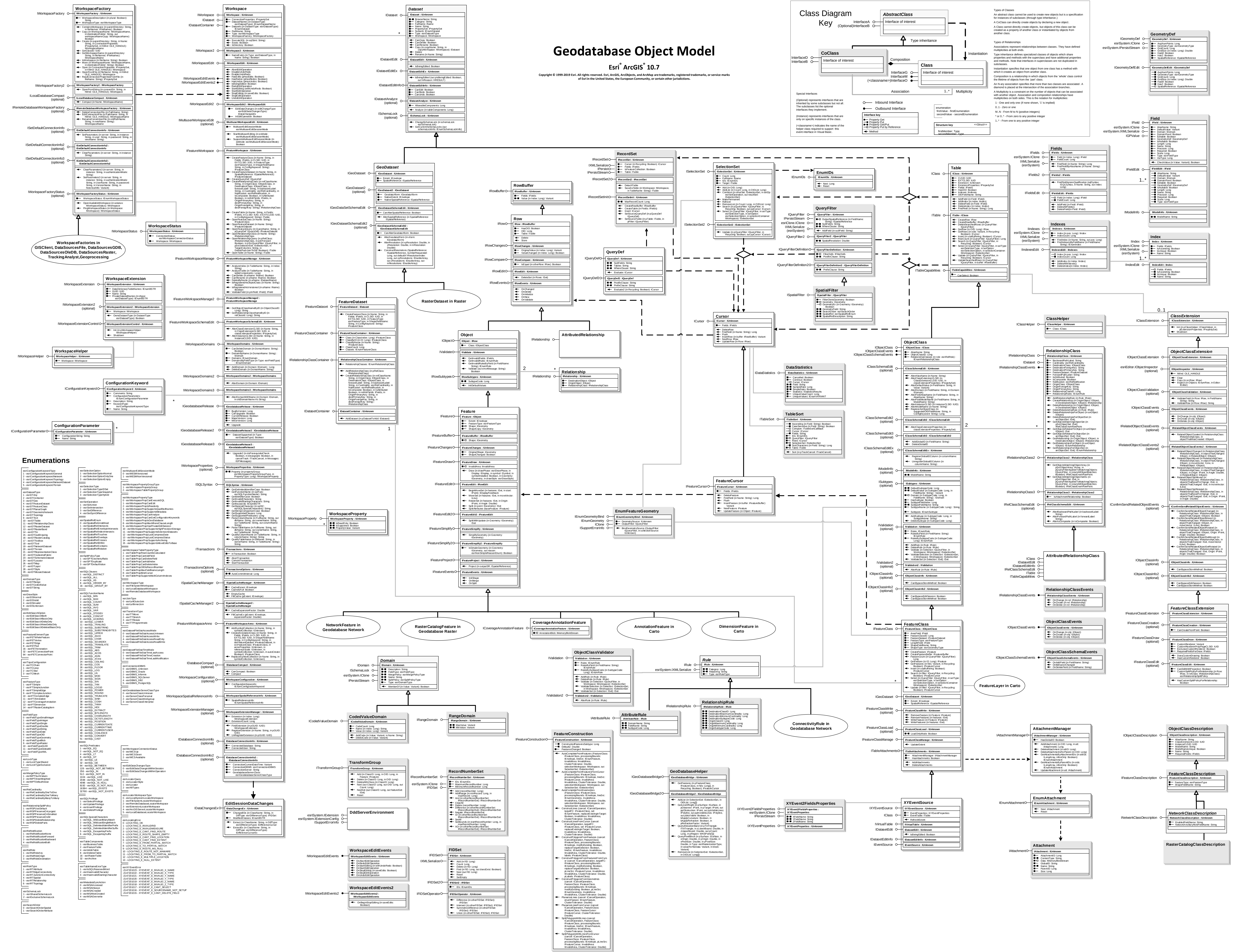
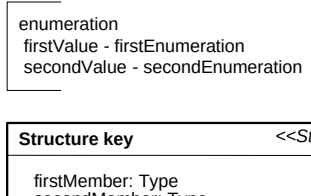




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Class Diagram

Key

(Optional) InterfaceA
InterfaceB
InterfaceC
InterfaceD
InterfaceE

AbstractClass

Interface of interest

Type inheritance

CoClass

Interface of interest

Composition

InterfaceA
InterfaceB
<classname>InterfaceC

Association

Class

Interface of interest

Instantiation

1..*

Multiplicity

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.

— Inbound Interface
● Outbound Interface

Interface key

- Property Get
- Property Put
- Property Get/Put
- Property Put by Reference
- ◄ Method

Enumeration

enumeration
firstValue - firstEnumeration
secondValue - secondEnumeration

Structure key

<<Struct>>

firstMember_Type
secondMember_Type

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

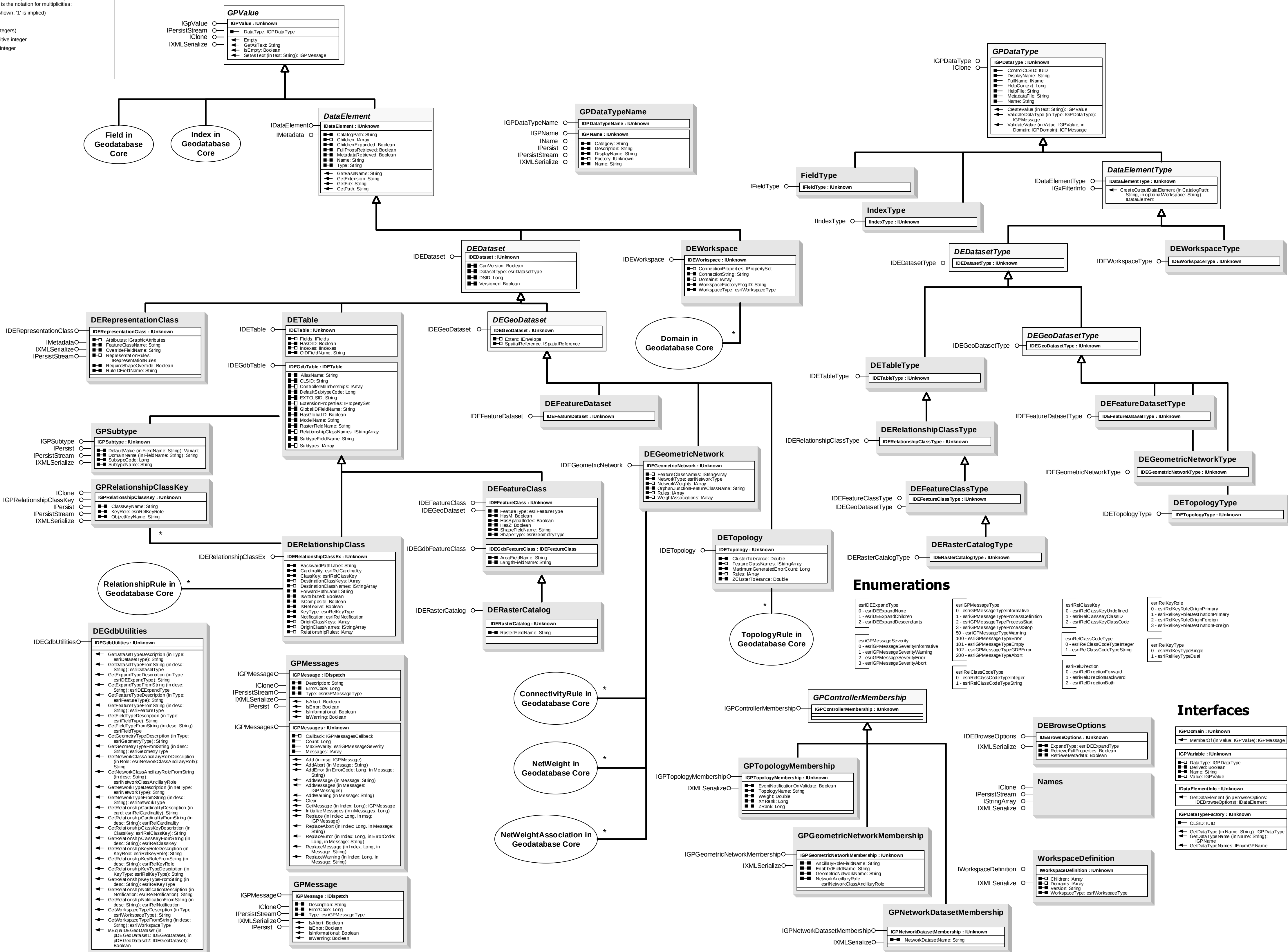
- Types of Classes
 - An abstract class cannot be used to create new objects but is a specification for instances of subclasses (through type inheritance).
 - A C++ class can directly create objects by declaring a new object.
 - A C++ class cannot directly create objects, but objects of this class can 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 with subclasses.
 - Instantiation specifies that one object from one class has a method with which it creates an object from another class.
 - Aggregation 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 multiplicity of 1 is used for the class that has no 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:
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Geodatabase Object Model

