

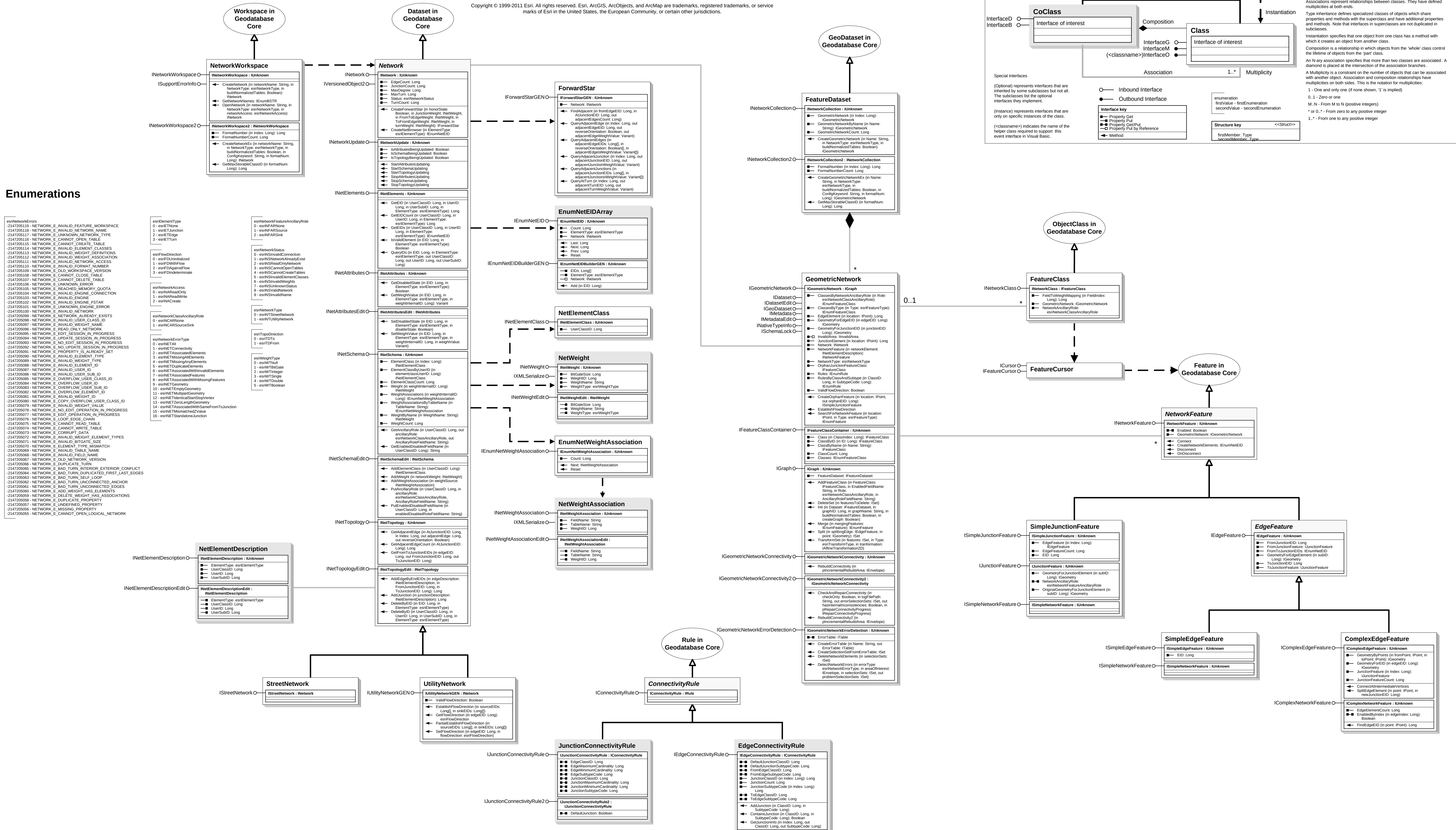


Geodatabase Object Model

Geometric Network

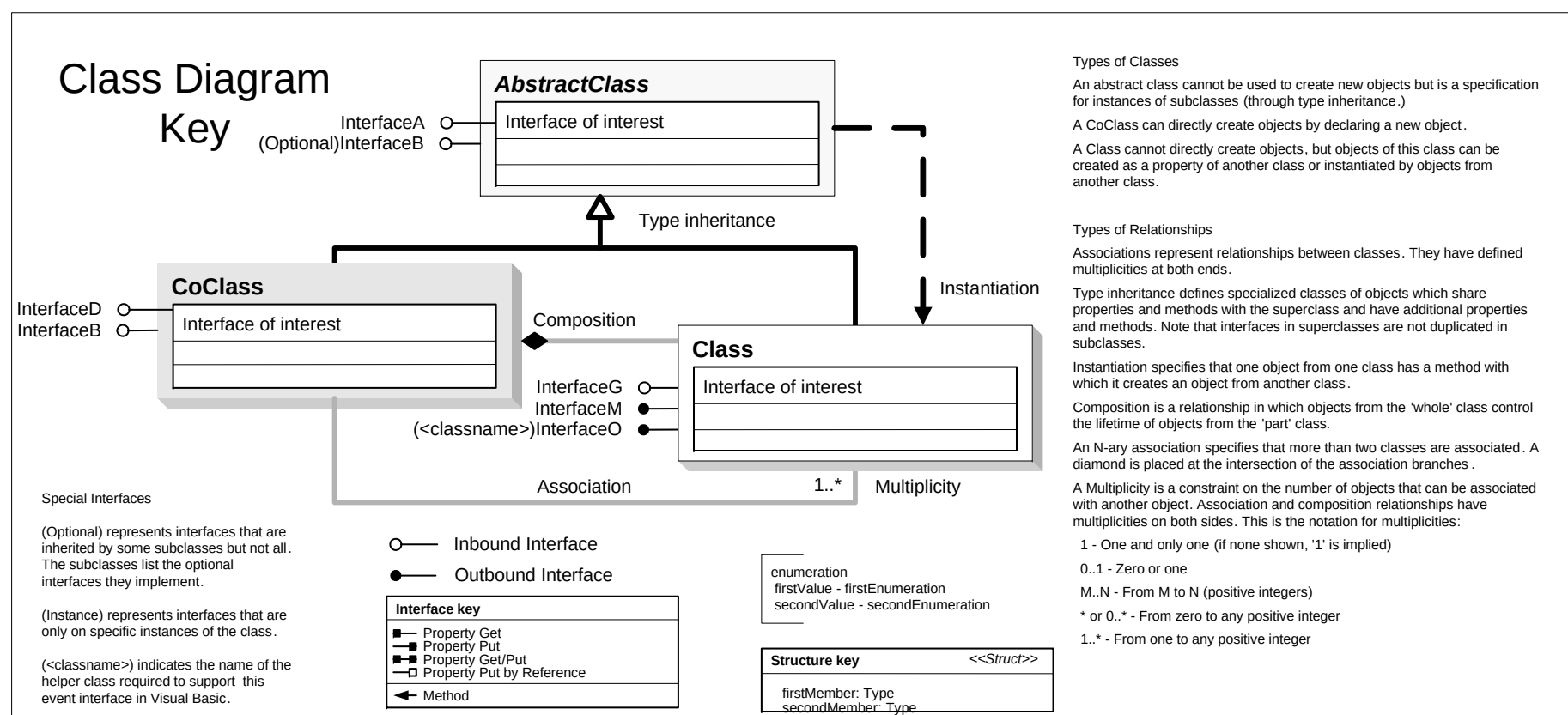
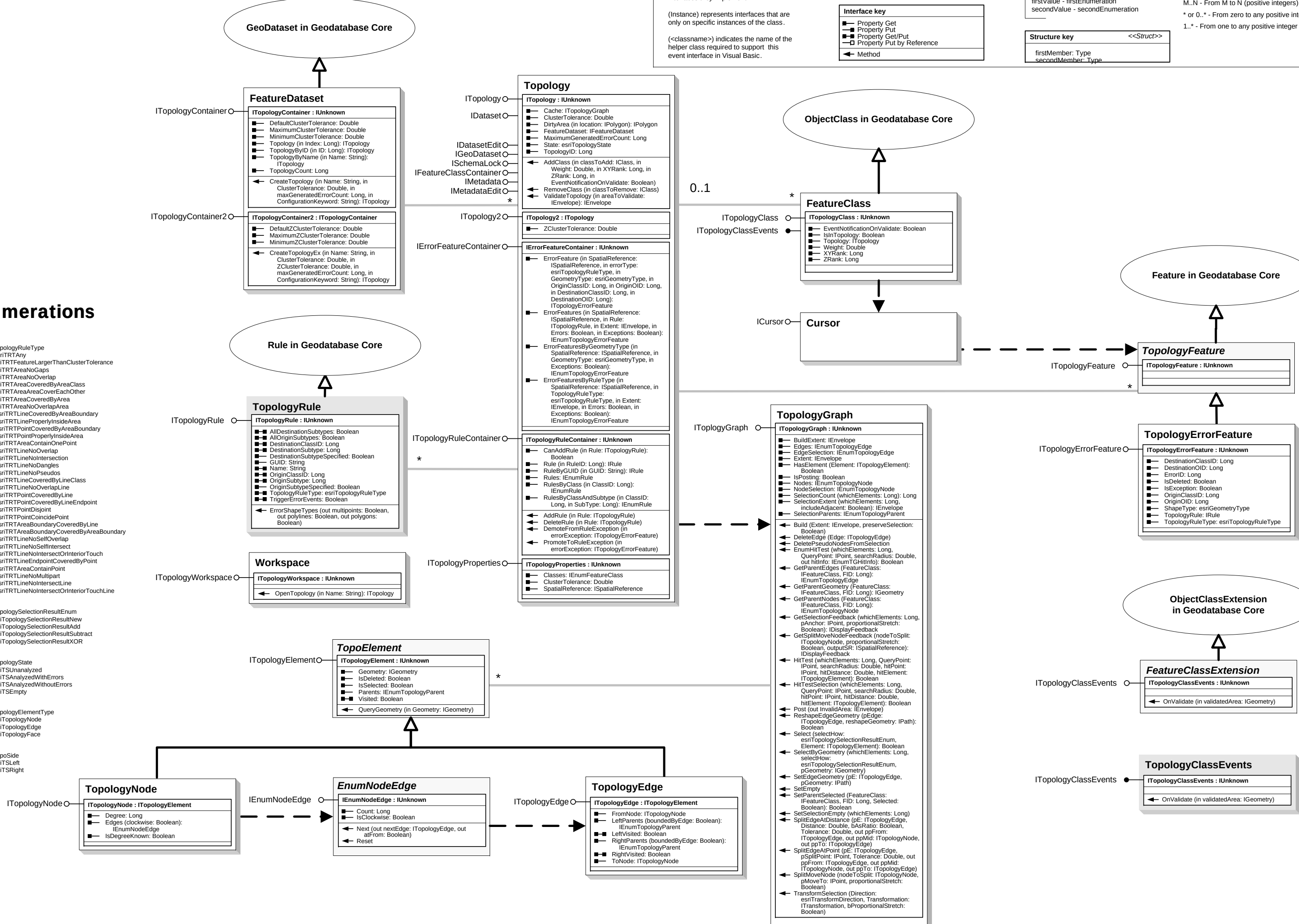
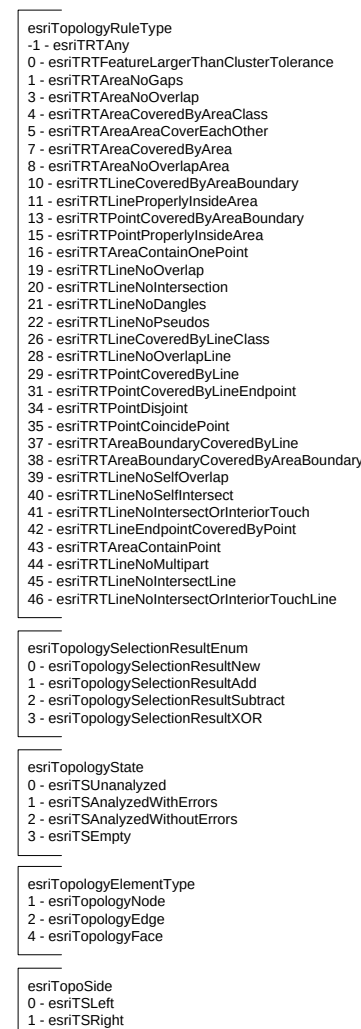
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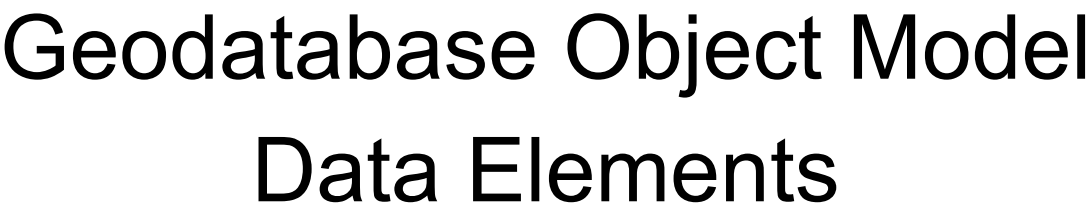
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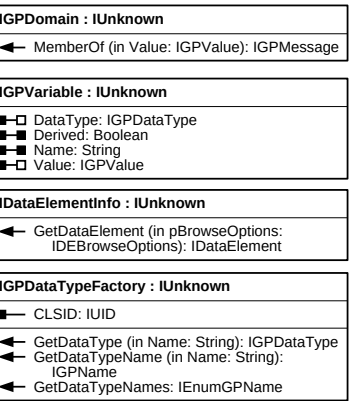




