Setting up CPRS for independant access of Custom Control libraries

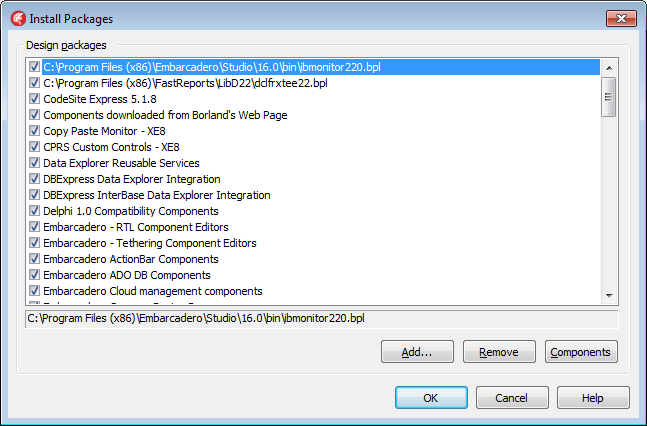
As the CPRS team expands into more and more libraries it has become evident that a simpler way of managing these controls is needed. This document will outline a streamlined method of installing the components without the need for all the extraneous path definitions we have used in the past. All component source is now stored under a Delphi specific (XE3, XE5, XE8, etc.) directory in Jazz so that developers can run multiple versions of Delphi with separate controls for each version. Before beginning find a directory outside of the Jazz Workspaces to place the compiled packages into. This needs to be outside of the Jazz Workspaces because the new setup uses the compiled units instead of the traditional source code paths where everything is constantly re-compiled into the CPRS project. If the developer wishes to use the same directory as was defined before with the CPRS environment variable that is fine so long as that variable references a directory that is *outside* of all Jazz Workspaces. With this setup in place all copies of CPRS compiled or built will be using the same versions of the Run Time and Design Time libraries, including the build machine. Once this is completed, code will be added to CPRSChart that will check the versions of the components, further guaranteeing that the final product we release is exactly what we think it is.

To begin we need to uninstall all existing components.

Step 1: Start Delphi but *do not open any projects*.

Step 2: In the menus selecte Component | Install Packages …

Step 3: The following dialog will display (package names may be different but similar):

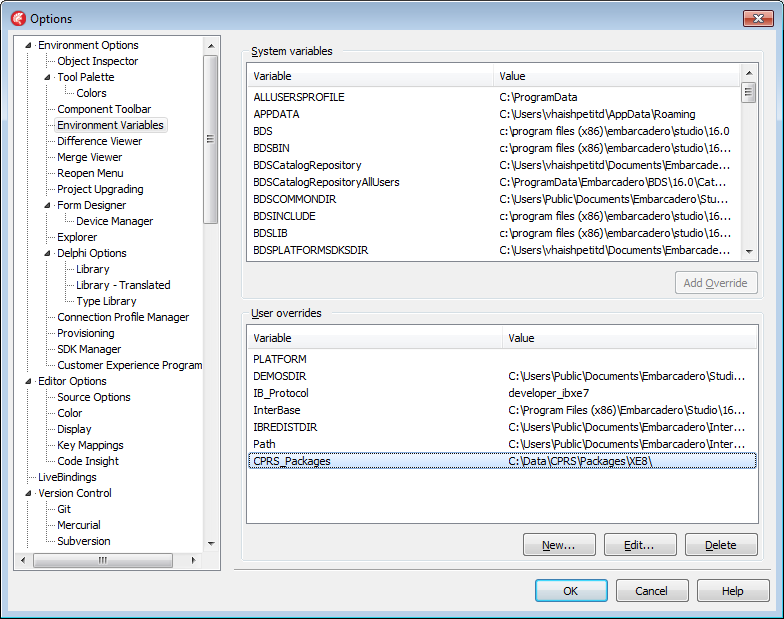


Step 4: Select the following packages and click on Remove to take them out of your configuration. Be sure to ask if you find packages that don't look like standard Delphi packages but may need to be cleared out anyway.

1. Copy Paste Monitor – XE8
2. Components downloaded from Borland's Web Page
3. CPRS Custom Controls – XE8
4. VA Section 508 Accessibility – XE8
5. VistA RPC Broker – XE8

Step 5: Close this dialog.

