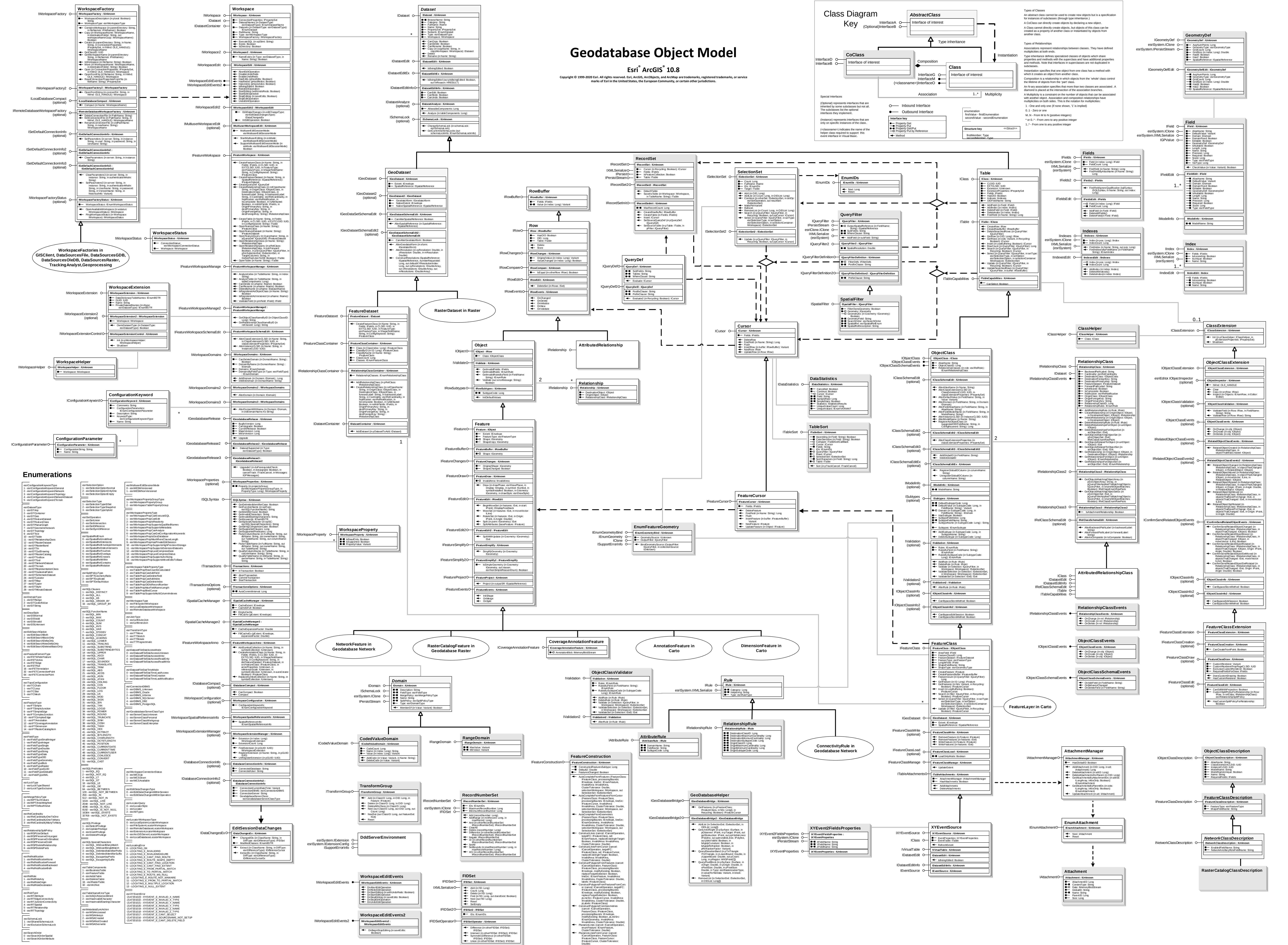


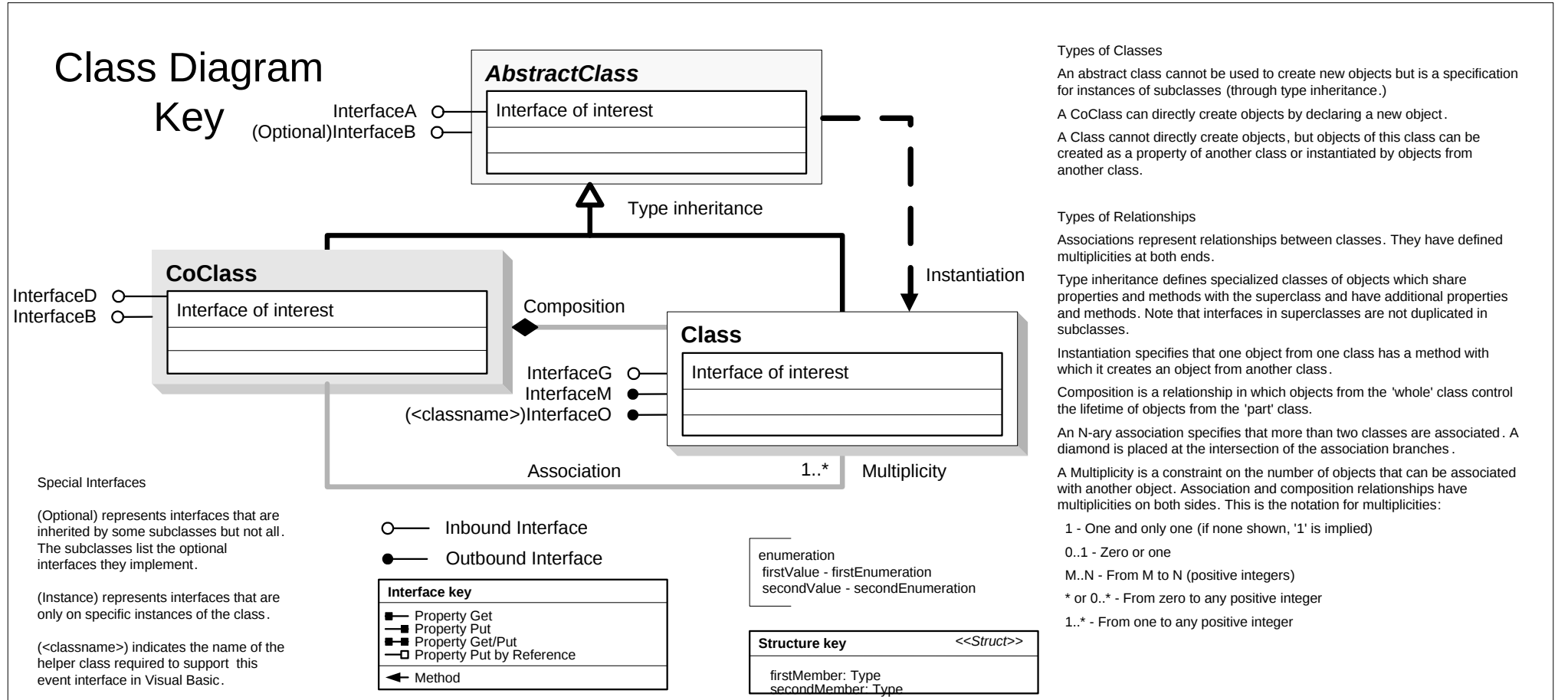


Geodatabase Object Model

Topology

Esri® ArcGIS® 10.8

Copyright © 1999-2020 Esri. All rights reserved. Esri, ArcGIS, ArcObjects, and ArcMap are trademarks, registered trademarks, or service marks of Esri in the United States, the European Community, or certain other jurisdictions.



Enumerations

esriTopologyRuleType

- 1 - esriRTAny
- 0 - esriRTFeatureLargerThanClusterTolerance
- 1 - esriRTAreaNoGaps
- 3 - esriRTAreaNoOverlap
- 4 - esriRTAreaCoveredByAreaClass
- 5 - esriRTAreaCoveredByEachOther
- 7 - esriRTAreaCoveredByArea
- 8 - esriRTAreaNoOverlapArea
- 10 - esriRTLineCoveredByAreaBoundary
- 11 - esriRTLinePropertyInsideArea
- 13 - esriRTPointCoveredByAreaBoundary
- 15 - esriRTPointPropertyInsideArea
- 16 - esriRTAreaContainOnePoint
- 19 - esriRTLineNoOverlap
- 20 - esriRTLineNoIntersection
- 21 - esriRTLineNoDangles
- 22 - esriRTLineNoPseudos
- 26 - esriRTLineCoveredByLineClass
- 28 - esriRTLineNoOverlapLine
- 29 - esriRTPointCoveredByLine
- 31 - esriRTPointCoveredByLineEndpoint
- 34 - esriRTPointDisjoint
- 35 - esriRTPointCoincidePoint
- 37 - esriRTAreaBoundaryCoveredByLine
- 38 - esriRTAreaBoundaryCoveredByAreaBoundary
- 39 - esriRTLineNoSelfOverlap
- 40 - esriRTLineNoSelfIntersect
- 41 - esriRTLineNoIntersectInteriorTouch
- 42 - esriRTLineEndpointCoveredByPoint
- 43 - esriRTAreaContainPoint
- 44 - esriRTLineNoMutualIntersect
- 45 - esriRTLineNoIntersectLine
- 46 - esriRTLineNoIntersectInteriorTouchLine

esriTopologySelectionResultEnum

- 0 - esriTopologySelectionResultNew
- 1 - esriTopologySelectionResultAdd
- 2 - esriTopologySelectionResultSubtract
- 3 - esriTopologySelectionResultXOR

esriTopologyState

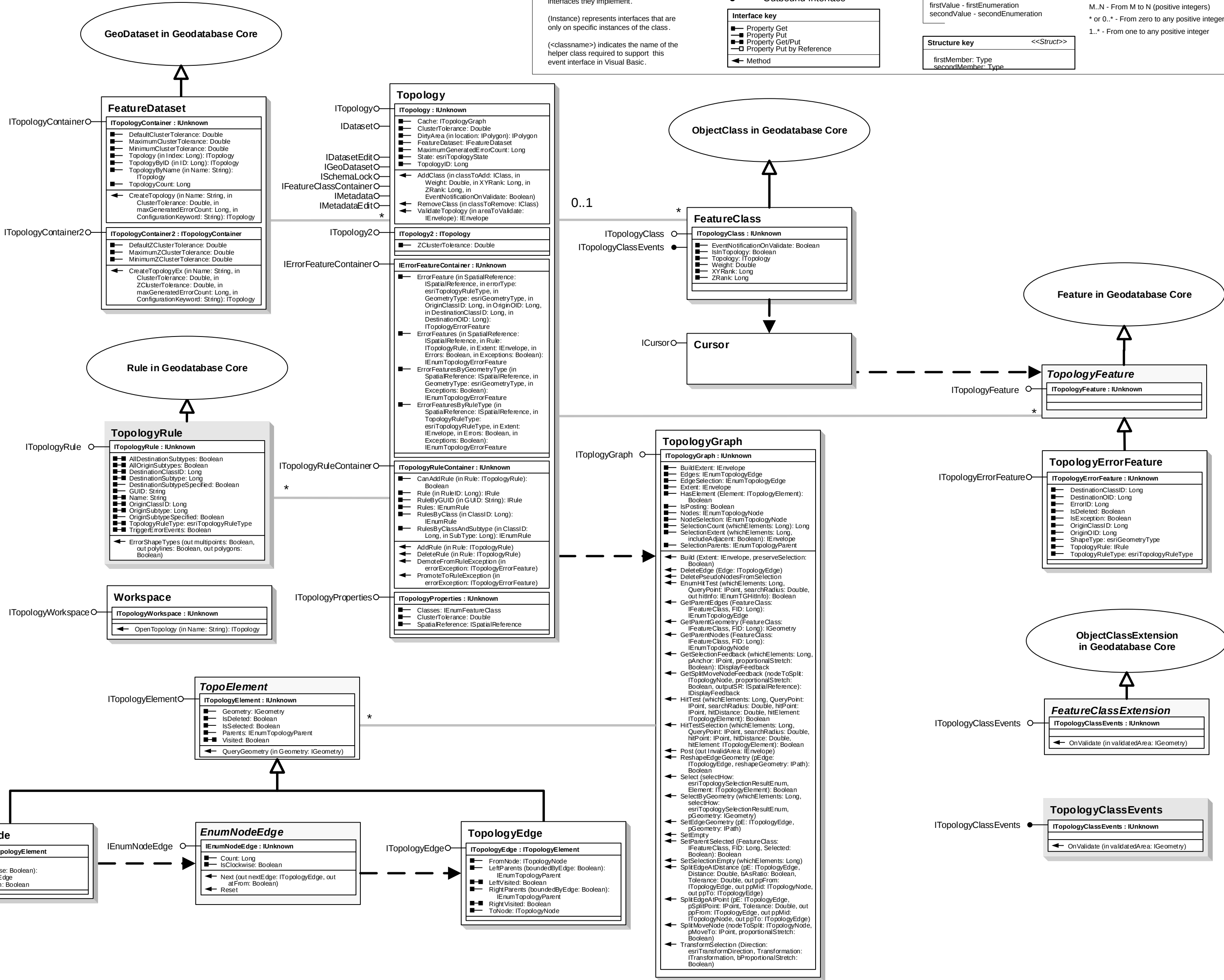
- 0 - esriTSUnanalyzed
- 1 - esriTSAnalyzedWithoutErrors
- 2 - esriTSAnalyzedWithErrors
- 3 - esriTSEmpty

