System Object Model

ESRI® ArcGIS® 9.2

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AoInitialize
Interfaces: IAoInitialize, ILicenseInformation

IAoInitialize : IUnknown
- CheckInExtension (in extensionCode: esriLicenseExtensionCode): esriLicenseStatus
- CheckOutExtension (in extensionCode: esriLicenseExtensionCode): esriLicenseStatus
- Initialize (in ProductCode: esriLicenseProductCode): esriLicenseStatus
- InitializedProduct: esriLicenseProductCode
- IsExtensionCheckedOut (in extensionCode: esriLicenseExtensionCode): Boolean
- IsExtensionCodeAvailable (in ProductCode: esriLicenseProductCode, in extensionCode: esriLicenseExtensionCode): esriLicenseStatus
- IsProductCodeAvailable (in ProductCode: esriLicenseProductCode): esriLicenseStatus
- Shutdown

ILicenseInformation : IUnknown
- GetLicenseExtensionName (in extensionCode: esriLicenseExtensionCode): String
- GetLicenseProductName (in ProductCode: esriLicenseProductCode): String
- GetProductExtensions (in ProductCode: esriLicenseProductCode): ILicenseInfoEnum

LicenseInfoEnum
Interfaces: ILicenseInfoEnum

ILicenseInfoEnum : IUnknown
- Next: esriLicenseExtensionCode
- Reset

AoAuthorizeLicense
Interfaces: IAuthorizeLicense

IAuthorizeLicense : IUnknown
- FeaturesAdded: String
- LastError: String
- AddLicense (in featureName: String, in versionNumber: Long, in timeoutDate: String, in registrationNumber: String, in authorizationCode: String)
- AddLicenseFromFile (in FileName: String)

ESRILicenseInfo
Interfaces: IESRILicenseInfo

IESRILicenseInfo : IUnknown
- DefaultProduct: esriProductCode
- IsLicensed (in ProductCode: esriProductCode): Boolean

ExtensionManager
Interfaces: IExtensionManager, IExtensionManagerAdmin

IExtensionManager : IUnknown
- Extension (in Index: Long): IExtension
- ExtensionCLSID (in Index: Long): IUID
- ExtensionCount: Long
- FindExtension (in nameOrID: Variant): IExtension

IExtensionManagerAdmin : IUnknown
- AddExtension (in ExtensionCLSID: IUID, in initializationData: Variant)
- ShutdownExtensions
- StartupExtensions (in componentCategory: IUID, in jitCategory: IUID, in initializationData: Variant)

IJITExtensionManager : IUnknown
- JITExtensionCLSID (in Index: Long): IUID
- JITExtensionCount: Long
- InsertExtension (in pExtCLSID: IUID, in pExtension: IExtension)
- IsExtensionEnabled (in pExtCLSID: IUID): Boolean
- IsLoaded (in pID: IUID): Boolean
- RemoveExtension (in pExtension: IExtension)

AppLockMgr
Interfaces: IAppLockMgr

IAppLockMgr : IUnknown
- Count: Long
- Add (in pAfLockMgr: IAfLockMgr, in pID: Long, out cookie: Long)
- CheckLock (in cookie: Long, in FileName: String, in lockMgrType: esriLockMgrType)
- ClearLock (in cookie: Long, in FileName: String, in lockMgrType: esriLockMgrType)
- IsGlobalAlive (out pbGlobalAlive: Boolean)
- Remove (in cookie: Long)
- SetLock (in cookie: Long, in FileName: String, in lockMgrType: esriLockMgrType)

ProductInstalled
Interfaces: IProductInstalled

IProductInstalled : IUnknown
- IsProductInstalled (in ProductInstalled: esriProductInstalled): Boolean

NumberFormat
Interfaces: INumberFormat, INumberFormatOperations, IClone, IPersistStream

INumberFormat : IUnknown
- StringToValue (in str: String): Double
- ValueToString (in Value: Double): String

INumberFormatOperations : IUnknown
- Increment (in Value: Double): Double

CurrencyFormat

CustomNumberFormat
Interfaces: ICustomNumberFormat

ICustomNumberFormat : IUnknown
- FormatString: String

FractionFormat
Interfaces: IFractionFormat

IFractionFormat : IUnknown
- FractionFactor: Long
- FractionOption: esriFractionOptionEnum

ScientificFormat
Interfaces: IScientificNumberFormat

IScientificNumberFormat : IUnknown
- DecimalPlaces: Long

DirectionFormat
Interfaces: IDirectionFormat

IDirectionFormat : IUnknown
- DecimalPlaces: Long
- DirectionType: esriDirectionType
- DirectionUnits: esriDirectionUnits
- DisplayFormat: esriDirectionFormatEnum

NumericFormat
Interfaces: INumericFormat

INumericFormat : IUnknown
- AlignmentOption: esriNumericAlignmentEnum
- AlignmentWidth: Long
- RoundingOption: esriRoundingOptionEnum
- RoundingValue: Long
- ShowPlusSign: Boolean
- UseSeparator: Boolean
- ZeroPad: Boolean