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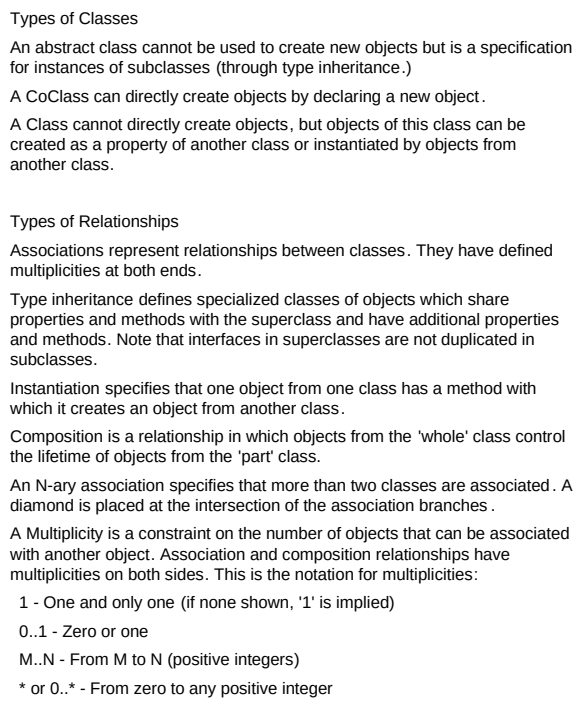


Interfaces



Tin

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Geodatabase Object Model

Data Transfer

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DataConverter Objects



Enumerations

esriDataConverterError

- 0 - S_DATACONVERTER_OK
- 513 - E_DATACONVERTER_OPENFEATURECLASSFAILED
- 514 - E_DATACONVERTER_OPENTABLEFAILED
- 515 - E_DATACONVERTER_OPENFEATUREDATASETFAILED
- 516 - E_DATACONVERTER_OPENFEATUREWORKSPACEFAILED
- 517 - E_DATACONVERTER_CREATEFEATURECLASSFAILED
- 518 - E_DATACONVERTER_CREATETABLEFAILED
- 519 - E_DATACONVERTER_WRITEFEATURESFAILED
- 520 - E_DATACONVERTER_WRITEFEATURESFAILED
- 521 - E_DATACONVERTER_UNLOADFAILED
- 522 - E_DATACONVERTER_OPENCursorsFAILED
- 523 - E_DATACONVERTER_OPENINSERTCursorsFAILED
- 524 - E_DATACONVERTER_INSERTCursorsFAILED
- 525 - E_DATACONVERTER_CANCELLED
- 526 - E_DATACONVERTER_MATCHINPUTFIELDSETFAILED
- 527 - E_DATACONVERTER_FLUSHINSERTCursorsFAILED
- 528 - E_DATACONVERTER_ACQUIRESchemaLOCKFAILED
- 529 - E_DATACONVERTER_INVALID_INPUT_DATASET_NAME
- 530 - E_DATACONVERTER_CANNOT_CREATE_FEATURE_DATASET
- 531 - E_DATACONVERTER_ERROR_READ_ROWS
- 532 - E_DATACONVERTER_ERROR_READ_ALL_ROWS

esriFieldNameErrorType

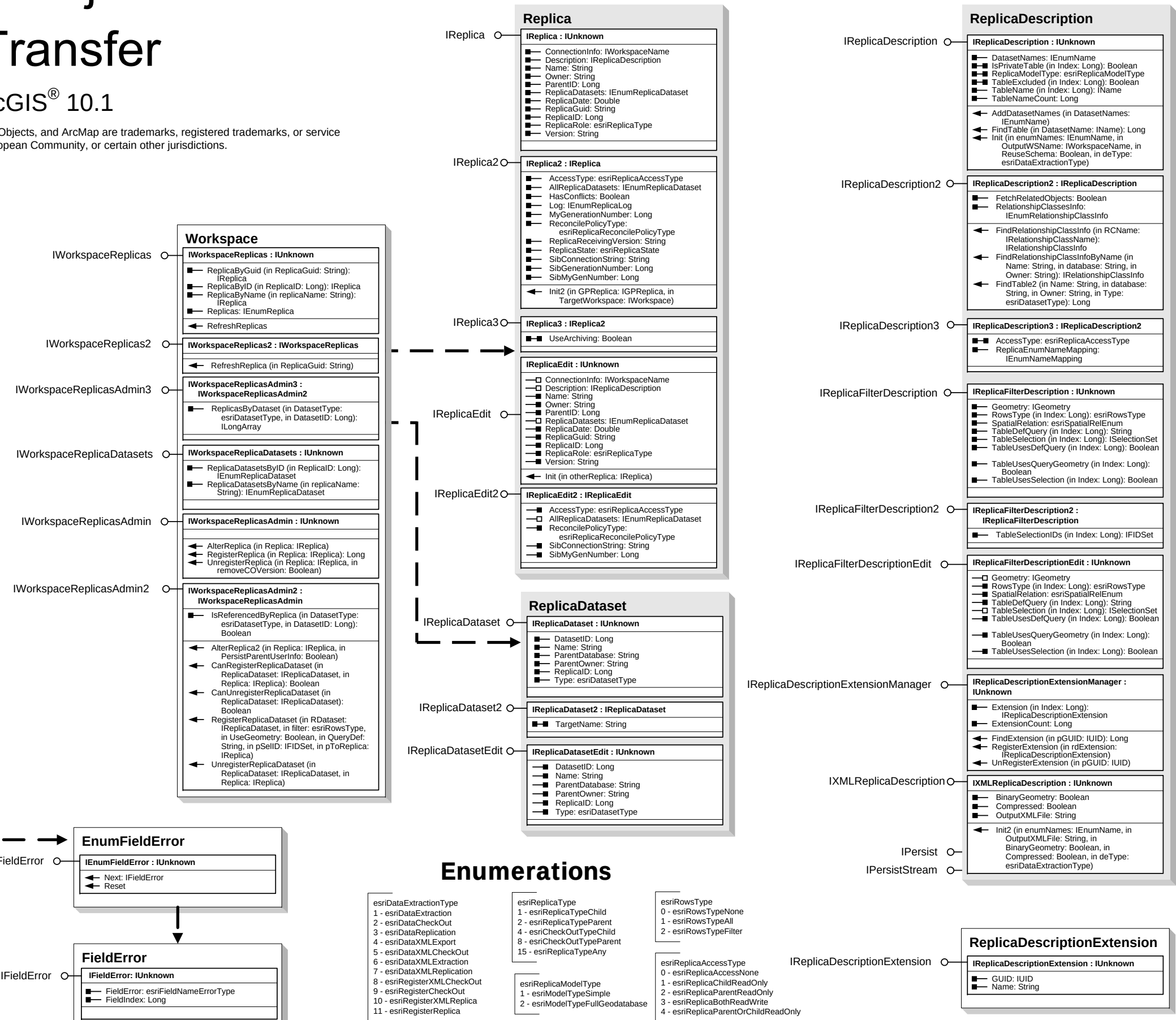
- 0 - esriNoFieldNameError
- 1 - esriSQLReservedWord
- 2 - esriDuplicateFieldName
- 3 - esriInvalidCharacter
- 4 - esriInvalidFieldNameLength

