

## ► Software Library Components

New components are continually being added to the Software library, commonly known as Softlib. Softlib consists of many components for graphical application development. Typically, these components can be re-used in most real-time graphics applications.

### **ccShapes - CCII Shapes**

ccShapes is a self-contained class library, independent of application frameworks. An MMI interface window class provides the graphics primitives and input events. ccShapes has been designed from the ground up using the Booch design methodology. The following functionality is provided by ccShapes :

- Draw and Erase operations
- Edit operations
- Bounding Box functionality
- Coordinate Transformations
- Overlapping functionality
- Object Layering
- Grouping functionality
- CAD functionality
- User-extendable shape support

### **ccVertex - CCII Vertex Transformations**

ccVertex is a self-contained class library, independent of application frameworks. ccVertex has been designed from the ground up using the Booch design methodology. ccVertex provides transformation support between coordinate systems. The following functionality is provided by ccVertex :

- Polar 2D/3D transformations
- Cartesian 2D/3D transformations
- Integration of ccUnits
- User-extendable transformations

### **ccUnits - CCII Unit Transformations**

ccUnits is a self-contained class library, independent of application frameworks. ccUnits has been designed from the ground up using the Booch design methodology. ccUnits provides transformation support between different unit systems. The following functionality is provided by ccUnits :

- Length transformations - metre, miles, nautical miles, inches, feet and many more
- Weight transformations - kilograms, pounds and many more
- Angular transformations - degrees, mils, radians and many more
- User-extendable transformations

### **Other Softlib Components**

- ccMMI - CCII Man-Machine Interface
- ccWindowManager - CCII Window Manager
- ccSMTL - CCII Standard Multi-Tasking Library
- ccComms - CCII Communications Library