Application Framework Object Model

ArcGIS™ 8.2

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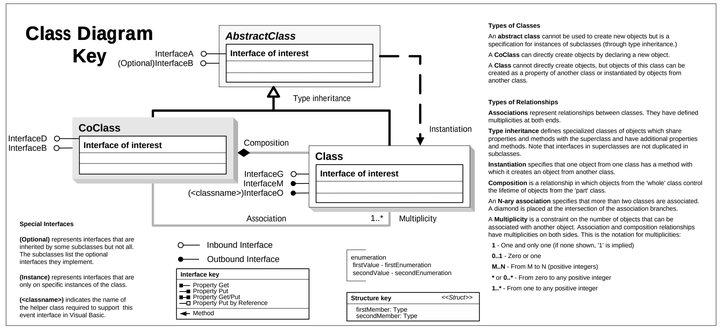


Types of Classes

An **abstract class** cannot be used to create new objects but is a specification for instances of subclasses (through type inheritance.)

A **CoClass** can directly create objects by declaring a new object.

A **Class** cannot directly create objects, but objects of this class can be created as a property of another class or instantiated by objects from another class.

Types of Relationships

Associations represent relationships between classes. They have defined multiplicities at both ends.

Type inheritance defines specialized classes of objects which share properties and methods with the superclass and have additional properties and methods. Note that interfaces in superclasses are not duplicated in subclasses.

Instantiation specifies that one object from one class has a method with which it creates an object from another class.

Composition is a relationship in which objects from the 'whole' class control the lifetime of objects from the 'part' class.

An **N-ary association** specifies that more than two classes are associated. A diamond is placed at the intersection of the association branches.

A **Multiplicity** is a constraint on the number of objects that can be associated with another object. Association and composition relationships have multiplicities on both sides. This is the notation for multiplicities:

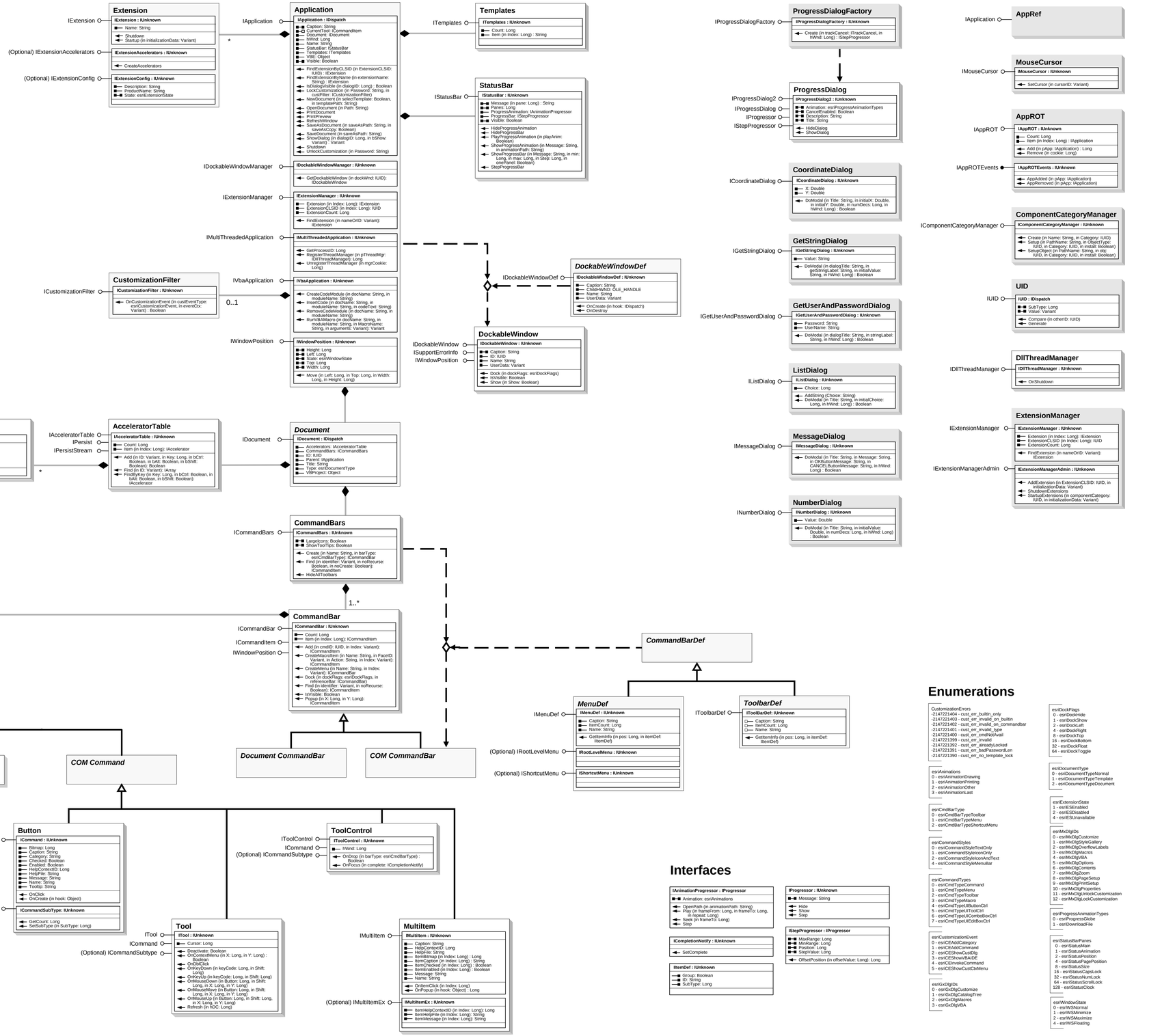
1 - One and only one (if none shown, '1' is implied)