Interfaces

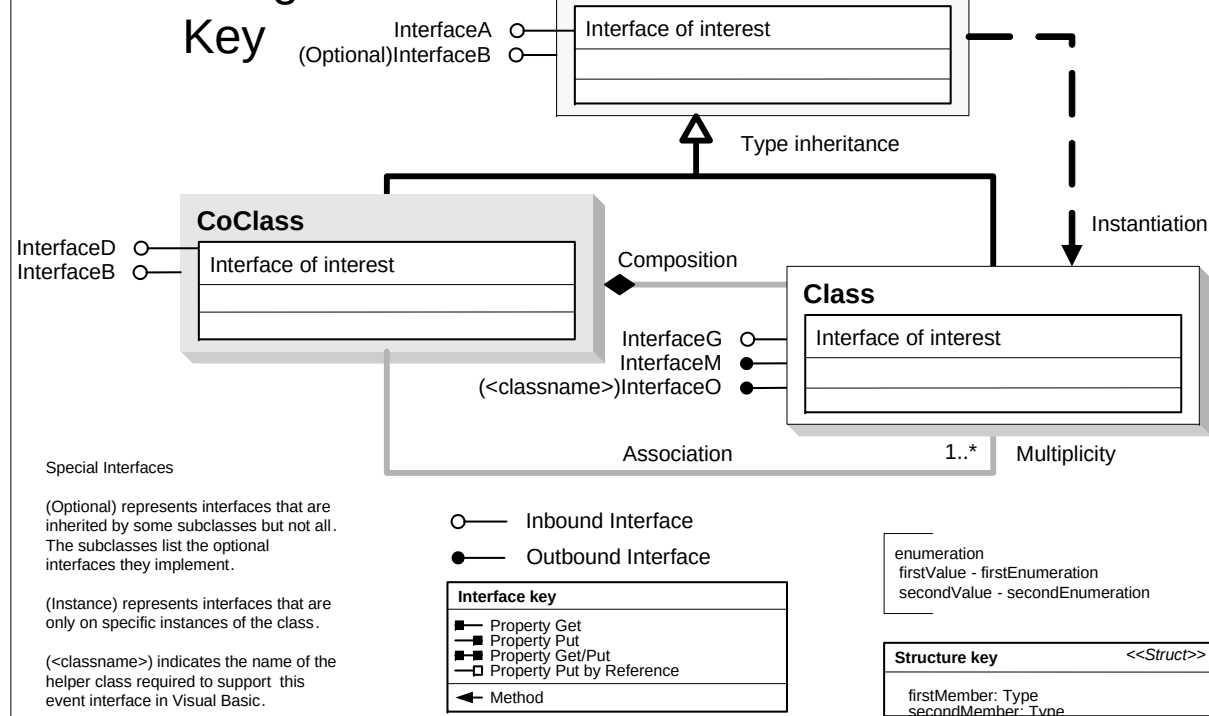
ISqlKeywordDictionary : IUnknown

- Count: Long
- Name: String
- Add (in reservedWord: String)
- FindKeyword (in keyword: String): Boolean
- Remove (in reservedWord: String)
- Reset

Distributed Geodatabase Core Objects



Class Diagram



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:

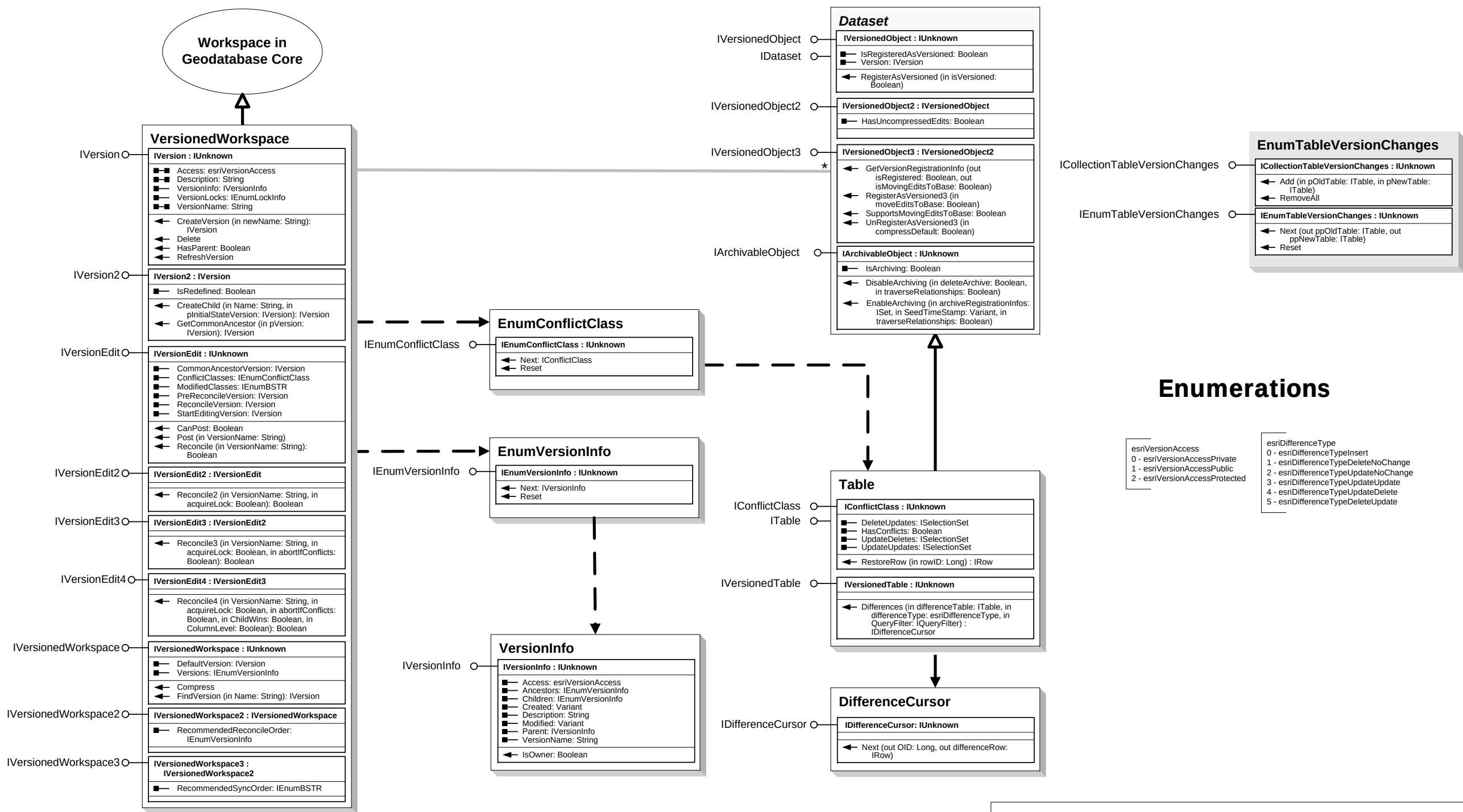
- 1 - One and only one (if none shown, '1' is implied)
- 0..1 - Zero or one
- M..N - From M to N (positive integers)
- * or 0..* - From zero to any positive integer
- 1..* - From one to any positive integer

Geodatabase Object Model

Versioning

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Enumerations

esriVersionAccess
0 - esriVersionAccessPrivate
1 - esriVersionAccessPublic
2 - esriVersionAccessProtected

esriDifferenceType
0 - esriDifferenceTypeInsert
1 - esriDifferenceTypeDeleteNoChange
2 - esriDifferenceTypeUpdateNoChange
3 - esriDifferenceTypeUpdateUpdate
4 - esriDifferenceTypeUpdateDelete
5 - esriDifferenceTypeDeleteUpdate