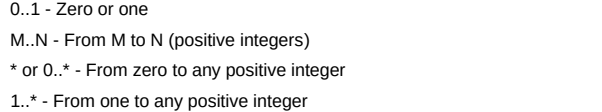
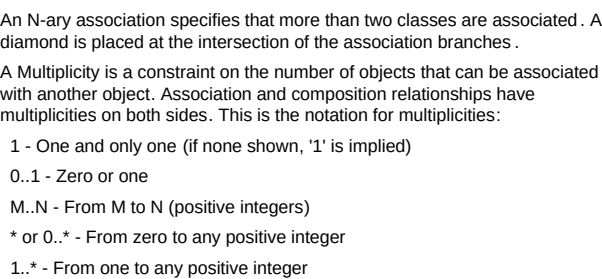
Data Elements

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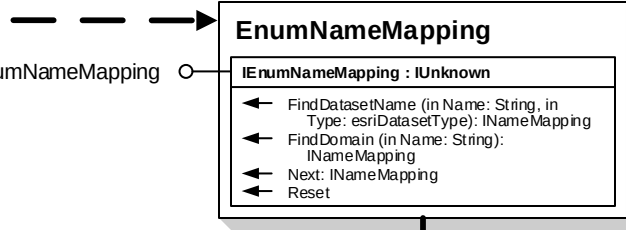
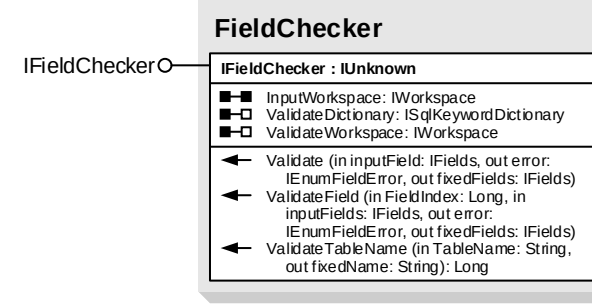
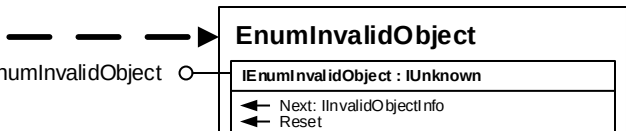
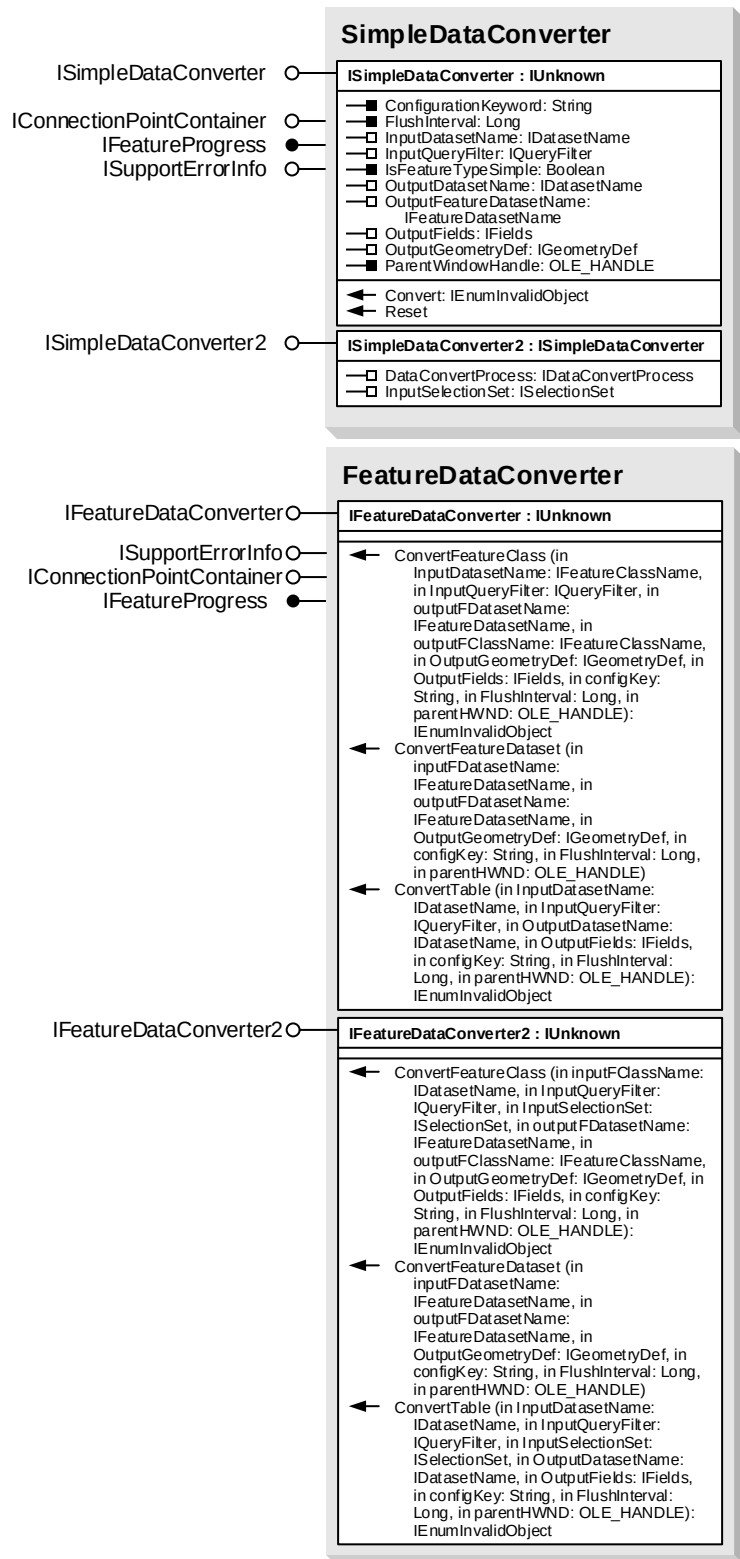
Geodatabase Object Model

Data Transfer

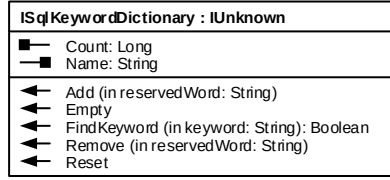
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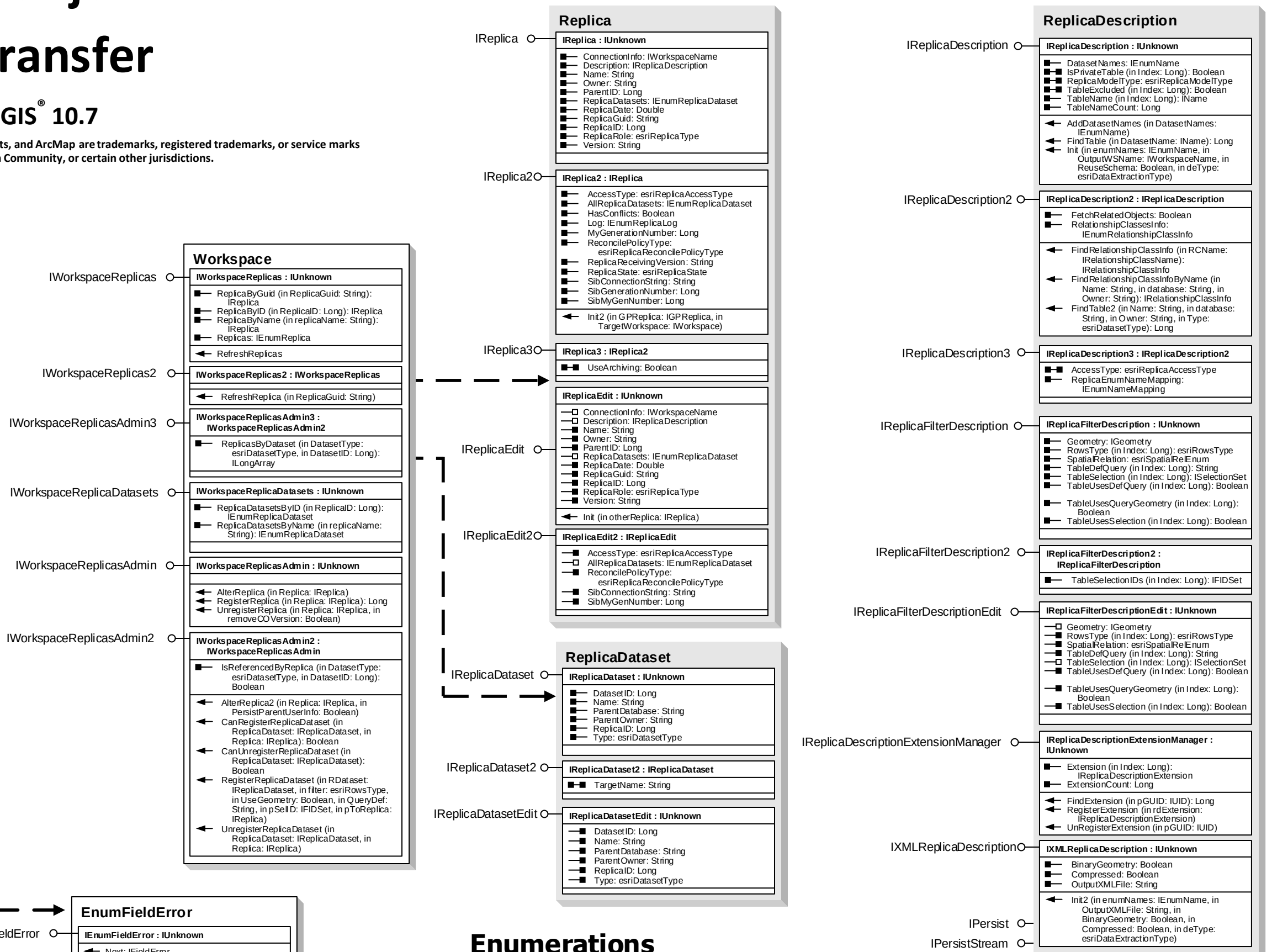
DataConverter Objects