esriTopologyElementType

- 1 - esriTopologyNode
- 2 - esriTopologyEdge
- 4 - esriTopologyFace

esriTopoSide

- 0 - esriTSLLeft
- 1 - esriTSLRight



Key

- InterfaceA
- (Optional) InterfaceB

CoClass

- Interface of interest

Class

- Interface of interest

Relationships:

- Type inheritance:** CoClass to Class (solid arrow)
- Composition:** CoClass to Class (solid line with filled diamond)
- Association:** CoClass to Class (solid line with open diamond)
- Multiplicity:** CoClass to Class (1..*)
- Special interfaces:** CoClass to Class (dashed line)
- Inbound Interface:** CoClass to Class (solid line with open circle)
- Outbound Interface:** CoClass to Class (solid line with filled circle)
- Property Get:** CoClass to Class (solid line with filled square)
- Property Put:** CoClass to Class (solid line with filled triangle)
- Property Get/Put:** CoClass to Class (solid line with open square)
- Property Put by Reference:** CoClass to Class (solid line with open triangle)
- Method:** CoClass to Class (solid line with filled diamond)

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
- 0..N - From 0 to N (positive integers)
- * or 0..* - From zero to any positive integer
- 1..* - From one to any positive integer

Interface key

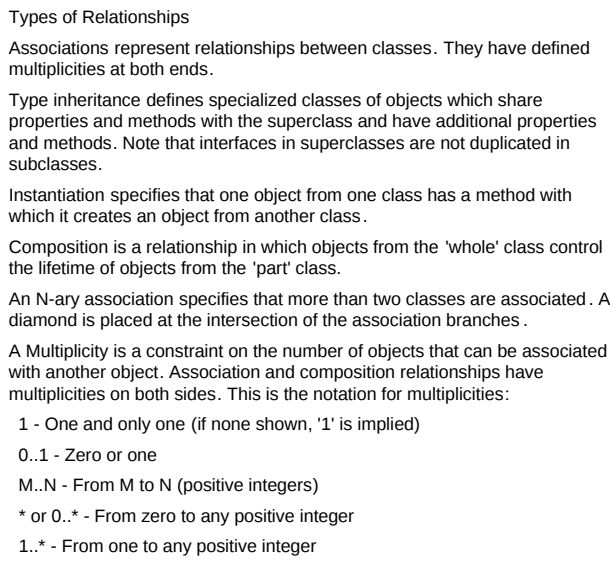
- Property Get
- ▲ Property Put
- Property Get/Put
- ▢ Property Put by Reference
- ◆ Method

Structure key

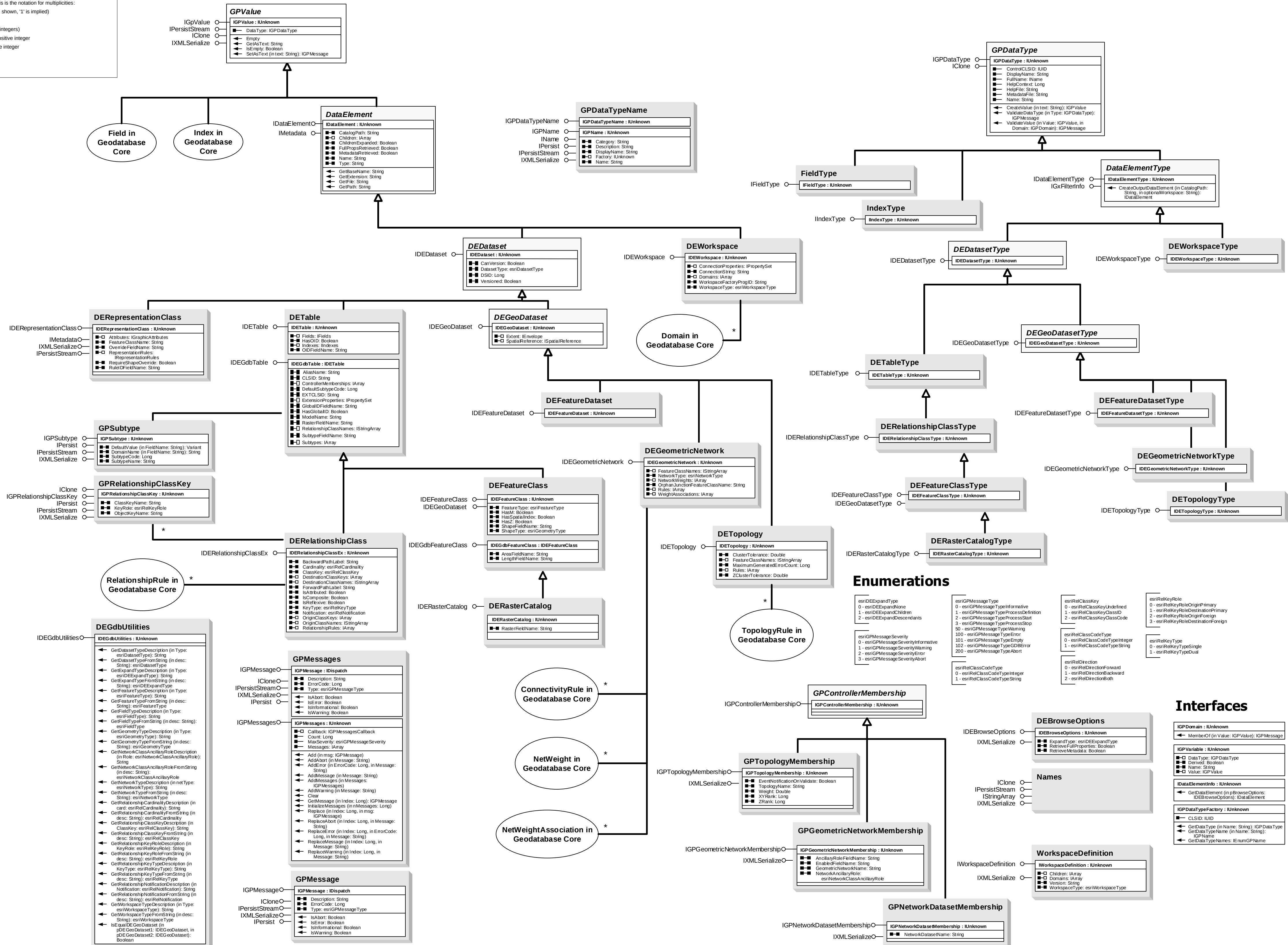
<<Struct>>

firstMember: Type
secondMember: Type

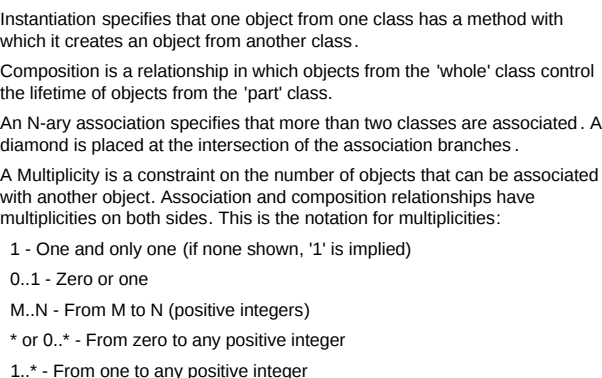
- Types of Relationships
 - Associations represent relationships between classes. They have defined multiplicities at both ends.
 - Type inheritance defines specialized classes of objects which share attributes and methods with the superclass and have additional properties and methods. Note that interfaces 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 cardinality constraint is a 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)
 - 0..* - From zero to any positive integer
 - 1..* - From one to any positive integer



Copyright © 1999-2020 Esri. All rights reserved. Esri, ArcGIS, ArcObjects, and ArcMap are trademarks, registered trademarks, or service marks of Esri in the United States, the European Community, or certain other jurisdictions.



