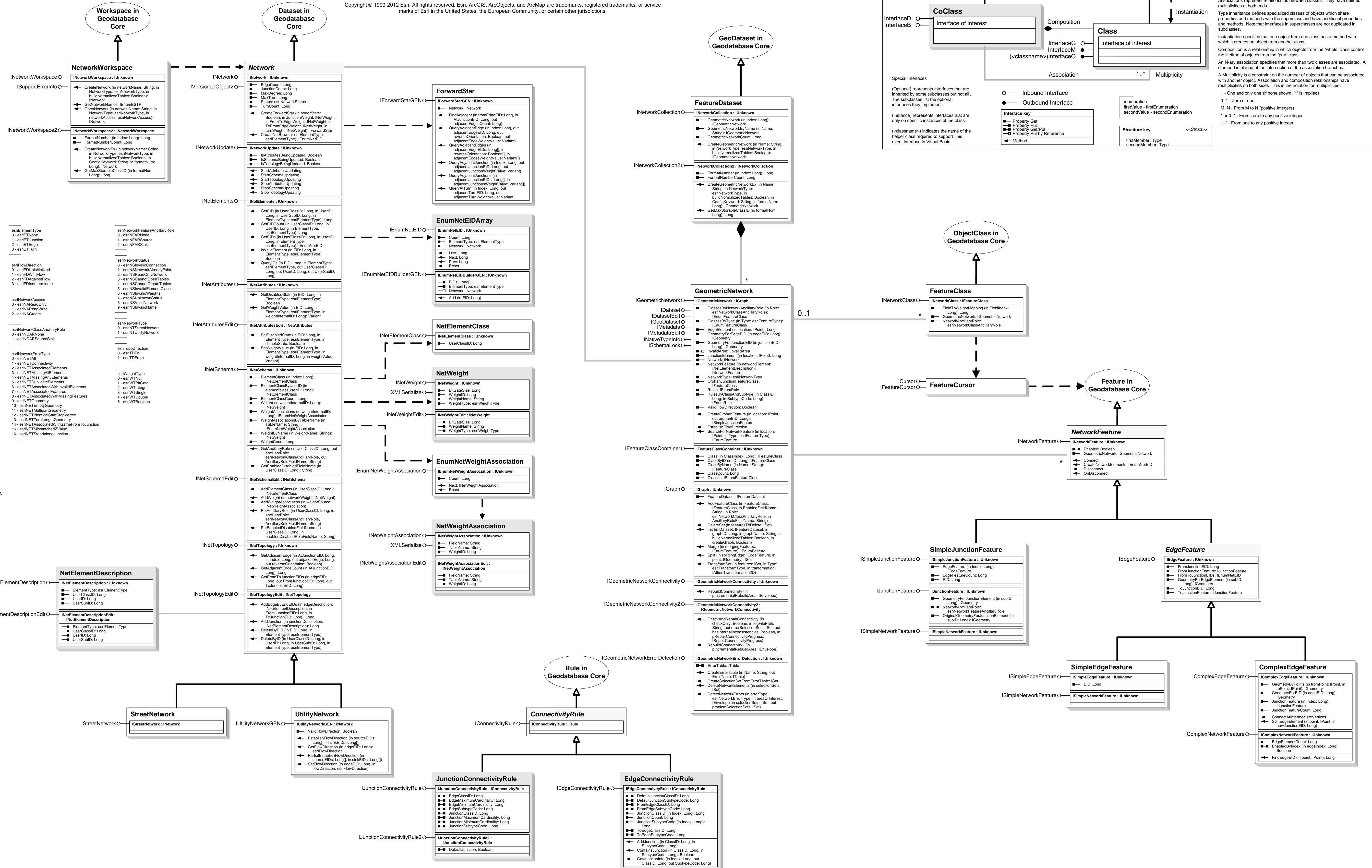




# Geodatabase Object Model Geometric Network

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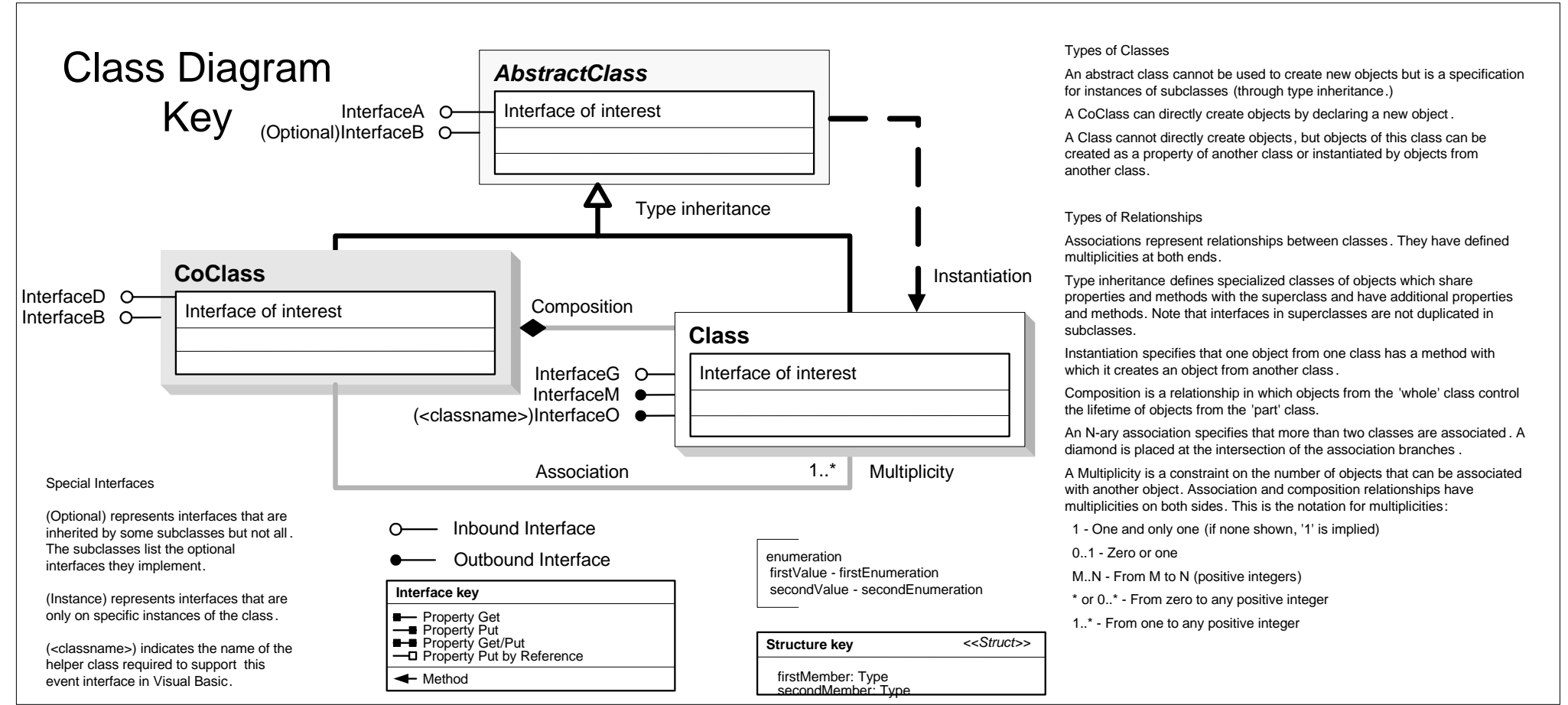


# Geodatabase Object Model

## Topology

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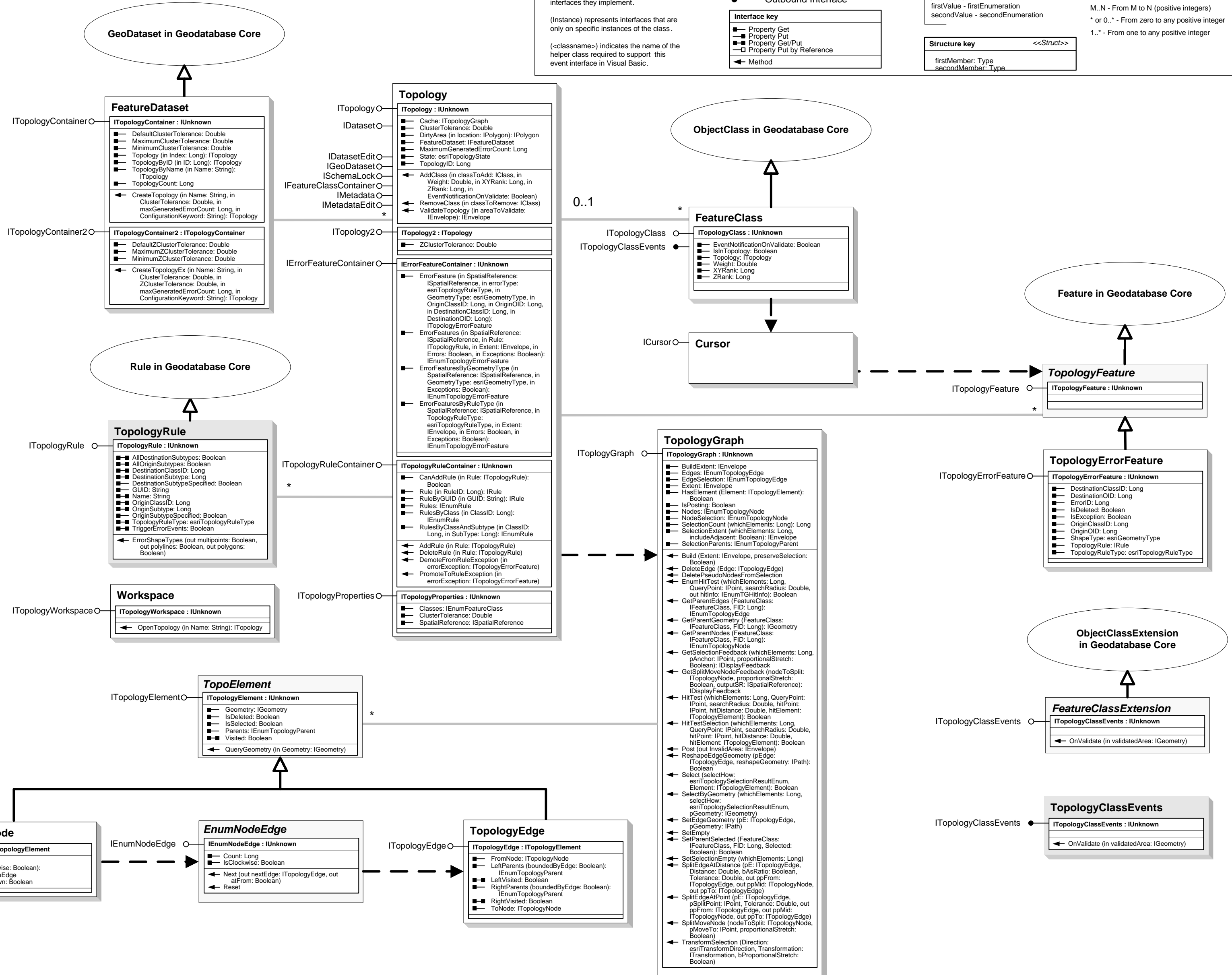
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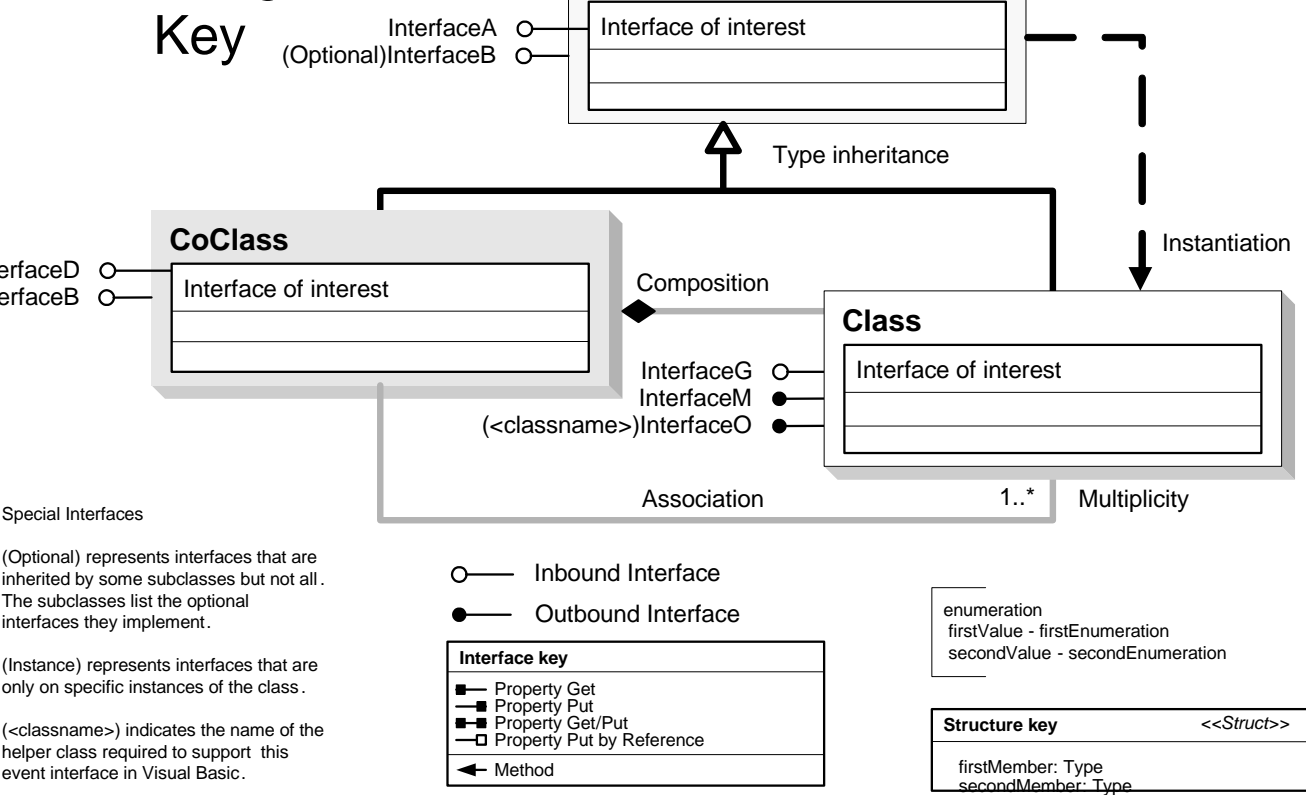
### Enumerations