AngleFormat
Interfaces: IAngleFormat

IAngleFormat : IUnknown
- AngleInDegrees: Boolean
- DisplayDegrees: Boolean

LatLonFormat
Interfaces: ILatLonFormat, ILatLonFormat2

ILatLonFormat : IUnknown
- IsLatitude: Boolean
- ShowDirections: Boolean
- ShowZeroMinutes: Boolean
- ShowZeroSeconds: Boolean
- GetDMS (in Value: Double, out degrees: Long, out minutes: Long, out seconds: Double)

ILatLonFormat2 : IUnknown
- IsLatitude: Boolean
- ShowDirections: Boolean
- ShowZeroMinutes: Boolean
- ShowZeroSeconds: Boolean
- GetDMS (in Value: Double, out degrees: Long, out minutes: Long, out seconds: Double)

RateFormat
Interfaces: IRateFormat

IRateFormat : IUnknown
- RateFactor: Double
- RateString: String

PercentageFormat
Interfaces: IPercentageFormat

IPercentageFormat : IUnknown
- AdjustPercentage: Boolean

AfLockMgr
Interfaces: IAfLockMgr

IAfLockMgr : IUnknown
- CheckLock (in FileName: String, in lockMgrType: esriLockMgrType): Boolean
- ClearLock (in FileName: String, in lockMgrType: esriLockMgrType): Boolean
- IsGlobalAlive: Boolean
- Register: Boolean
- SetLock (in FileName: String, in lockMgrType: esriLockMgrType): Boolean
- Unregister: Boolean

ComponentCategoryManager
Interfaces: IComponentCategoryManager

IComponentCategoryManager : IUnknown
- Create (in Name: String, in Category: IUID)
- Setup (in PathName: String, in ObjectType: IUID, in Category: IUID, in install: Boolean)
- SetupObject (in PathName: String, in obj: IUID, in Category: IUID, in install: Boolean)

CategoryFactory
Interfaces: ICategoryFactory

ICategoryFactory : IUnknown
- CategoryID: IUID
- CreateNext: IUnknown

FileName
Interfaces: IFileName, IName, IPersist, IPersistStream

IFileName : IUnknown
- Path: String

FileNames
Interfaces: IFileNames, IFileNames2

IFileNames : IUnknown
- Add (in FileName: String)
- IsDirectory: Boolean
- Next: String
- Remove
- Reset

IFileNames2 : IUnknown
- Find (in FileName: String): Boolean
- GetContainedExtensions: String
- GetSubset (in extSet: String): IFileNames
- LoadFromPath (in Path: String)

NameFactory
Interfaces: INameFactory

INameFactory : IUnknown
- Create (in NameString: String): IName
- PackageNames (in Names: IEnumName): Variant
- UnpackageNames (in bytesArray: Variant): IEnumName

ObjectCopy
Interfaces: IObjectCopy

IObjectCopy : IUnknown
- Copy (in pInObject: IUnknown): IUnknown
- Overwrite (in pInObject: IUnknown, pOverwriteObject: IUnknown)

ZipArchive
Interfaces: IZipArchive

IZipArchive : IUnknown
- AddFile (in inputFile: String)
- CloseArchive
- CreateArchive (in archiveName: String)
- Extract (in outputDir: String)
- ExtractFile (in File: String, in outputDir: String)
- GetFileNames: IEnumBSTR
- OpenArchive (in archiveName: String)

XMLWriter
Interfaces: IXMLWriter

IXMLWriter : IUnknown
- LookupNamespace (in uri: String): String
- WriteBinary (in Value: BYTE)
- WriteBoolean (in Value: Boolean)
- WriteByte (in Value: BYTE)
- WriteCData (in cdata: String)
- WriteDate (in Value: DATE)
- WriteDouble (in Value: Double)
- WriteEndTag
- WriteFloat (in Value: Single)
- WriteInteger (in Value: Long)
- WriteNewLine
- WriteShort (in Value: Integer)
- WriteStartTag (in LocalName: String, in uri: String, in Attributes: IXMLAttributes, in namespaces: IXMLNamespaces, in IsEmpty: Boolean)
- WriteTab
- WriteText (in Text: String)
- WriteTo (in outputStream: IStream)
- WriteVariant (in Value: Variant)
- WriteXML (in XML: String)
- WriteXMLDeclaration

Array
Interfaces: IArray, IXMLSerialize, IArray2

IArray : IUnknown
- Count: Long
- Element (in Index: Long): IUnknown
- Add (in unk: IUnknown)
- Insert (in Index: Long, in unk: IUnknown)
- Remove (in Index: Long)
- RemoveAll

IArray2 : IUnknown
- Replace (in Index: Long, in unk: IUnknown)

