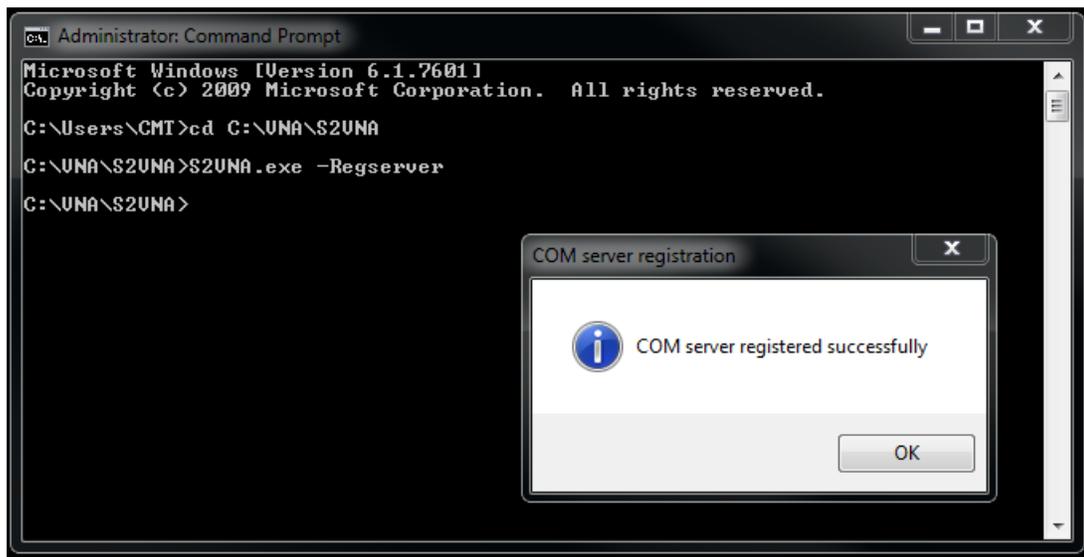


Automating any of Copper Mountain Technology's VNAs in Delphi follows a similar structure to the automation procedure for other environments; the key step lies in setting up the COM server connection. The following example is based on Visual Studio 2008, though later versions of Visual Studio involve a similar procedure.

Before starting, install the VNA software application and ensure that the COM server for the VNA you are using is registered during installation. The latest version of the VNA software is always available for download at [www.coppermountaintech.com](http://www.coppermountaintech.com).

To register the COM server if the VNA software installation has already completed, open up a command prompt and execute the following commands:

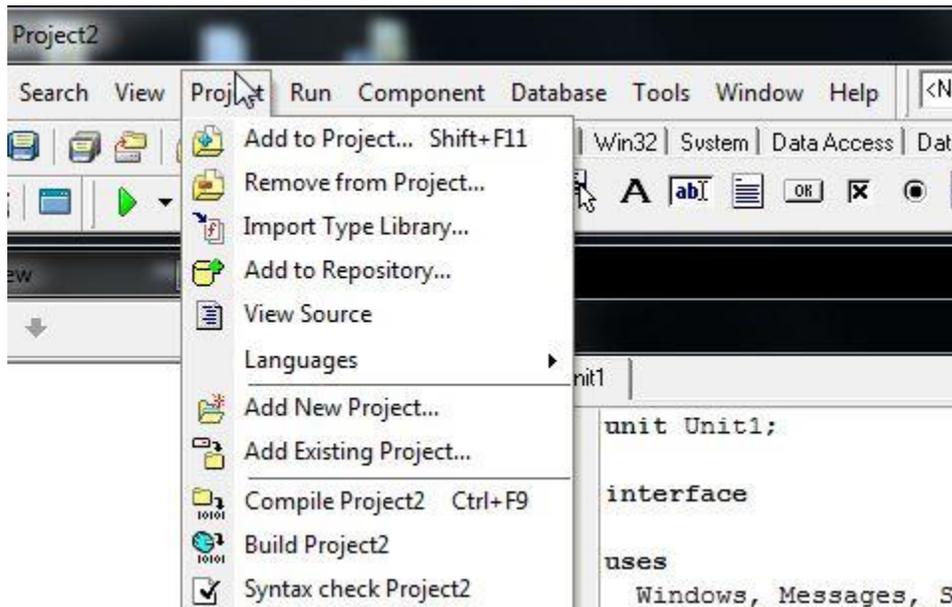


```
Administrator: Command Prompt
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.
C:\Users\CMT>cd C:\VNA\S2VNA
C:\VNA\S2VNA>S2VNA.exe -Regserver
C:\VNA\S2VNA>
```