Esri® ArcGIS® 10.8



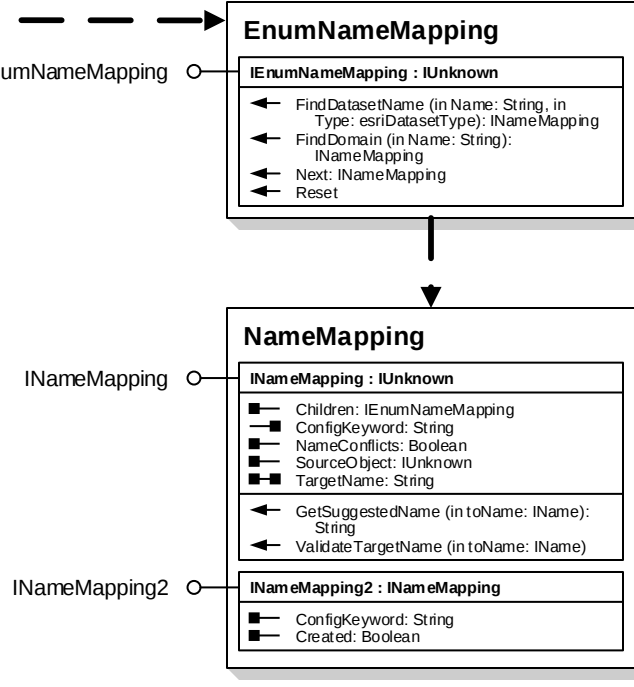
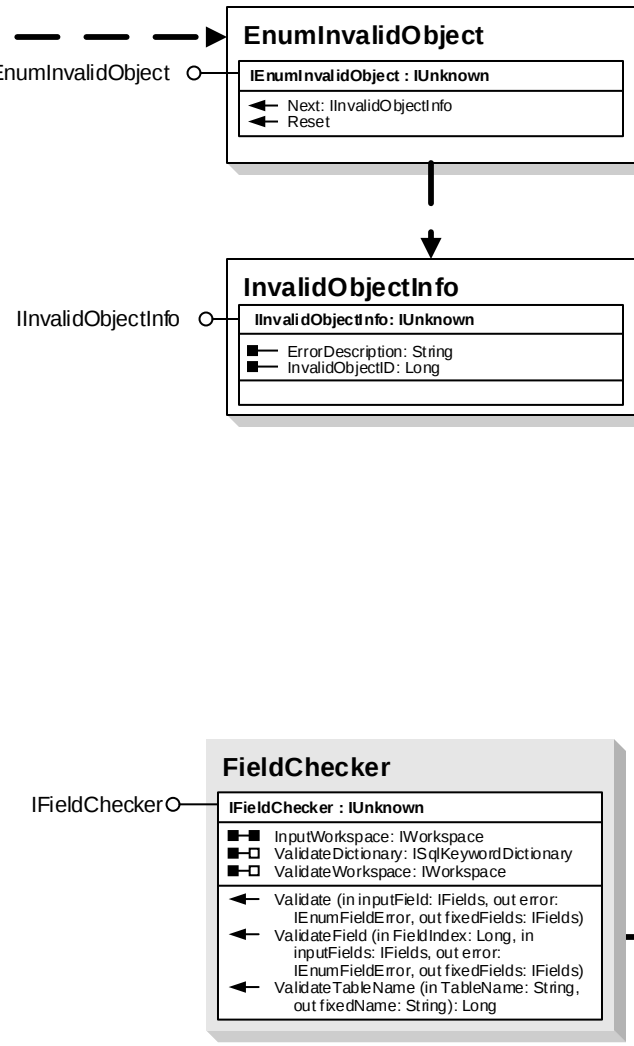
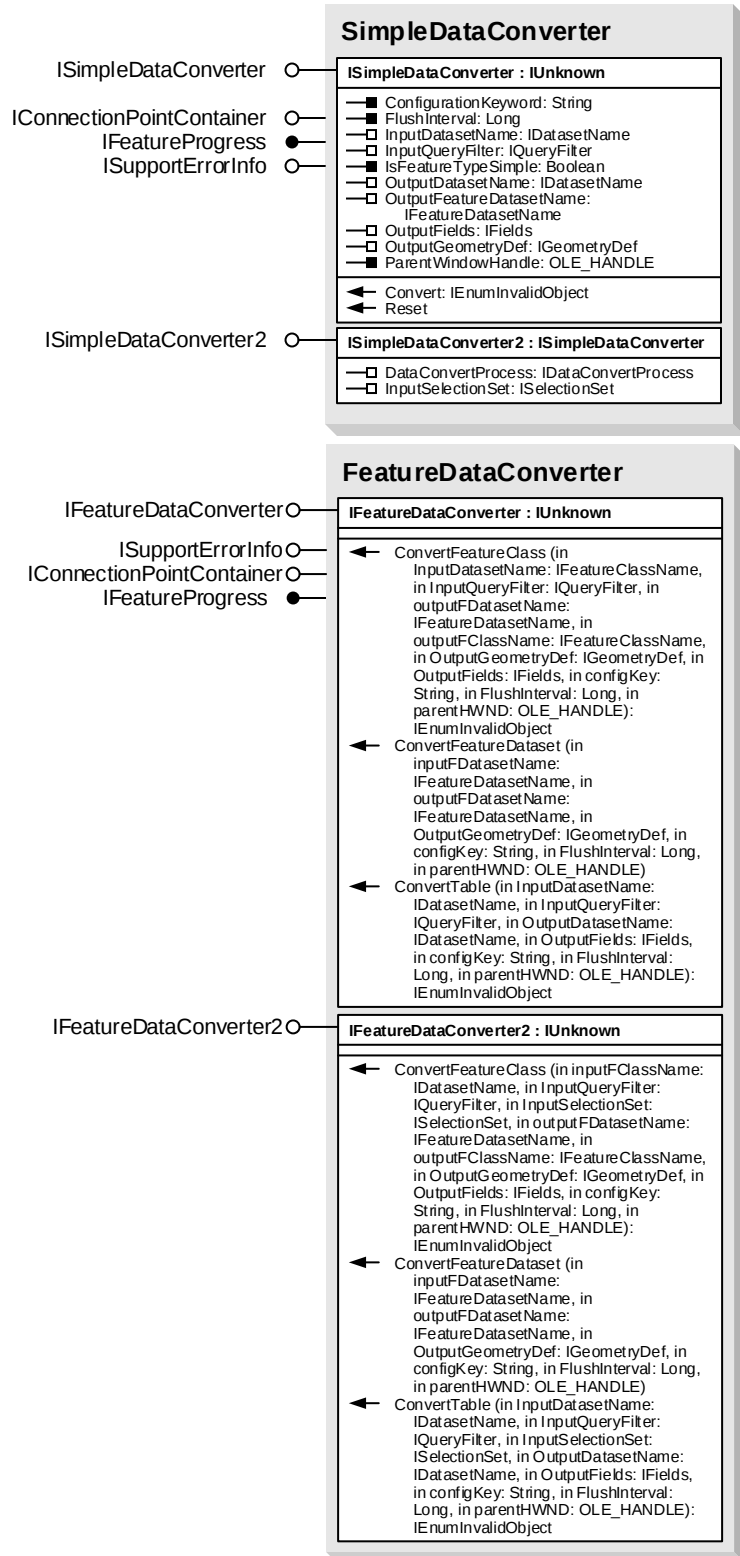
Geodatabase Object Model

Data Transfer

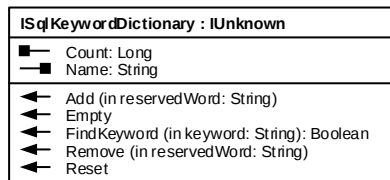
Esri® ArcGIS® 10.8

Copyright © 1999-2020 Esri. All rights reserved. Esri, ArcGIS, ArcObjects, and ArcMap are trademarks, registered trademarks, or service marks of Esri in the United States, the European Community, or certain other jurisdictions.