LongArray
Interfaces: ILongArray, IXMLSerialize, IPersist, IPersistStream

ILongArray : IUnknown
- Count: Long
- Element (in Index: Long): Long
- Add (in Element: Long)
- Insert (in Index: Long, in Element: Long)
- Remove (in Index: Long)
- RemoveAll

DoubleArray
Interfaces: IDoubleArray, IXMLSerialize, IPersist, IPersistStream

IDoubleArray : IUnknown
- Count: Long
- Element (in Index: Long): Double
- Add (in Element: Double)
- Insert (in Index: Long, in Element: Double)
- Remove (in Index: Long)
- RemoveAll

StrArray
Interfaces: IStringArray, IXMLSerialize, IPersist, IPersistStream

IStringArray : IUnknown
- Count: Long
- Element (in Index: Long): String
- Add (in Element: String)
- Insert (in Index: Long, in Element: String)
- Remove (in Index: Long)
- RemoveAll

VarArray
Interfaces: IVariantArray, IXMLSerialize, IPersist, IPersistStream

IVariantArray : IUnknown
- Count: Long
- Element (in Index: Long): Variant
- Add (in Element: Variant)
- Insert (in Index: Long, in Element: Variant)
- Remove (in Index: Long)
- RemoveAll

XMLPersistedObject
Interfaces: IXMLPersistedObject, IXMLSerialize

IXMLPersistedObject : IUnknown
- Object: IUnknown

XMLTypeMapper
Interfaces: IXMLTypeMapper

IXMLTypeMapper : IUnknown
- FromBinary (in Value: BYTE): String
- FromBoolean (in Value: Boolean): String
- FromByte (in Value: BYTE): String
- FromDate (in Value: GetTypeDescAsVb(): vt = 7): String
- FromDouble (in Value: Double): String
- FromFloat (in Value: Single): String
- FromInteger (in Value: Long): String
- FromShort (in Value: Integer): String
- ToBinary (in Text: String): BYTE
- ToBoolean (in Text: String): Boolean
- ToByte (in Text: String): BYTE
- ToDate (in Text: String): GetTypeDescAsVb(): vt = 7
- ToDouble (in Text: String): Double
- ToFloat (in Text: String): Single
- ToInteger (in Text: String): Long
- ToObject (in NamespaceURI: String, in TypeName: String): IUnknown
- ToShort (in Text: String): Integer

XMLNamespaces
Interfaces: IXMLNamespaces

IXMLNamespaces : IUnknown
- NamespaceCount: Long
- NamespaceURI (in Index: Long): String
- Prefix (in Index: Long): String
- AddNamespace (in Prefix: String, in uri: String)
- DeleteNamespace (in uri: String)

XMLAttributes
Interfaces: IXMLAttributes

IXMLAttributes : IUnknown
- AttributeCount: Long
- LocalName (in Index: Long): String
- NamespaceURI (in Index: Long): String
- Value (in Index: Long): String
- AddAttribute (in LocalName: String, in NamespaceURI: String, in Value: String)
- DeleteAttribute (in LocalName: String, in NamespaceURI: String)
- FindAttribute (in LocalName: String, in NamespaceURI: String): Long

ProxyServerInfo
Interfaces: IProxyServerInfo

IProxyServerInfo : IUnknown
- Enabled: Boolean
- Password: String
- ProxyServer: String
- UserName: String
- ReadProxyServerInfo
- WriteProxyServerInfo

Set
Interfaces: ISet

ISet : IUnknown
- Count: Long
- Add (in unk: IUnknown)
- Find (in unk: IUnknown): Boolean
- Next: IUnknown
- Remove (in unk: IUnknown)
- RemoveAll
- Reset

PropertySet
Interfaces: IPropertySet, IClone, IPersist, IPersistStream, IXMLSerialize, IPropertySet2

IPropertySet : IUnknown
- Count: Long
- GetAllProperties (out Names: Variant, out Values: Variant)
- GetProperties (in Names: Variant, out Values: Variant)
- GetProperty (in Name: String): Variant
- IsEqual (in PropertySet: IPropertySet): Boolean
- RemoveProperty (in Name: String)
- SetProperties (in Names: Variant, in Values: Variant)
- SetProperty (in Name: String, in Value: Variant)

IPropertySet2 : IPropertySet
- IsEqualNoCase (in PropertySet: IPropertySet): Boolean

BaseStatistics
Interfaces: IStatisticsResults, IGenerateStatistics, IFrequencyStatistics

IStatisticsResults : IUnknown
- Count: Long
- Maximum: Double
- Mean: Double
- Minimum: Double
- StandardDeviation: Double
- Sum: Double

IGenerateStatistics : IUnknown
- Sample: Boolean
- SimpleStats: Boolean
- AddValue (in Value: Double)
- FinalCompute
- Reset (in SimpleStats: Boolean)

IFrequencyStatistics : IUnknown
- FrequencyClassCount (in intervalIndex: Long): Long
- FrequencyIntervalCount: Long
- FrequencyIntervalSize: Double
- ComputeAutoFrequencyIntervals