Class Diagram

Key

(Optional)InterfaceB

InterfaceA

Interface of interest

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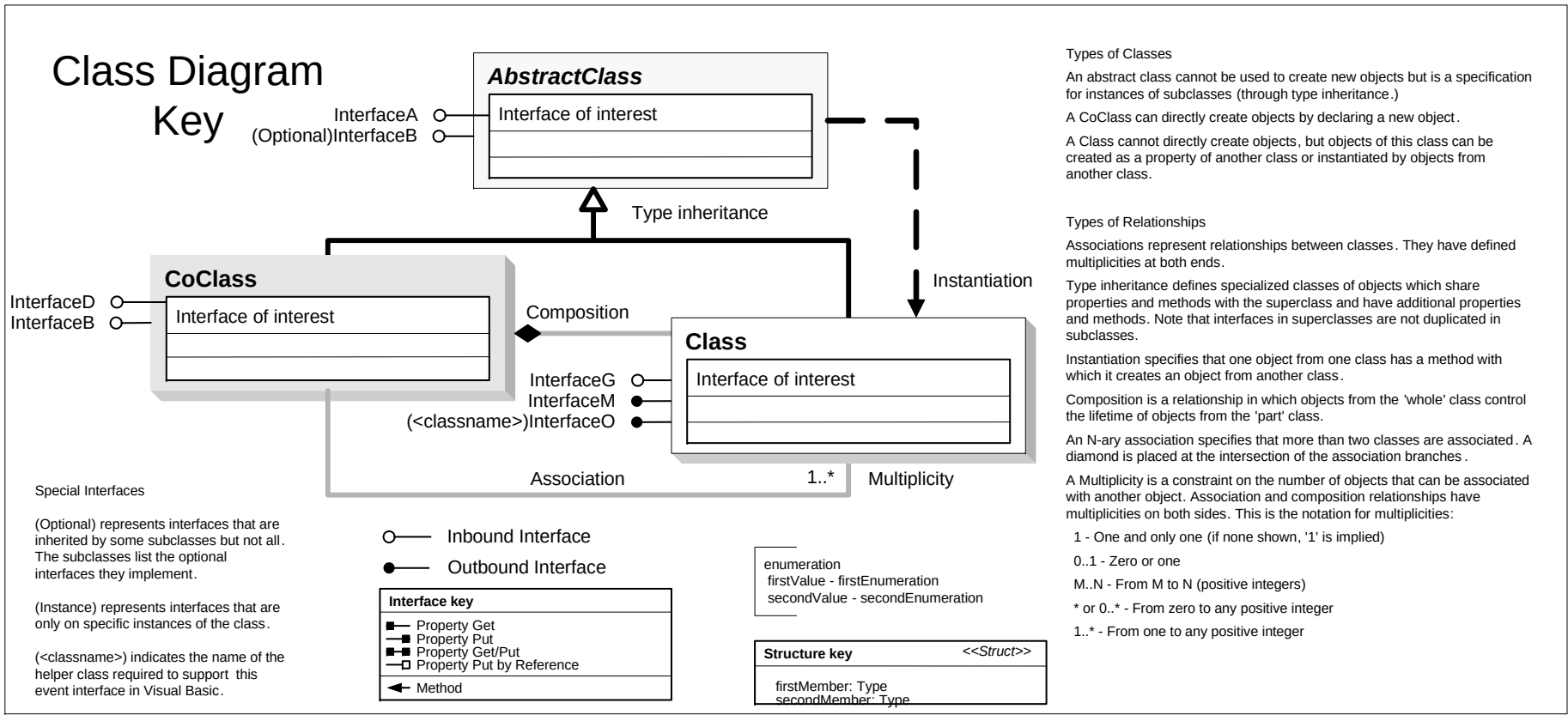
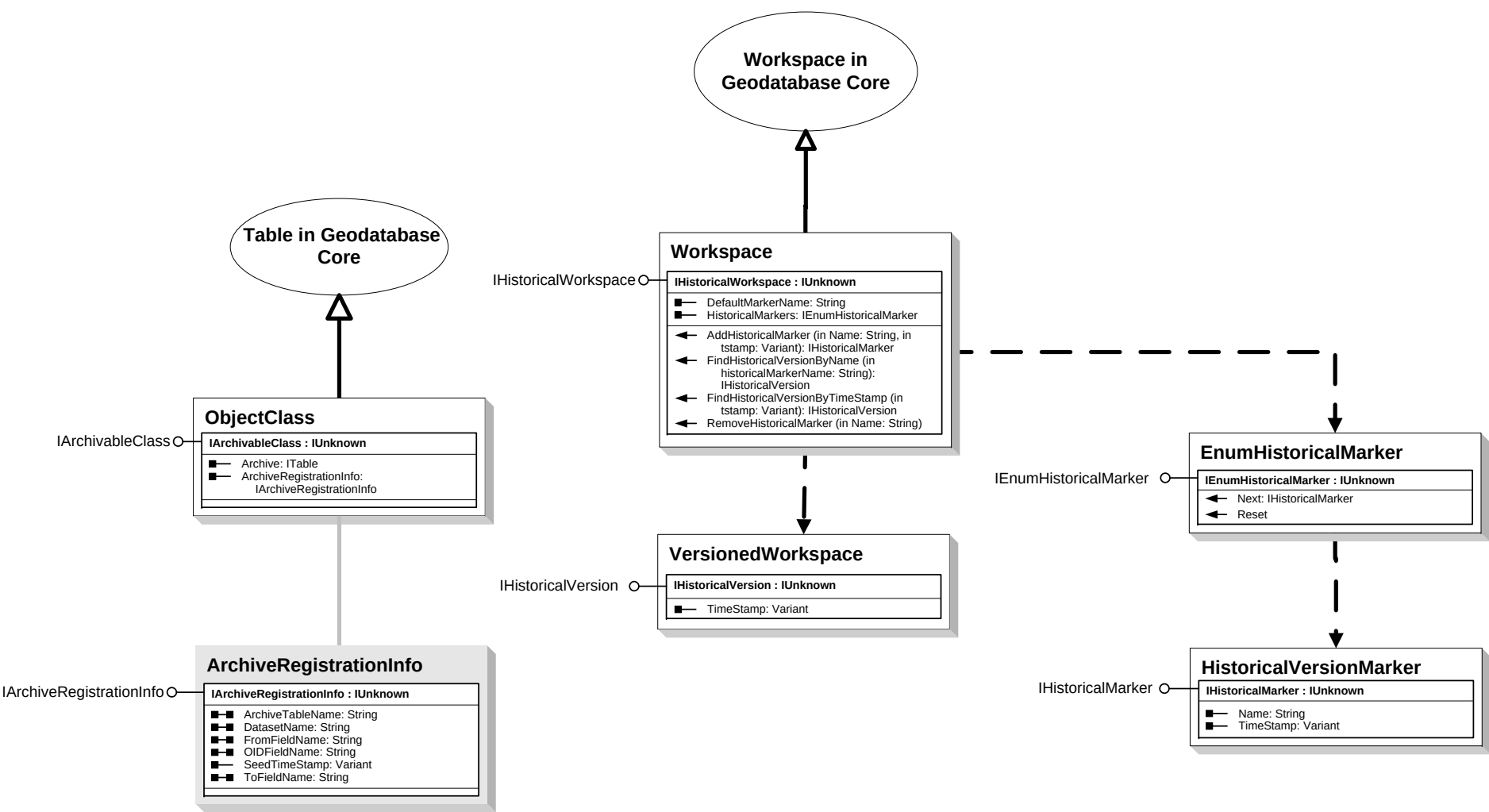
Interface of interest