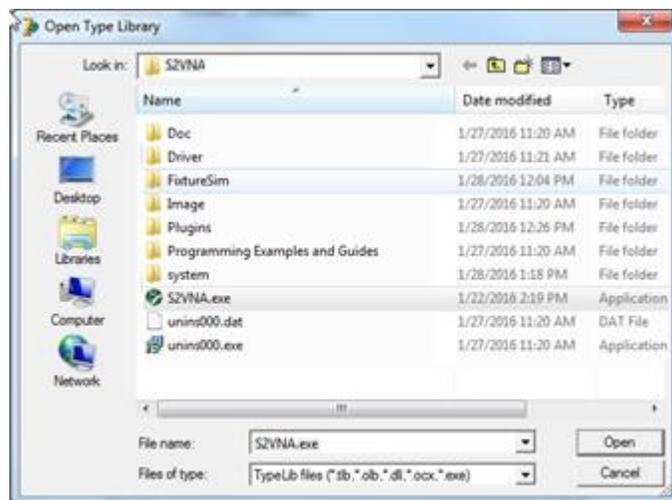
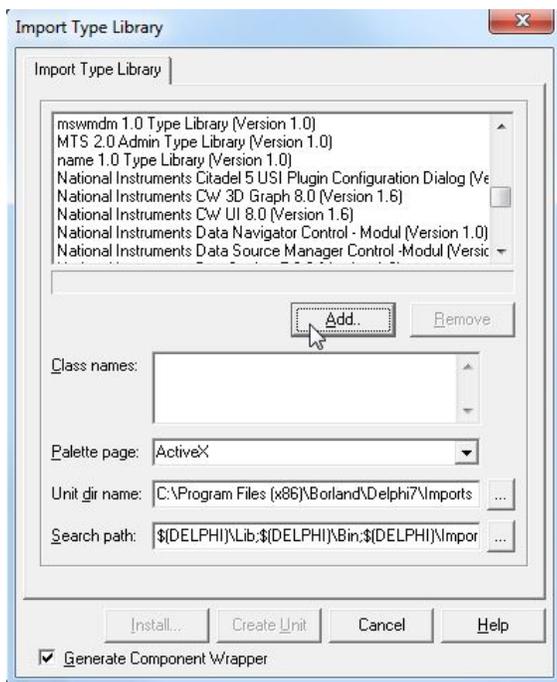
(Note: this path is for the S2VNA. Check the programming manual for specific file paths of other instruments.)

Once the COM server is registered, the Type Library needs to be added to the project in order to use COM components directly. To add the VNA COM Type Library of the S2VNA in Borland Delphi 7, the procedure is shown as below.

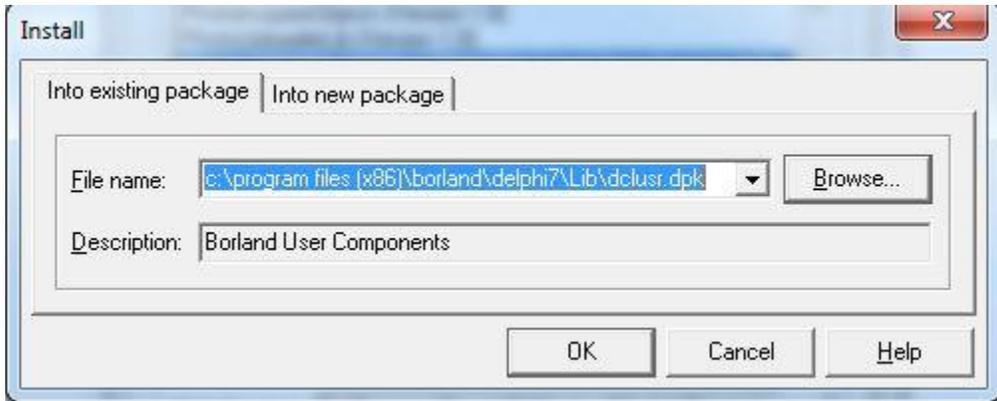
Select Project and Import Type Library:



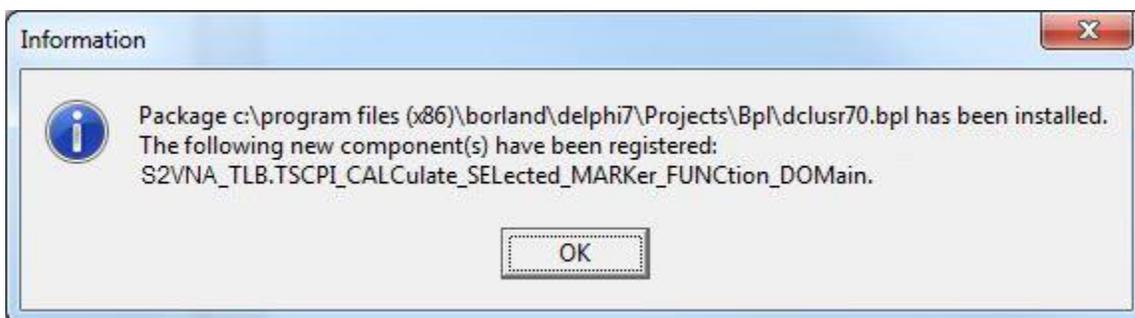
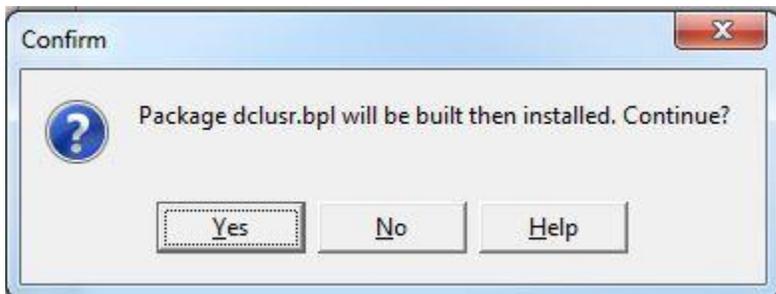
Choose "Add" and navigate to the location of the VNA application.



Click "Install" and select a package to which the interface should be added:



After confirmation, you will see a message indicating that the new components have been registered:



Now you are ready to begin automation of the VNA in Delphi.

For additional help, please contact [support@coppermountaintech.com](mailto:support@coppermountaintech.com) and we will be glad to help!