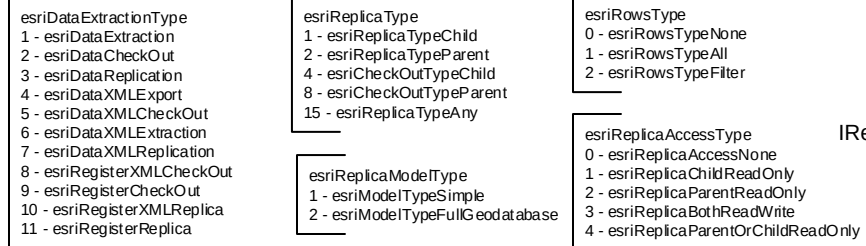
Interfaces



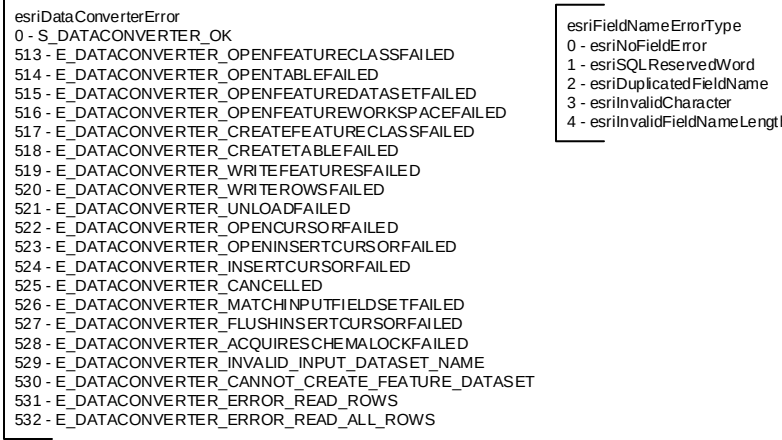
Distributed Geodatabase Core Objects



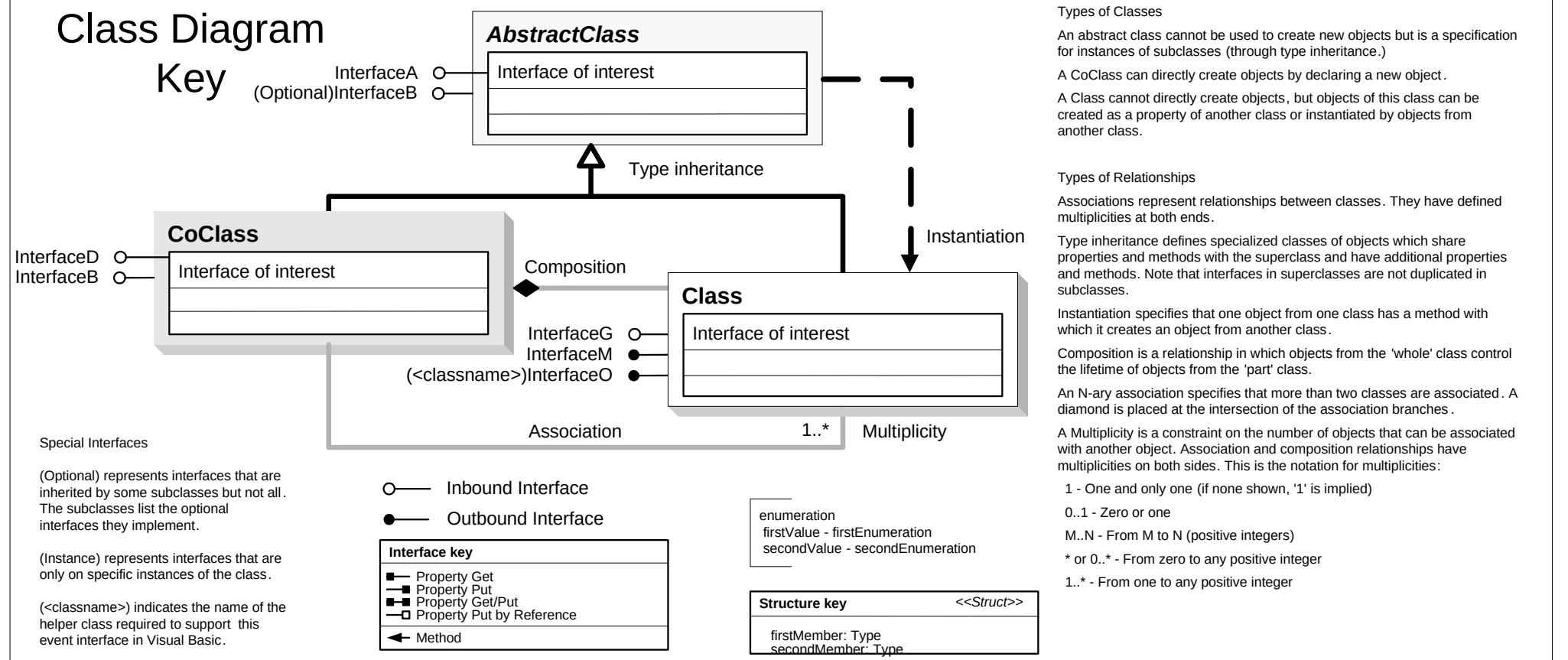
Enumerations



Enumerations



Class Diagram

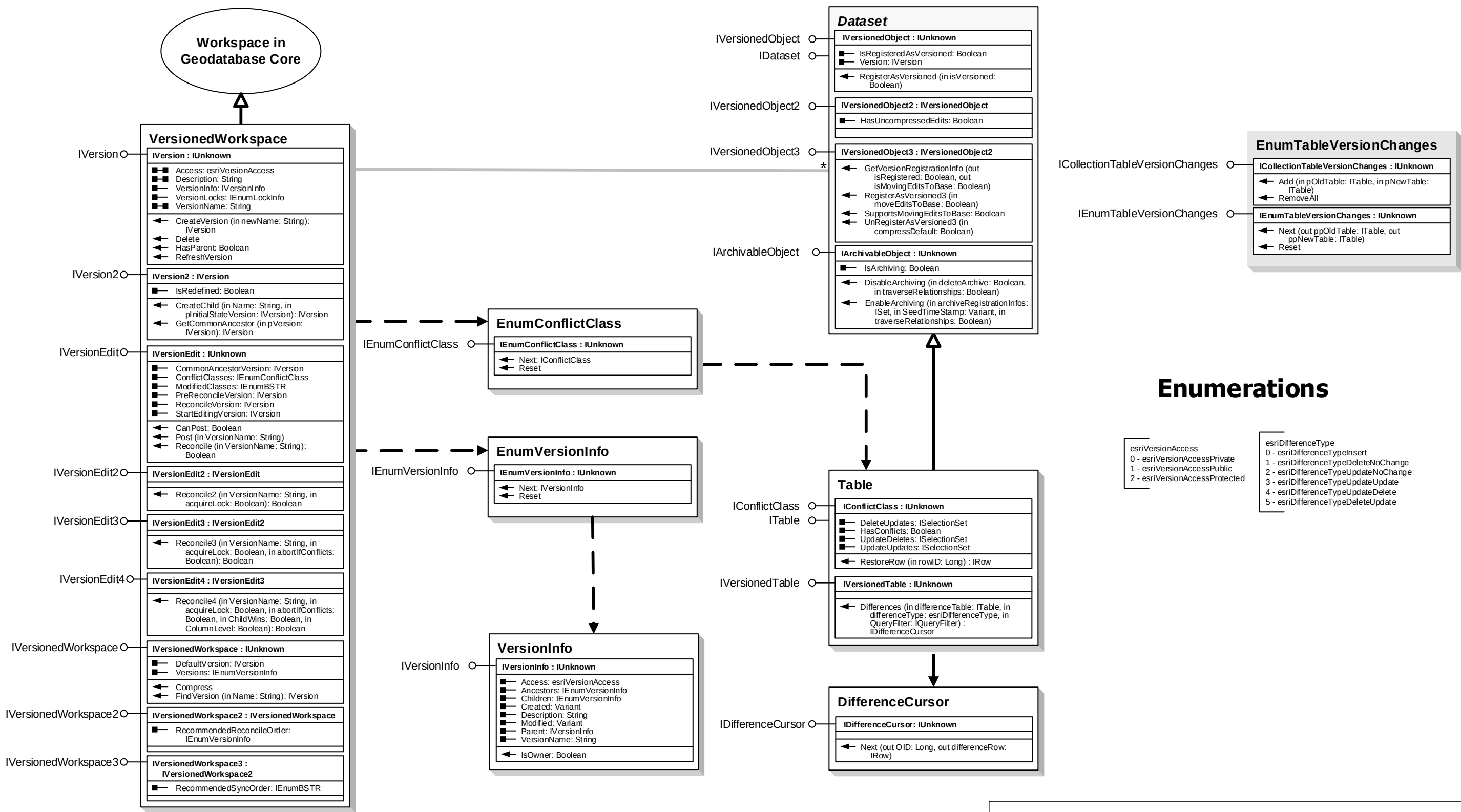


Geodatabase Object Model

Versioning

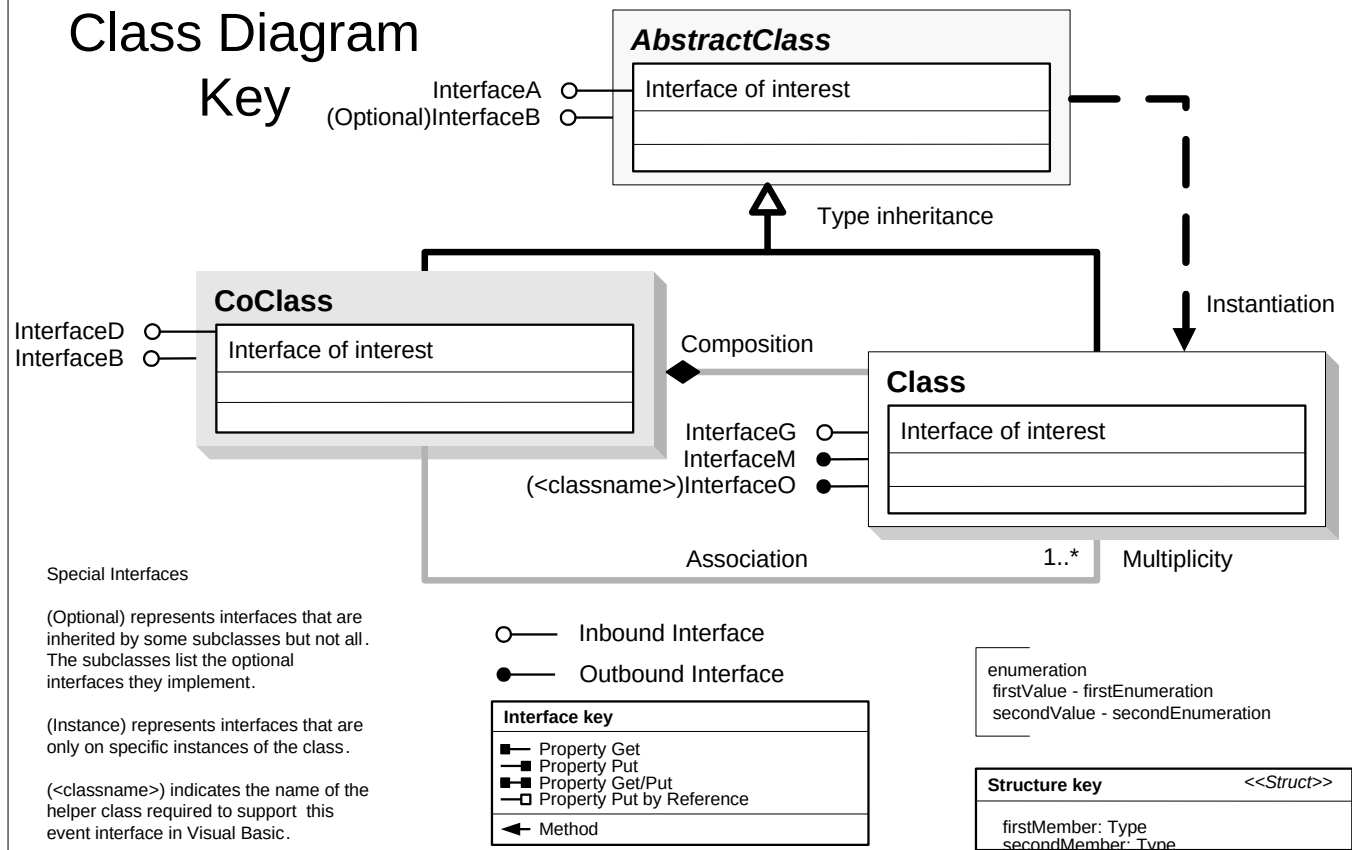
