

### Do I need special products to develop Cadcorp SIS applications?

No, if you purchase 'off-the-shelf' copies of Cadcorp SIS Map Manager, Map Editor or Map Modeller and simply wish to customize and develop on top of them, then developing in Visual Basic (or any of the supported languages) using the included GIS Link API is entirely appropriate.

The time to purchase dedicated development tools comes when you wish to create third party applications that 'cherry pick' desired GIS functionality and which require a look and feel that greatly differs from Cadcorp SIS.

### What do I use if I want to quickly embed powerful GIS functionality into my own distinct product?

Cadcorp offers a valuable tool for application developers who wish to quickly build new solutions involving mapping and spatial analysis. The Cadcorp SIS Software Developer Kit (SDK) is a professional ActiveX development tool offering the full functionality of the following Cadcorp SIS end-user products: Map Viewer, Map Manager, Map Editor and Map Modeller. It is a high-level development environment with many pre-built assemblies allowing you to develop and deploy applications swiftly.

### How do I deploy runtime licences?

Once an application is developed, runtime licence deployment is achieved using any one of the three available Cadcorp SIS ActiveX licences; namely, Cadcorp SIS ActiveX Viewer, ActiveX Manager and ActiveX Modeller. These modules broadly match the capabilities of the equivalent 'off-the-shelf' Cadcorp SIS desktop licences and scale, both commercially and technically, in the same way. Naturally it is necessary to plan your application around the appropriate runtime module, for example, you would not wish to deploy an ActiveX Modeller for a viewer type application. Cadcorp can supply the full specification of each ActiveX licence level to help you plan your application properly.

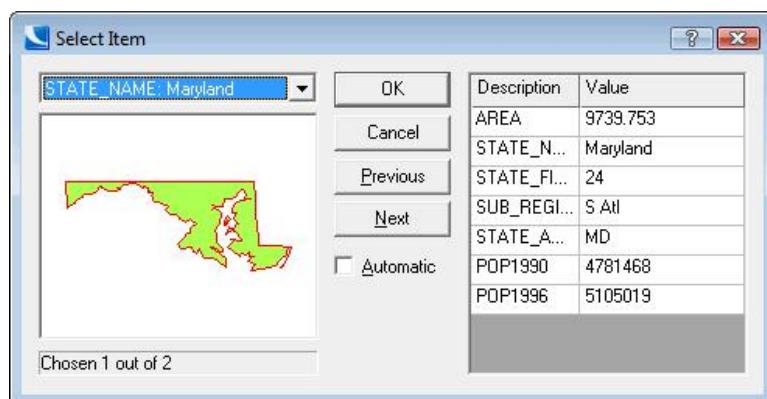
### Which markets have applications been developed for?

Solutions have been developed throughout the world in areas as diverse as Land Charges, Development Control, Emergency Services, Facilities Management, Hydrospatial, Agriculture and many others. The breadth of application area attests to the flexibility of the technology and the commercial model involved.

### What is the SDK like to develop with?

Building an application with the SDK is straightforward. There are ready made dialog boxes that the developer can use; graphics windows in which to draw maps, and other higher level assemblies to connect together. Using the Cadcorp SIS SDK allows developers to benefit from a higher level functionality, simplifying the programming task.

This selection dialog is one of the pre-built assemblies in the SIS SDK that developers can call and populate. Others are shown in the Appendix.



### **Which programming languages can I use?**

Any which support Active X, typically developers use Visual Studio (VB, C#), Visual Basic 6.0, Visual C++ and Delphi C.

### **Can you show me some example code?**

A frequent requirement in applications written using either control is the ability to zoom in, zoom out and pan across the map view. The Cadcorp SIS control is an encapsulation of the functionality of the full SIS product suite. The programmer accesses each function by invoking the corresponding Cadcorp SIS command.

The following example of Visual Basic code shows the use of a Toolbar control to invoke Zoom In, Zoom Out, Zoom All and Pan commands.

A brief explanation follows the code snippet.

```
Private Sub Toolbar1_ButtonClick(ByVal Button As SComctlLib.Button)
    Select Case Button.Key
        Case "Zoom"
            Sis.DoCommand "AComZoomIn"
        Case "ZoomIn"
            Sis.DoCommand "AComZoomIn2"
        Case "ZoomOut"
            Sis.DoCommand "AComZoomOut"
        Case "Pan"
            Sis.DoCommand "AComPanDrag"
        Case "ZoomAll"
            Sis.DoCommand "AComZoomExtent"
    End Select
End Sub
```

The "Zoom" function allows the user to draw a rectangular box on the map, to be used as the extent of map to zoom to.

The "ZoomIn" and "ZoomOut" functions double or halve the size of the map view.

The "Pan" function invokes a "sticky hand" mouse pointer to enable the user to drag the map view on screen to re-centre the view.

The "ZoomAll" function zooms out to draw the full extent of all geometry in the map.

In each case above, the "DoCommand" function is used, supplying the name of the command to be invoked.

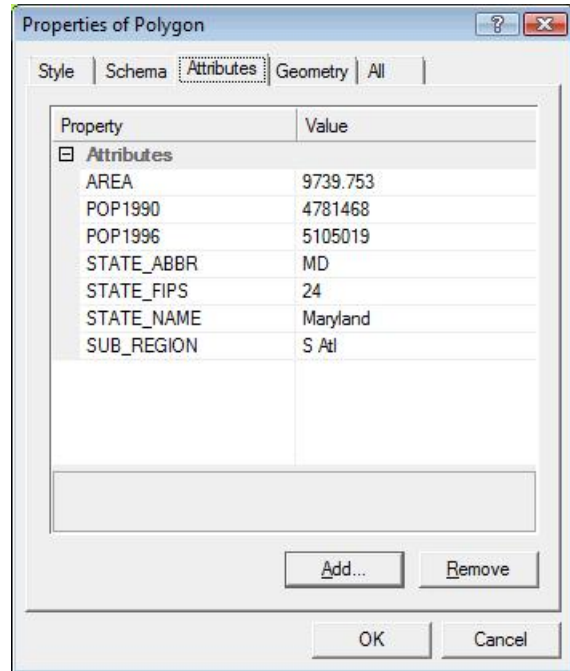
Using the SDK, a developer who is familiar with the Cadcorp SIS suite of software can rapidly implement GIS functionality by invoking standard commands of that software. Developers wishing to encapsulate SIS functionality in a controlled environment will find the SDK an ideal and simple-to-use tool.

### **What about OGC® conformance?**

As an integral part of the Cadcorp SIS product suite, the SDK and ActiveX modules are officially certified conformant to various Open Geospatial Consortium specifications.

### Appendix: More Examples of Cadcorp SIS SDK Pre-Built Assemblies

The properties dialog below allows the presentation of information, such as the attributes shown, as well as tools to change symbology; data table structures and edit values.



The Print Wizard, can be customized to present a variety of print templates, use custom scales, page sizes, etc.