Geodatabase Object Model

Archiving

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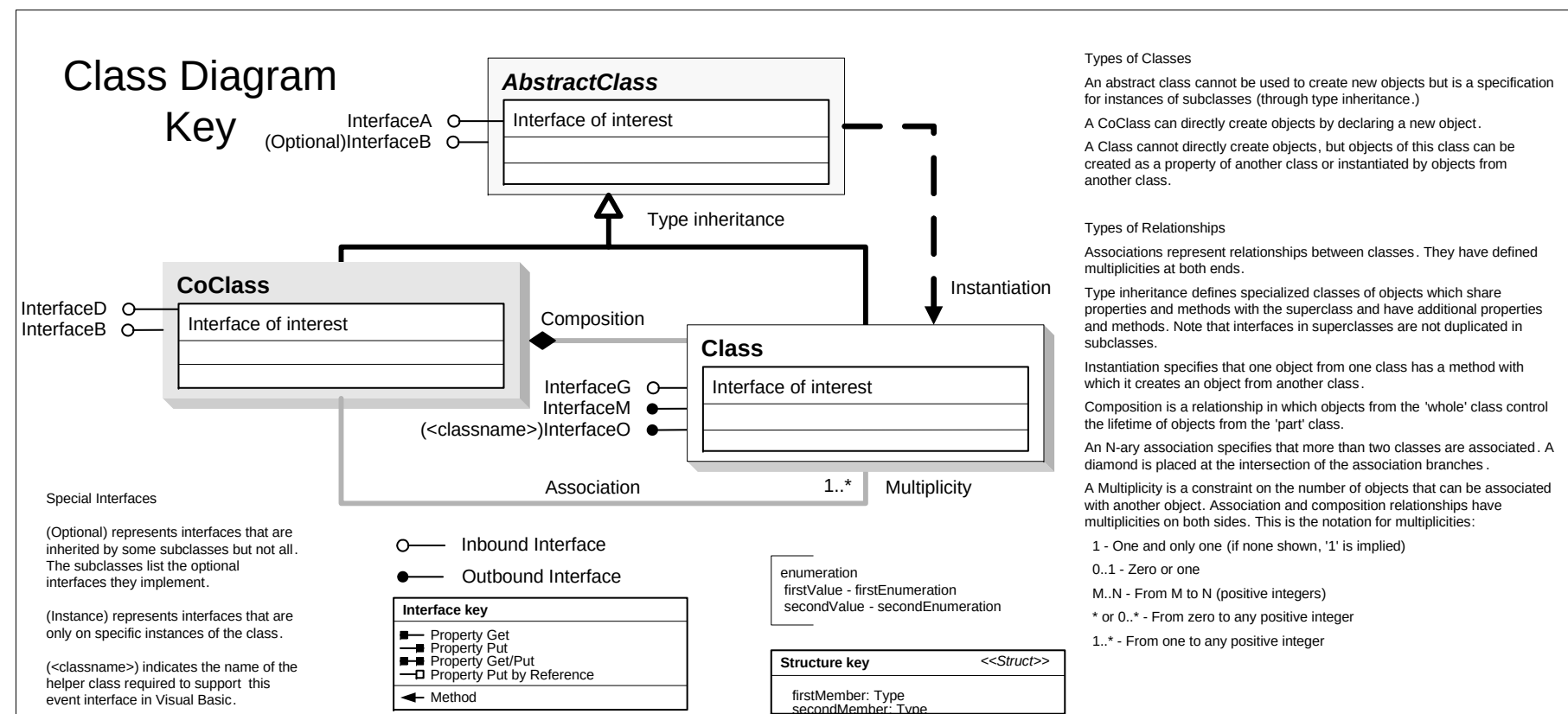
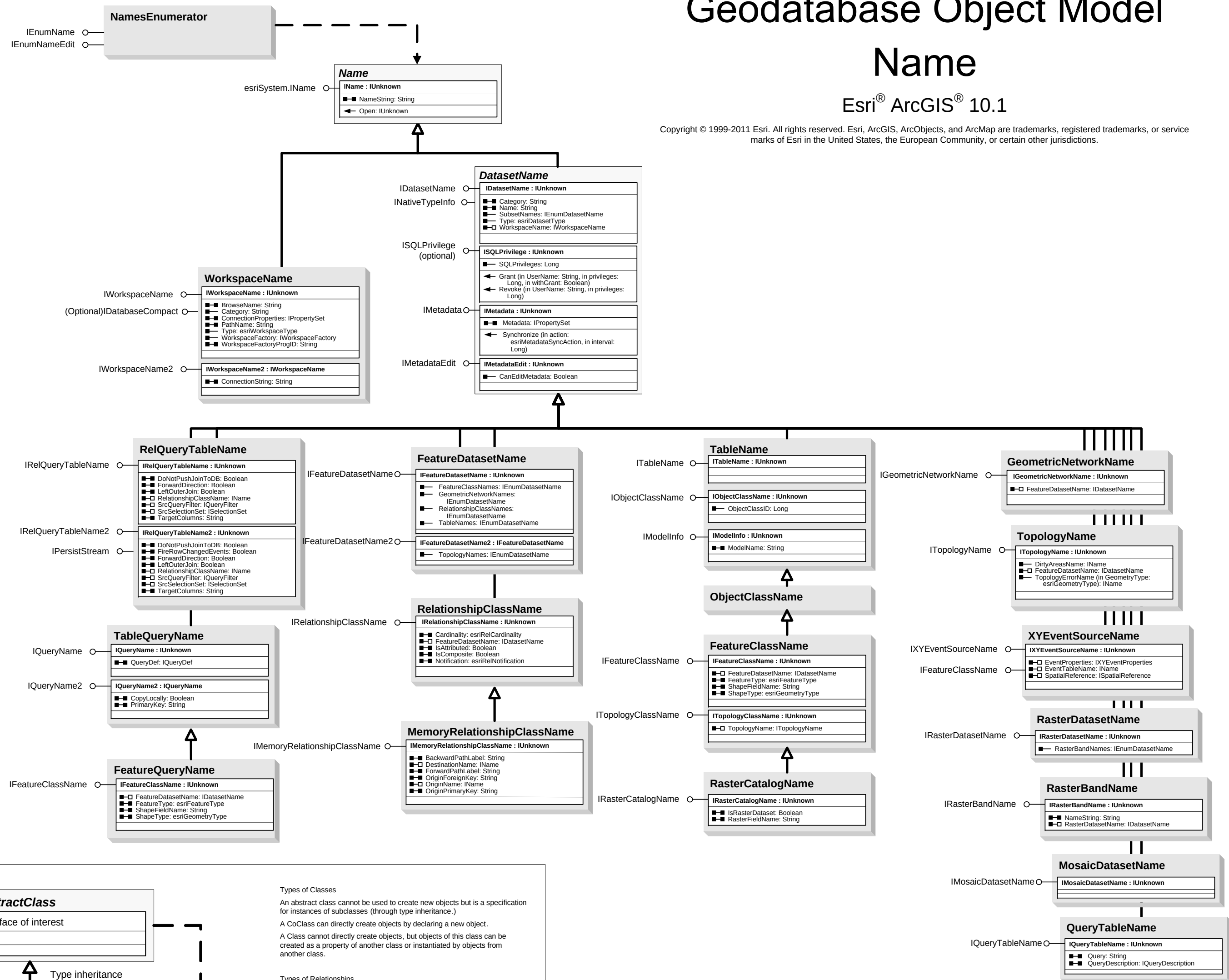


Geodatabase Object Model

Name

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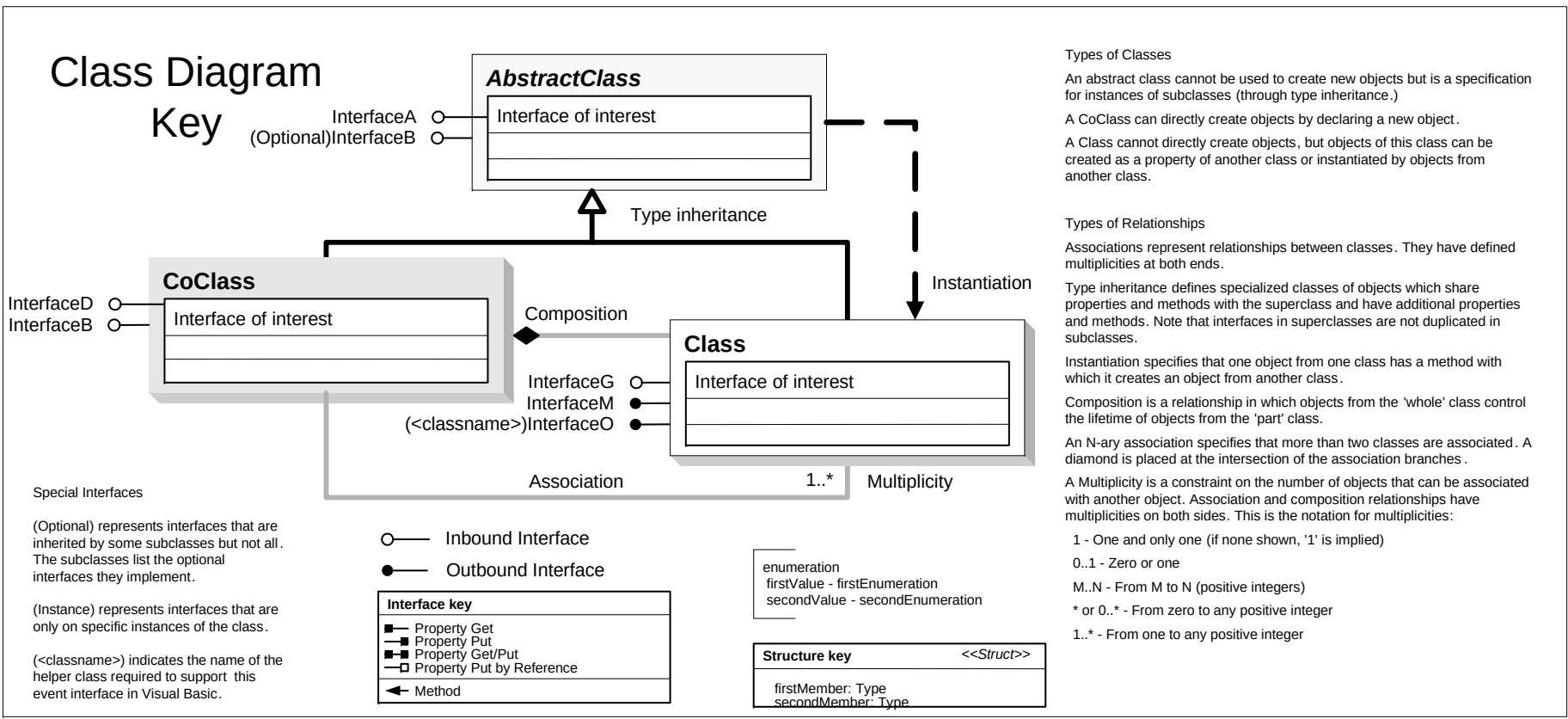
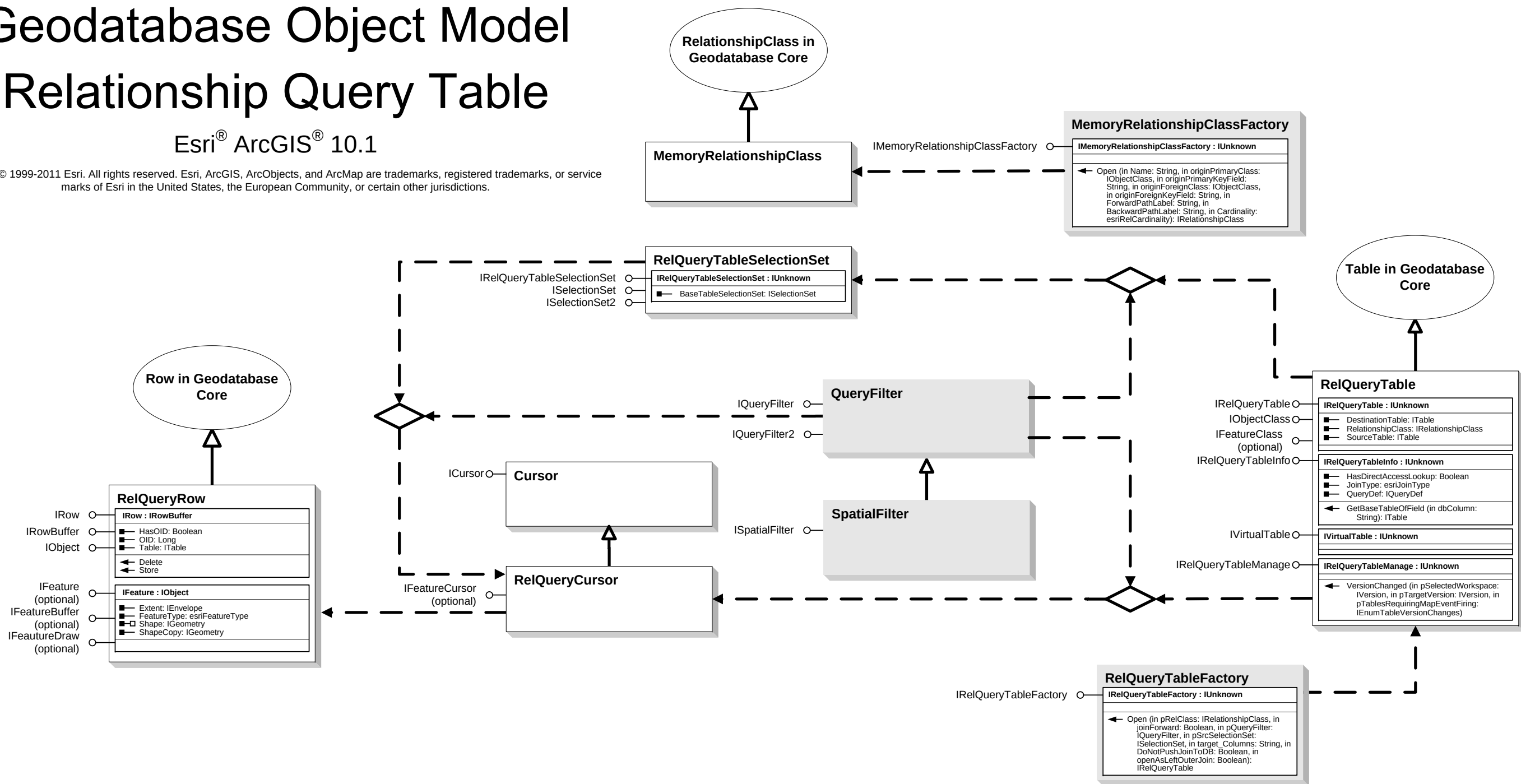