- esriTopologyRuleType**
- 1 - esriTRAny
  - 0 - esriTRFeatureLargerThanClusterTolerance
  - 1 - esriTRAreaNoGaps
  - 3 - esriTRAreaNoOverlap
  - 4 - esriTRAreaCoveredByAreaClass
  - 5 - esriTRAreaAreaCoverEachOther
  - 7 - esriTRAreaCoveredByArea
  - 8 - esriTRAreaNoOverlapArea
  - 10 - esriTRLineCoveredByAreaBoundary
  - 11 - esriTRLinePropertyInsideArea
  - 13 - esriTRPointCoveredByAreaBoundary
  - 15 - esriTRPointPropertyInsideArea
  - 16 - esriTRAreaContainOnePoint
  - 19 - esriTRLineNoOverlap
  - 20 - esriTRLineNoIntersection
  - 21 - esriTRLineNoAngles
  - 22 - esriTRLineNoPseudos
  - 26 - esriTRLineCoveredByLineClass
  - 28 - esriTRLineNoOverlapLine
  - 29 - esriTRPointCoveredByLine
  - 31 - esriTRPointCoveredByLineEndpoint
  - 34 - esriTRPointDisjoint
  - 35 - esriTRPointCoincidePoint
  - 37 - esriTRAreaBoundaryCoveredByLine
  - 38 - esriTRAreaBoundaryCoveredByAreaBoundary
  - 39 - esriTRLineNoSelfOverlap
  - 40 - esriTRLineNoSelfIntersect
  - 41 - esriTRLineNoIntersectOrInteriorTouch
  - 42 - esriTRLineEndpointCoveredByPoint
  - 44 - esriTRLineNoMutpart
  - 45 - esriTRLineNoIntersectLine
  - 46 - esriTRLineNoIntersectOrInteriorTouchLine

- esriTopologySelectionResultEnum**
- 0 - esriTopologySelectionResultNew
  - 1 - esriTopologySelectionResultAdd
  - 2 - esriTopologySelectionResultSubtract
  - 3 - esriTopologySelectionResultXOR
- esriTopologyState**
- 0 - esriTSUnanalyzed
  - 1 - esriTSAnalyzedWithErrors
  - 2 - esriTSAnalyzedWithoutErrors
  - 3 - esriTSEmpty
- esriTopologyElementType**
- 1 - esriTopologyNode
  - 2 - esriTopologyEdge
  - 4 - esriTopologyFace
- esriTopoSide**
- 0 - esriTSLeft
  - 1 - esriTSRight



# Class Diagram



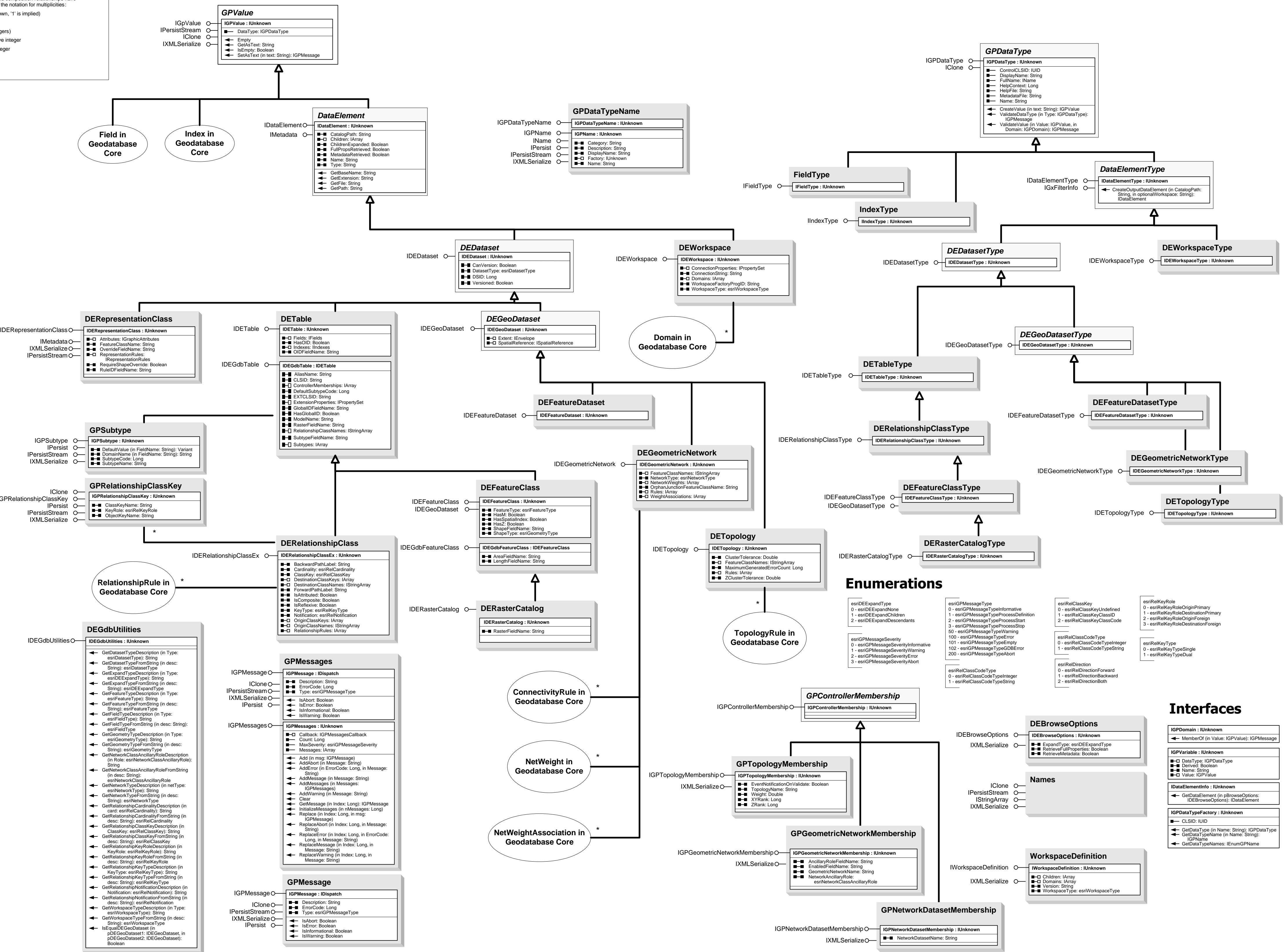
**Types of Classes**  
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# Geodatabase Object Model Data Elements

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# Geodatabase Object Model

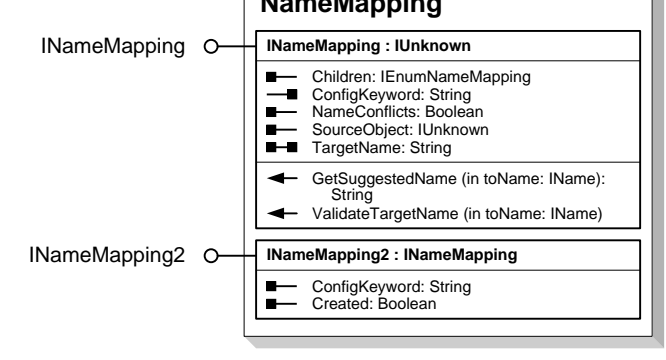
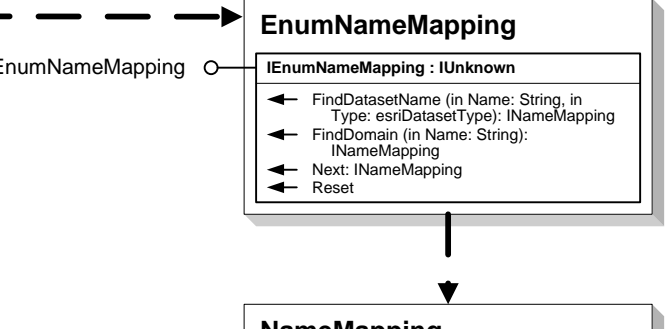
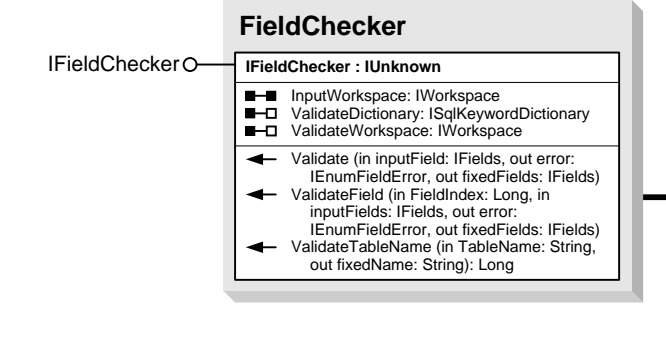
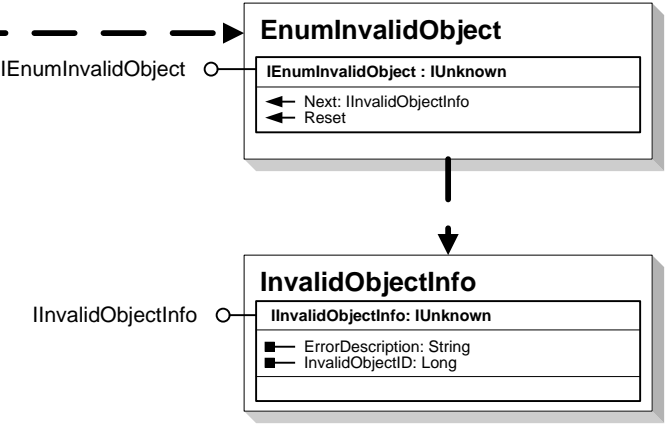
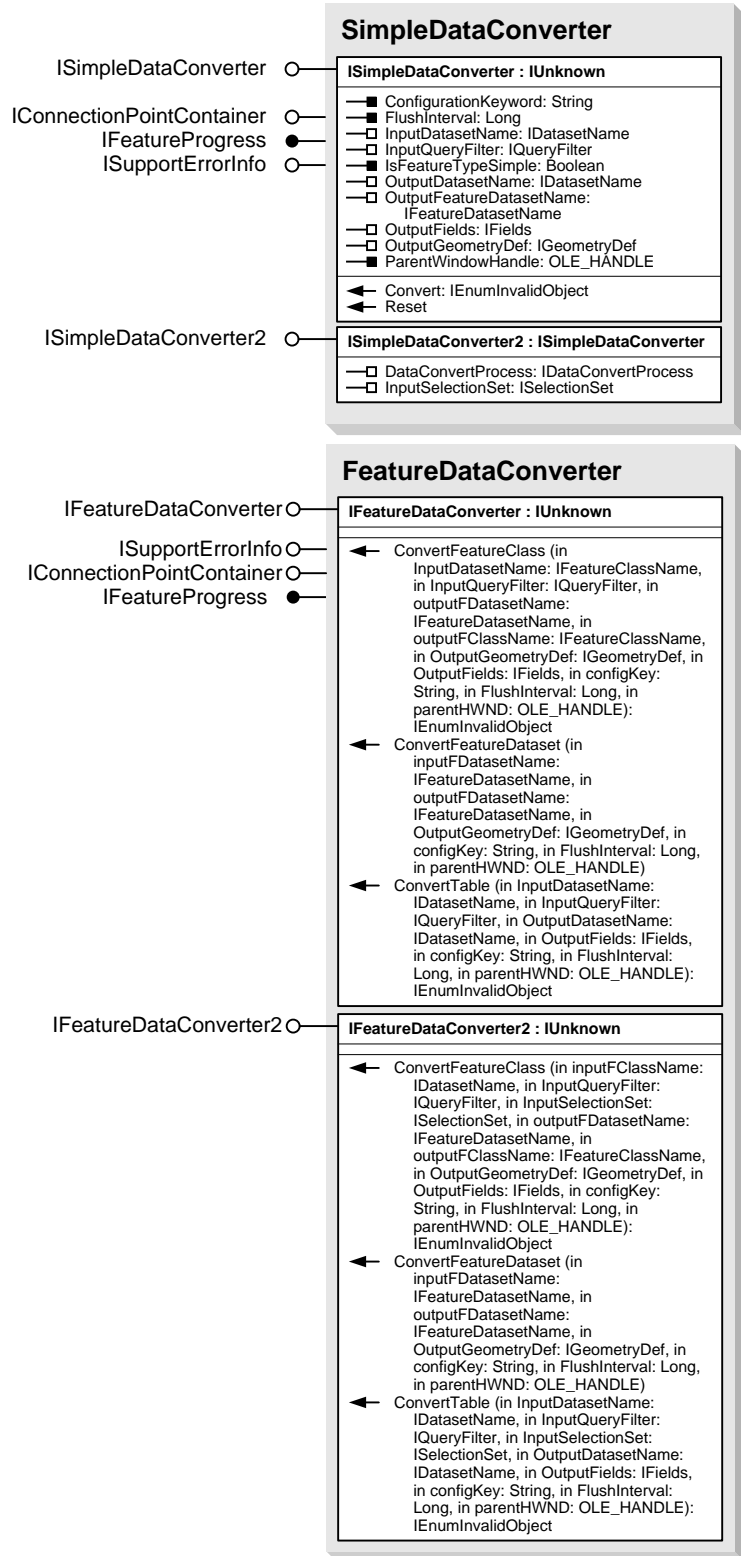
## Data Transfer

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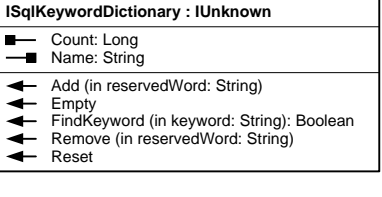
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# Distributed Geodatabase Core Objects