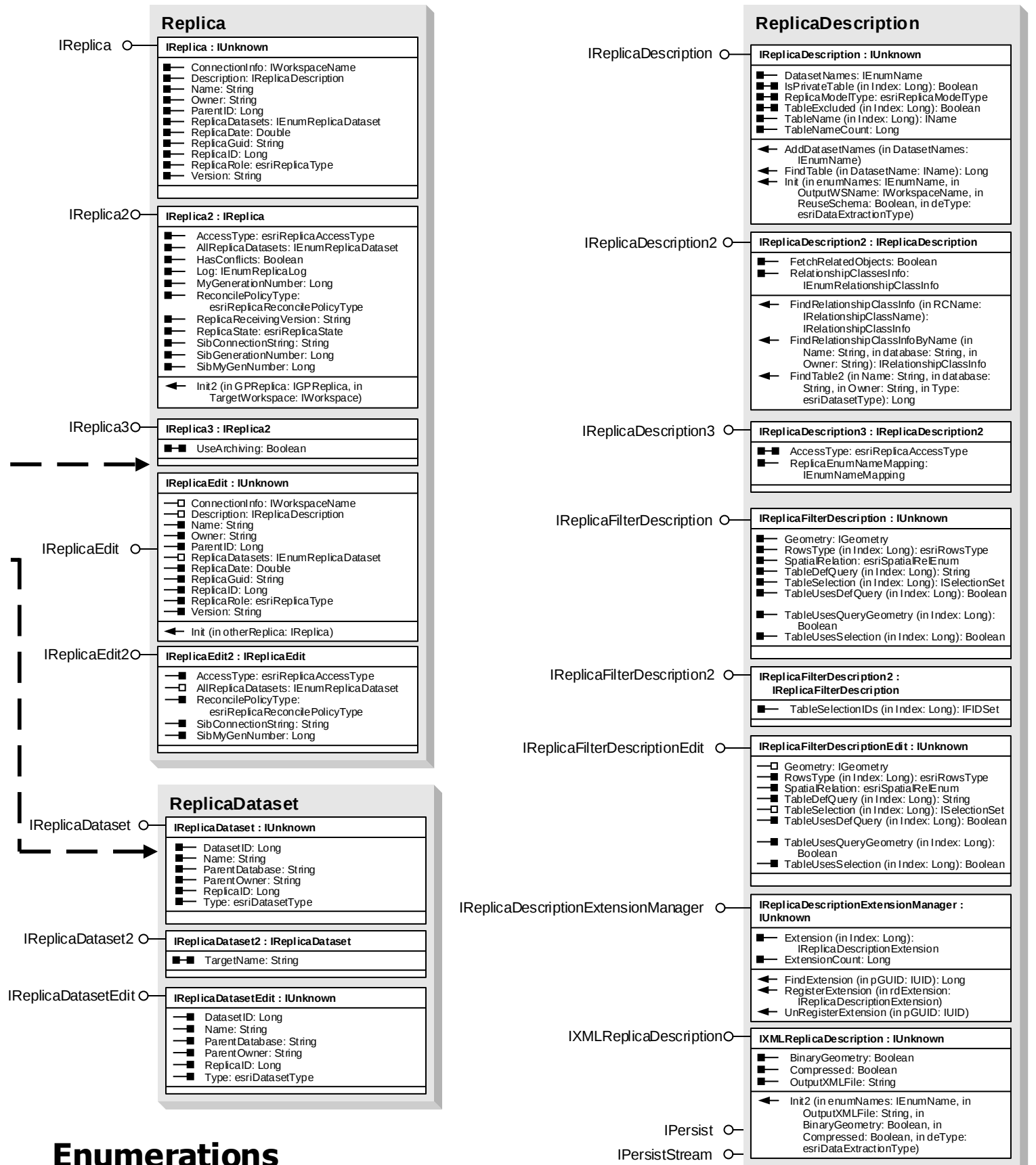
DataConverter Objects



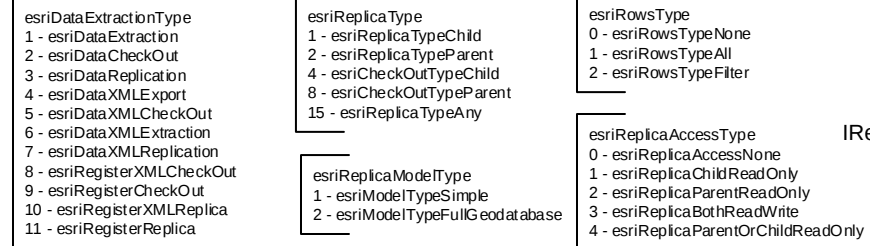
Interfaces



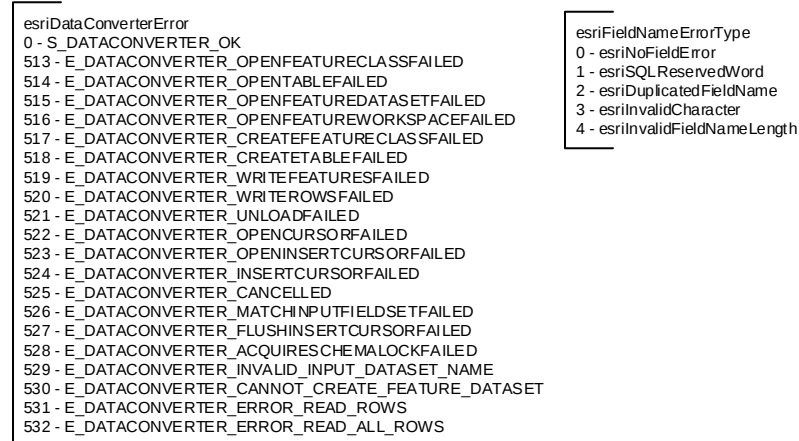
Distributed Geodatabase Core Objects



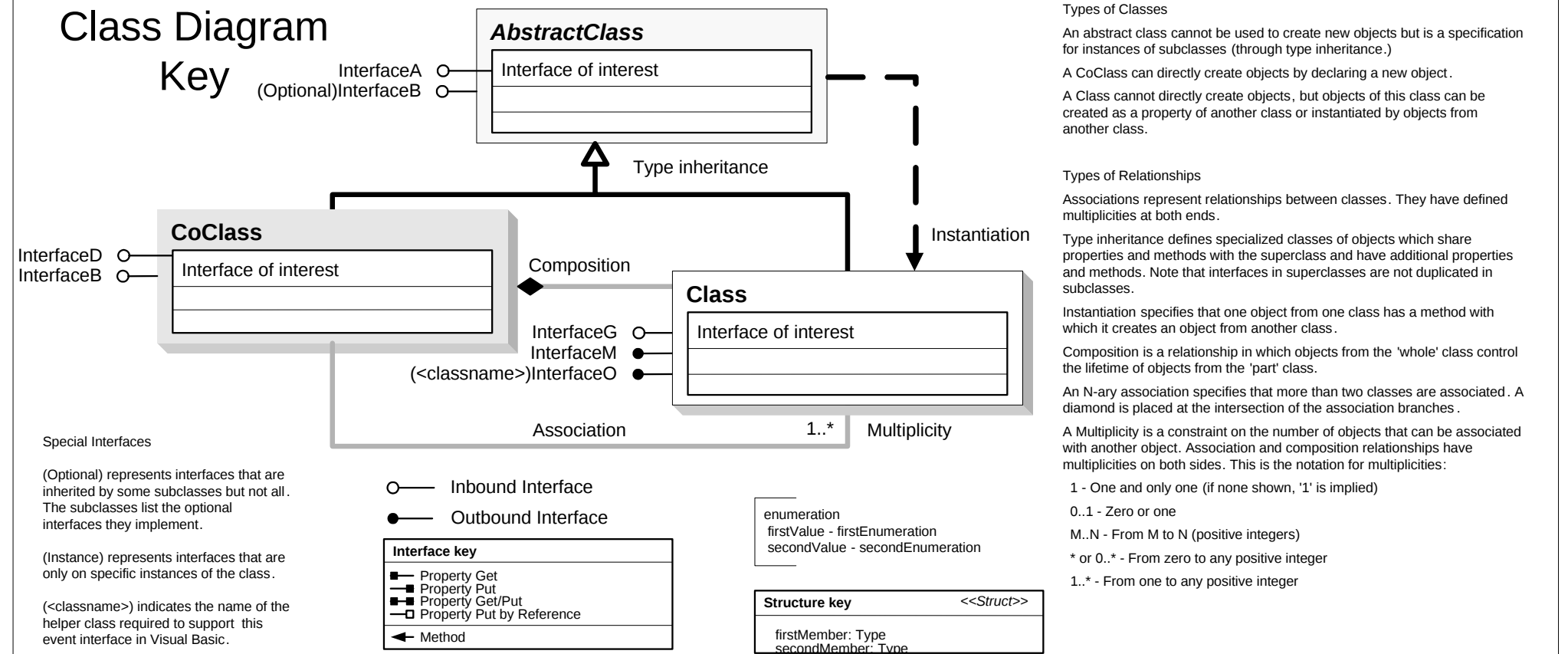
Enumerations



Enumerations



Class Diagram

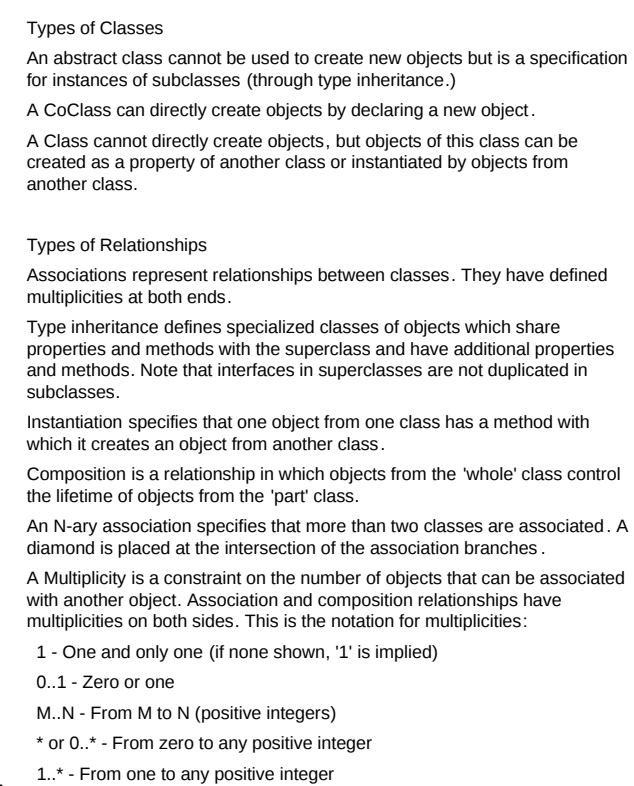


Esri® ArcGIS® 10.8

**Workspace in
Geodatabase Core**



Class Diagram

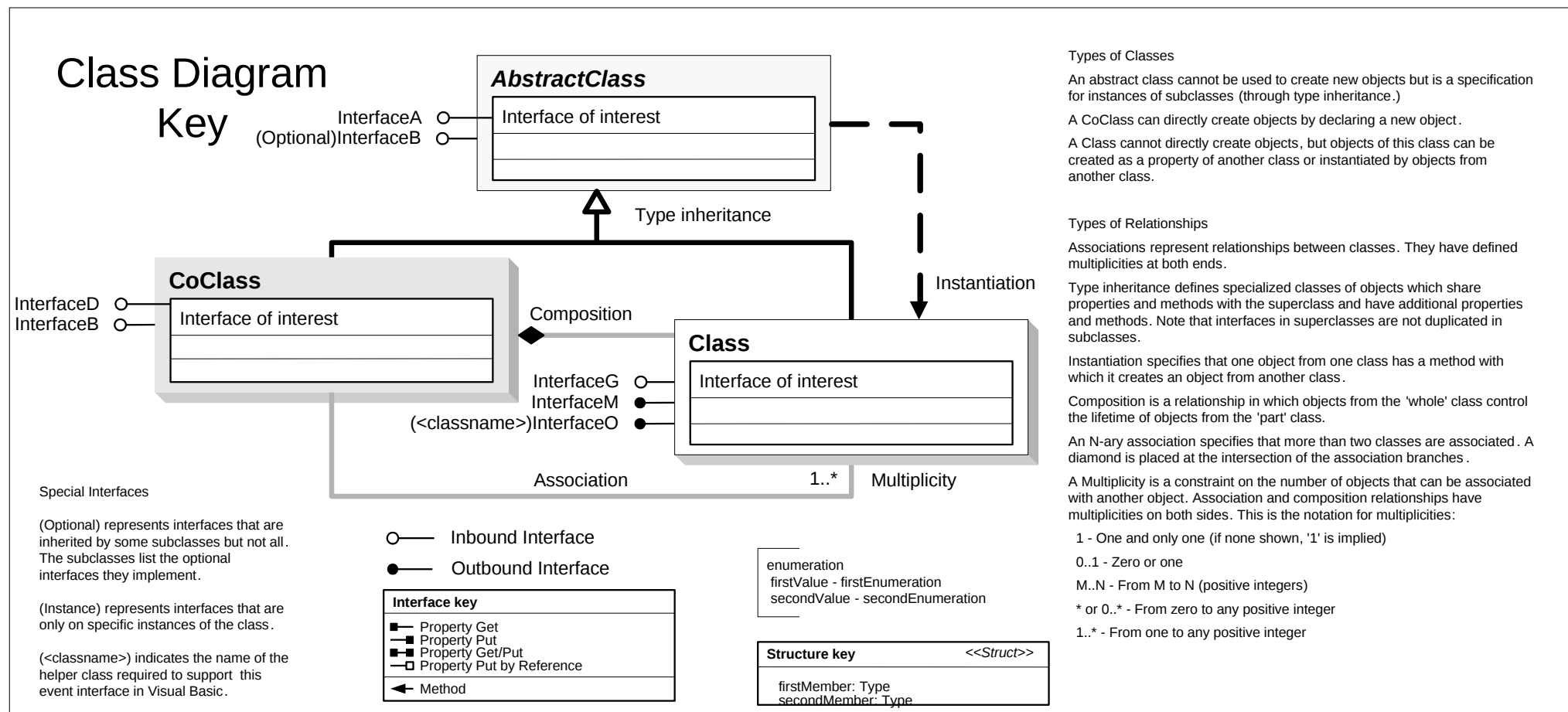
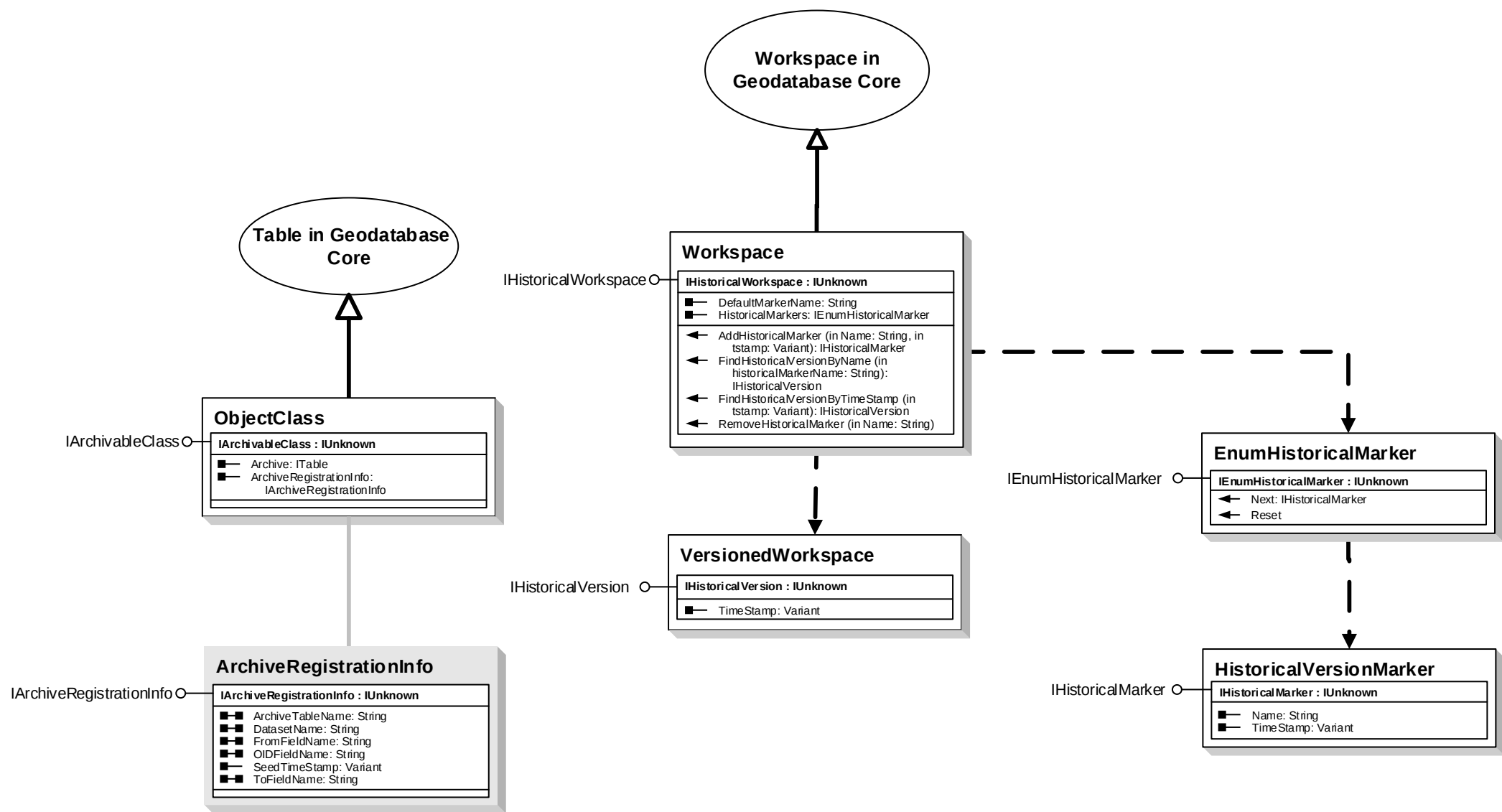


Geodatabase Object Model

Archiving

Esri® ArcGIS® 10.8

Copyright © 1999-2020 Esri. All rights reserved. Esri, ArcGIS, ArcObjects, and ArcMap are trademarks, registered trademarks, or service marks of Esri in the United States, the European Community, or certain other jurisdictions.