0..1 - Zero or one

M..N - From M to N (positive integers)

*** or 0..*** - From zero to any positive integer

1..* - From one to any positive integer



Enumerations

CustomizationErrors
-2147221404 - cust_err_builtin_only
-2147221403 - cust_err_invalid_on_builtin
-2147221402 - cust_err_invalid_on_commandbar
-2147221401 - cust_err_invalid_type
-2147221400 - cust_err_cmdNotAvail
-2147221399 - cust_err_invalid
-2147221392 - cust_err_alreadyLocked
-2147221391 - cust_err_badPasswordLen
-2147221390 - cust_err_no_template_lock

esriAnimations
0 - esriAnimationDrawing
1 - esriAnimationPrinting
2 - esriAnimationOther
3 - esriAnimationLast

esriCmdBarType
0 - esriCmdBarTypeToolbar
1 - esriCmdBarTypeMenu
2 - esriCmdBarTypeShortcutMenu

esriCommandStyles
0 - esriCommandStyleTextOnly
1 - esriCommandStyleIconOnly
2 - esriCommandStyleIconAndText
4 - esriCommandStyleMenuBar

esriCommandTypes
0 - esriCmdTypeCommand
1 - esriCmdTypeMenu
2 - esriCmdTypeToolbar
3 - esriCmdTypeMacro
4 - esriCmdTypeUIButtonCtrl
5 - esriCmdTypeUIToolCtrl
6 - esriCmdTypeUIComboBoxCtrl
7 - esriCmdTypeUIEditBoxCtrl

esriCustomizationEvent
0 - esriCEAddCategory
1 - esriCEAddCommand
2 - esriCEShowCustDlg
3 - esriCEShowVBAIDE
4 - esriCEInvokeCommand
5 - esriCEShowCustCtxMenu

esriGxDlgIDs
0 - esriGxDlgCustomize
1 - esriGxDlgCatalogTree
2 - esriGxDlgMacros
3 - esriGxDlgVBA

esriDockFlags
0 - esriDockHide
1 - esriDockShow
2 - esriDockLeft
4 - esriDockRight
8 - esriDockTop
16 - esriDockBottom
32 - esriDockFloat
64 - esriDockToggle

esriDocumentType
0 - esriDocumentTypeNormal
1 - esriDocumentTypeTemplate
2 - esriDocumentTypeDocument

esriExtensionState
1 - esriESEnabled
2 - esriESDisabled
4 - esriESUnavailable

esriMxDlgIDs
0 - esriMxDlgCustomize
1 - esriMxDlgStyleGallery
2 - esriMxDlgOverflowLabels
3 - esriMxDlgMacros
4 - esriMxDlgVBA
5 - esriMxDlgOptions
6 - esriMxDlgContents
7 - esriMxDlgZoom
8 - esriMxDlgPageSetup
9 - esriMxDlgPrintSetup
10 - esriMxDlgProperties
11 - esriMxDlgUnlockCustomization
12 - esriMxDlgLockCustomization

esriProgressAnimationTypes
0 - esriProgressGlobe
1 - esriDownloadFile

esriStatusBarPanes
0 - esriStatusMain
1 - esriStatusAnimation
2 - esriStatusPosition
4 - esriStatusPagePosition
8 - esriStatusSize
16 - esriStatusCapsLock
32 - esriStatusNumLock
64 - esriStatusScrollLock
128 - esriStatusClock

esriWindowState
0 - esriWSNormal
1 - esriWSMinimize
2 - esriWSMaximize
4 - esriWSFloating

Interfaces

IAnimationProgressor : IProgressor
- Animation: esriAnimations
- OpenPath (in animationPath: String)
- Play (in frameFrom: Long, in frameTo: Long, in repeat: Long)
- Seek (in frameTo: Long)
- Stop

IProgressor : IUnknown
- Message: String
- Hide
- Show
- Step

ICompletionNotify : IUnknown
- SetComplete

IStepProgressor : IProgressor
- MaxRange: Long
- MinRange: Long
- Position: Long
- StepValue: Long
- OffsetPosition (in offsetValue: Long): Long

IItemDef : IUnknown
- Group: Boolean
- ID: String
- SubType: Long