## DataConverter Objects

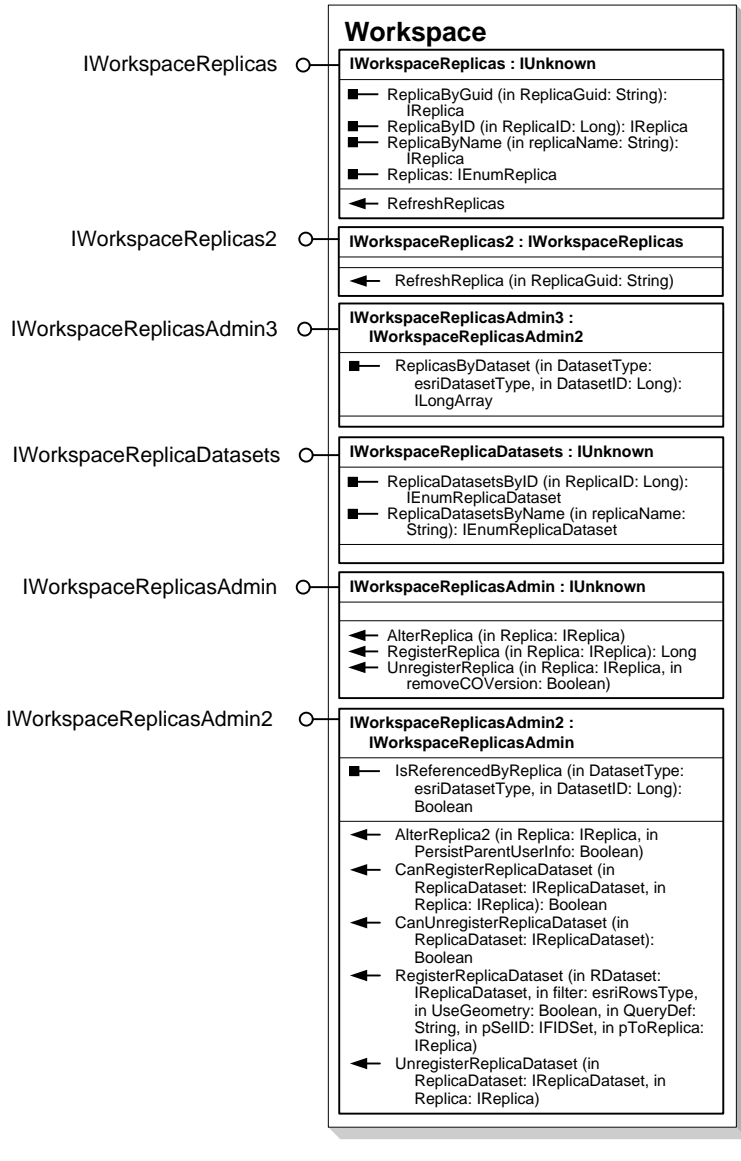


## Interfaces



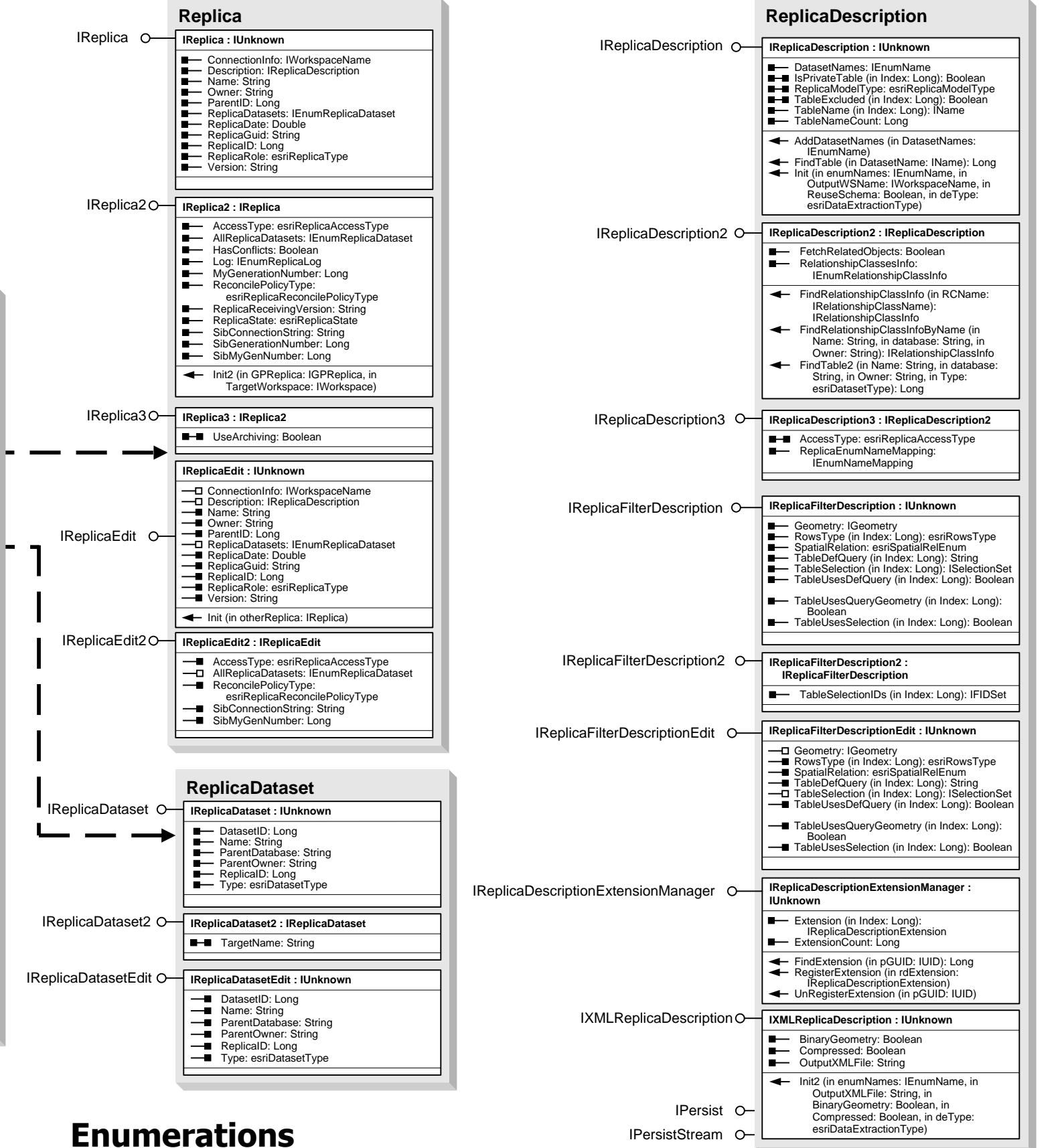
## Enumerations

- 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\_WRITETABLEFAILED
  - 520 - E\_DATACONVERTER\_WRITEROWSFAILED
  - 521 - E\_DATACONVERTER\_UNLOADFAILED
  - 522 - E\_DATACONVERTER\_OPENCURSORFAILED
  - 523 - E\_DATACONVERTER\_OPENINGSCHEMALOCKFAILED
  - 524 - E\_DATACONVERTER\_INSERTCURSORFAILED
  - 525 - E\_DATACONVERTER\_CANCELLED
  - 526 - E\_DATACONVERTER\_MATCHINPUTFIELDSETFAILED
  - 527 - E\_DATACONVERTER\_FLUSHINSERTCURSORFAILED
  - 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 - esriNoFieldError
  - 1 - esriSQLReservedWord
  - 2 - esriDuplicatedFieldName
  - 3 - esriInvalidCharacter
  - 4 - esriInvalidFieldNameLength

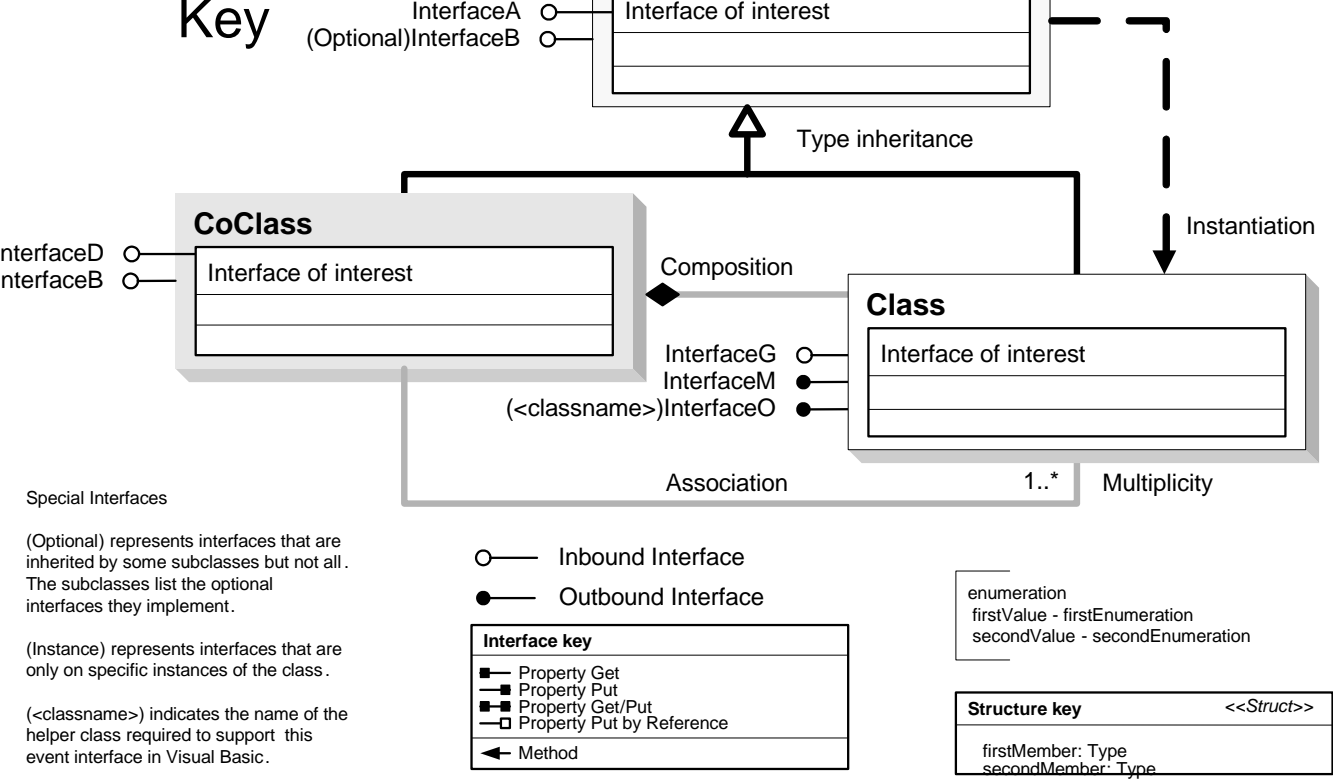


## Enumerations

- esriDataExtractionType
  - 1 - esriDataExtraction
  - 2 - esriDataCheckOut
  - 3 - esriDataReplication
  - 4 - esriDataXMLExport
  - 5 - esriDataXMLCheckOut
  - 6 - esriDataXMLExtraction
  - 7 - esriDataXMLReplication
  - 8 - esriRegisterXMLCheckOut
  - 9 - esriRegisterCheckOut
  - 10 - esriRegisterXMLReplica
  - 11 - esriRegisterReplica
- esriReplicaType
  - 1 - esriReplicaTypeChild
  - 2 - esriReplicaTypeParent
  - 4 - esriCheckOutTypeChild
  - 8 - esriCheckOutTypeParent
  - 15 - esriReplicaTypeAny
- esriRowsType
  - 0 - esriRowsTypeNone
  - 1 - esriRowsTypeAll
  - 2 - esriRowsTypeFilter
- esriReplicaAccessType
  - 0 - esriReplicaAccessNone
  - 1 - esriReplicaChildReadOnly
  - 2 - esriReplicaParentReadOnly
  - 3 - esriReplicaBothReadWrite
  - 4 - esriReplicaParentOrChildReadOnly
- esriReplicaModelType
  - 1 - esriModelTypeSimple
  - 2 - esriModelTypeFullGeodatabase



## Class Diagram



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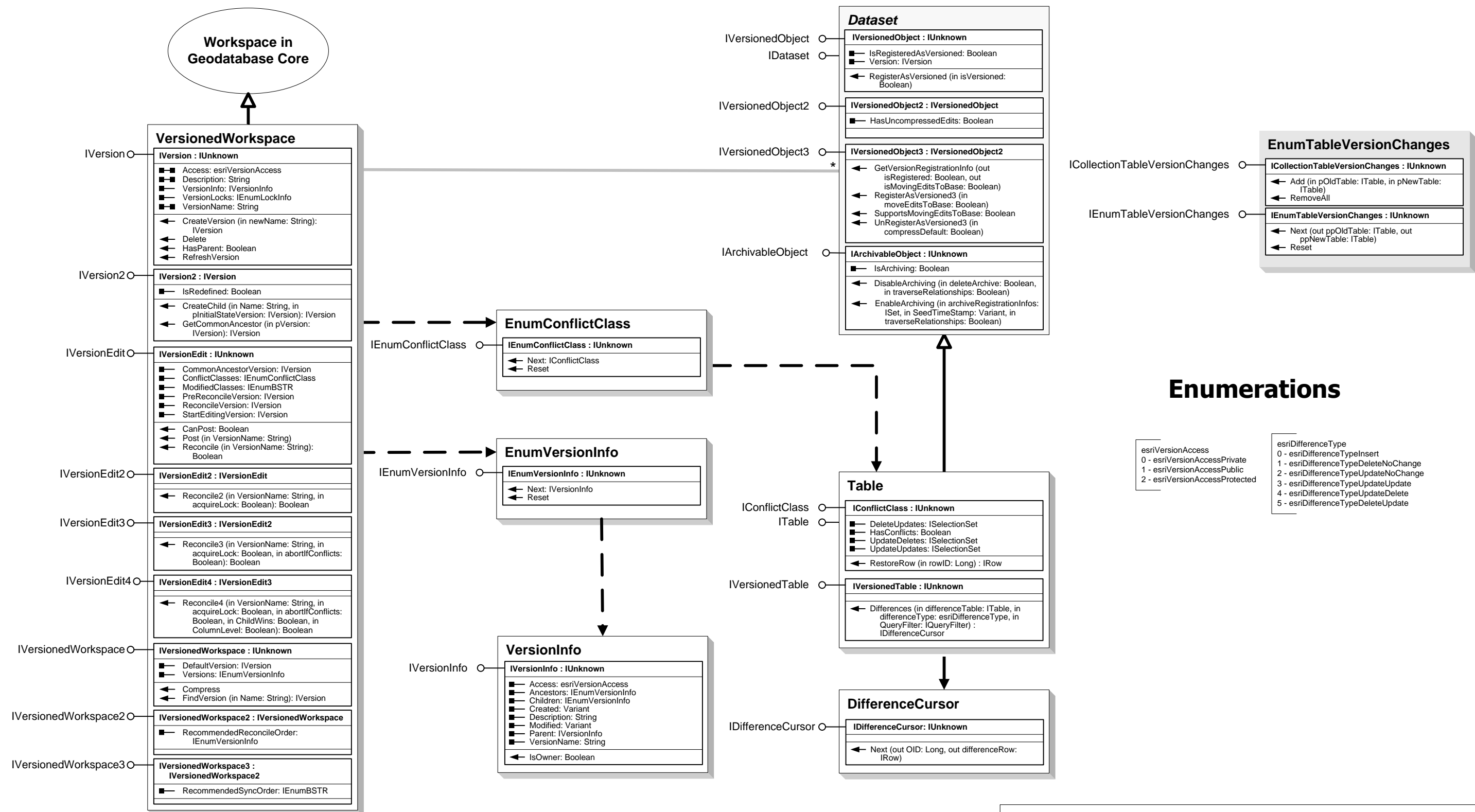
**Structure key**  
 firstMember: Type  
 secondMember: Type