XMLFlags
Interfaces: IXMLFlags

IXMLFlags : IUnknown
- Count: Long
- FlagName (in Index: Long): String
- FlagValue (in Index: Long): Boolean
- GetFlag (in Name: String): Boolean
- SetFlag (in Name: String, in FlagValue: Boolean)

XMLSerializer
Interfaces: IXMLSerializer

IXMLSerializer : IUnknown
- LoadFromString (in XML: String, in Environment: IPropertySet, in Flags: IXMLFlags): IUnknown
- ReadObject (in pReader: IXMLReader, in Environment: IPropertySet, in Flags: IXMLFlags): IUnknown
- ReadObjectByType (in pReader: IXMLReader, in Environment: IPropertySet, in Flags: IXMLFlags, in TypeNamespace: String, in TypeName: String): IUnknown
- SaveToString (in obj: IUnknown, in Environment: IPropertySet, in Flags: IXMLFlags): String
- WriteObject (in pWriter: IXMLWriter, in Environment: IPropertySet, in Flags: IXMLFlags, in elementName: String, in elementNamespaceURI: String, in obj: IUnknown)

XMLReader
Interfaces: IXMLReader

IXMLReader : IUnknown
- Attributes: IXMLAttributes
- HasElementChildren: Boolean
- IsLastChild: Boolean
- LocalName: String
- NamespaceDeclarations: IXMLNamespaces
- NamespacePrefix: String
- NamespaceURI: String
- Text: String
- CloseElement
- LookupPrefix (in Prefix: String): String
- NextElement
- OpenElement
- ReadBinary: BYTE
- ReadBoolean: Boolean
- ReadByte: BYTE
- ReadDate: DATE
- ReadDouble: Double
- ReadFloat: Single
- ReadFrom (in inputStream: IStream)
- ReadInteger: Long
- ReadShort: Integer
- ReadVariant: Variant

Classify
Interfaces: IClassify, IClassifyGEN

IClassify : IUnknown
- ClassBreaks: Variant
- ClassID: IUID
- MethodName: String
- Classify (NumClasses: Long)
- SetHistogramData (in doubleArrayValues: Variant, in longArrayFrequencies: Variant)

IClassifyGEN : IUnknown
- ClassBreaks: Variant
- ClassID: IUID
- MethodName: String
- Classify (in doubleArrayValues: Variant, in longArrayFrequencies: Variant, NumClasses: Long)

DefinedInterval
Interfaces: IClassifyMinMax, IClassifyMinMax2, IIntervalRange, IIntervalRange2

IClassifyMinMax : IUnknown
- Maximum: Double
- Minimum: Double

IClassifyMinMax2 : IUnknown
- ClassifyMinMax (in Min: Double, in Max: Double, NumClasses: Long)

IIntervalRange : IUnknown
- Default: Double
- IntervalRange: Double

IIntervalRange2 : IUnknown
- Default (Values: Variant, frequencies: Variant): Double
- IntervalRange: Double

EqualInterval
Interfaces: IClassifyMinMax, IClassifyMinMax2

NaturalBreaks

Quantile

StandardDeviation
Interfaces: IDeviationInterval

IDeviationInterval : IUnknown
- DeviationInterval: Double
- Mean: Double
- StandardDev: Double

SystemHelper
Interfaces: ISystemBridge

ISystemBridge : IUnknown
- Classify (pClassify: IClassifyGEN, in doubleArrayValues: Double, in longArrayFrequencies: Long, NumClasses: Long)

UnitConverter
Interfaces: IUnitConverter

IUnitConverter : IUnknown
- ConvertUnits (in dValue: Double, in inUnits: esriUnits, in outUnits: esriUnits): Double
- EsriUnitsAsString (in Units: esriUnits, in appearance: esriCaseAppearance, in bPlural: Boolean): String

UID
Interfaces: IUID, IPersist, IPersistStream, IXMLSerialize

IUID : IDispatch
- SubType: Long
- Value: Variant
- Compare (in otherID: IUID)
- Generate

Stream
Interfaces: IStream, ISequentialStream

IStream : ISequentialStream
- Clone (out ppstm: IStream)
- Commit (in grfCommitFlags: Unsigned Long)
- LockRegion (in libOffset: _ULARGE_INTEGER, in cb: _ULARGE_INTEGER, in dwLockType: Unsigned Long)
- RemoteCopyTo (in pstm: IStream, in cb: _ULARGE_INTEGER, out pcbRead: _ULARGE_INTEGER, out pcbWritten: _ULARGE_INTEGER)
- RemoteSeek (in dlibMove: _LARGE_INTEGER, in dwOrigin: Unsigned Long, out plibNewPosition: _ULARGE_INTEGER)
- Revert
- SetSize (in libNewSize: _ULARGE_INTEGER)
- Stat (out pstatstg: tagSTATSTG, in grfStatFlag: Unsigned Long)
- UnlockRegion (in libOffset: _ULARGE_INTEGER, in cb: _ULARGE_INTEGER, in dwLockType: Unsigned Long)