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Class Diagram

Key



Types of Classes

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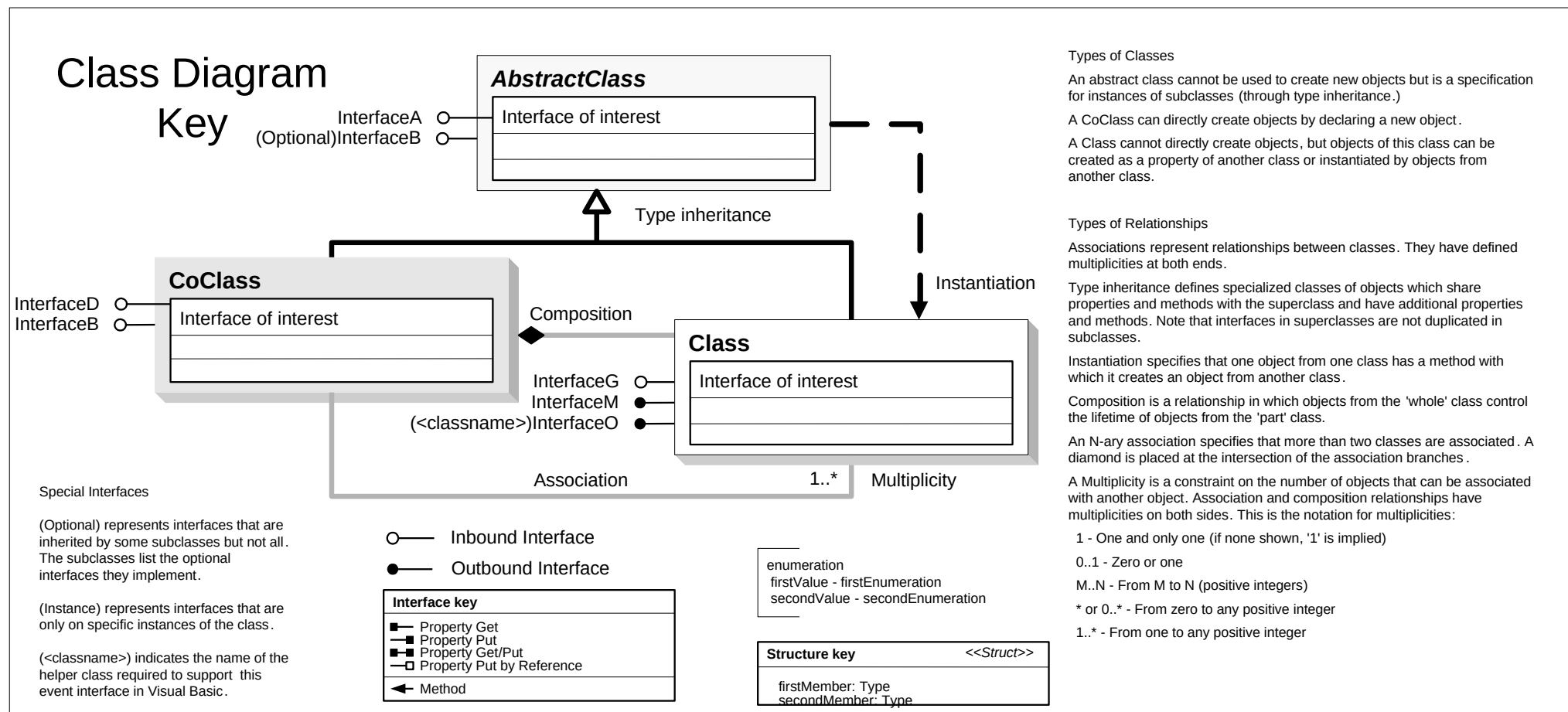
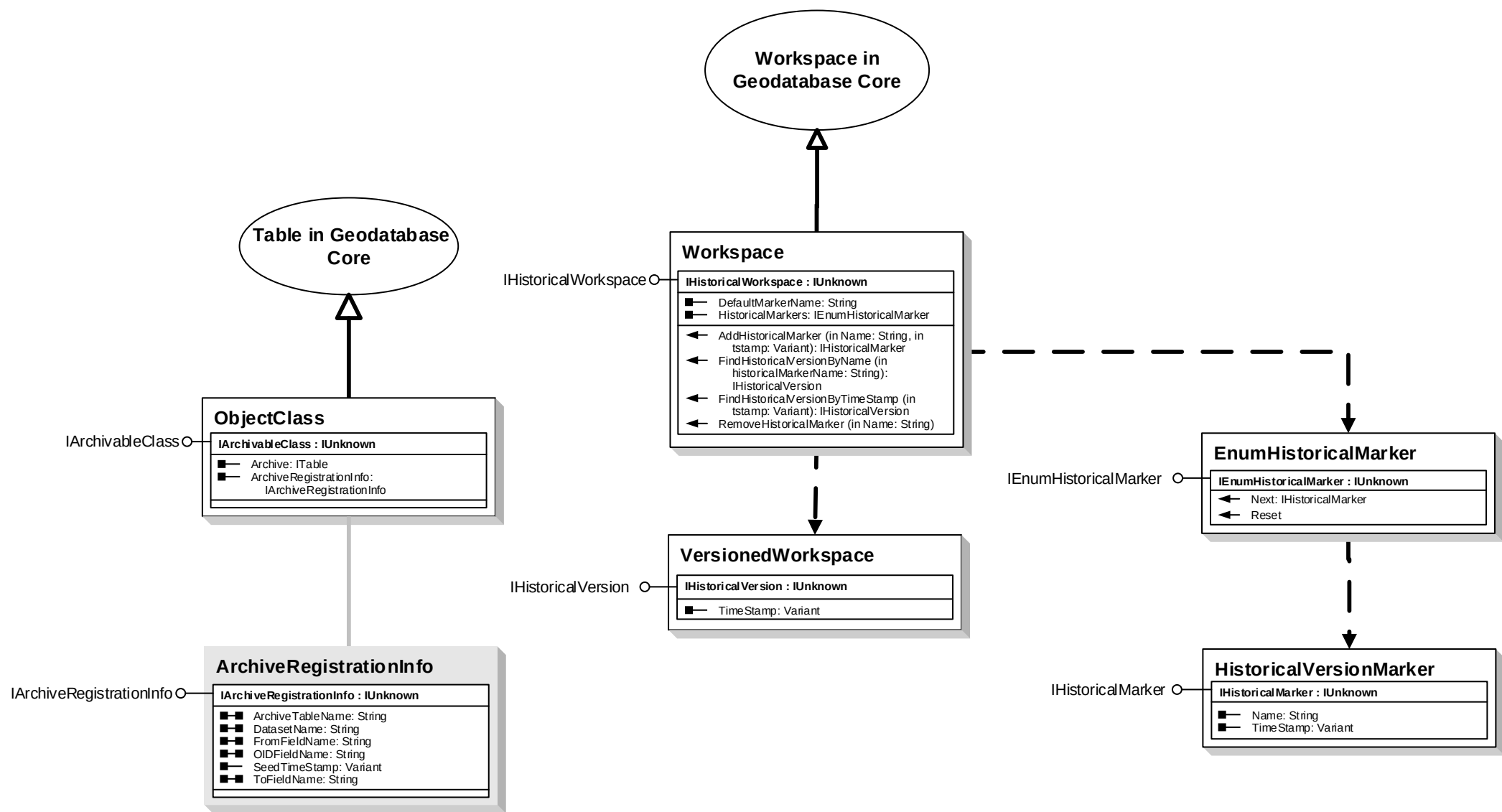
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Geodatabase Object Model