# Geodatabase Object Model

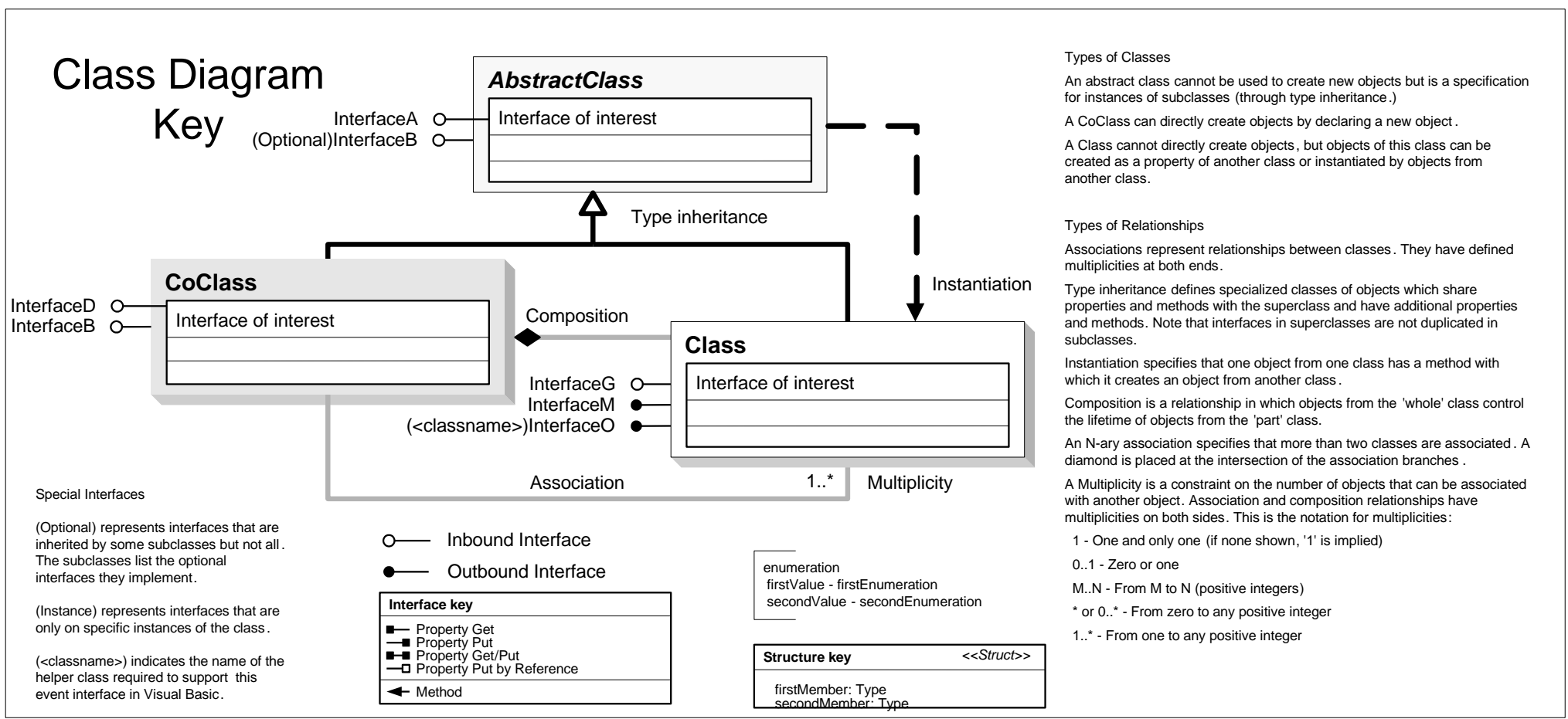
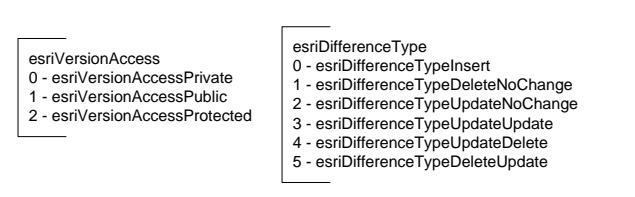
## Versioning

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### Enumerations

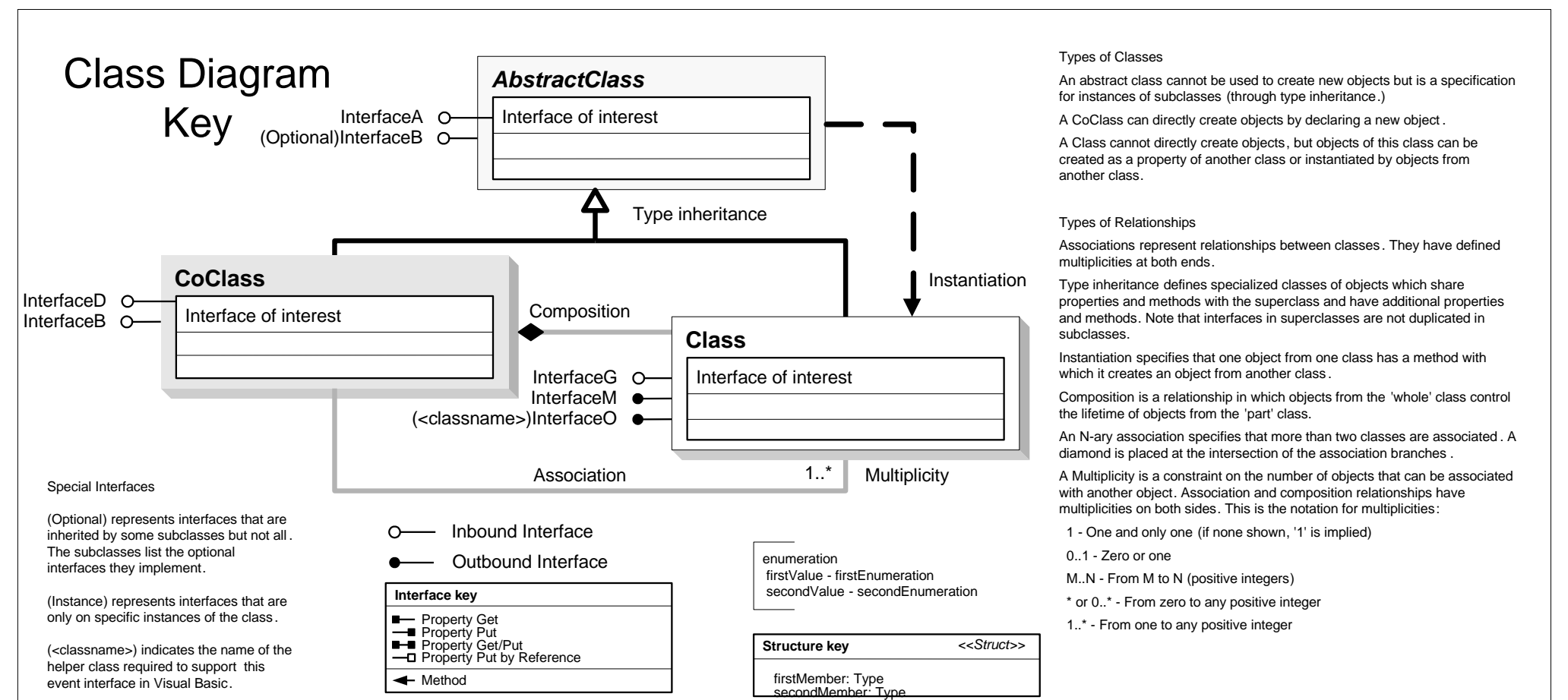
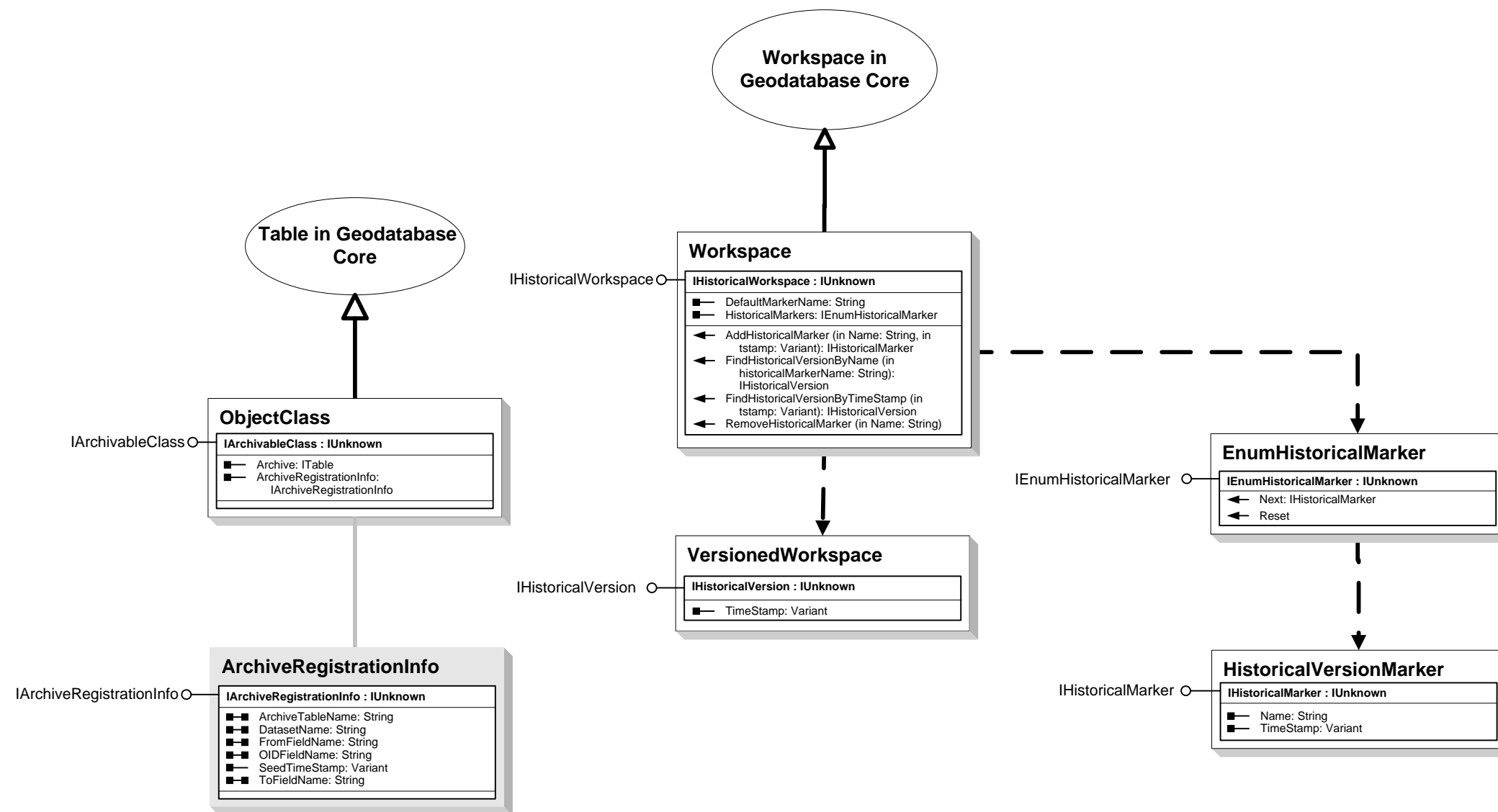