ISequentialStream : IUnknown
- RemoteRead (out pv: BYTE, in cb: Unsigned Long, out pcbRead: Unsigned Long)
- RemoteWrite (in pv: BYTE, in cb: Unsigned Long, out pcbWritten: Unsigned Long)

MemoryBlobStream
Interfaces: IBlobStream, IDocumentVersion, IMemoryBlobStream, IMemoryBlobStream2, IMemoryBlobStreamVariant

IBlobStream : IStream
- Size: Unsigned Long
- LoadFromFile (in FileName: String)
- SaveToFile (in FileName: String)

IDocumentVersion : IUnknown
- DocumentVersion: esriArcGISVersion

IMemoryBlobStream : IBlobStream
- Memory (out blobMemory: BYTE): Unsigned Long
- AttachToMemory (in blobMemory: BYTE, Size: Unsigned Long, transferOwnership: Long)
- ImportFromMemory (in blobMemory: BYTE, Size: Unsigned Long)

IMemoryBlobStream2 : IMemoryBlobStream
- AllocSize: Unsigned Long
- PaddingSize: Unsigned Long

IMemoryBlobStreamVariant : IUnknown
- ExportToVariant (out Value: Variant)
- ImportFromVariant (in Value: Variant)

ObjectStream
Interfaces: IObjectStream

IObjectStream : IStream
- Stream: IStream
- Version: String
- LoadObject (in riid: GUID, in pUnkOuter: IUnknown): IUnknown
- ReplaceObject (in unknown: IUnknown)
- SaveObject (in pUnk: IUnknown)

FileStream
Interfaces: IFile, IBlobStream

IFile : IUnknown
- Open (in FileName: String, in permission: esriFilePermission)

XMLStream
Interfaces: IXMLStream

IXMLStream : IUnknown
- LoadFromBytes (in bytes: BYTE)
- LoadFromFile (in FilePath: String)
- LoadFromString (in XML: String)
- Reset
- SaveToBytes: BYTE
- SaveToFile (in FilePath: String)
- SaveToString: String

AngularConverter
Interfaces: IAngularConverter

IAngularConverter : IUnknown
- GetAngle (in dt: esriDirectionType, in du: esriDirectionUnits): Double
- GetString (in dt: esriDirectionType, in du: esriDirectionUnits, in precision: Long): String
- SetAngle (in angle: Double, in dt: esriDirectionType, in du: esriDirectionUnits): Boolean
- SetString (in angle: String, in dt: esriDirectionType, in du: esriDirectionUnits): Boolean

ByteSwapStreamIO
Interfaces: IByteSwapStreamIO

IByteSwapStreamIO : IUnknown
- Stream: IStream
- Read (in DataType: esriByteSwapDataType, out pv: Any, in cb: Unsigned Long, out pcbRead: Unsigned Long)
- Write (in DataType: esriByteSwapDataType, in pv: Any, in cb: Unsigned Long, out pcbWritten: Unsigned Long)

VariantStreamIO
Interfaces: IVariantStreamIO, IVariantStream

IVariantStreamIO : IUnknown
- Stream: IStream

IVariantStream : IUnknown
- Read: Variant
- Write (in Value: Variant)

Class Diagram Key

AbstractClass — Interface of interest (InterfaceA, (Optional)InterfaceB)

CoClass — Interface of interest (InterfaceD, InterfaceB)

Class — Interface of interest (InterfaceG, InterfaceM, (<classname>)InterfaceO)

Type inheritance · Instantiation · Composition · Association · 1..* Multiplicity

- Inbound Interface
- Outbound Interface

Interface key
- Property Get
- Property Put
- Property Get/Put
- Property Put by Reference
- Method

enumeration
firstValue - firstEnumeration
secondValue - secondEnumeration

Structure key <<Struct>>
firstMember: Type
secondMember: Type

Special Interfaces

(Optional) represents interfaces that are inherited by some subclasses but not all. The subclasses list the optional interfaces they implement.

(Instance) represents interfaces that are only on specific instances of the class.

(<classname>) indicates the name of the helper class required to support this event interface in Visual Basic.

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

Interfaces

IAfLockMgr : IUnknown
- CheckLock (in FileName: String, in lockMgrType: esriLockMgrType): Boolean
- ClearLock (in FileName: String, in lockMgrType: esriLockMgrType): Boolean
- IsGlobalAlive: Boolean
- Register: Boolean
- SetLock (in FileName: String, in lockMgrType: esriLockMgrType): Boolean
- Unregister: Boolean

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

IAutoExtension : IUnknown

ICheckProgressor : IStepProgressor
- AddCheck (in Index: Long, in msg: String)
- HideCheck (in Index: Long)
- ShowCheck (in Index: Long)

IChildExtension : IUnknown
- Parent: IExtension

IClone : IUnknown
- Assign (in src: IClone)
- Clone: IClone
- IsEqual (in other: IClone): Boolean
- IsIdentical (in other: IClone): Boolean