Geodatabase Object Model

Relationship Query Table

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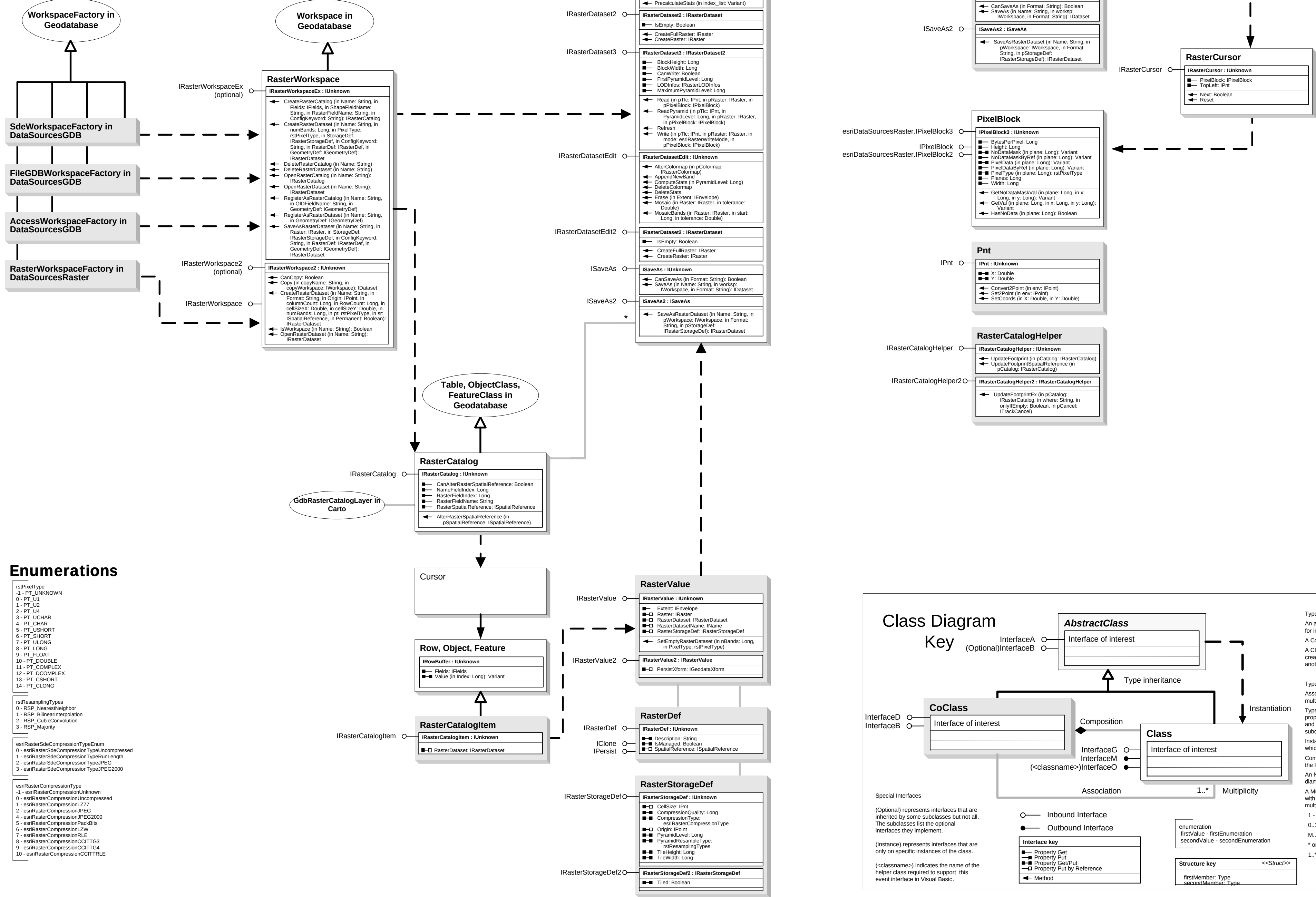


Geodatabase Object Model

Raster

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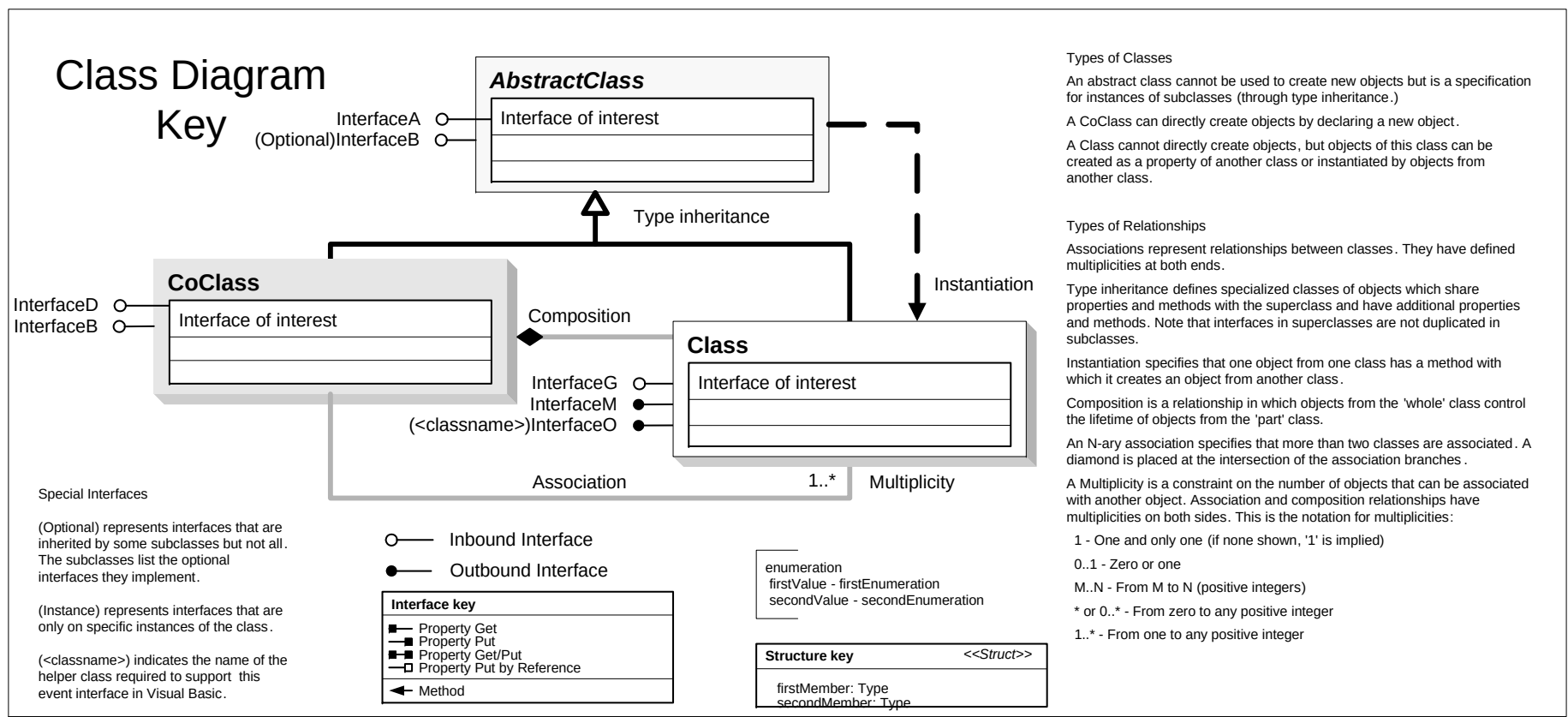
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[illegible]

esriXmlPropertyType
0 - esriXPTText
1 - esriXPTBinaryEnclosure
2 - esriXPTLink
3 - esriXPTPicture
4 - esriXPTImage