# Geodatabase Object Model

## Archiving

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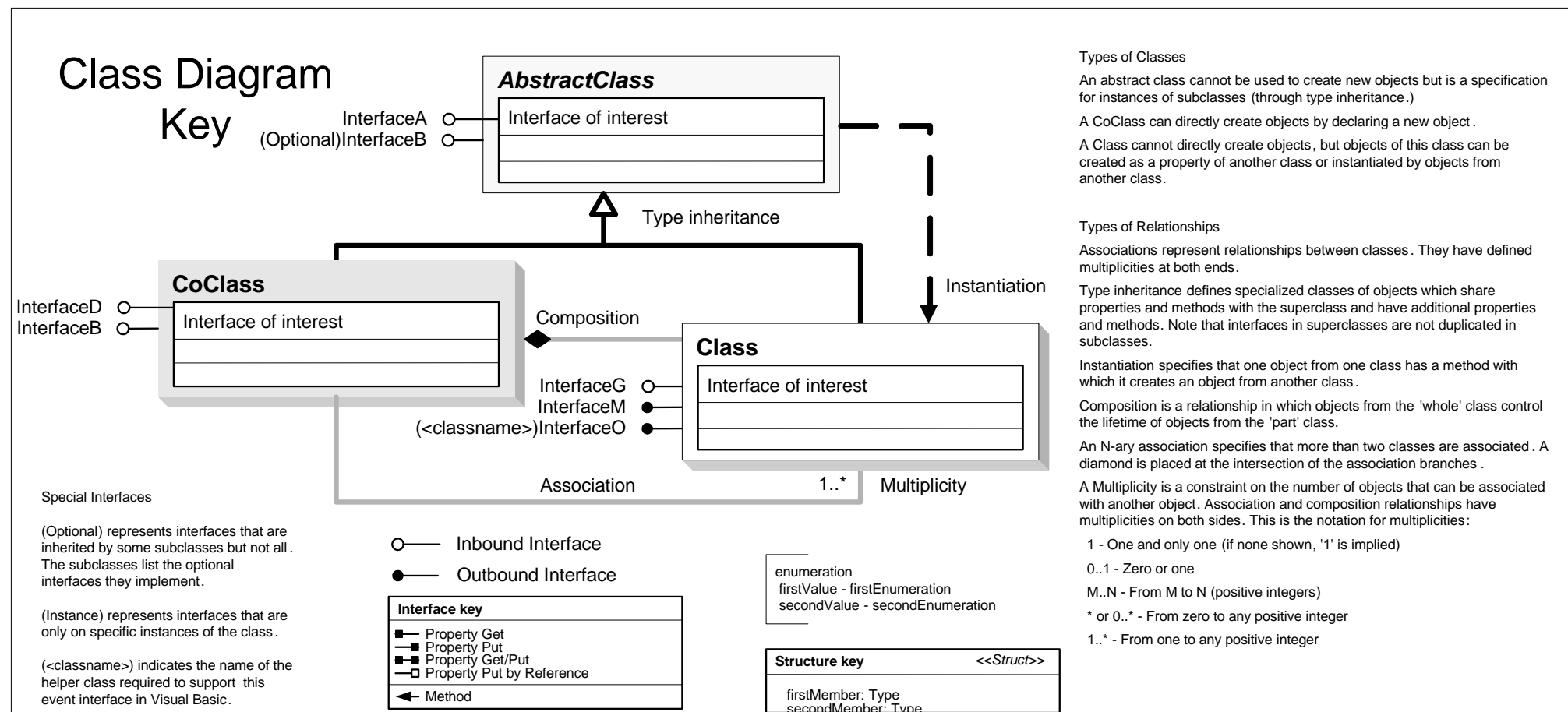
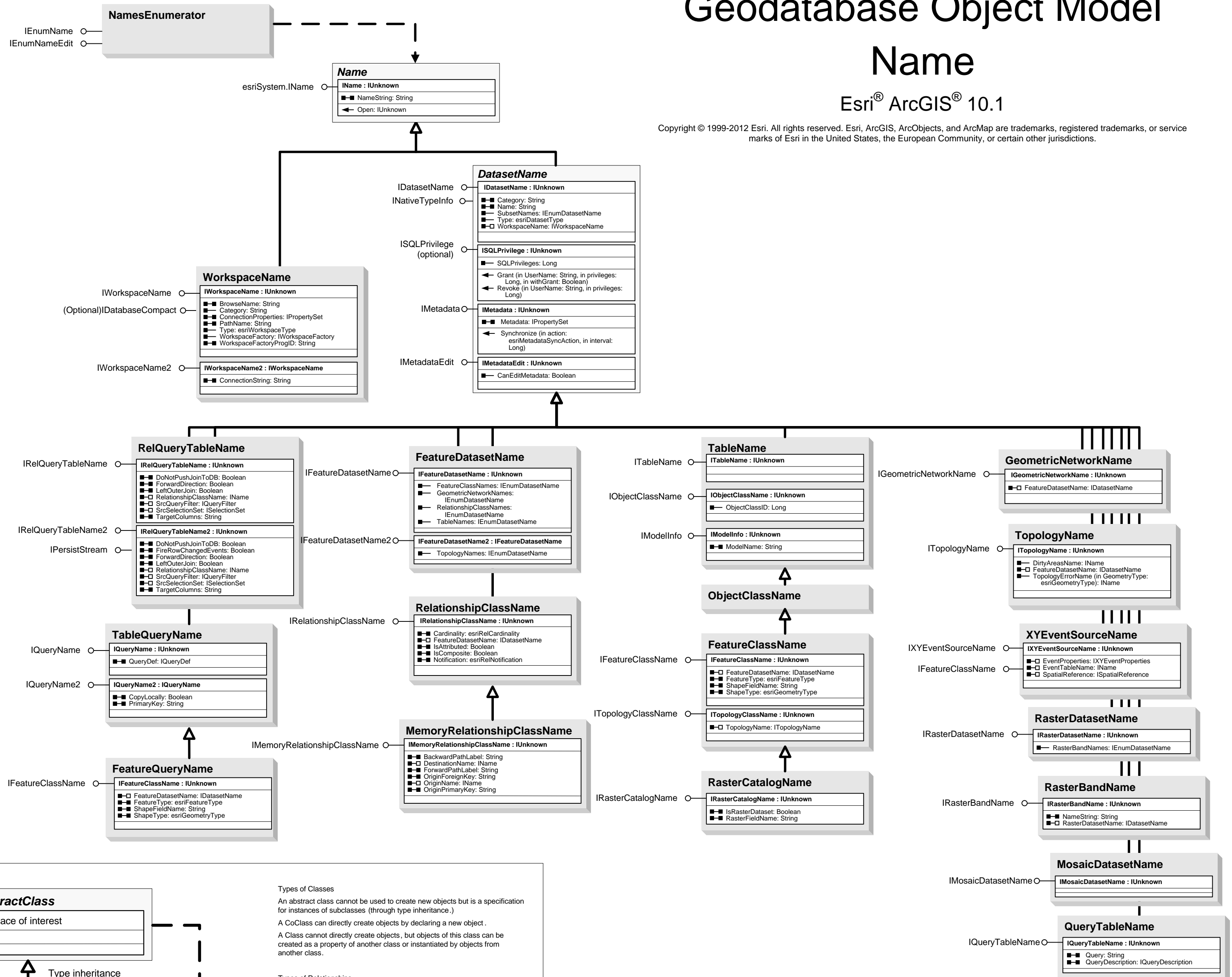


# Geodatabase Object Model

## Name

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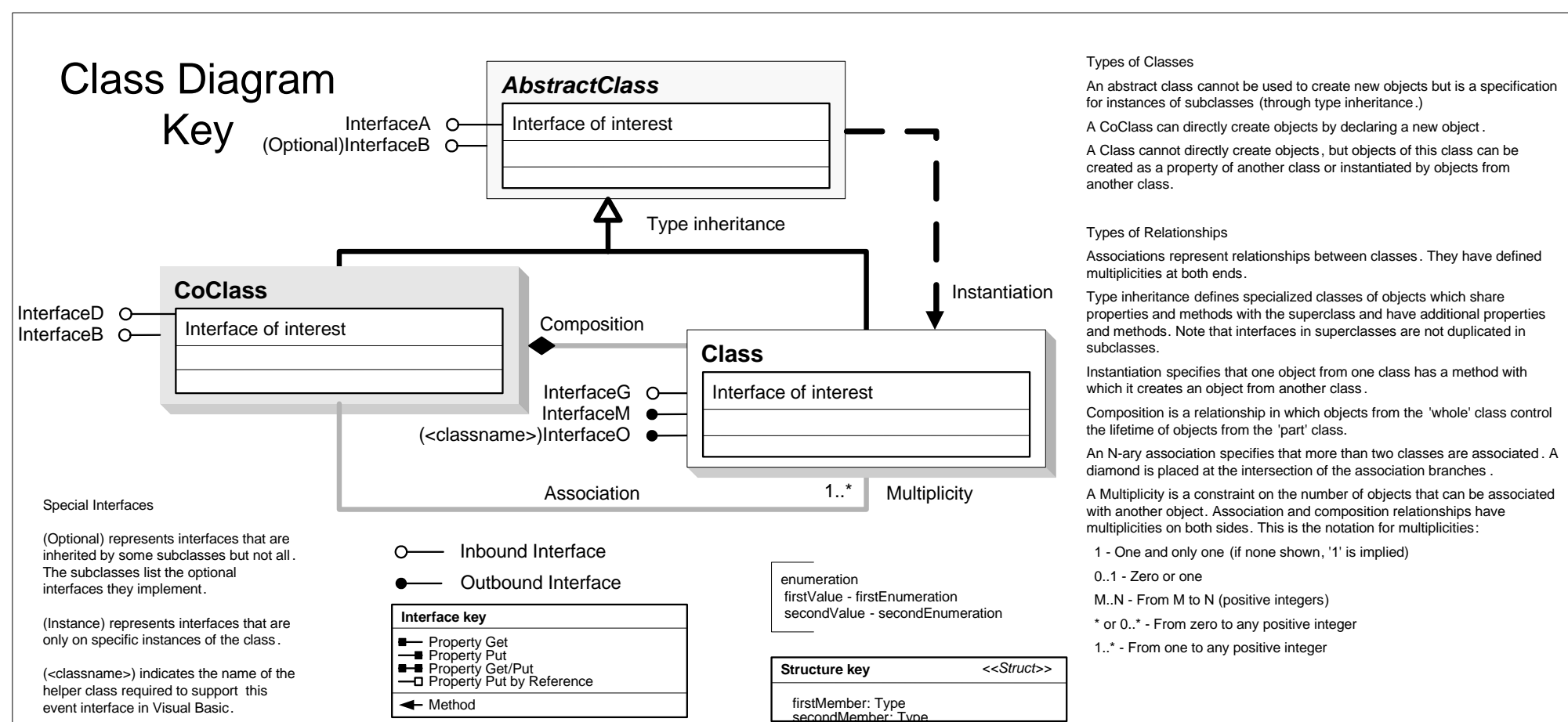
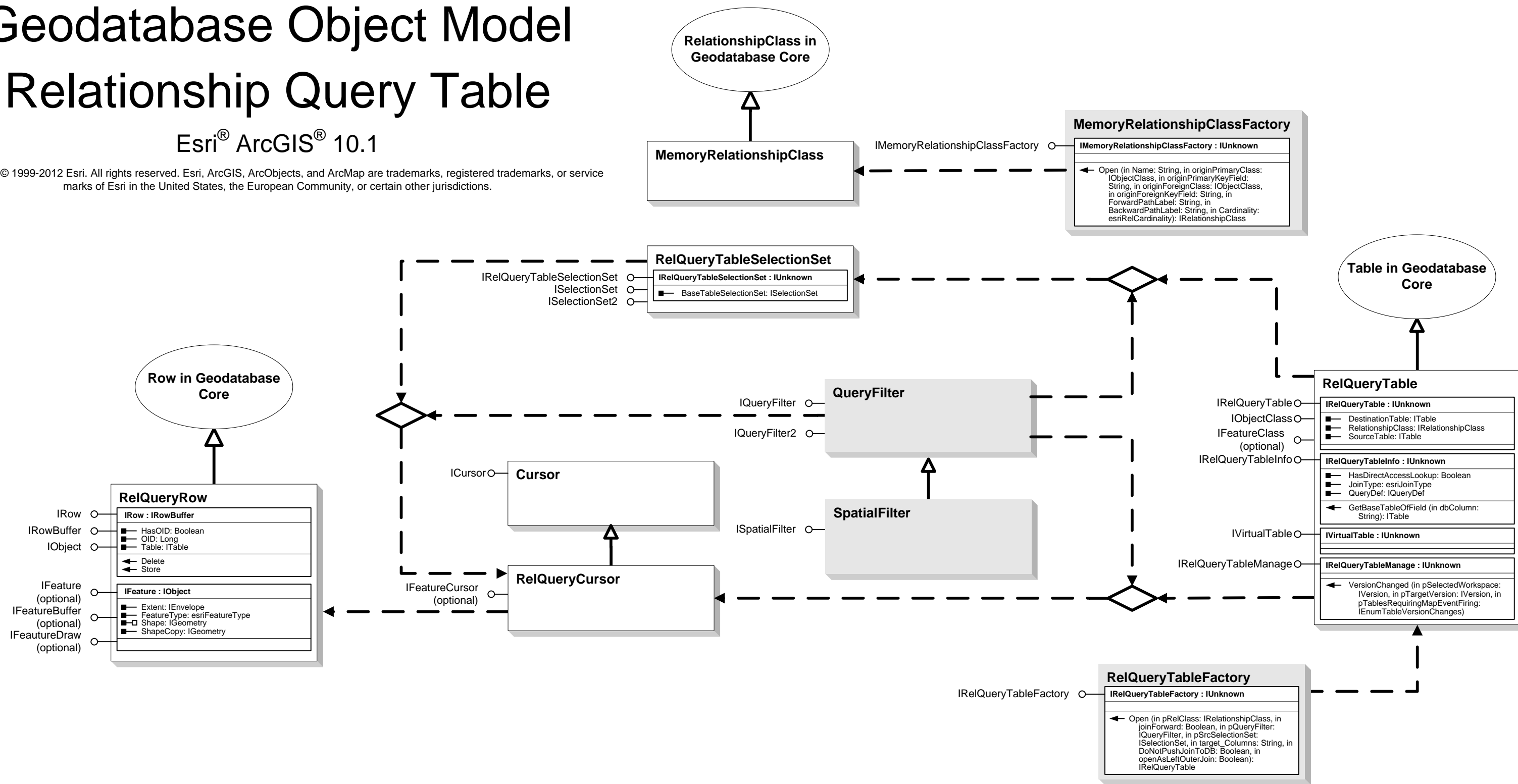
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# Geodatabase Object Model Relationship Query Table