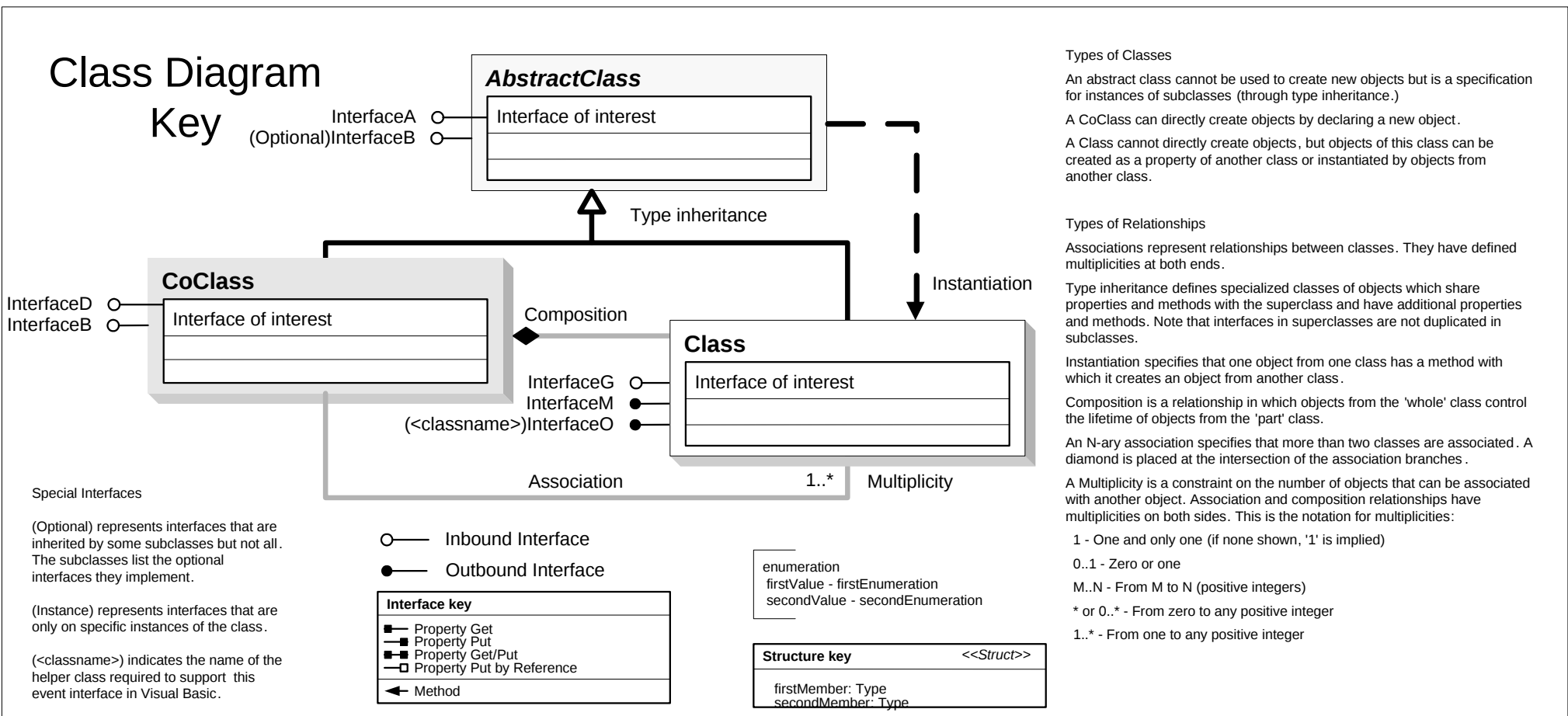
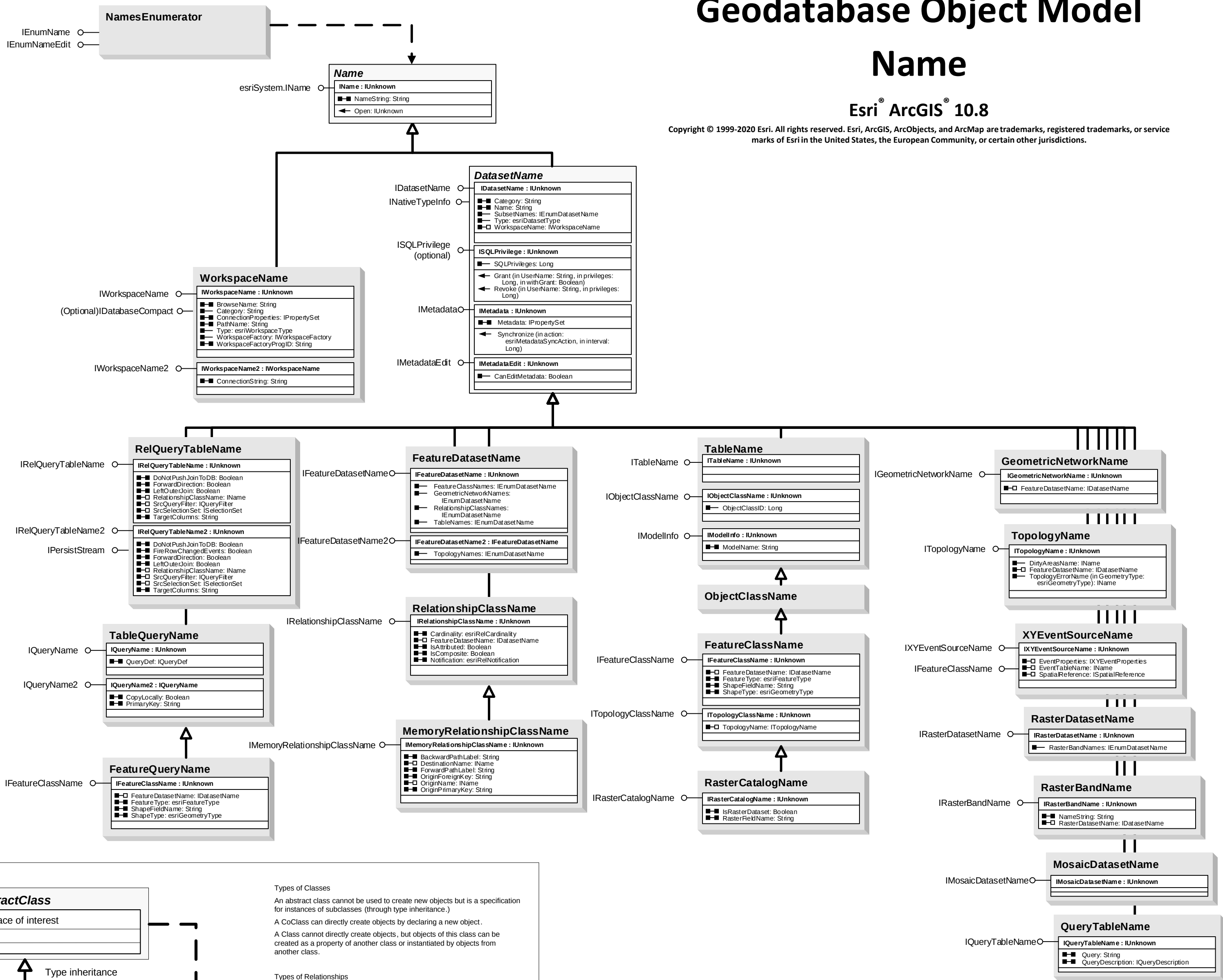


Geodatabase Object Model

Name

Esri® ArcGIS® 10.8

Copyright © 1999-2020 Esri. All rights reserved. Esri, ArcGIS, ArcObjects, and ArcMap are trademarks, registered trademarks, or service marks of Esri in the United States, the European Community, or certain other jurisdictions.

