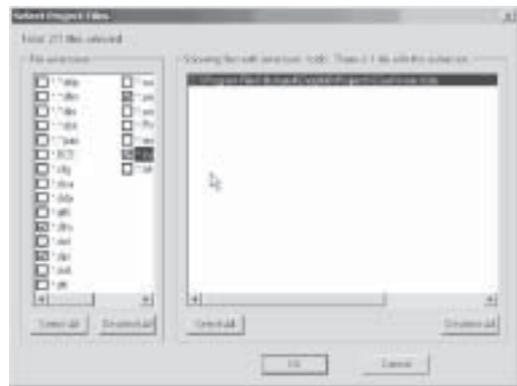


Figure 8

If, like me, you have a lot of other temporary old backup files and dcus, you need to be careful at this stage, since all the files contained in your project folder and sub-folders are initially included in the list. I blundered my way through these setup screens and went ahead and included a whole batch of files I will probably not want to control. I made a few mistakes here first of all and had projects that generated errors on start-up because (I think) I had missed out project system files whilst leaving DCU unchecked. I then checked ddp, dof, cfg, pas and res, leaving all the others including dti and dsk unchecked (who would want to sync their screen layout?).

I wish it were more Delphi-orientated and could use the dpr to identify its constituent units rather than just the content of the folder, but again this is just a niggle not a serious issue..

Anyway [OK] here then takes you through your selected file extensions to identify their type to Code Co-op (Figure 9). Apparently the most important distinction is that between **binary** and other types, something to do with the text comparison that identifies changes in the files. This screen betrays the non-Delphi origin of this product since it refers to header and source. Anyway, I guess dfm, dpr and pas files are source files (well, dfm can be as long as they are saved as text). In fact, this app knows nothing about Delphi at all. It might be useful, for instance, to be able to read the dpr for all files included in a project, or to understand the different kinds of files (perhaps even to recognise if a dfm has been created in text mode or not), also to recognise your Delphi project folder. Useful?. perhaps, crucial?... no.

Anyway, I thought it would be a good idea to convert my dfms to text and ...Delphi\bin\convert.exe did that for me.

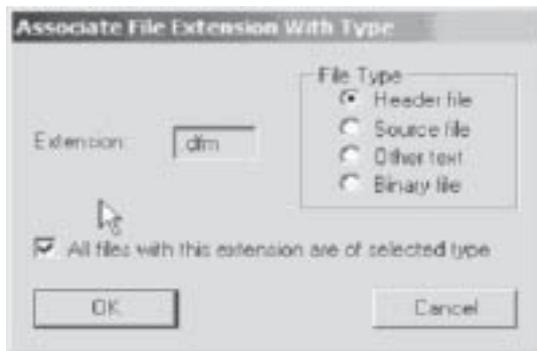


Figure 9

After responding to this prompt for each extension selected in the Project File selection window (Figure 9), Code Co-op then processes the files whose extensions were selected.

Joining a Project

Project | Join gets you a similar dialogue to Figure 9 except with entries for 'where to copy the source tree' and your email address.

Having done this you are shown a Beginner's Tip (Figure 10).

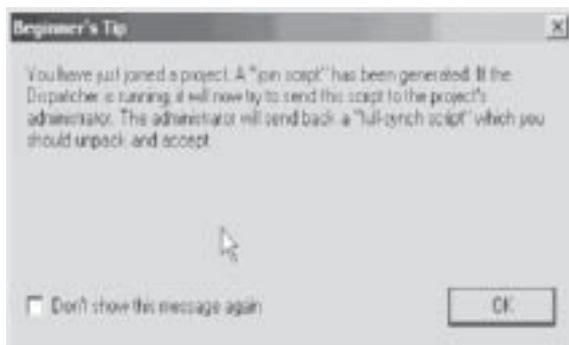


Figure 10

This refers to the Dispatcher which is in the system tray and whose icon changes colour to indicate that it has a script to take care of. These tips often show up with helpful hints.

Whilst it is possible to edit files directly with the Code Co-op text editor, obviously the best thing to do is to check out the ones you wish to work on and then use your Delphi IDE. Those not checked out are read-only. After some work

you can come back to Code Co-op and check all or some files back in. On my first pass at this, I quickly found some obvious things I had forgotten – check out the project dpr, plus check out the pas and the corresponding dfm files. Using the Delphi IDE 'new forms as text' would seem a good idea, especially having identified the dfms as source, otherwise binary might seem a better definition. Essentially all text files can be source and anything else as binary (such as dpp, res or even third party reports such as raf (Report Builder reports)).

Code Co-op In Action

Having experimented, I made mistakes. The tutorial guides you through the new and the joining process in an example on one machine – don't be misled by this – you start a new project and check out on that same machine: it is other machines that need to join. Also, be very careful about the name of the project you are requesting to join. The wrong one and it is possible to get the dispatcher in a loop (or it was in version 3.5; as far as I could tell this loophole has been plugged in version 4).

Of the two Code Co-op components, the dispatcher is the one you have least to do with. It runs in the background, just occasionally changing colour when it has a script to process. it is Code Co-op app itself where the work is done.

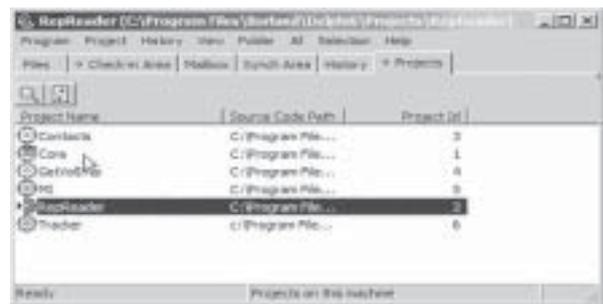


Figure 11

Each tab shows details for the current project only (which shows as a half cog in Figure 11). How do you know a script is waiting to be processed? Well, apart from the rather subtle change in the dispatcher icon, the project icon itself changes as you can see in figure 13.

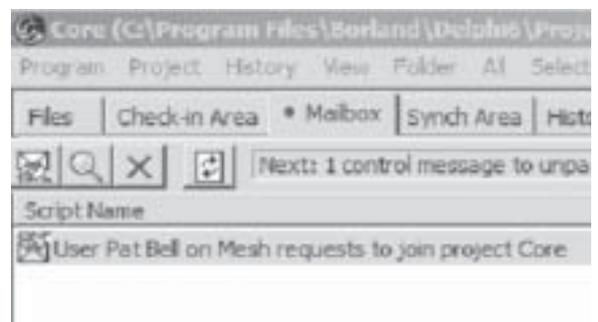


Figure 12

The button showing an envelope tipping out its contents will process the script. The result of which is shown in the check-in area (Figure 13).