Archiving

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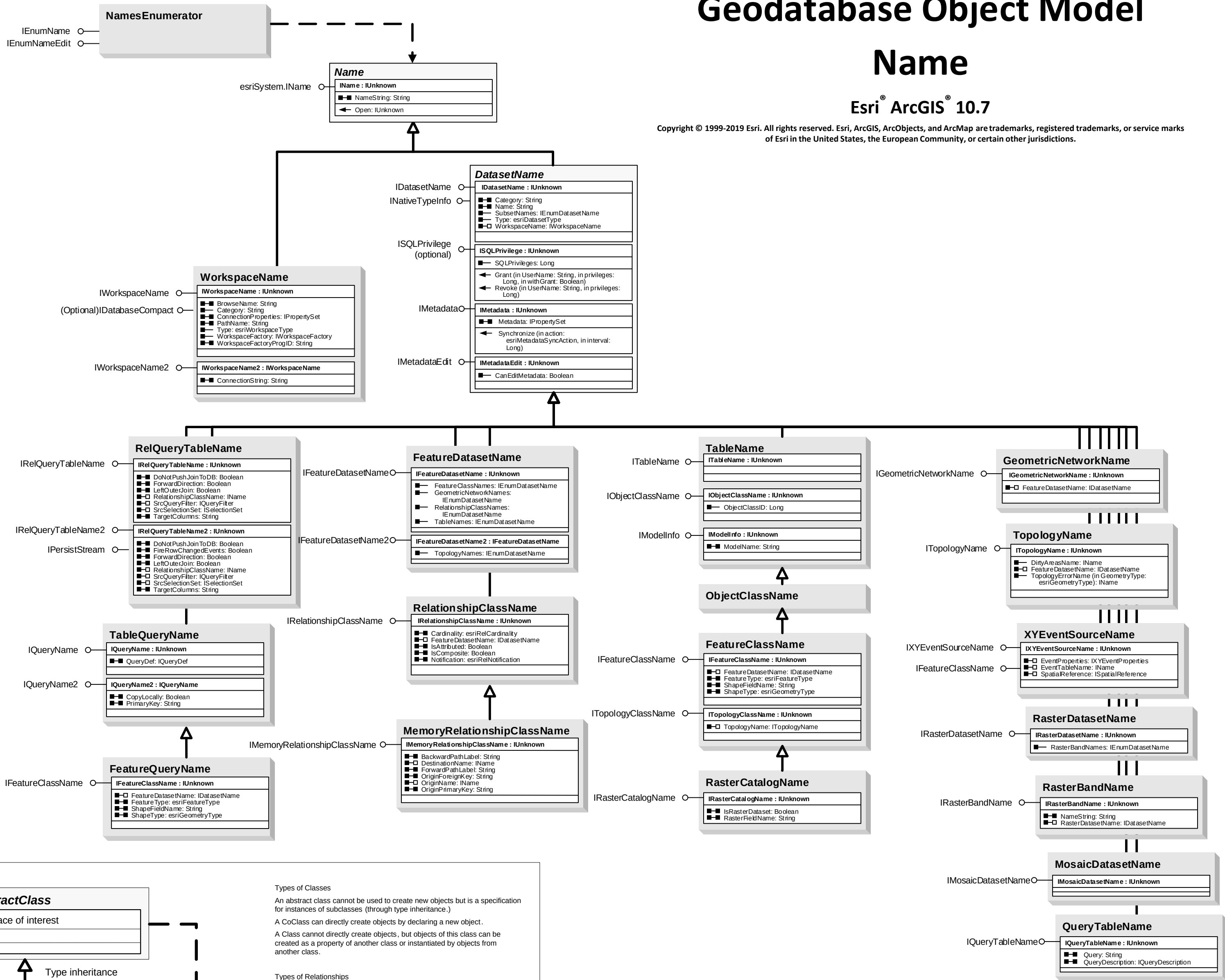


Geodatabase Object Model

Name

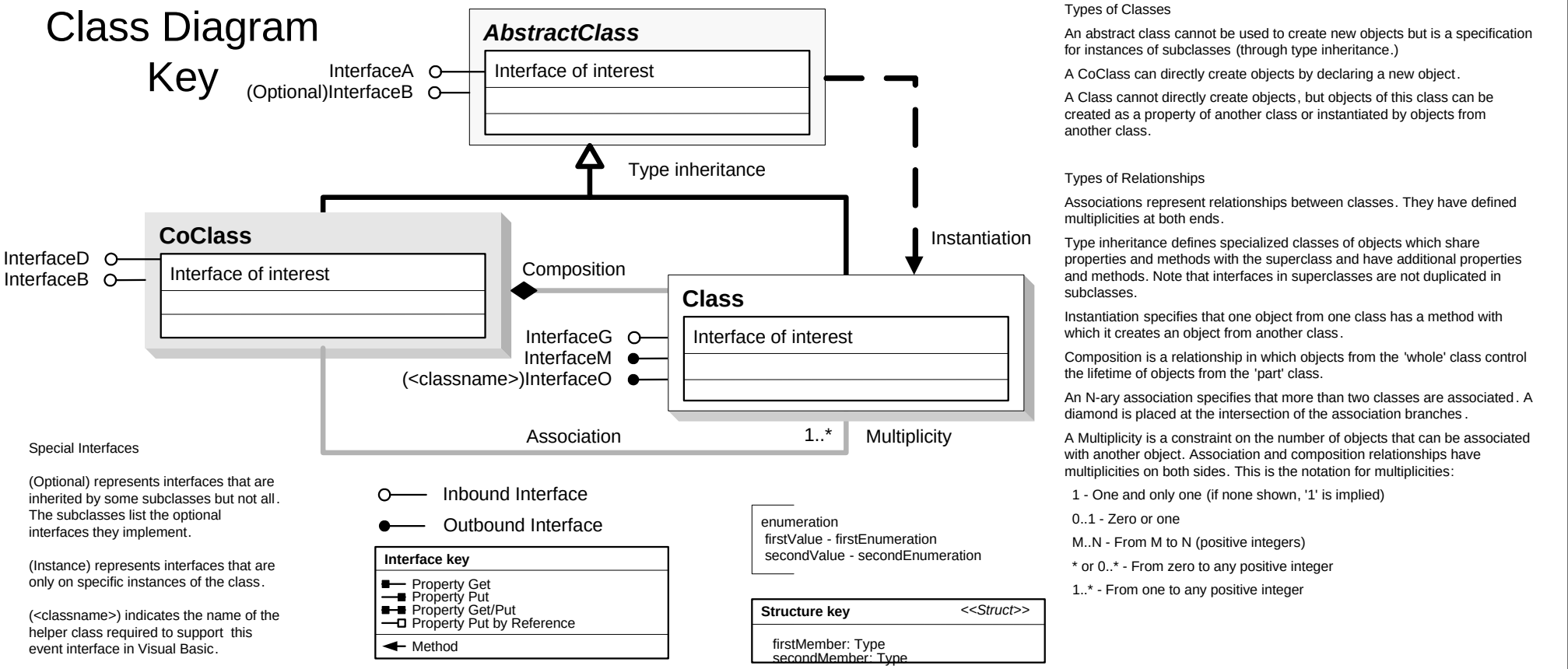
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Class Diagram