- esriXmlSetPropertyAction
- 0 - esriXSPAAddOrReplace
- 1 - esriXSPAAddIfNotExists
- 2 - esriXSPAReplaceIfExists
- 3 - esriXSPAAddDuplicate

```
esriMetadataSyncAction
0 - esriMSAAccessed
1 - esriMSAAlways
2 - esriMSACreated
3 - esriMSANotCreated
4 - esriMSAOverwrite
```



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Structs

```

tagFieldValue <<STRUCT>>
  m_length Unsigned Long
  m_status Unsigned Long
  m_value Variant
  
```

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 of the "whole" class control the lifetime of objects from the "part" class.

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- 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

Multiplicity

```

multiplicity
  firstValue - firstEnumeration
  secondValue - secondEnumeration
  
```

Workspace in Geodatabase Core

PluginNativeType

- NativeType : Unknown
- TypeID : GUID
- Description : String

PluginWorkspaceHelper

- DatabaseNames (in DatasetType: esriDatasetType, esriDatasetType, Alias)
 - NativeType (in DatasetType: esriDatasetType, esriDatasetType, Alias) : String
 - RowCount : Boolean
 - RowCount : Boolean
 - OpenDataset (in localName: String) : PluginDatasetHelper
- PluginWorkspaceHelper2 : Unknown
 - CanAddIndex : Boolean
 - CanDeleteIndex : Boolean
 - CanReadOnly : Boolean
- PluginLicense : Unknown
 - AddLicenseRef : Boolean
 - CheckExistentLicense : Boolean
 - ReleaseLicenseRef : Boolean
- PluginMetadata : Unknown
 - CanGetMetadata : Boolean
 - Metadata (in localName: String) : PropertySet
- PluginMetadataPath : Unknown
 - MetadataPath (in localName: String) : String

FeatureDataset in Geodatabase Core

Table in Geodatabase Core

Cursor in Geodatabase Core

IPluginWorkspaceHelper

- DatabaseNames (in DatasetType: esriDatasetType, esriDatasetType, Alias)
 - NativeType (in DatasetType: esriDatasetType, esriDatasetType, Alias) : String
 - RowCount : Boolean
 - RowCount : Boolean
 - OpenDataset (in localName: String) : PluginDatasetHelper
- PluginWorkspaceHelper2 : Unknown
 - CanAddIndex : Boolean
 - CanDeleteIndex : Boolean
 - CanReadOnly : Boolean
- PluginLicense : Unknown
 - AddLicenseRef : Boolean
 - CheckExistentLicense : Boolean
 - ReleaseLicenseRef : Boolean
- PluginMetadata : Unknown
 - CanGetMetadata : Boolean
 - Metadata (in localName: String) : PropertySet
- PluginMetadataPath : Unknown
 - MetadataPath (in localName: String) : String

IPluginDatasetHelper

- Bounds : Envelope
- ClassCount : Long
- ClassName (in Name: String) : Long
- ClassName (in Index: Long) : String
- Fields (in ClassIndex: Long) : Fields
- OIDFieldIndex (in ClassIndex: Long) : Long
- ShapeFieldIndex (in ClassIndex: Long) : Long
- FetchAll (in ClassIndex: Long, in WhereClause: String, in FieldMap: Variant, in PluginCursorHelper : PluginCursorHelper) : Boolean
- FetchByEnvelope (in ClassIndex: Long, in env: Envelope, in SearchSearch : Boolean, in WhereClause: String, in FieldMap: Variant, in PluginCursorHelper : PluginCursorHelper) : Boolean
- FetchByID (in ClassIndex: Long, in ID: Long, in FieldMap: Variant, in PluginCursorHelper : PluginCursorHelper) : Boolean

IPluginDatasetInfo

- PluginDatasetInfo : Unknown
 - DatasetType : esriDatasetType
 - GeometryType : esriGeometryType
 - LocalDatasetName : String
 - SourceDatasetName : String

IPluginFileOperations

- PluginFileOperations : Unknown
 - CanCopy : Boolean
 - CanDelete : Boolean
 - CanMove : Boolean
 - Copy (in copyName: String, in CopyWorkspace: Workspace) : Boolean
 - Delete (in Name: String) : String
 - Rename (in Name: String) : String

IPluginFileOperationsClass

- PluginFileOperationsClass : Unknown
 - CanCopy (in ClassIndex: Long) : Boolean
 - CanDelete (in ClassIndex: Long) : Boolean
 - CanRename (in ClassIndex: Long) : Boolean
 - Copy (in ClassIndex: Long, in copyName: String, in CopyWorkspace: Workspace) : Boolean
 - Delete (in ClassIndex: Long, in Name: String) : String
 - Rename (in ClassIndex: Long, in Name: String) : String

IPluginFileSystemDataset

- PluginFileSystemDataset : Unknown
 - FullPath : String
 - Size : Long

IPluginIndexInfo

- PluginIndexInfo : Unknown
 - Indexes (in ClassIndex: Long) : Indexes

IPluginIndexManager

- PluginIndexManager : Unknown
 - AddIndex (in ClassIndex: Long, in Index: Index) : Boolean
 - DeleteIndex (in ClassIndex: Long, in Index: Index) : Boolean

IPluginLicense

- PluginLicense : Unknown
 - AddLicenseRef : Boolean
 - CheckExistentLicense : Boolean
 - ReleaseLicenseRef : Boolean

IPluginRowCount

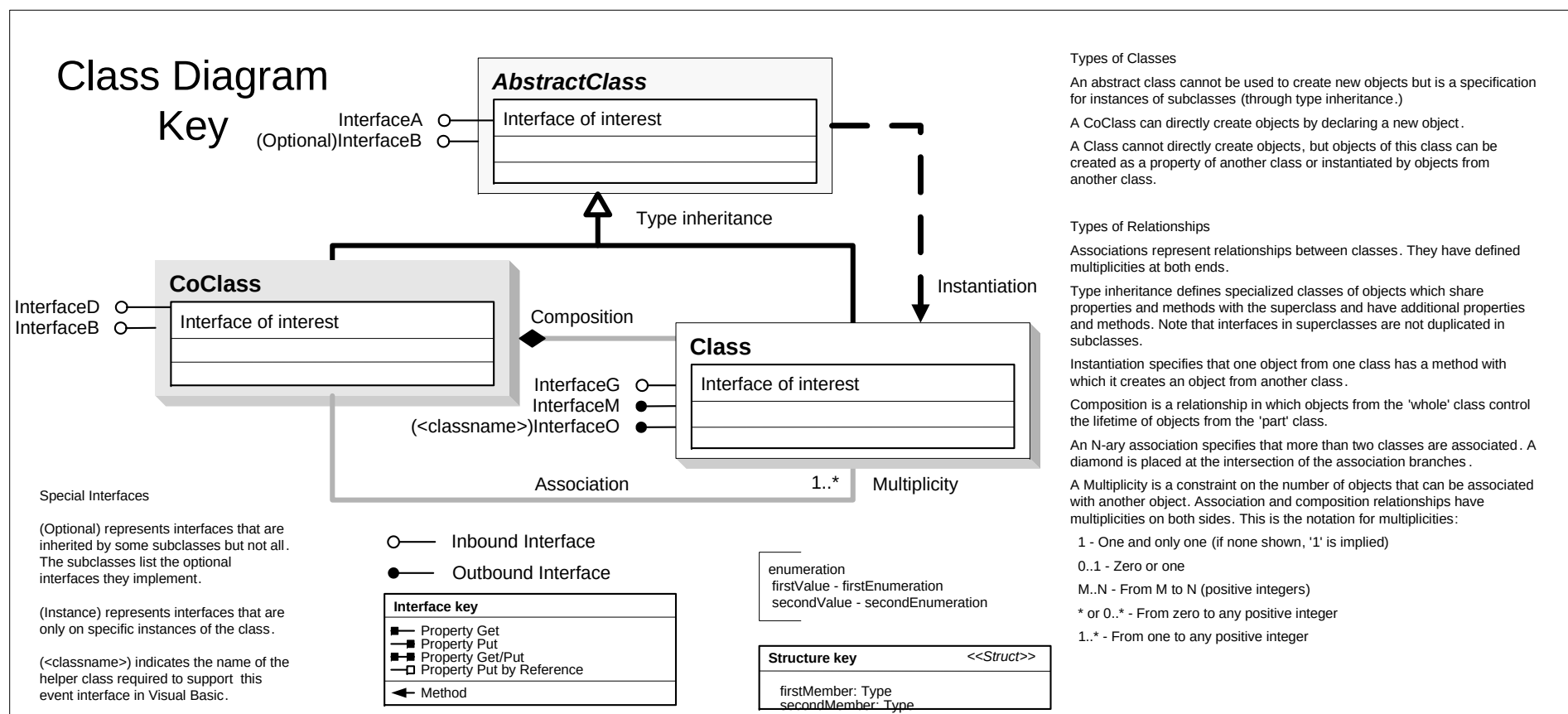
- PluginRowCount : Unknown
 - RowCount (in Index: Long) : Long