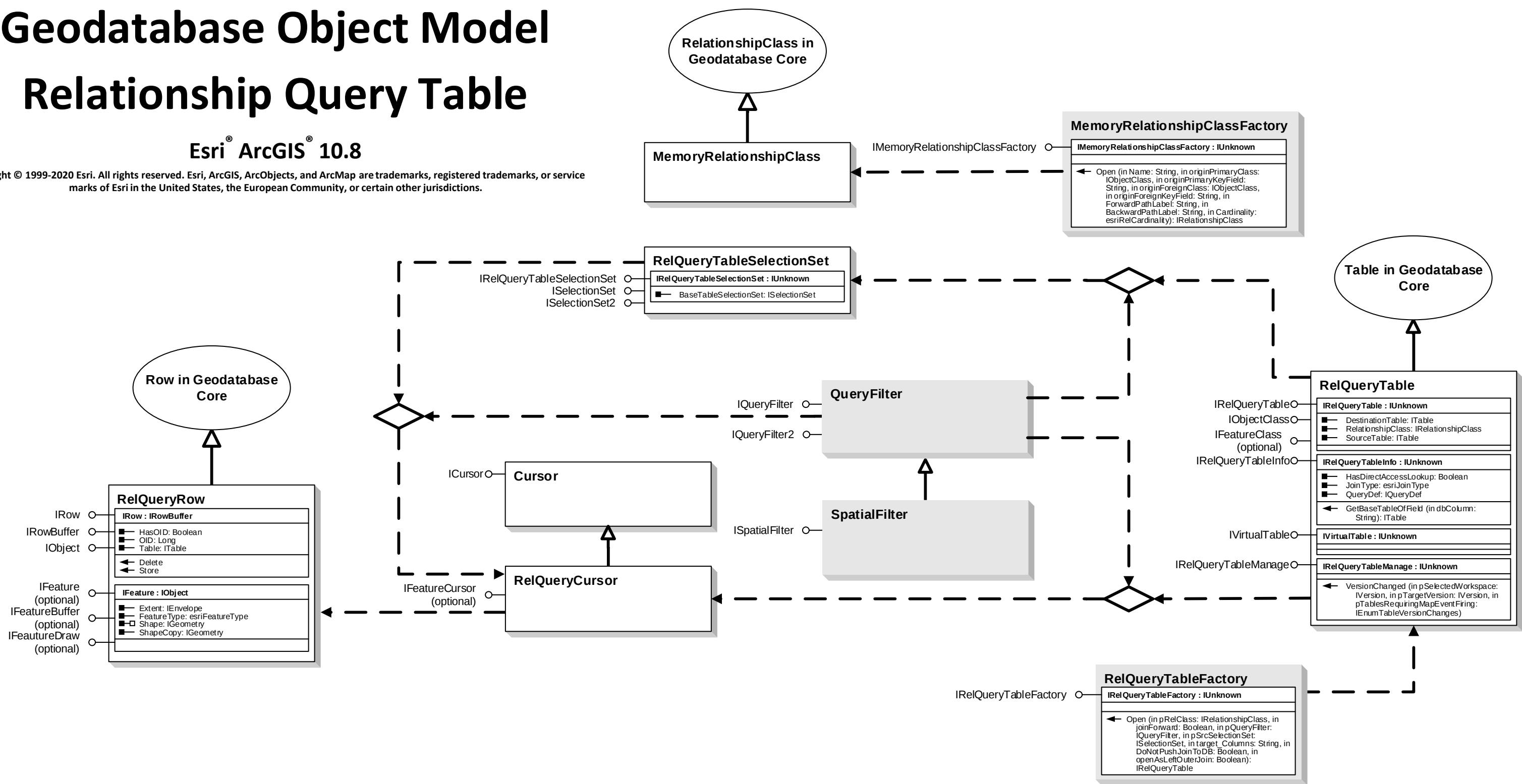


Geodatabase Object Model

Relationship Query Table

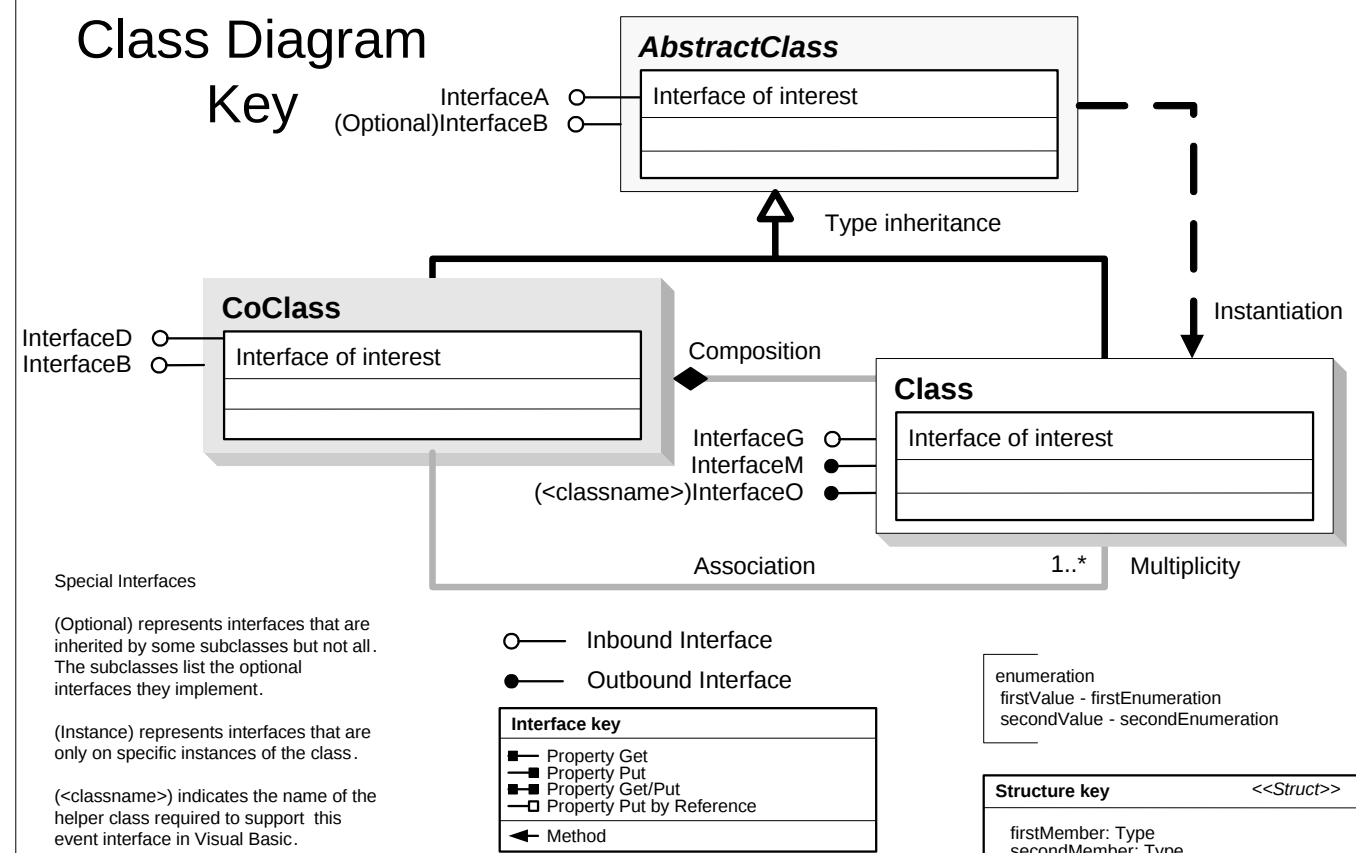
Esri® ArcGIS® 10.8

Copyright © 1999-2020 Esri. All rights reserved. Esri, ArcGIS, ArcObjects, and ArcMap are trademarks, registered trademarks, or service marks of Esri in the United States, the European Community, or certain other jurisdictions.



Class Diagram

Key



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.

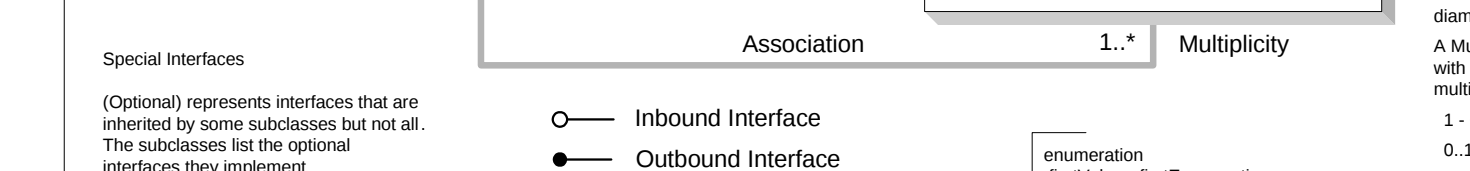
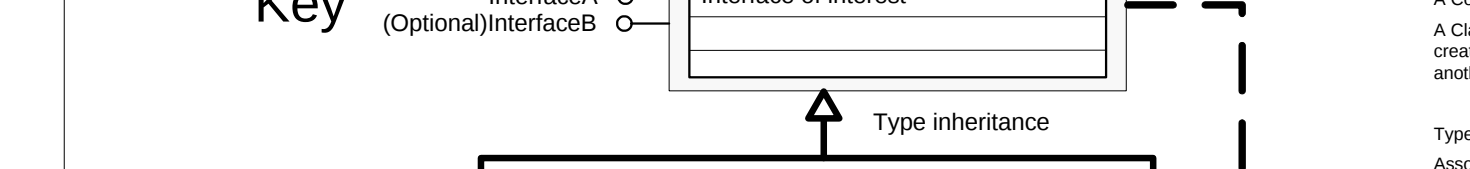
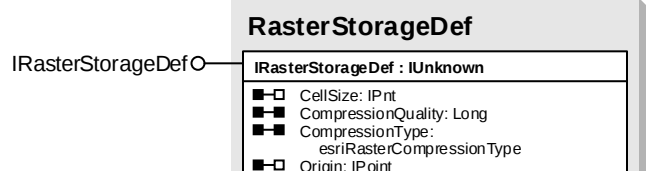
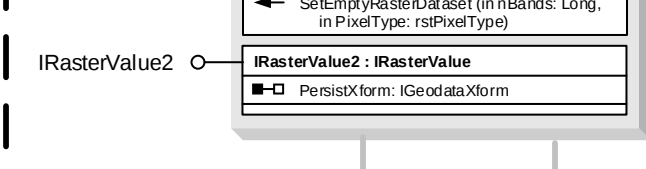
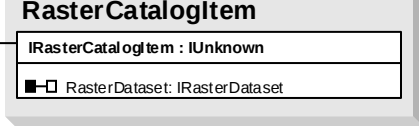
An N-ary association specifies that more than two classes are associated. A diamond is placed at the intersection of the association branches.

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:

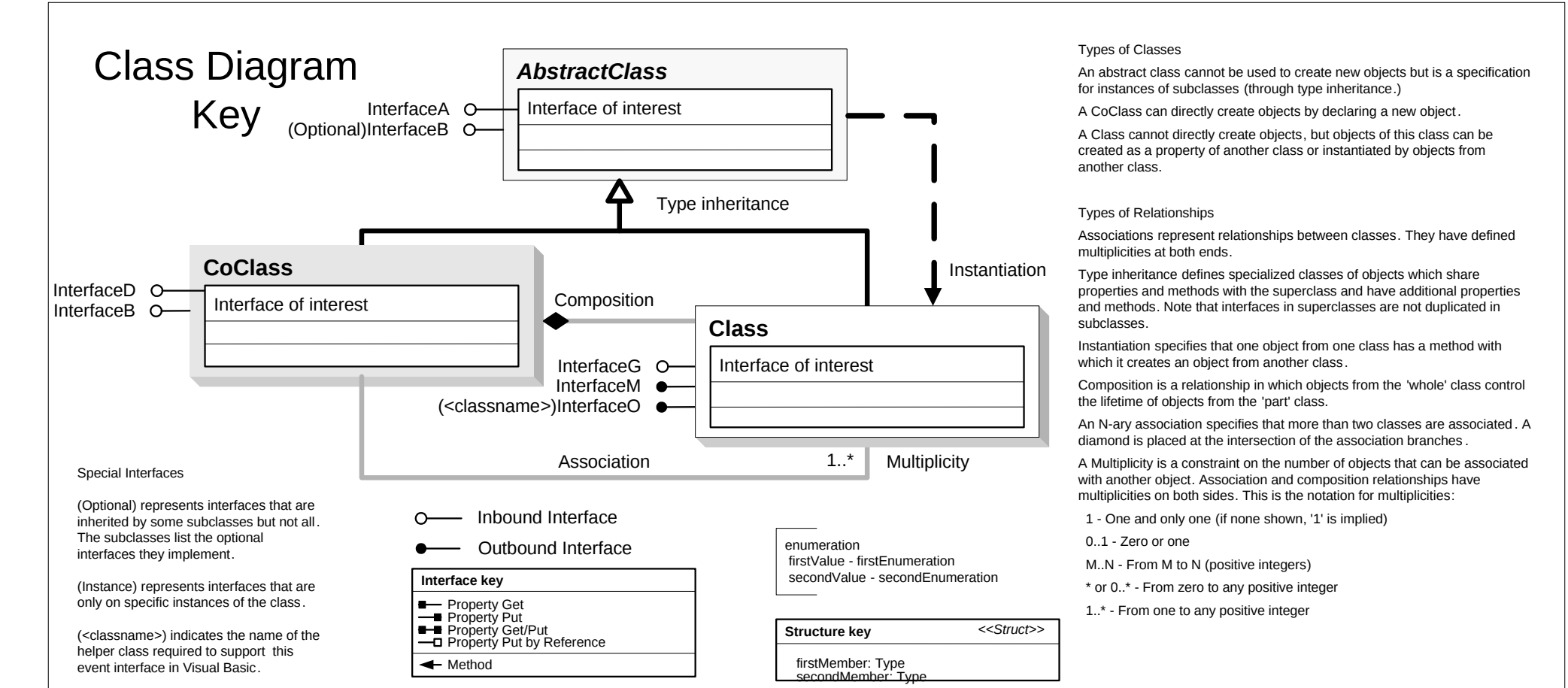
- 1 - One and only one (if none shown, '1' is implied)
- 0..1 - Zero or one
- M..N - From M to N (positive integers)
- * or 0..* - From zero to any positive integer
- 1..* - From one to any positive integer

Raster

Copyright © 1999-2020 Esri. All rights reserved. Esri, ArcGIS, ArcObjects, and ArcMap are trademarks, registered trademarks, or service marks of Esri in the United States, the European Community, or certain other jurisdictions.



```
rstPixelType
-1 - PT_UNKNOWN
```

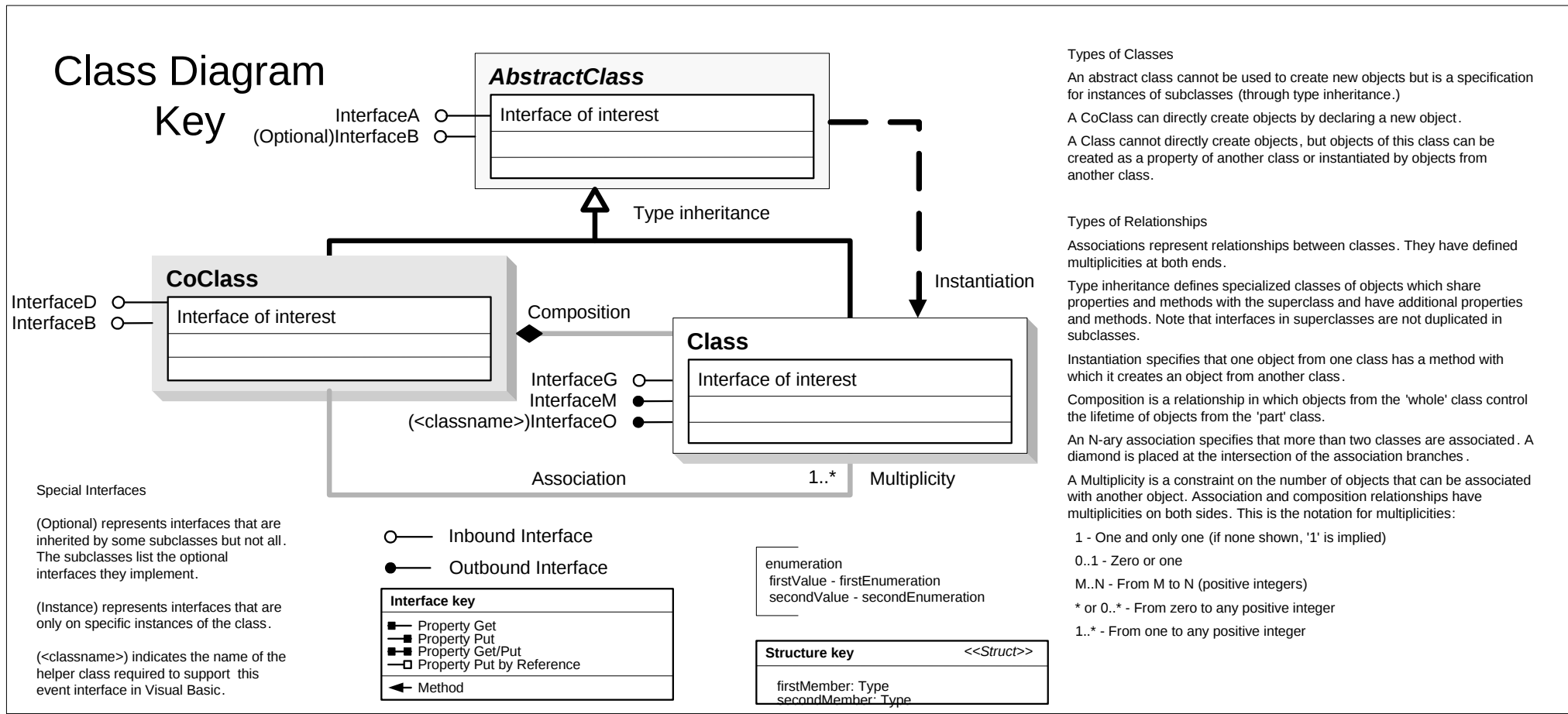
[illegible]