Key

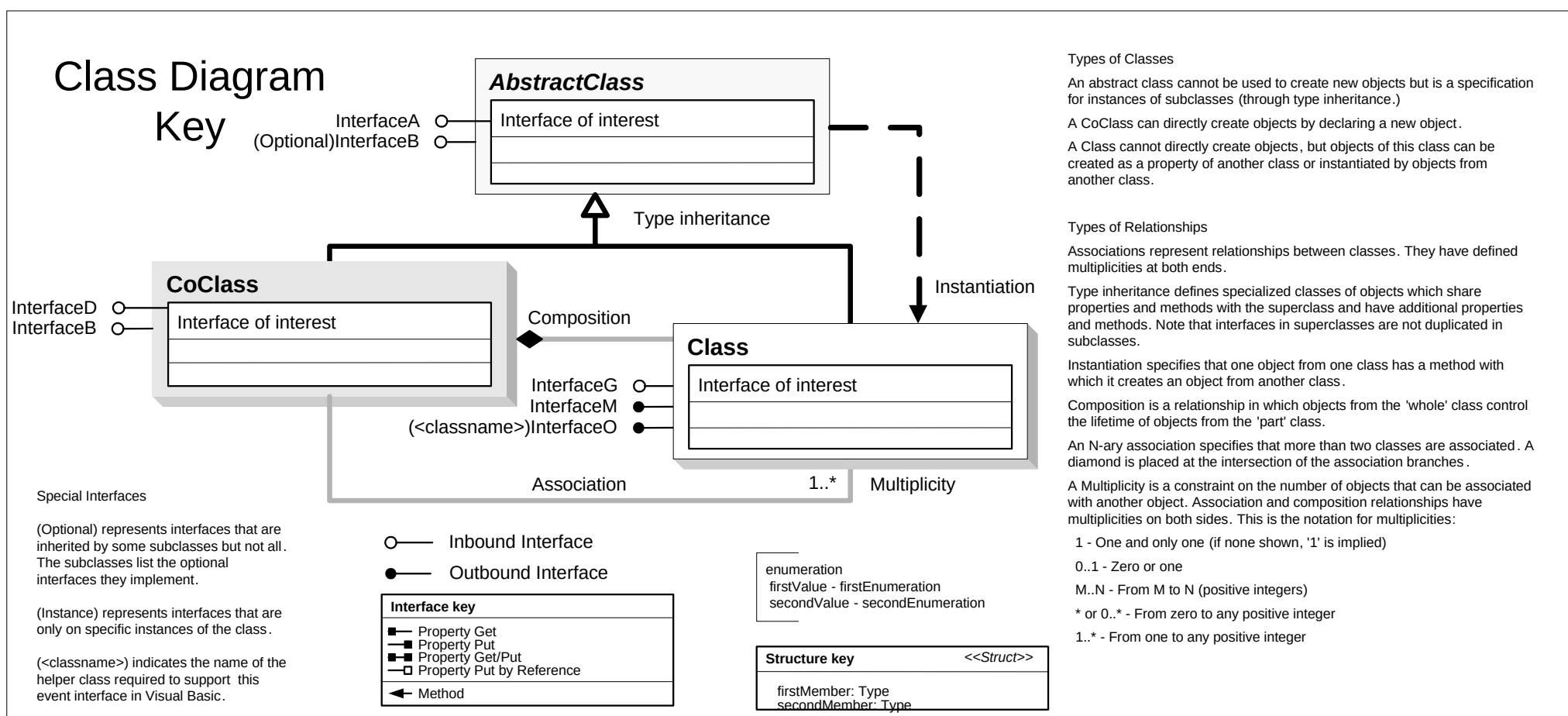
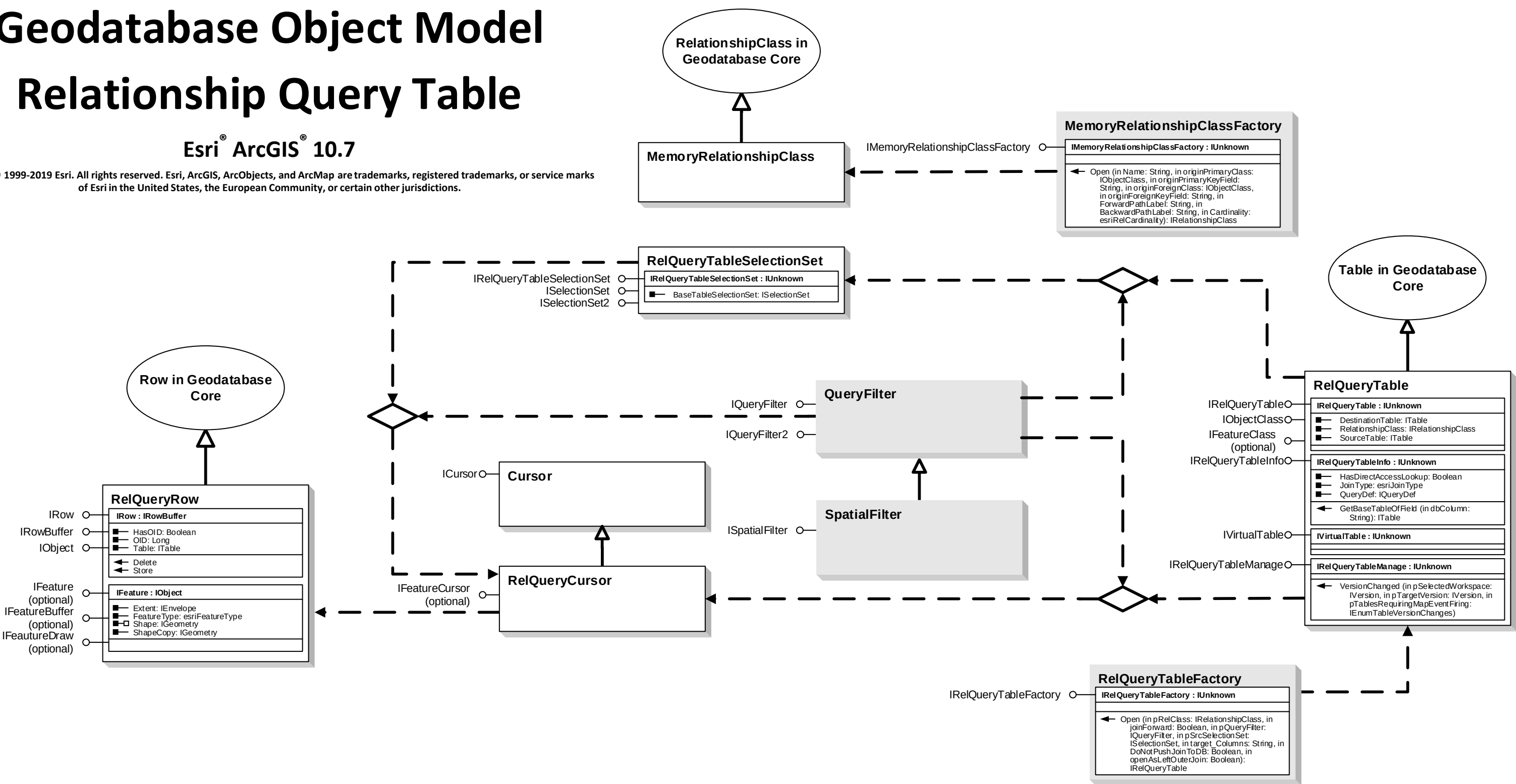


