

-continued

```

const long kRectangleStrID = 132;
const long kOvalStrID = 133;
const long kRoundRectStrID = 134;
const long kLineStrID = 135;
const long kArcStrID = 136;
const long kTriangleStrID = 137;
const long kStarStrID = 138;
const long kTextStrID = 139;
const long kFontColorStrID = 140;
const long kFontSizeStrID = 141;
const long kFontStyleStrID = 142;
const long kNormalStrID = 143;
const long kBoldStrID = 144;
const long kItalicStrID = 145;
const long kUnderlineStrID = 146;
const long kOutlineStrID = 147;
const long kShadowStrID = 148;
const long kCondenseStrID = 149;
const long kExtendStrID = 150;
const long kShapeTypeStrID = 151;
const long kToolStrID = 152;
const long kSketchToolsStrID = 153;
const long kFontFaceStrID = 154;
const long kDocRectStrID = 155;
const long kViewRectStrID = 156;
const long kScrollStepStrID = 157;

//-----
const long cTool = 'tool';
const long pSketchTools = 'sktl';
const long pShapeType = 'shpt'; /* 0x63706172 */
const long pDocumentRect = 'drcr';
const long pViewRect = 'vrcr';
const long pScrollStep = 'sstp';
// *** Tools...
enum tSketchToolType {
    kNullTool = 0, // Empty tool
    kSelectionTool = 1, // Arrow tool
    kRectSketchTool,
    kOvalSketchTool,
    kRndRectSketchTool,
    kLineSketchTool,
    kArcSketchTool,
    kTriangleSketchTool,
    kStarSketchTool,
    kSTTForceShort = 32767
};
// *** Shapes...
enum tShapeType {
    kNullShape = 0,
    kRectType = 1,
    kOvalType,
    kRndRectType,
    kLineType,
    kArcType,
    kTriangleType,
    kStarType,
    kTextType,
    kSTFForceShort = 32767
};
//-----
#endif

```

What is claimed is:

1. A computer-implemented method for creating a compound document in a computer, comprising:

embedding a first object editor in said compound document for rendering first data in a first data content area of said compound document, said first object editor representing a container of said compound document; embedding a second object editor in said compound document for rendering second data in a second data content area of said compound document, said first data content area and said second data content area being mutually exclusive;

embedding a plurality of editing controllers in said compound document for selectively editing attributes of a selection of one of said first and second data;

providing a first auditor data structure including:

first data fields for representing said attributes, said first data fields implementing a first protocol decipherable by at least one of said first object editor and said second object editor, and being further decipherable by said editing controllers; and

providing a data switching system for passing said first auditor data structure between said editing controllers and said first and second object editors, wherein said data switching system determines which one of said plurality of editing controllers receives said first auditor data structure based on interest registered by each of said plurality of editing controllers with said data switching system.

2. The computer-implemented method of claim 1, wherein said first protocol is decipherable by both said first object editor and said second object editor.

3. The computer-implemented method of claim 1 wherein said first protocol is decipherable by said first object editor and said editing controllers, said compound document further comprising providing a second auditor data structure having second data fields for representing said attributes of a selection of said second data, said second data fields implementing a second protocol decipherable by said second object editor and said editing controllers.

4. The computer-implemented method of claim 1 wherein said first data fields contain data types that are native to a programming language.

5. In a computer, a method for communicating attribute data between a plurality of object editors and a plurality of editing controllers in a compound document, one of said object editors representing a provider for said compound document, said compound document being capable of rendering different data types simultaneously in different content areas of said compound document, comprising:

selecting an auditor data structure capable of representing first attributes of a selection in one of said content areas of said compound document;

filling out data fields of said auditor data structure, using an object editor associated with said one of said content areas, with data relating to said first attributes;

communicating said first attributes, using said auditor data structure, from said object editor to a data switching system; and

communicating said first attributes, using said auditor data structure, from said data switching system to a selected one of said editing controllers, said selected one of said editing controller being ascertained by said data switching system based on an interest associated with said selected one of said editing controllers.

6. The method of claim 5 wherein said auditor data structure is interest-based.

7. The method of claim 5 wherein said auditor data structure is generic to said plurality of object editors and said plurality of editing controllers of said compound document.

8. The method of claim 7 wherein said data fields of said auditor data structure contain data types which are native to a programming language, thereby capable of being deciphered by said plurality of object editors and said plurality of editing controllers of said compound document.

9. The method of claim 5 wherein said first object editor represents a text editor.

10. The method of claim 9 wherein said second object editor represents a graphics editor.

11. The method of claim 5 wherein said interest associated with said selected one of said editing controllers is tracked in a first roster in said data switching system.