IDocumentVersionSupport : IUnknown
- ConvertToSupportedObject (in docVersion: esriArcGISVersion): IUnknown
- IsSupportedAtVersion (in docVersion: esriArcGISVersion): Boolean

IEnumBSTR : IUnknown
- Next: String
- Reset

IEnumName : IUnknown
- Next: IName
- Reset

IEnumNamedID : IUnknown
- Next (out nextName: String): Long
- Reset

IEnumNameEdit : IUnknown
- Add (in Name: IName)
- Remove (in Name: IName)
- RemoveCurrent

IEnumVariantSimple : IUnknown
- Next: Variant
- Reset

IErrorCollection : IUnknown
- ErrorCount: Long
- ErrorDescription (in Index: Long): String

IExtension : IUnknown
- Name: String
- Shutdown
- Startup (in initializationData: Variant)

IExtensionAccelerators : IUnknown
- CreateAccelerators

IExtensionConfig : IUnknown
- Description: String
- ProductName: String
- State: esriExtensionState

IGlobeCompression : IUnknown
- EndGlobeCompression
- GlobeFromJPEG (in inputSize: Long, in pSrcData: BYTE, in use5551: Boolean, out pOutputSize: Long, out pDestData: BYTE)
- GlobeToJPEG (in inputSize: Long, in pSrcData: BYTE, in Quality: Long, out pOutputSize: Long, out pDestData: BYTE)
- InitGlobeCompression

ILog : IUnknown
- AddMessage (in Level: Long, in msgCode: Long, in msg: String)

ILogSupport : IUnknown
- InitLogging (in Log: ILog)

IName : IUnknown
- NameString: String
- Open: IUnknown

IObjectActivate : IUnknown
- Activate
- Deactivate

IObjectConstruct : IUnknown
- Construct (in props: IPropertySet)

IObjectStreamDebug : IUnknown
- LastObjectRead: String
- LogFile: String

IParentExtension : IUnknown
- Child (Index: Long): IExtension
- ChildCount: Long

IParseNameString : IUnknown
- CanParse (in NameString: String): Boolean
- Parse (in NameString: String): IName

IPersist : IUnknown
- GetClassID (out pClassID: GUID)

IPersistStream : IPersist
- GetSizeMax (out pcbSize: _ULARGE_INTEGER)
- IsDirty
- Load (in pstm: IStream)
- Save (in pstm: IStream, in fClearDirty: Long)

IPersistVariant : IUnknown
- ID: IUID
- Load (in Stream: IVariantStream)
- Save (in Stream: IVariantStream)

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

IPropertySupport : IUnknown
- Current (in pUnk: IUnknown): IUnknown
- Applies (in pUnk: IUnknown): Boolean
- Apply (in NewObject: IUnknown): IUnknown
- CanApply (in pUnk: IUnknown): Boolean

IRequestHandler : IUnknown
- HandleBinaryRequest (in request: BYTE): BYTE
- HandleStringRequest (in Capabilities: String, in request: String): String

IStatusBar : IUnknown
- Message (in pane: Long): String
- Panes: Long
- ProgressAnimation: IAnimationProgressor
- ProgressBar: IStepProgressor
- Visible: Boolean
- HideProgressAnimation
- HideProgressBar
- PlayProgressAnimation (in playAnim: Boolean)
- ShowProgressAnimation (in Message: String, in animationPath: String)
- ShowProgressBar (in Message: String, in Min: Long, in Max: Long, in Step: Long, in onePanel: Boolean)
- StepProgressBar

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

ISupportErrorInfo : IUnknown
- InterfaceSupportsErrorInfo (in riid: GUID)

ITestConnection : IUnknown
- TestConnection: Boolean

ITextureCompression : IUnknown
- CompressionQuality: Long
- CompressTexture (in type: esriTextureCompressionType, in Width: Long, in Height: Long, in channels: Long, in pInData: BYTE, out pByteCount: Long, out ppOutBuff: BYTE)
- FreeCompressData (in pInData: BYTE)
- UnCompressTexture (in type: esriTextureCompressionType, in Width: Long, in Height: Long, in channels: Long, in Size: Long, in pInData: BYTE, out pOutBuff: BYTE)

ITrackCancel : IUnknown
- CancelOnClick: Boolean
- CancelOnKeyPress: Boolean
- CheckTime: Long
- ProcessMessages: Boolean
- Progressor: IProgressor
- Cancel
- Continue: Boolean
- Reset
- StartTimer (in hWnd: Long, in milliseconds: Long)
- StopTimer
- TimerFired: Boolean

IVariantStream : IUnknown
- Read: Variant
- Write (in Value: Variant)