Geodatabase Object Model

Relationship Query Table

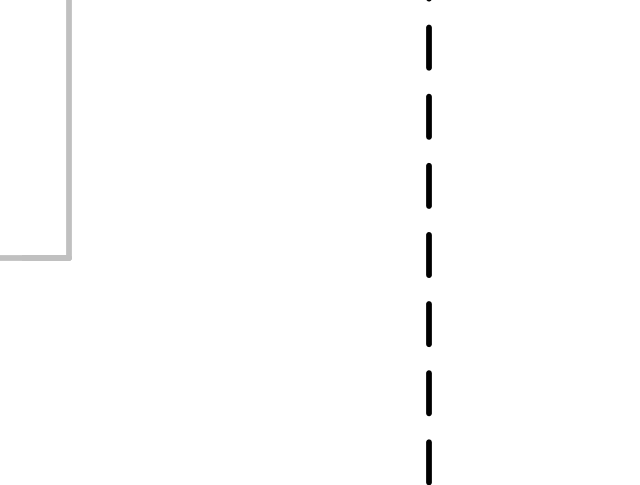
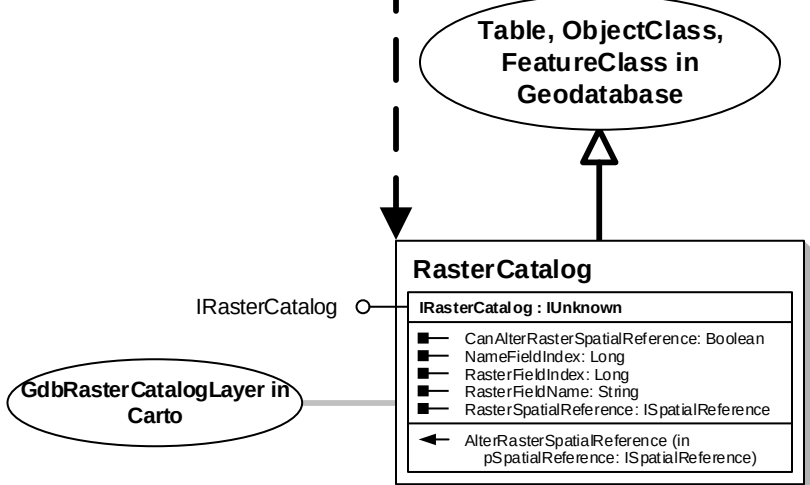
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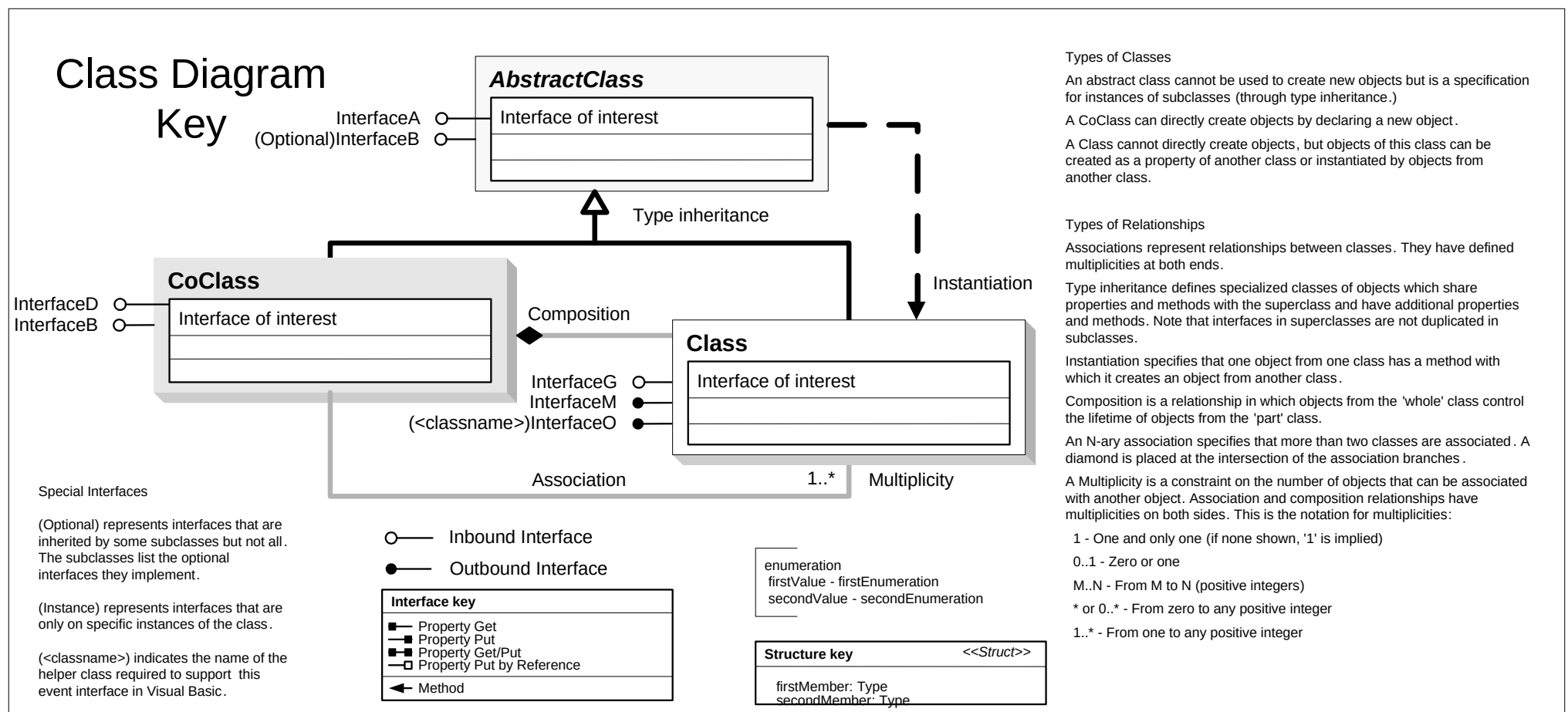
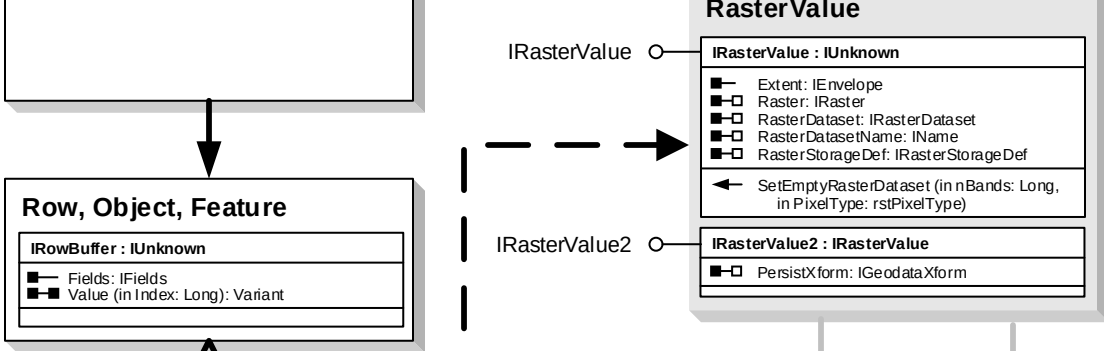


Raster

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```
tsPixelType
-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_ULONG
8 - PT_LONG
9 - PT_FLOAT
10 - PT_DOUBLE
11 - PT_COMPLEX
12 - PT_DCOMPLEX
13 - PT_CSHORT
14 - PT_CLONG
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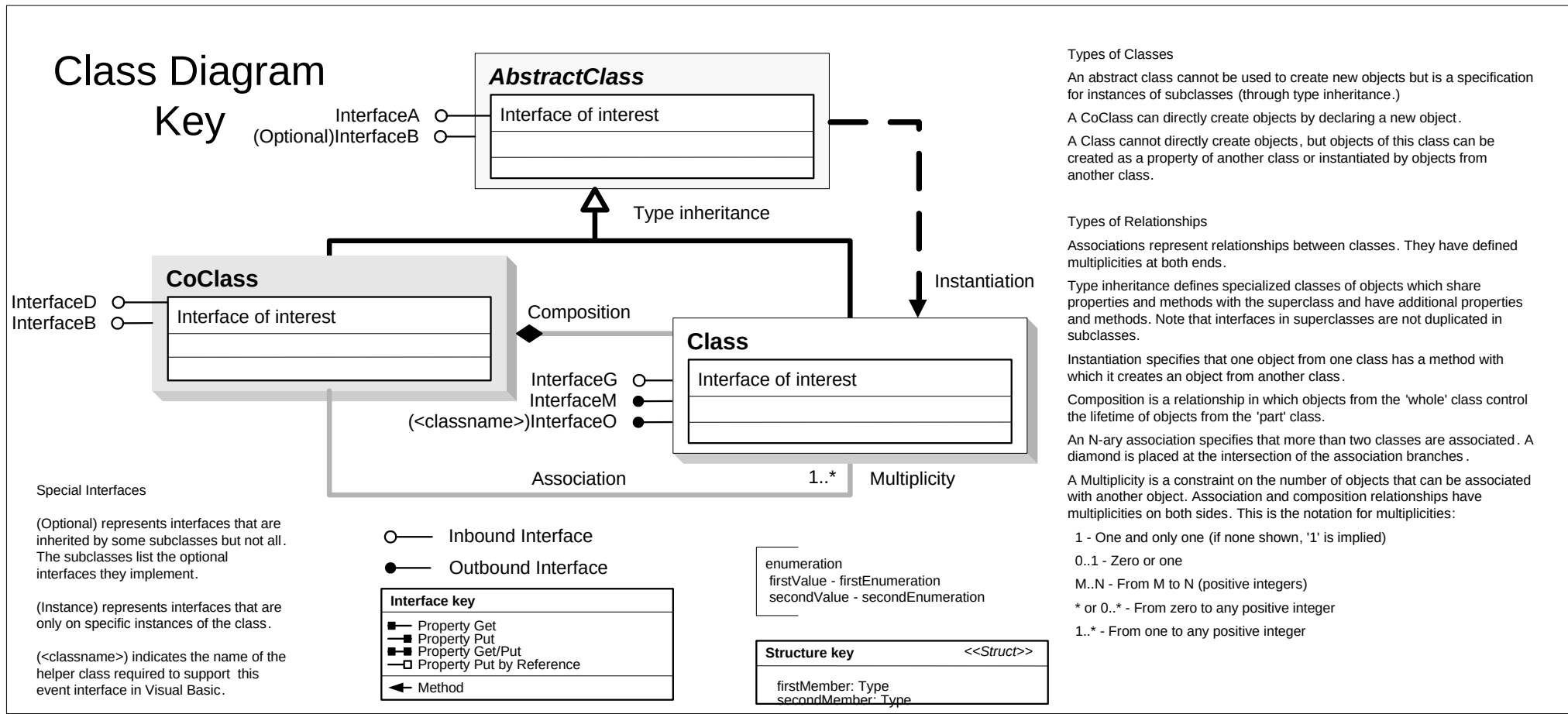