IPluginCursorHelper

- PluginCursorHelper : Unknown
 - CanAddIndex : Boolean
 - CanDeleteIndex : Boolean
 - CanReadOnly : Boolean
 - QueryValues (in Row: IRowBuffer) : Long

IPluginFastQueryValues

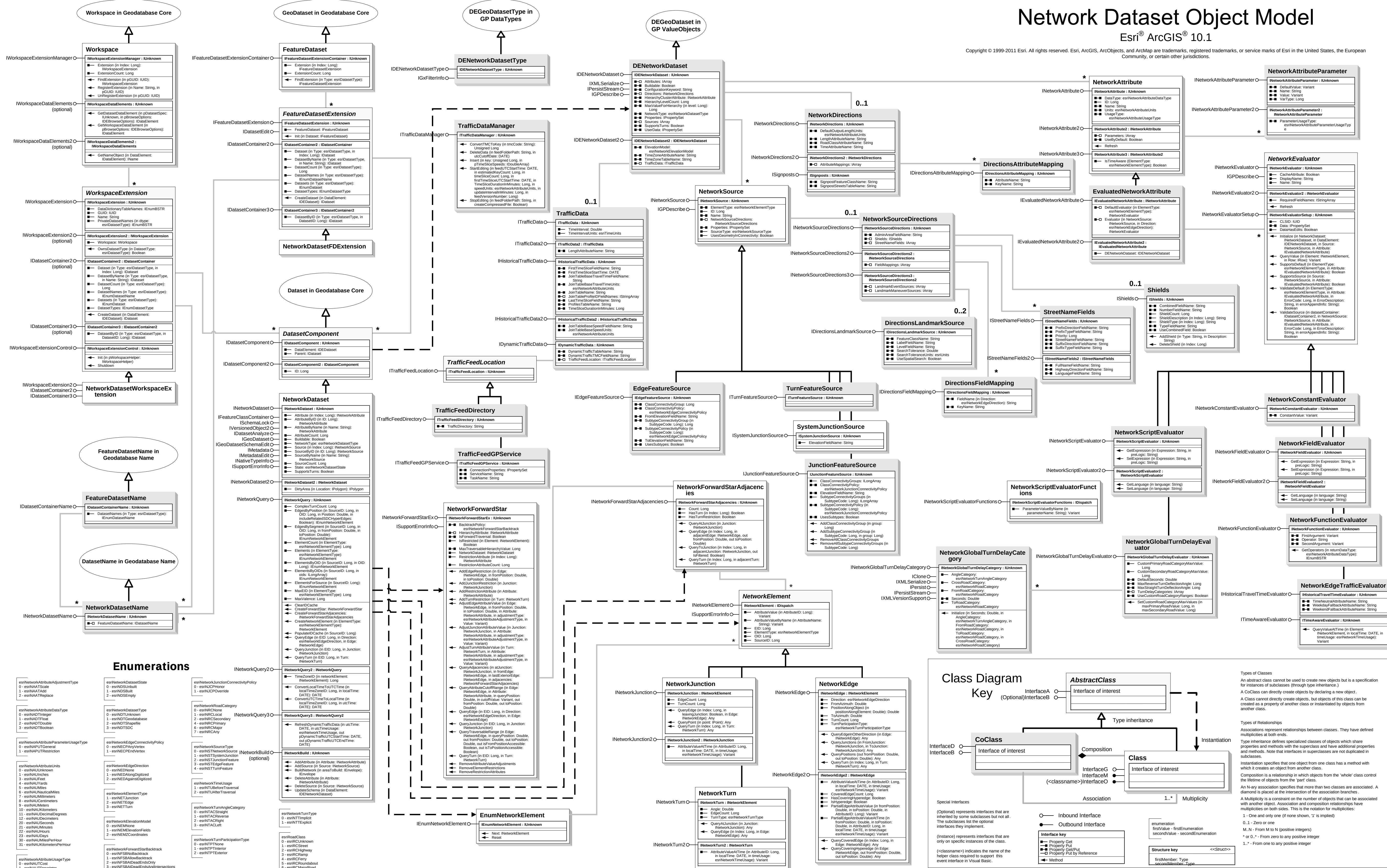
- PluginFastQueryValues : Unknown
 - FastQueryValues (in values: FieldValue) : Boolean



Network Dataset Object Model

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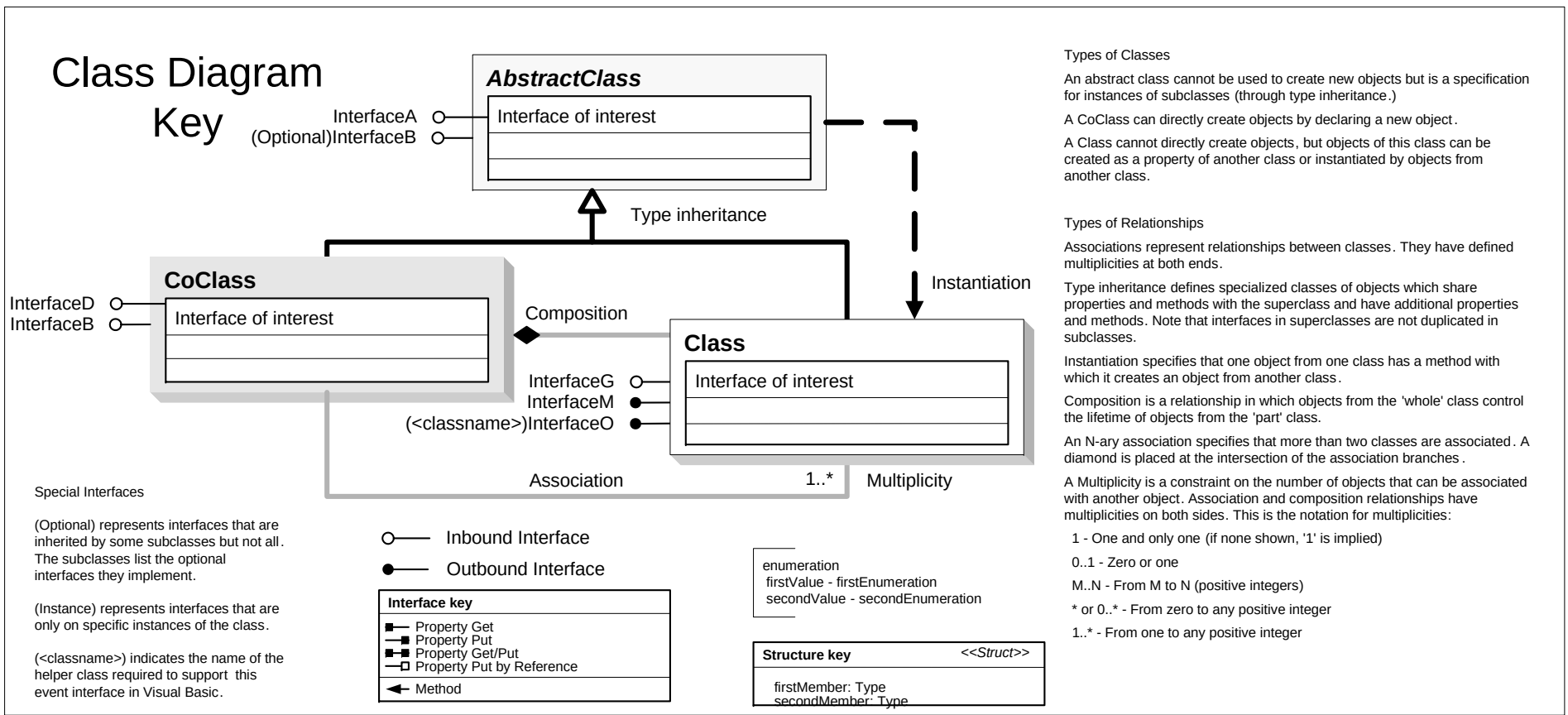
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[illegible]

```

#RepresentationError
-2147216867 - REP_E_INVALID_REP_RULE_ID
-2147216868 - REP_E_REP_RULE_ID_ALREADY_EXISTS
-2147216869 - REP_E_REP_CLASS_NOT_FOUND
-2147216870 - REP_E_IS_FREE_GRAPHICS
-2147216871 - REP_E_REP_USES_REP_RULE
-2147216872 - REP_E_CANT_LOCK_ACCESS
-2147216873 - REP_E_OBJECT_IS_DELETED
-2147216874 - REP_E_NO_REP_RULES
-2147216875 - REP_E_WORKSPACE_DOESNT_SUPPORT_REP_EXTENSION
-2147216876 - REP_E_FEATURE_ID_NOT_SUPPORTED
-2147216877 - REP_E_GEODATABASE_DOESNT_SUPPORT REPRESENTATIONS
-2147216878 - REP_E_NO_SYSTEM_TABLES
-2147216879 - REP_E_REP_CLASS_DOESNT_HAVE ANY EXISTS
-214721687A - REP_E_FIELD_NAME_ALREADY_EXISTS
-214721687B - REP_E_NAME_HAS_INVALID_CHARACTERS
-214721687C - REP_E MUST BE THE_OWNER
-214721687D - REP_E_INVALID_INDEX
-214721687E - REP_E COMPRESSED FEATURE CLASS

```



Query Classes

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