Geodatabase Object Model

Metadata

Esri® ArcGIS® 10.8

Copyright © 1999-2020 Esri. All rights reserved. Esri, ArcGIS, ArcObjects, and ArcMap are trademarks, registered trademarks, or service marks of Esri in the United States, the European Community, or certain other jurisdictions.



Enumerations

esriXmlPropertyType

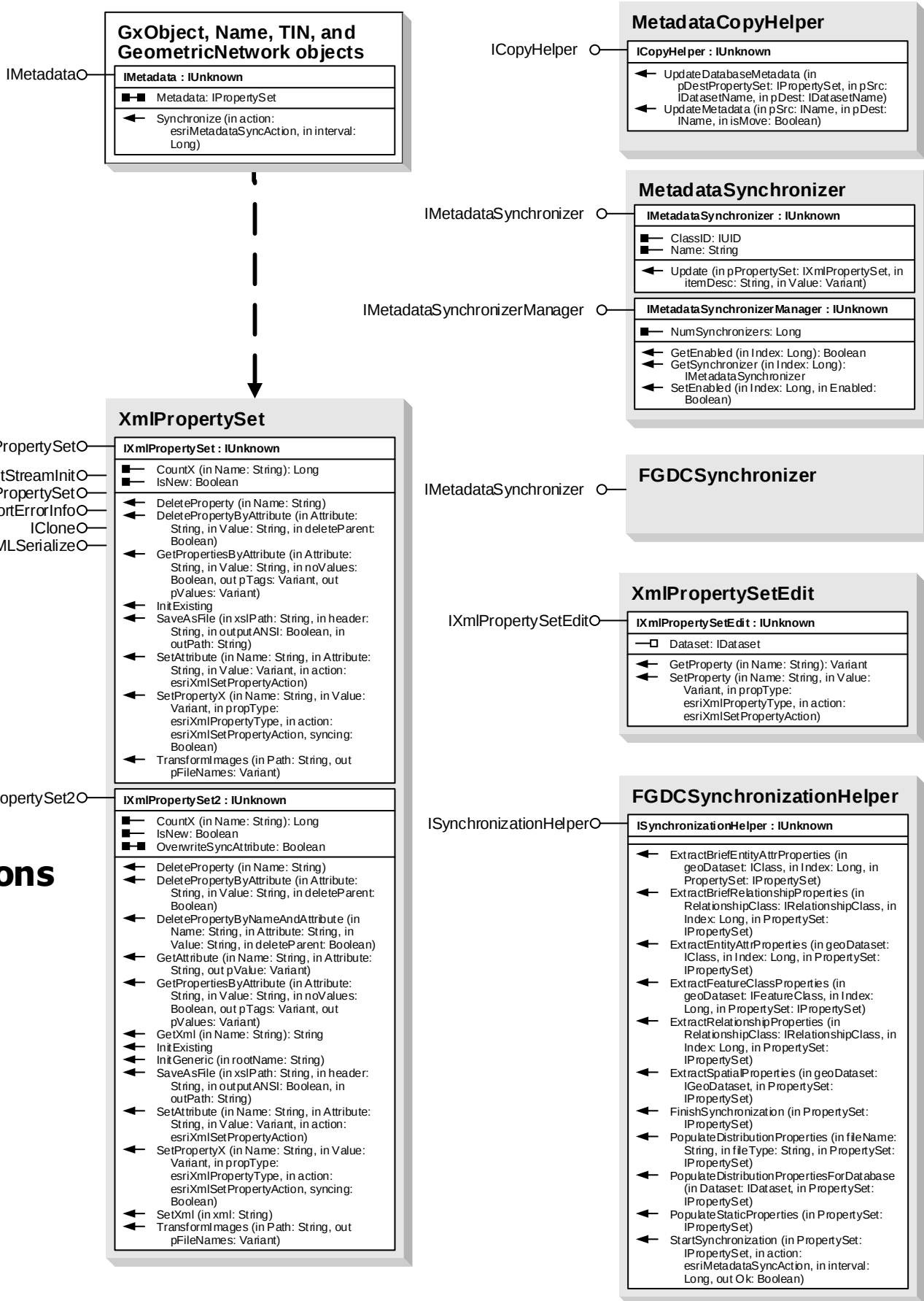
- 0 - esriXPTText
- 1 - esriXPTBinaryEnclosure
- 2 - esriXPTLink
- 3 - esriXPTPicture
- 4 - esriXPTImage

esriXmlSetPropertyAction

- 0 - esriXSPAAddOrReplace
- 1 - esriXSPAAddIfExists
- 2 - esriXSPAReplaceIfExists
- 3 - esriXSPAAddDuplicate