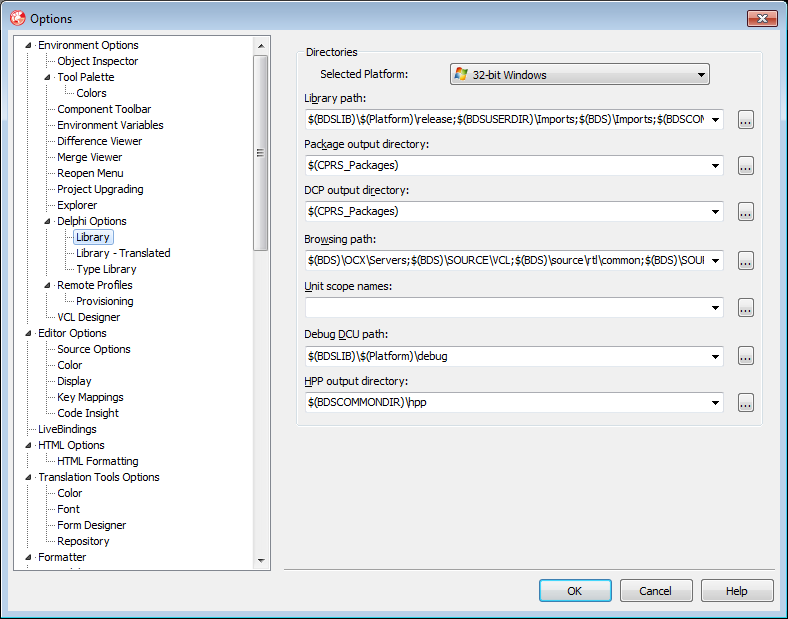
Now we need to verify the paths and environment variables. Under the menus select Tools | Options … and the following dialog will be presented. Select Environment Variables.



In the environment variables delete any that are specific to the CPRS project (i.e. Broker, PKI, AVLogger etc.). Do not remove any that are sepcific to BDS settings. The example above shows a the new CPRS\_Packages variable pointing to the directory that we described at the beginning of this document. Your directory may be different. Again, this is NOT to be the Jazz Sandbox directories. Also notice that the last sub-directory is 10\_2. This is because you will be compiling the components for each version of Delphi, and we do not want compiled libraries in the CPRS\_Packages stream.

***You must ensure that the last subdirectory in the packages target folder (C:\Data\CPRS\Packages\XE8 above) is different for each version of Delphi you have installed on the computer. Do NOT attempt to use C:\Data\CPRS\Packages\XE8 for both Delphi XE8 and Delphi 10.2.x.***

Now we need to select the Library settings as shown here.



Notice that the Package output directory and DCP output directory are the same. This is where the custom controls will be placed to be accessed by the IDE. Open up the Library path with the […] button.

Previously we setup paths for each component package as shown here.



You may also have a patch for the AVLogger as well. We want to clean these up by selecting them in the list and pressing Delete. Do *not* press the Delete Invalid Paths button.

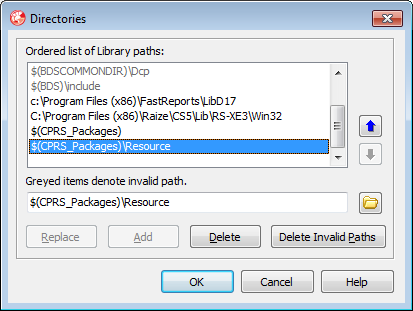
Now we will add a new two new entries to the bottom of the list for

$(CPRS\_Packages)

and

$(CPRS\_Packages)\Resource

You should now have a list with the two paths at the bottom as shown:



Next, do the same thing for the Browsing path entry. It is important to *ignore* any invalid paths at this time because we haven't moved the new compiled libraries into the directory.

Shutdown and restart Delphi to let it sort out the new directories. Just agree with what it wants to do if it pops up a dialog about paths.

If this is not a new install, it is a good idea to get a copy of the Scrubbing Old Delphi Components From My Workstation document and do a thorough cleaning of any rogue libraries that may have been created in the past. These libraries are known for cropping up at the wrong time in the wrong place of your path variable and causing weird errors and issues.