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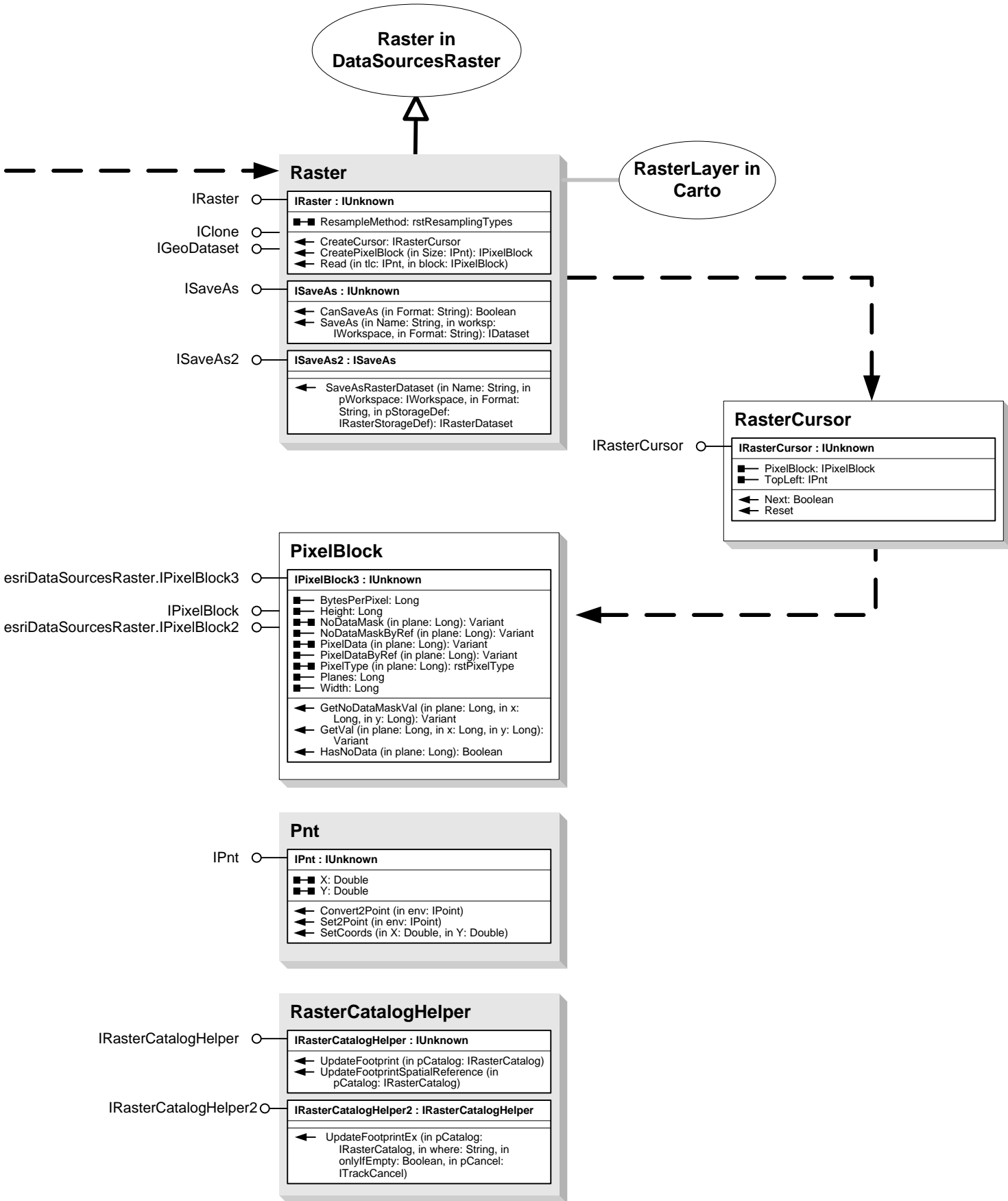
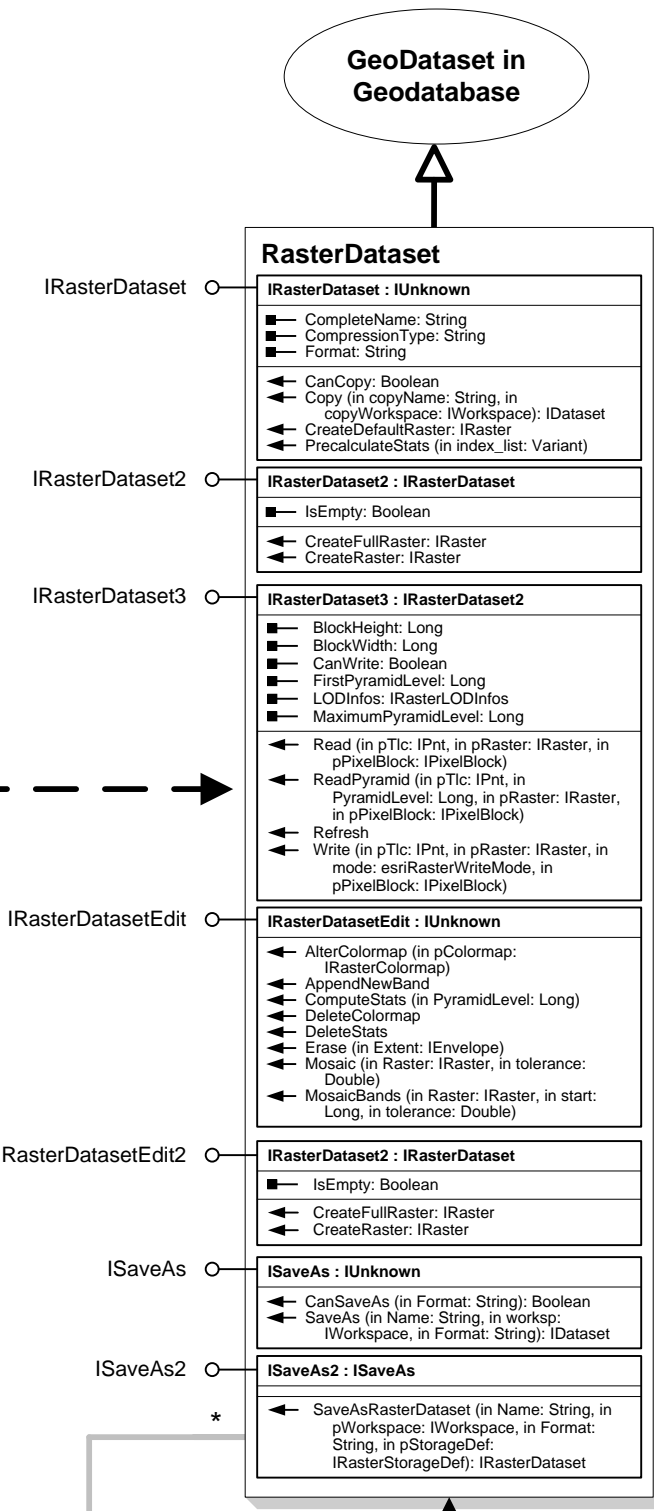
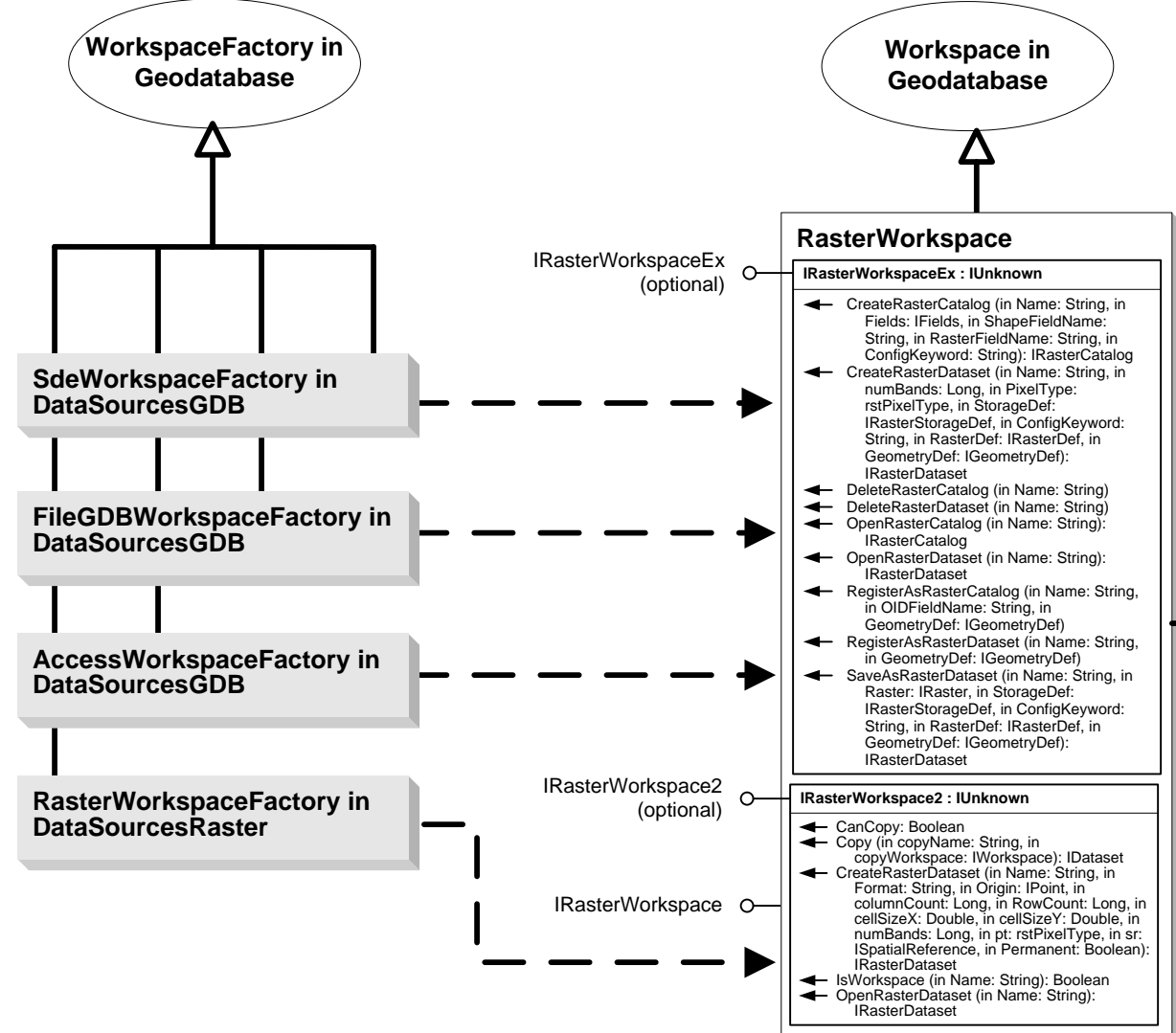


# Geodatabase Object Model

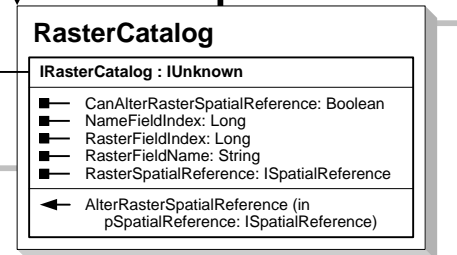
## Raster

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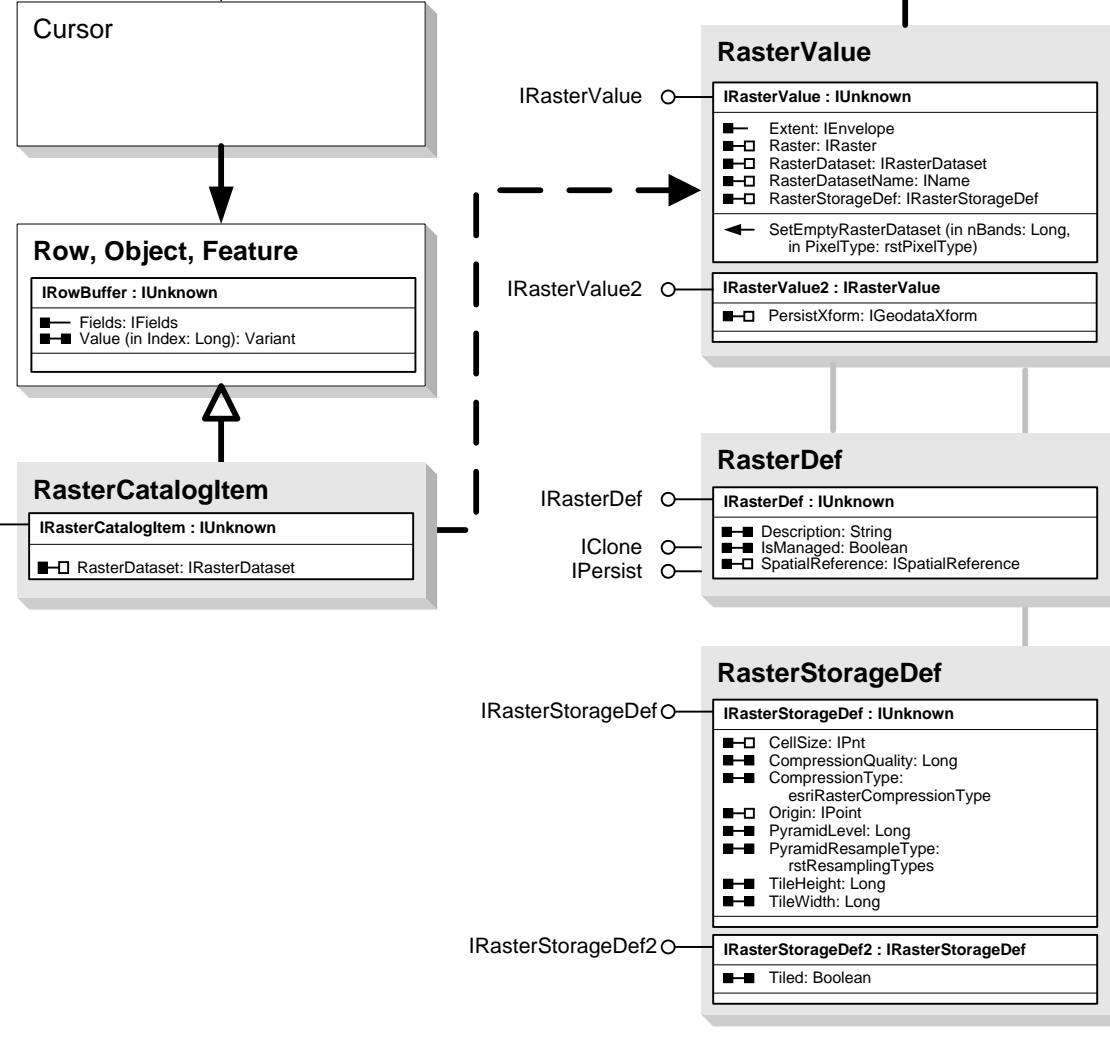