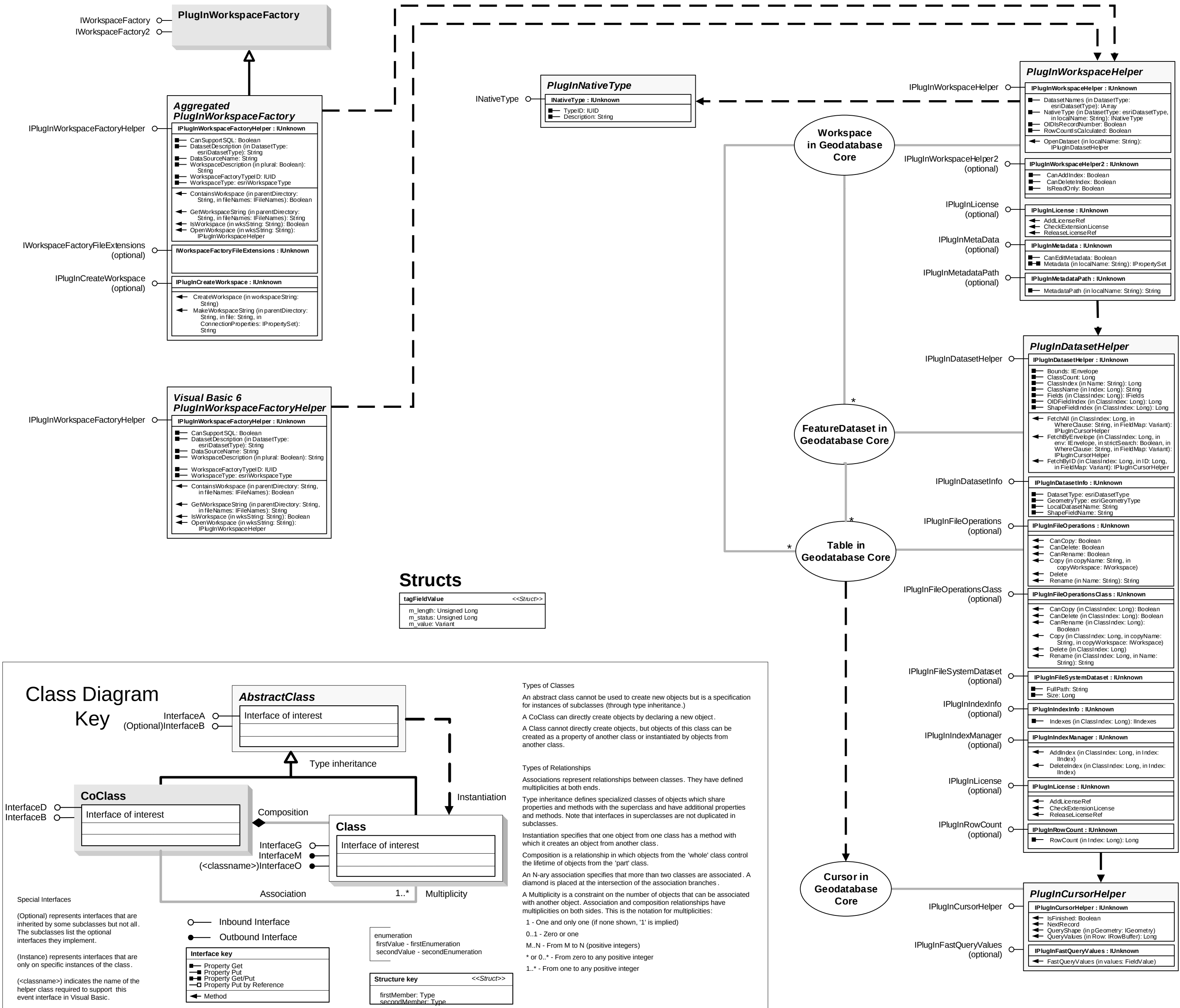
esriMetadataSyncAction

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



Esri® ArcGIS® 10.8

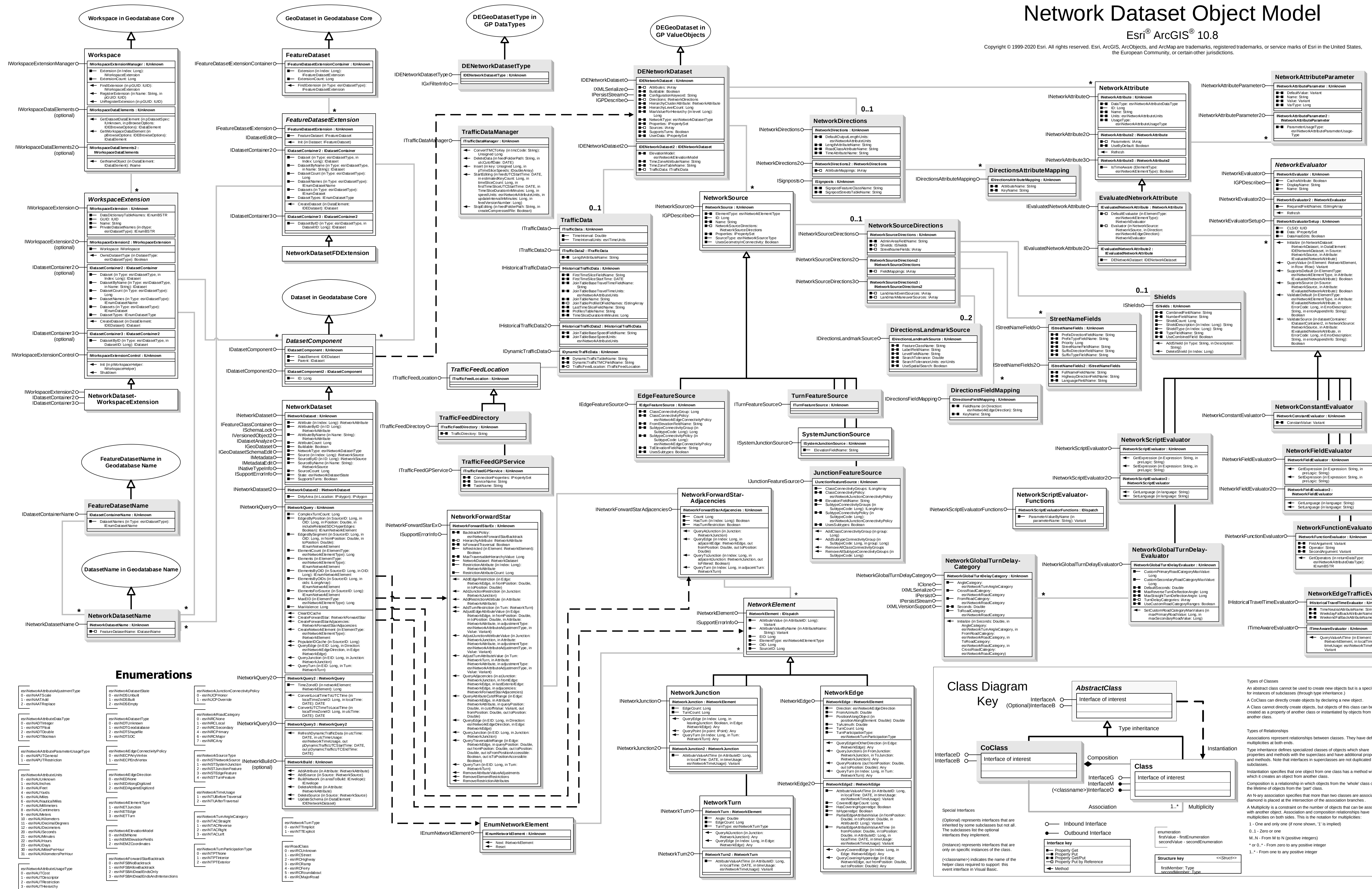
Copyright © 1999-2020 Esri. All rights reserved. Esri, ArcGIS, ArcObjects, and ArcMap are trademarks, registered trademarks, or service marks of Esri in the United States, the European Community, or certain other jurisdictions.



Network Dataset Object Model

Esri® ArcGIS® 10.8

Copyright © 1999-2020 Esri. All rights reserved. Esri, ArcGIS, ArcObjects, and ArcMap are trademarks, registered trademarks, or service marks of Esri in the United States, the European Community, or certain other jurisdictions.

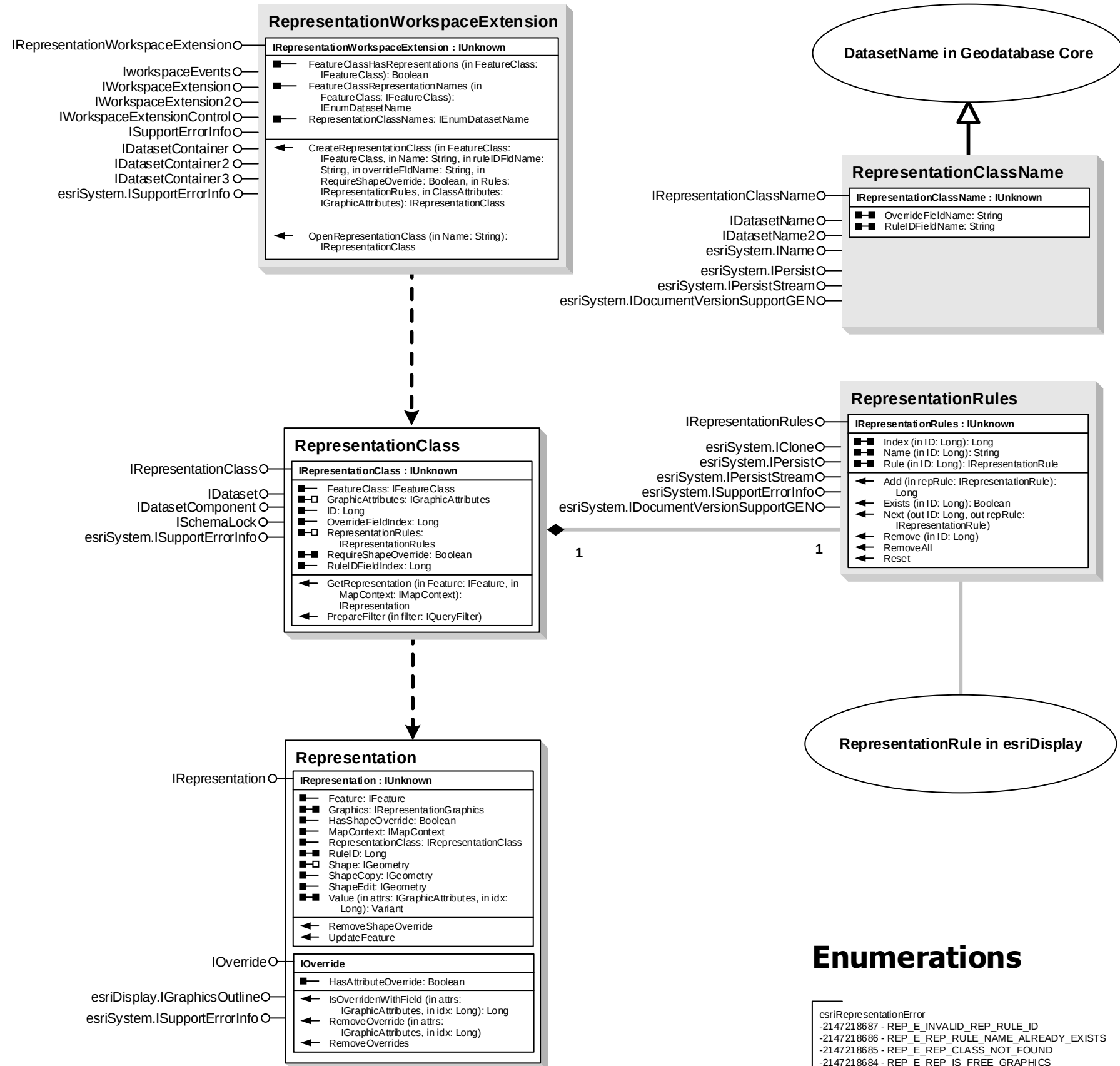


Geodatabase Object Model

Representation Class

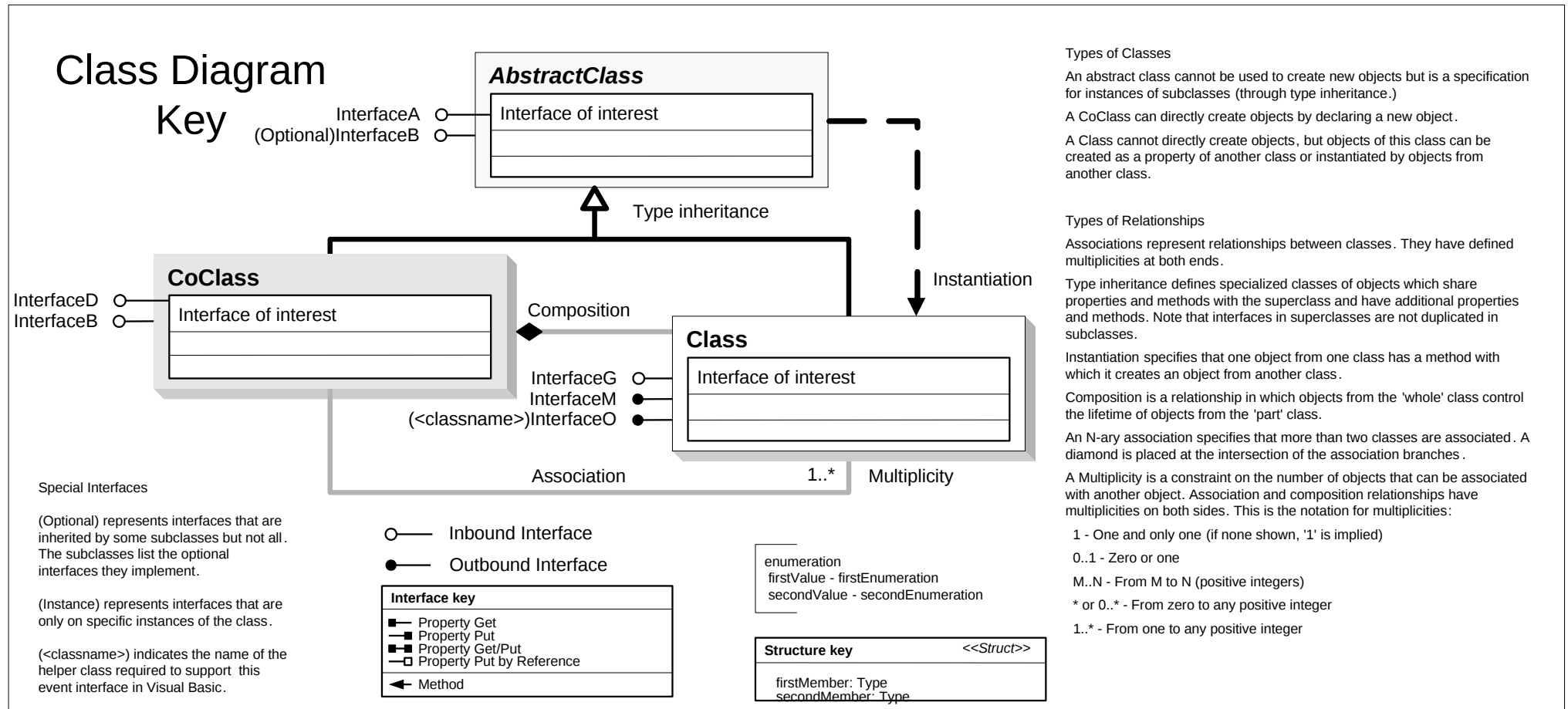
Esri® ArcGIS® 10.8

Copyright © 1999-2020 Esri. All rights reserved. Esri, ArcGIS, ArcObjects, and ArcMap are trademarks, registered trademarks, or service marks of Esri in the United States, the European Community, or certain other jurisdictions.



Enumerations

```
esriRepresentationErr  
-2147218607 - REP_E_INVALID_REP_RULE_ID  
-2147218606 - REP_E_REP_RULE_NAME_ALREADY_EXISTS  
-2147218605 - REP_E_REP_CLASS_NOT_FOUND  
-2147218604 - REP_E_REP_IS_FREE_GRAPHICS  
-2147218603 - REP_E_REP_USES_REP_RULE  
-2147218602 - REP_E_CANT_ACQUIRE_SCHEMA_LOCK  
-2147218601 - REP_E_OBJECT_IS_DELETED  
-2147218600 - REP_E_NO_REP_RULES  
-2147218679 - REP_E_WORKSPACE_DOESNT_SUPPORT_REP_EXTENSION  
-2147218678 - REP_E_FEATURE_TYPE_NOT_SUPPORTED  
-2147218677 - REP_E_GEODATABASE_DOESNT_SUPPORT_REPRESENTATIONS  
-2147218676 - REP_E_NO_REP_SYSTEM_TABLES  
-2147218675 - REP_E_REP_CLASS_NAME_ALREADY_EXISTS  
-2147218674 - REP_E_FIELD_NAME_ALREADY_EXISTS  
-2147218673 - REP_E_NAME_HAS_INVALID_CHARACTERS  
-2147218672 - REP_E_MUST_BE_THE_OWNER  
-2147218671 - REP_E_INVALID_LICENSE  
-2147218670 - REP_E_COMPRESSED_FEATURE_CLASS
```



Geodatabase Object Model

Query Classes

Esri® ArcGIS® 10.8

Copyright © 1999-2020 Esri. All rights reserved. Esri, ArcGIS, ArcObjects, and ArcMap are trademarks, registered trademarks, or service marks of Esri in the United States, the European Community, or certain other jurisdictions.