IXMLSerializeData : IUnknown
- Count: Long
- Properties: IPropertySet
- TypeName: String
- AddBinary (in Name: String, in Value: BYTE)
- AddBoolean (in Name: String, in Value: Boolean)
- AddByte (in Name: String, in Value: BYTE)
- AddDate (in Name: String, in Value: GetTypeDescAsVb(): vt = 7)
- AddDouble (in Name: String, in Value: Double)
- AddFloat (in Name: String, in Value: Single)
- AddInteger (in Name: String, in Value: Long)
- AddObject (in Name: String, in Value: IUnknown)
- AddShort (in Name: String, in Value: Integer)
- AddString (in Name: String, in Value: String)
- AddVariant (in Name: String, in Value: Variant)
- Find (in Name: String): Long
- GetBinary (in Index: Long): BYTE
- GetBoolean (in Index: Long): Boolean
- GetByte (in Index: Long): BYTE
- GetDate (in Index: Long): GetTypeDescAsVb(): vt = 7
- GetDouble (in Index: Long): Double
- GetFlag (in Name: String): Boolean
- GetFloat (in Index: Long): Single
- GetInteger (in Index: Long): Long
- GetObject (in Index: Long, in TypeNamespace: String, in TypeName: String): IUnknown
- GetShort (in Index: Long): Integer
- GetString (in Index: Long): String
- GetVariant (in Index: Long): Variant
- SetFlag (in Name: String, in FlagValue: Boolean)
- TypeNamespaceURI: String

IXMLObjectElement : IUnknown
- ReadXML (in pReader: IXMLReader, in Environment: IPropertySet, in Flags: IXMLFlags)
- WriteXML (in pWriter: IXMLWriter, in Environment: IPropertySet, in Flags: IXMLFlags, in elementName: String, in elementNamespaceURI: String)

IXMLSerialize : IUnknown
- Deserialize (in data: IXMLSerializeData)
- Serialize (in data: IXMLSerializeData)

IZlibCompression : IUnknown
- BufferSize (in Size: Long): Long
- Compress (in inSize: Long, in pInBuff: BYTE, pOutSize: Long, pOutBuff: BYTE)
- CompressByLevel (in inSize: Long, in pInBuff: BYTE, in Level: Long, pOutSize: Long, pOutBuff: BYTE)
- UnCompress (in inSize: Long, in pInBuff: BYTE, pOutSize: Long, pOutBuff: BYTE)

Enumerations

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

esriArcGISVersion
0 - esriArcGISVersion83
1 - esriArcGISVersion90
1 - esriArcGISVersionCurrent

esriByteSwapDataType
0 - esriBSDTchar
1 - esriBSDTbool
2 - esriBSDTunsignedint
3 - esriBSDTBYTE
4 - esriBSDTBOOLU
5 - esriBSDTUSHORT
6 - esriBSDTSHORT
7 - esriBSDTULONG
8 - esriBSDTLONG
9 - esriBSDTULONGLONG
10 - esriBSDTLONGLONG
11 - esriBSDTFLOAT
12 - esriBSDTDOUBLE
13 - esriBSDTGUID
14 - esriBSDTWCHAR

esriCaseAppearance
0 - esriCaseAppearanceUnchanged
1 - esriCaseAppearanceUpper
2 - esriCaseAppearanceLower

esriCoreErrorReturnCodes
-2147221247 - E_NOTLICENSED

esriDrawOp
0 - esriDrawPolyPolyline
1 - esriDrawPolyPolygon
2 - esriDrawPolyline
3 - esriDrawPolygon
4 - esriDrawBeginPath
5 - esriDrawEndPath
6 - esriDrawArcCW
7 - esriDrawArcCCW
8 - esriDrawPolyBezier
9 - esriDrawRectangle
10 - esriDrawCircle
11 - esriDrawMoveTo
12 - esriDrawMultipoint
13 - esriDrawStop
14 - esriDrawTrapezoids
15 - esriDrawPolygonNoBorder
16 - esriDrawPolyPolygonNoBorder

esriDrawPhase
1 - esriDPGeography
2 - esriDPAnnotation
4 - esriDPSelection

esriExtensionState
1 - esriESEnabled
2 - esriESDisabled
4 - esriESUnavailable

esriFilePermission
1 - esriReadOnly
2 - esriReadWrite

esriFractionOptionEnum
0 - esriSpecifyFractionDigits
1 - esriSpecifyFractionDenominator