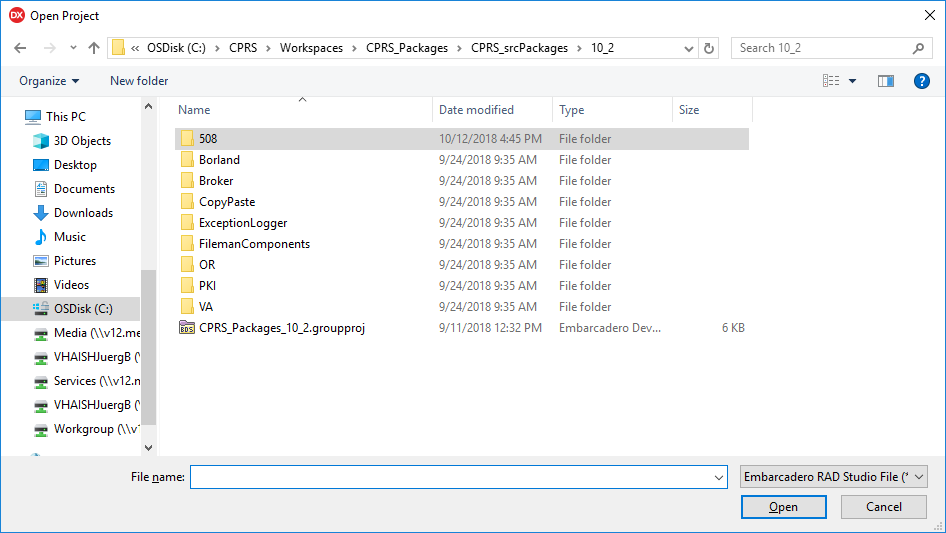
Open Jazz and get the latest version of CPRS\_Packages:



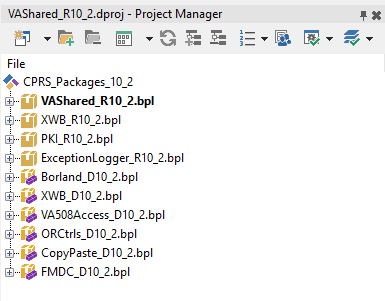
The arrows between CPRS\_Packages and your local repository workspace should both be clear (see above).

In Delphi, pull down the “File” menu, and select “Open Project…”

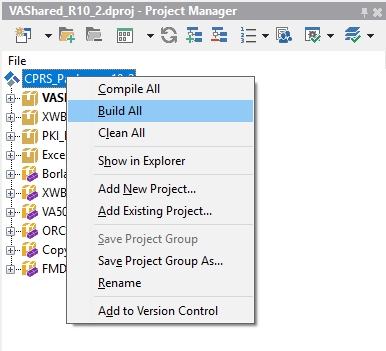
In the resulting dialog, browse until you see the packages .groupproj file.



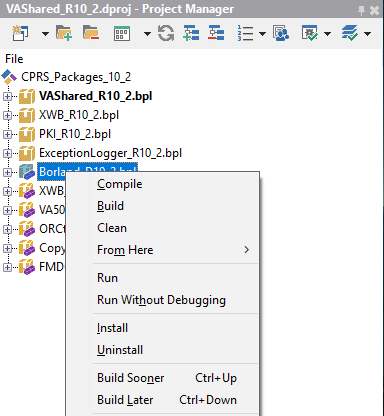
Double-click on the CPRS\_Packages\_10\_2.groupproj file. This will open a project group containing all of the project files:



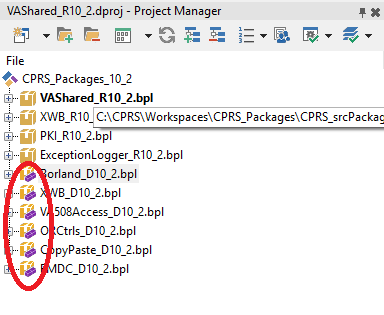
Right click on the “CPRS\_Packages\_10\_2” item at the top of the project manager, and select “Build All” from the popup menu:



This will recompile all of the CPRS packages. Once this build is done, you will need to install the compile-time packages. Starting with “Borland\_D10\_2.bpl”, right click and select “Install” from the popup menu:



Repeat this process for each bpl that has the small purple icon in the lower right corner:



You have now completed the installation process for the CPRS packages.