### Table, ObjectClass, FeatureClass in Geodatabase

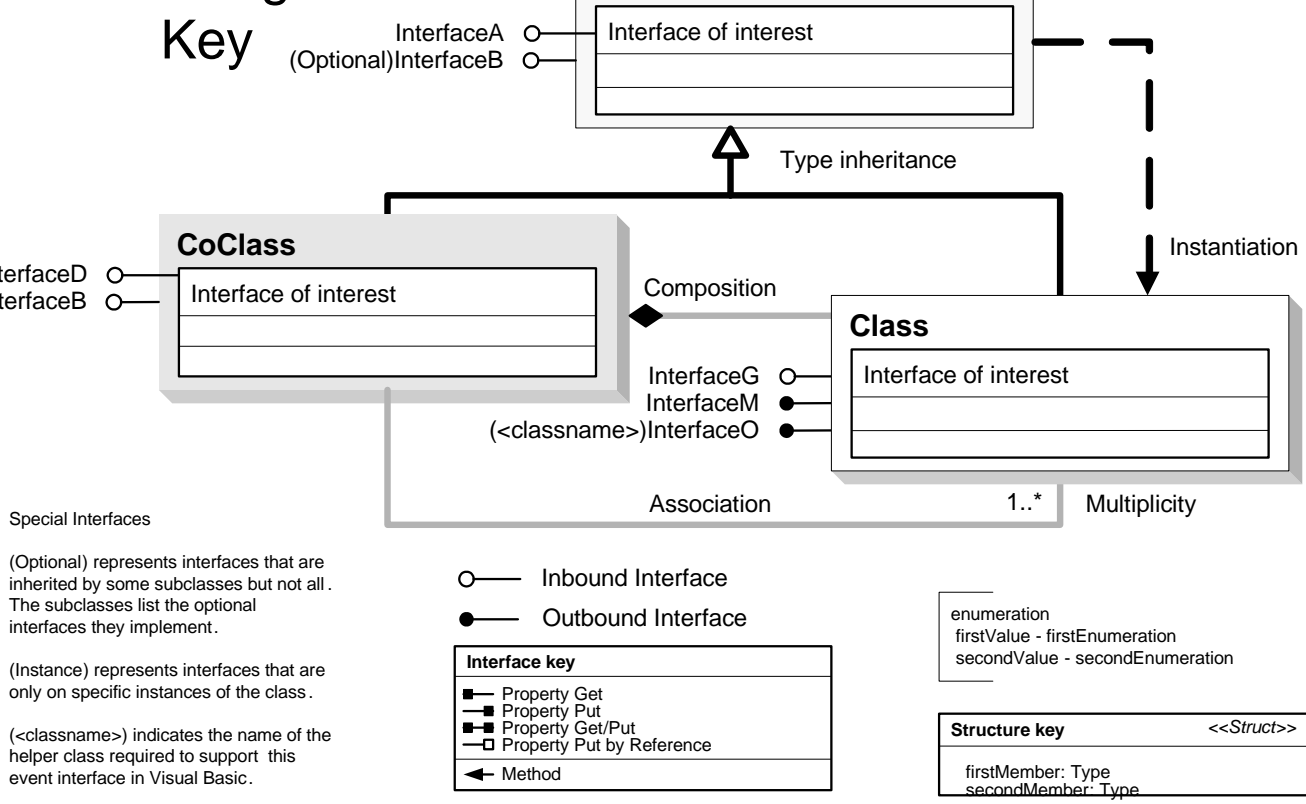


### Enumerations

- rsPixelType**
  - 1 - PT\_UNKNOWN
  - 0 - PT\_U1
  - 1 - PT\_U2
  - 2 - PT\_U4
  - 3 - PT\_UCHAR
  - 4 - PT\_CHAR
  - 5 - PT\_USHORT
  - 6 - PT\_SHORT
  - 7 - PT\_USLONG
  - 8 - PT\_LONG
  - 9 - PT\_FLOAT
  - 10 - PT\_DOUBLE
  - 11 - PT\_COMPLEX
  - 12 - PT\_DCOMPLEX
  - 13 - PT\_CSHORT
  - 14 - PT\_CLONG
- rsResamplingTypes**
  - 0 - RSP\_NearestNeighbor
  - 1 - RSP\_BilinearInterpolation
  - 2 - RSP\_CubicConvolution
  - 3 - RSP\_Majority
- esriRasterSocCompressionTypeEnum**
  - 0 - esriRasterSocCompressionTypeUncompressed
  - 1 - esriRasterSocCompressionTypeRunLength
  - 2 - esriRasterSocCompressionTypeJPEG
  - 3 - esriRasterSocCompressionTypeJPEG2000
- esriRasterCompressionType**
  - 1 - esriRasterCompressionUnknown
  - 0 - esriRasterCompressionUncompressed
  - 1 - esriRasterCompressionLZ77
  - 2 - esriRasterCompressionJPEG
  - 4 - esriRasterCompressionJPEG2000
  - 5 - esriRasterCompressionPng8
  - 6 - esriRasterCompressionLZW
  - 7 - esriRasterCompressionRLE
  - 8 - esriRasterCompressionCITTG3
  - 9 - esriRasterCompressionCITTG4
  - 10 - esriRasterCompressionCITTLE



### Class Diagram



**Types of Classes**

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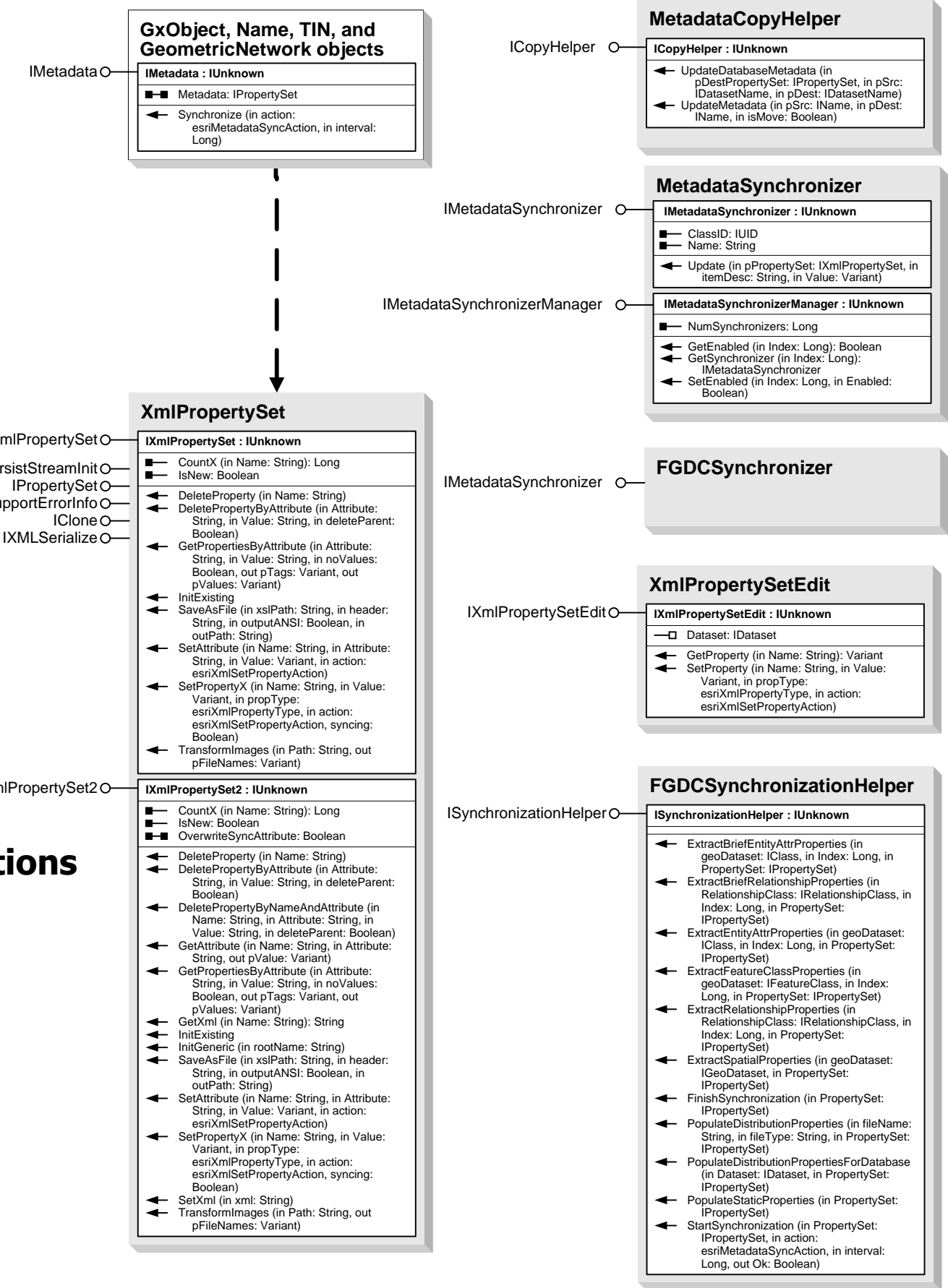
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# Geodatabase Object Model Metadata

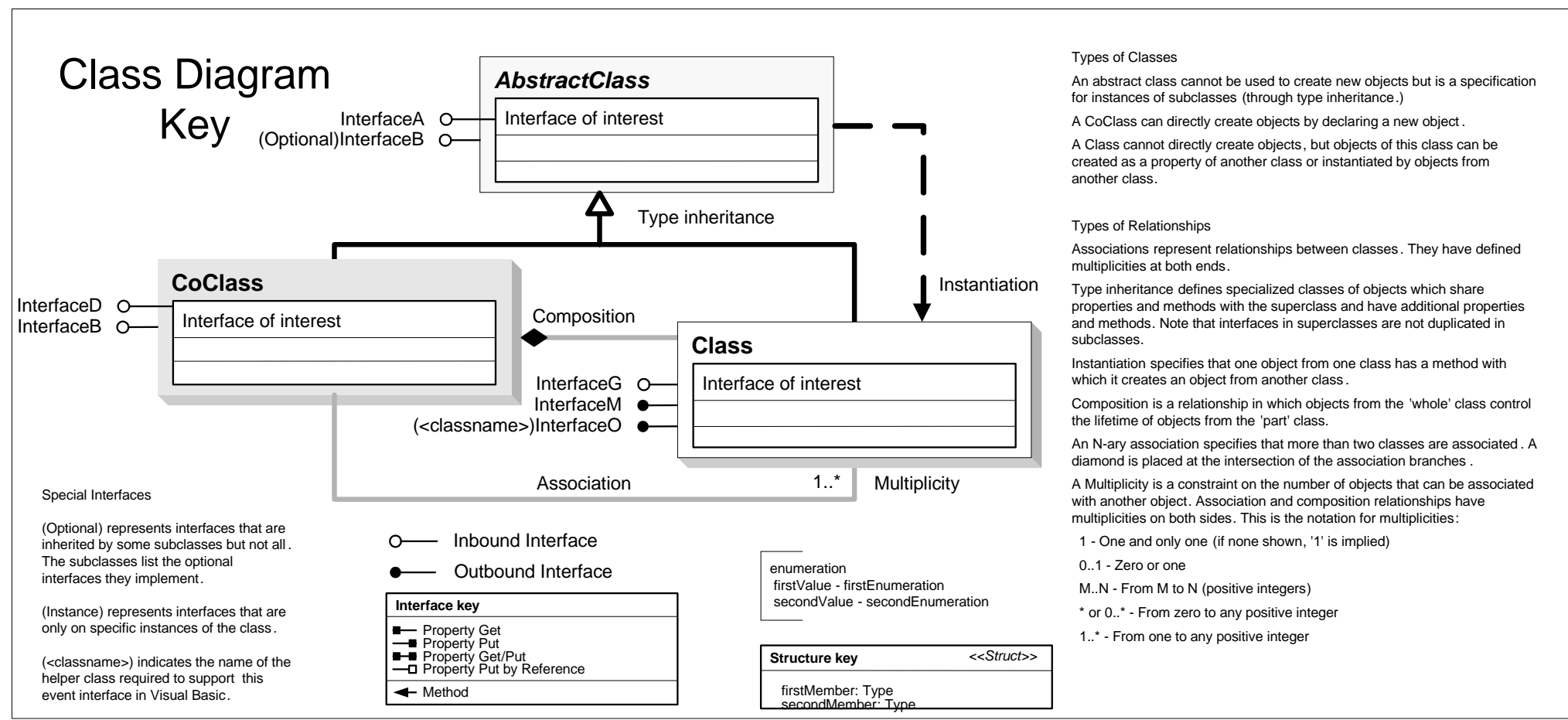
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## Enumerations

- esriXmiPropertyType
  - 0 - esriXPTText
  - 1 - esriXPTBinaryEnclosure
  - 2 - esriXPTLink
  - 3 - esriXPTPicture
  - 4 - esriXPTImage
- esriXmiSetPropertyAction
  - 0 - esriXSPAAddOrReplace
  - 1 - esriXSPAAddIfNotExists
  - 2 - esriXSPAReplaceIfExists
  - 3 - esriXSPAAddDuplicate
- esriMetadataSyncAction
  - 0 - esriMSAAccessed
  - 1 - esriMSAAlways
  - 2 - esriMSACreated
  - 3 - esriMSANotCreated
  - 4 - esriMSAOverwrite