esriLicenseExtensionCode
4 - esriLicenseExtensionCodeArcPress
5 - esriLicenseExtensionCodeTIFFLZW
6 - esriLicenseExtensionCodeGeoStats
7 - esriLicenseExtensionCodeMrSID
8 - esriLicenseExtensionCodeNetwork
9 - esriLicenseExtensionCode3DAnalyst
10 - esriLicenseExtensionCodeSpatialAnalyst
12 - esriLicenseExtensionCodeStreetMap
13 - esriLicenseExtensionCodeCOGO
14 - esriLicenseExtensionCodeMLE
15 - esriLicenseExtensionCodePublisher
31 - esriLicenseExtensionCodeArcMapServer
32 - esriLicenseExtensionCodeTracking
33 - esriLicenseExtensionCodeSurvey
34 - esriLicenseExtensionCodeArcScan
35 - esriLicenseExtensionCodeBusiness
36 - esriLicenseExtensionCodeSchematics
37 - esriLicenseExtensionCodeSchematicsSDK
38 - esriLicenseExtensionCodeBaseBISData
39 - esriLicenseExtensionCodeDMTIData
40 - esriLicenseExtensionCodeAGSData
43 - esriLicenseExtensionCodeDesigner
44 - esriLicenseExtensionCodeVector
45 - esriLicenseExtensionCodeDataInteroperability
46 - esriLicenseExtensionCodeFoundation
47 - esriLicenseExtensionCodeDataReViewer
48 - esriLicenseExtensionCodeMPSAtlas
49 - esriLicenseExtensionCodeDefense
50 - esriLicenseExtensionCodeNautical
51 - esriLicenseExtensionCodeIntelAgency
52 - esriLicenseExtensionCodeMappingAgency
53 - esriLicenseExtensionCodeAeronautical

esriLicenseProductCode
10 - esriLicenseProductCodeEngine
20 - esriLicenseProductCodeEngineGeoDB
30 - esriLicenseProductCodeArcServer
40 - esriLicenseProductCodeArcView
50 - esriLicenseProductCodeArcEditor
60 - esriLicenseProductCodeArcInfo

esriLockMgrType
0 - esriLockMgrNone
1 - esriLockMgrRead
2 - esriLockMgrWrite
3 - esriLockMgrEdit
4 - esriLockMgrSchemaRead
5 - esriLockMgrSchemaWrite

esriNumericAlignmentEnum
0 - esriAlignRight
1 - esriAlignLeft

esriProductCode
90 - esriProductCodeReader
91 - esriProductCodeReaderPro
100 - esriProductCodeViewer
200 - esriProductCodeEditor
300 - esriProductCodeProfessional
4 - esriProductCodeArcPress
5 - esriProductCodeTIFFLZW
6 - esriProductCodeGeoStats
7 - esriProductCodeMrSID
8 - esriProductCodeNetwork
9 - esriProductCodeTIN
10 - esriProductCodeGrid
12 - esriProductCodeStreetMap
13 - esriProductCodeCOGO
14 - esriProductCodeMLE
15 - esriProductCodePublisher
16 - esriProductCodeAllEurope
17 - esriProductCodeAustria
18 - esriProductCodeBelgium
19 - esriProductCodeDenmark
20 - esriProductCodeFrance
21 - esriProductCodeGermany
22 - esriProductCodeItaly
23 - esriProductCodeLuxembourg
24 - esriProductCodeNetherlands
25 - esriProductCodePortugal
26 - esriProductCodeSpain
27 - esriProductCodeSweden
28 - esriProductCodeSwitzerland
29 - esriProductCodeUnitedKingdom
30 - esriProductPostCodesMajorRoads
31 - esriProductCodeArcMapServer
32 - esriProductCodeTracking
33 - esriProductCodeSurvey
34 - esriProductCodeArcScan
35 - esriProductCodeBusiness
36 - esriProductCodeSchematics
37 - esriProductCodeSchematicsSDK
38 - esriProductCodeBaseBISData
39 - esriProductCodeDMTIData
40 - esriProductCodeAGSData
43 - esriProductCodeDesigner
44 - esriProductCodeVector
45 - esriProductCodeDataInteroperability

esriProductInstalled
10 - esriProductsInstalledDesktop
20 - esriProductsInstalledEngineRuntime
30 - esriProductsInstalledReader
40 - esriProductsInstalledServerNET
50 - esriProductsInstalledServerJAVA

esriRoundingOptionEnum
0 - esriRoundNumberOfDecimals
1 - esriRoundNumberOfSignificantDigits

esriTextureCompressionType
1 - esriTextureCompressionNever
2 - esriTextureCompressionNone
3 - esriTextureCompressionJPEG

esriUnits
0 - esriUnknownUnits
1 - esriInches
2 - esriPoints
3 - esriFeet
4 - esriYards
5 - esriMiles
6 - esriNauticalMiles
7 - esriMillimeters
8 - esriCentimeters
9 - esriMeters
10 - esriKilometers
11 - esriDecimalDegrees
12 - esriDecimeters

xmlSerializeError
-2147209115 - XML_SERIALIZE_E_UNKNOWN
-2147209114 - XML_SERIALIZE_E_INVALIDENUMVALUE
-2147209113 - XML_SERIALIZE_E_CONVFAILED

esriDirectionFormatEnum
0 - esriDFDegreesMinutesSeconds
1 - esriDFQuadrantBearing

esriDirectionType
1 - esriDTNorthAzimuth
2 - esriDTSouthAzimuth
3 - esriDTPolar
4 - esriDTQuadrantBearing

esriDirectionUnits
9101 - esriDURadians
2 - esriDUDecimalDegrees
3 - esriDUDegreesMinutesSeconds
9105 - esriDUGradians
9106 - esriDUGons