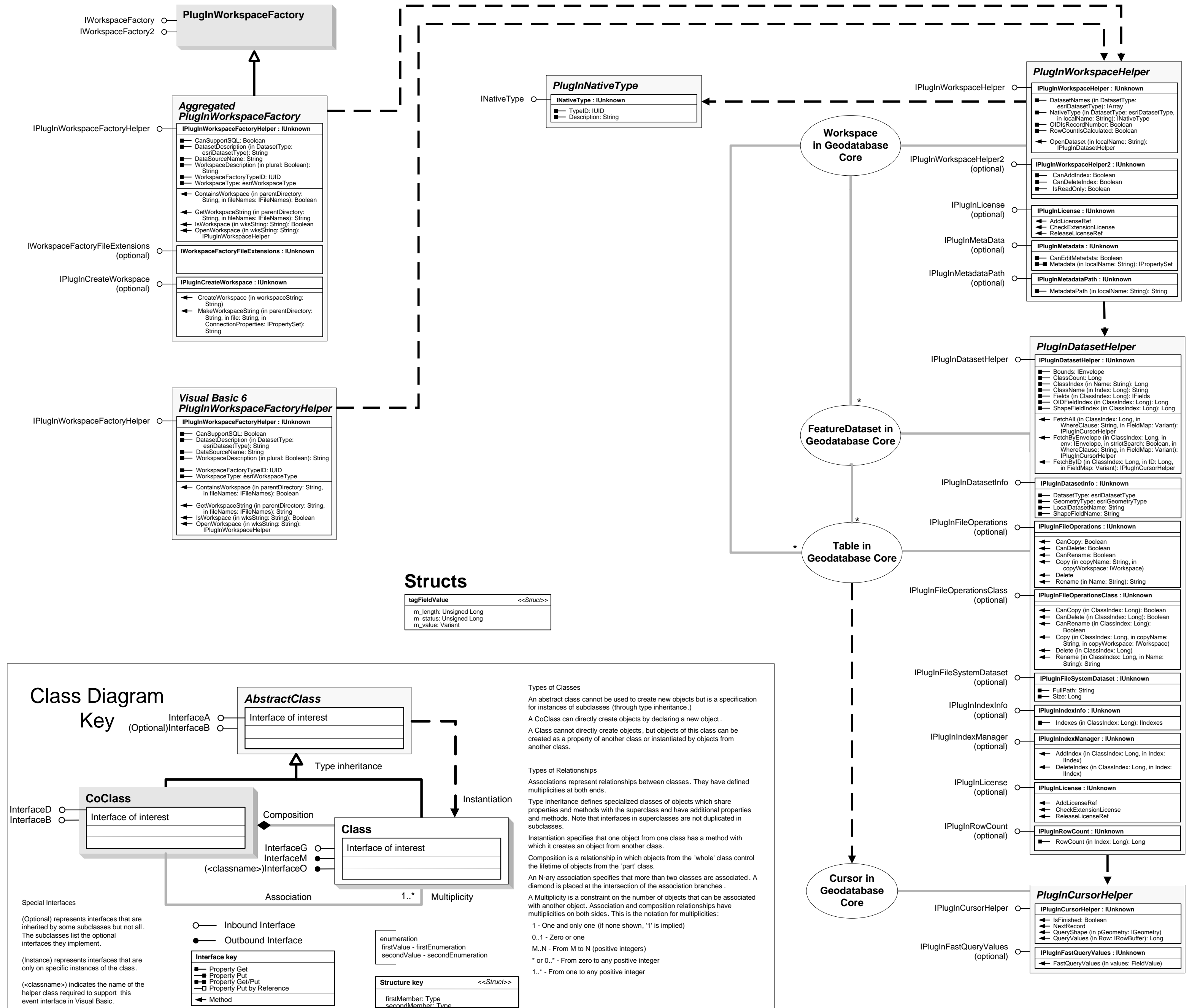


# Geodatabase Object Model

## Plug-in Data Source

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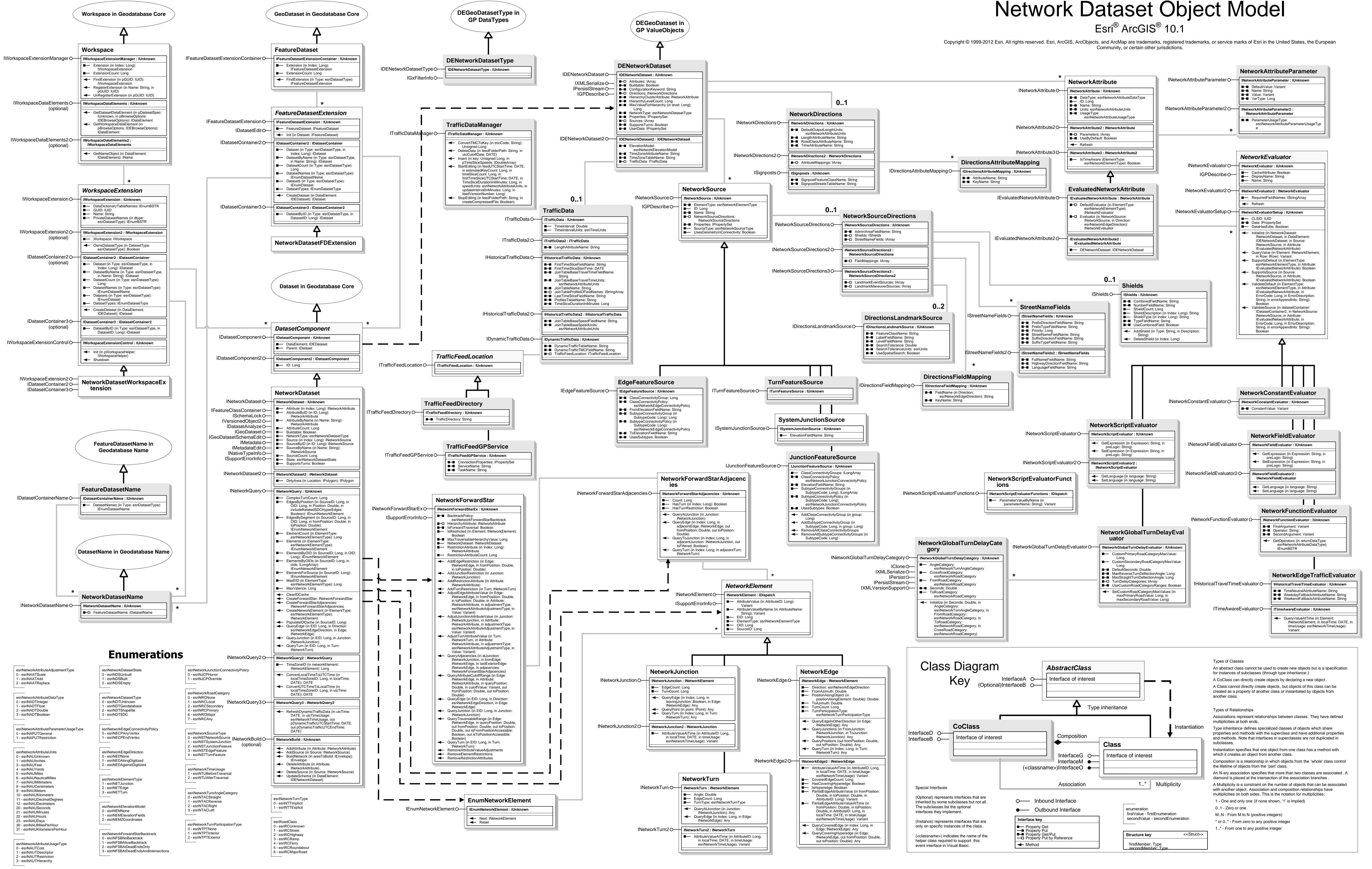
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# Network Dataset Object Model

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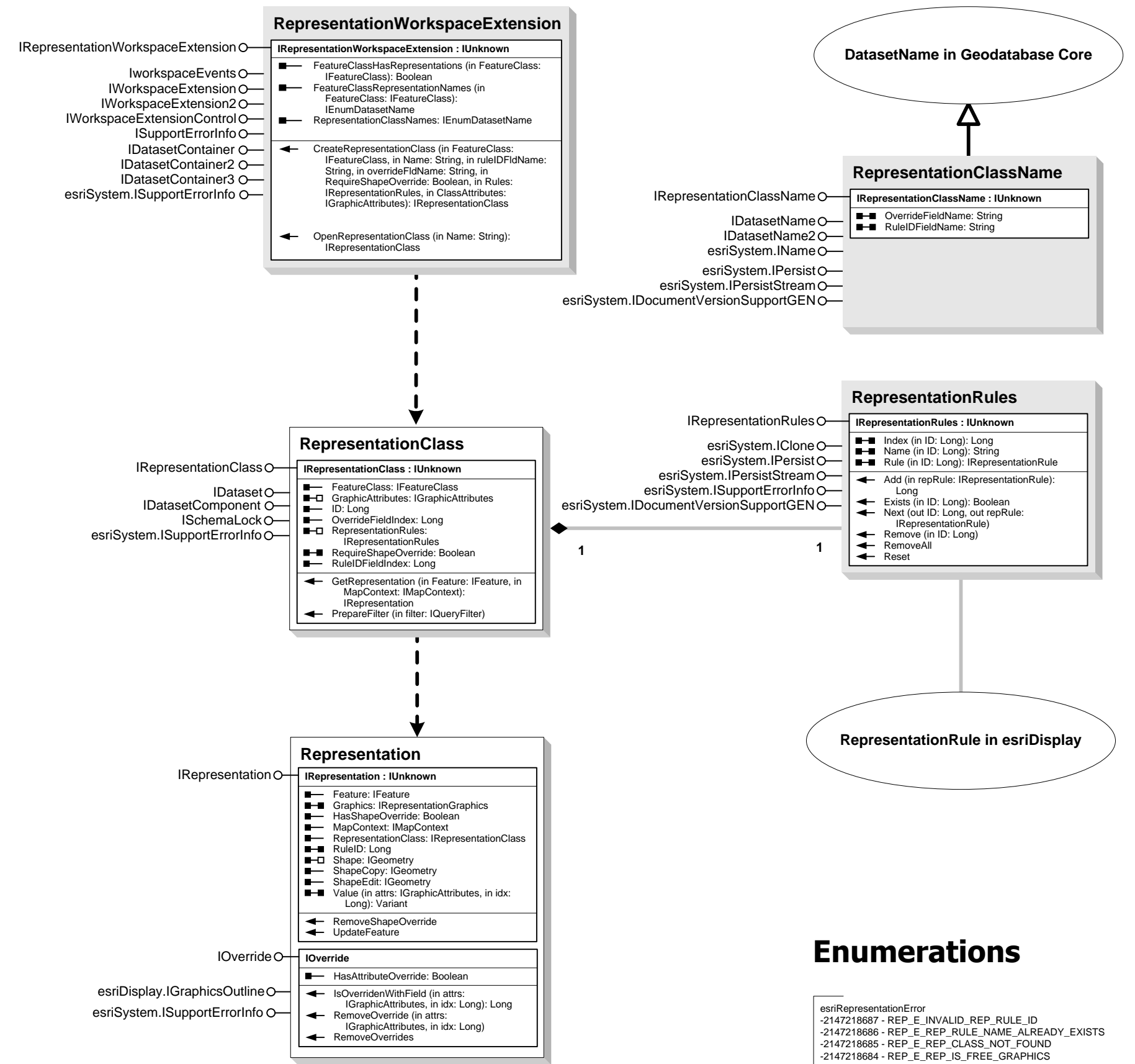
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# Geodatabase Object Model Representation Class

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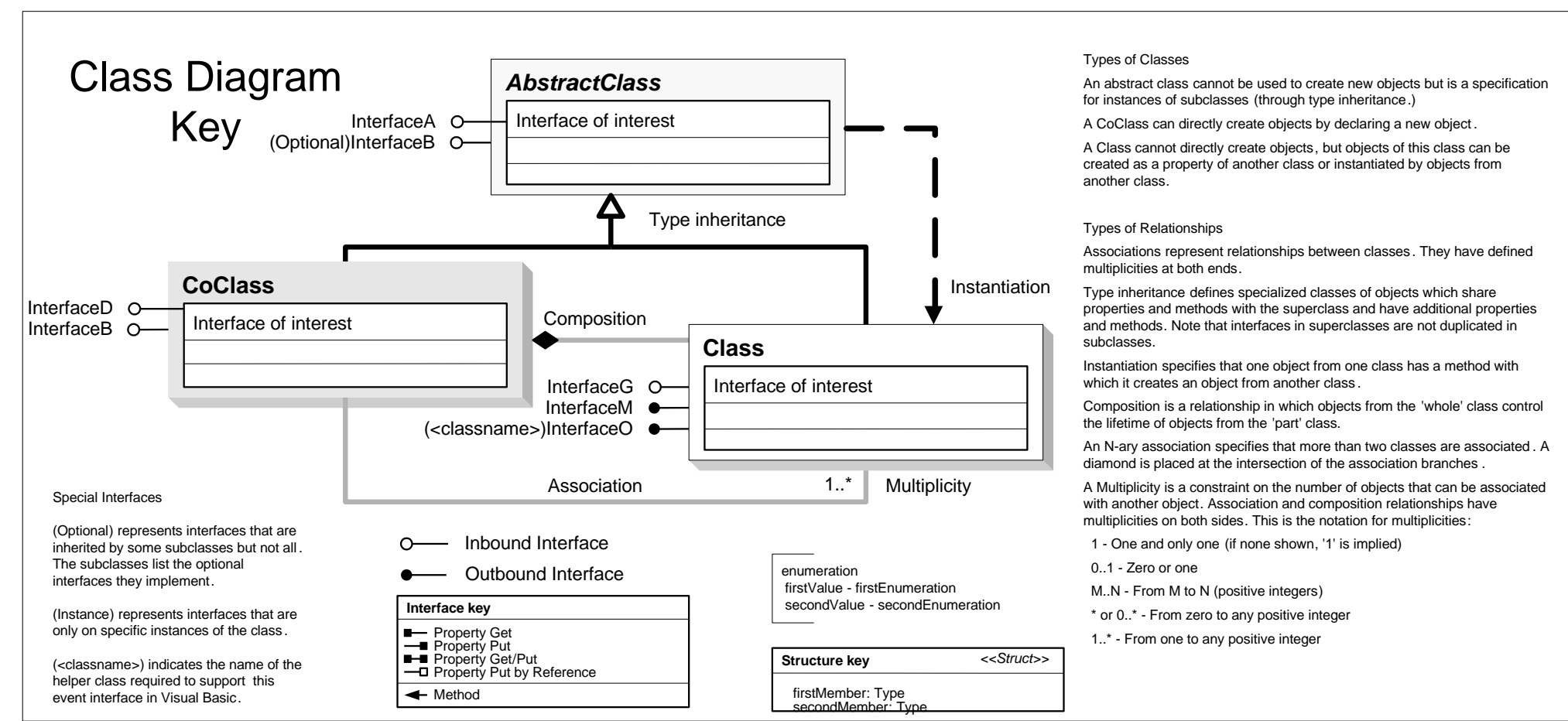


DatasetName in Geodatabase Core

RepresentationRule in esriDisplay

## Enumerations

- esriRepresentationEnum
- 2147219687 - REP\_E\_INVALID\_REP\_RULE\_ID
- 2147219686 - REP\_E\_REP\_RULE\_NAME\_ALREADY\_EXISTS
- 2147219685 - REP\_E\_REP\_CLASS\_NOT\_FOUND
- 2147219684 - REP\_E\_REP\_IS\_FREE\_GRAPHICS
- 2147219683 - REP\_E\_REP\_USES\_REP\_RULE
- 2147219682 - REP\_E\_CANT\_ACQUIRE\_SCHEMA\_LOCK
- 2147219681 - REP\_E\_OBJECT\_IS\_DELETED
- 2147219680 - REP\_E\_NO\_REP\_RULES
- 2147219679 - REP\_E\_WORKSPACE\_DOESNT\_SUPPORT\_REP\_EXTENSION
- 2147219678 - REP\_E\_FEATURE\_TYPE\_NOT\_SUPPORTED
- 2147219677 - REP\_E\_GEODATABASE\_DOESNT\_SUPPORT\_REPRESENTATIONS
- 2147219676 - REP\_E\_NO\_REP\_SYSTEM\_TABLES
- 2147219675 - REP\_E\_REP\_CLASS\_NAME\_ALREADY\_EXISTS
- 2147219674 - REP\_E\_FIELD\_NAME\_ALREADY\_EXISTS
- 2147219673 - REP\_E\_NAME\_HAS\_INVALID\_CHARACTERS
- 2147219672 - REP\_E\_MUST\_BE\_THE\_OWNER
- 2147219671 - REP\_E\_INVALID\_LICENSE
- 2147219670 - REP\_E\_COMPRESSED\_FEATURE\_CLASS



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**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.

**Legend**  
○ 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

# Geodatabase Object Model

## Query Classes

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