Geodatabase Object Model

Metadata

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Enumerations

esriXmlPropertyType

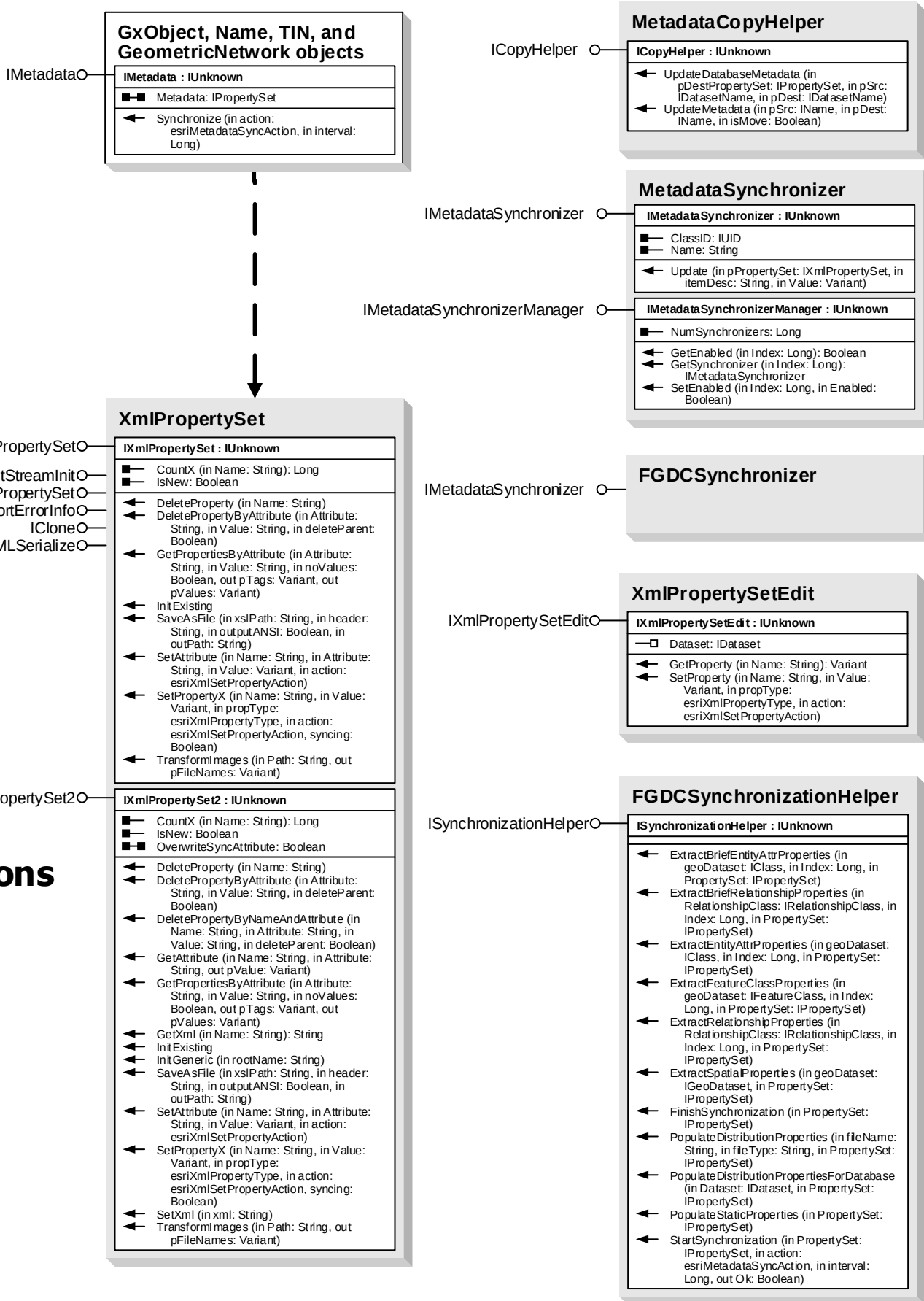
- 0 - esriXPTText
- 1 - esriXPTBinaryEnclosure
- 2 - esriXPTLink
- 3 - esriXPTPicture
- 4 - esriXPTImage

esriXmlSetPropertyAction

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

esriMetadataSyncAction

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

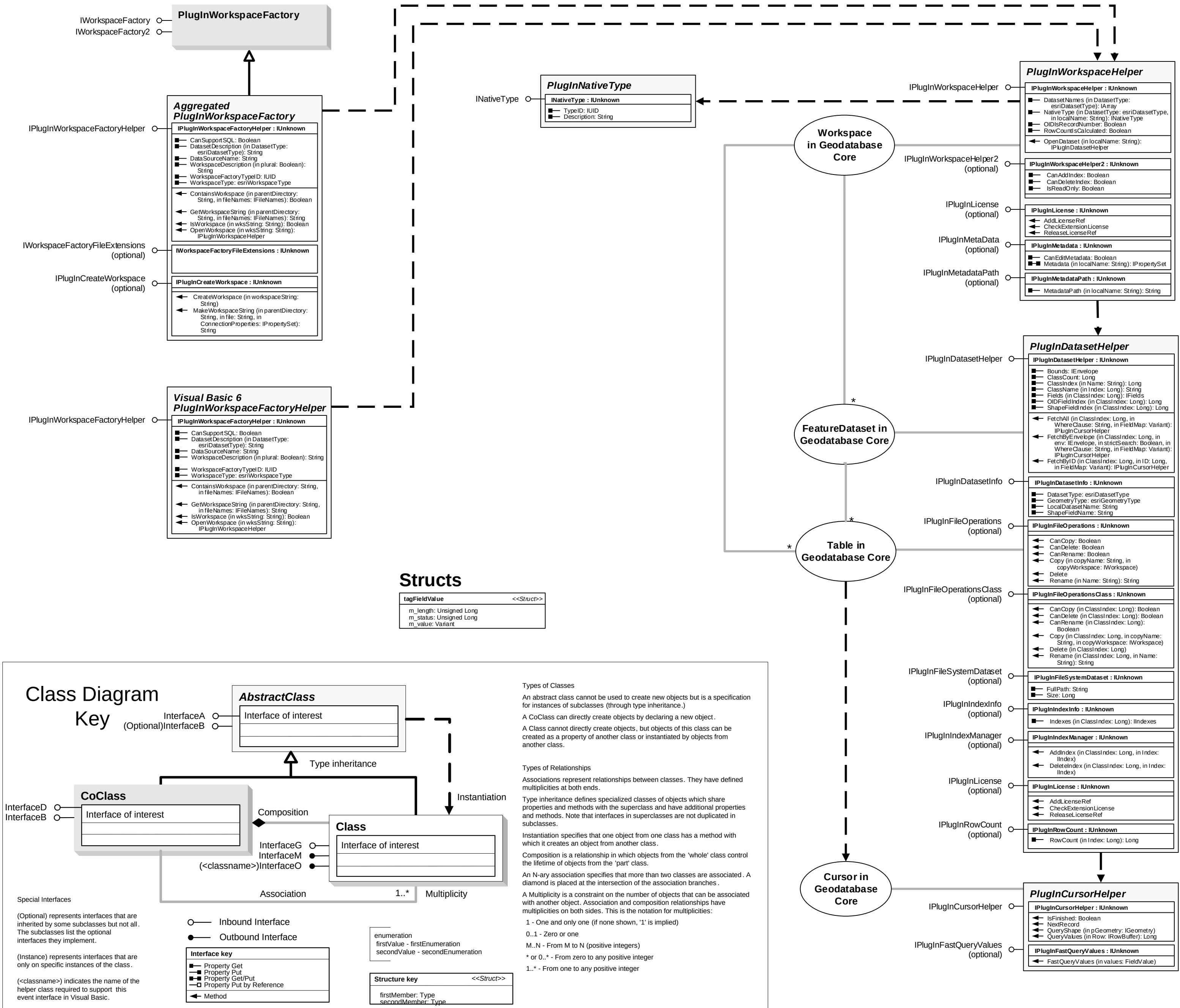


Geodatabase Object Model

Plug-in Data Source

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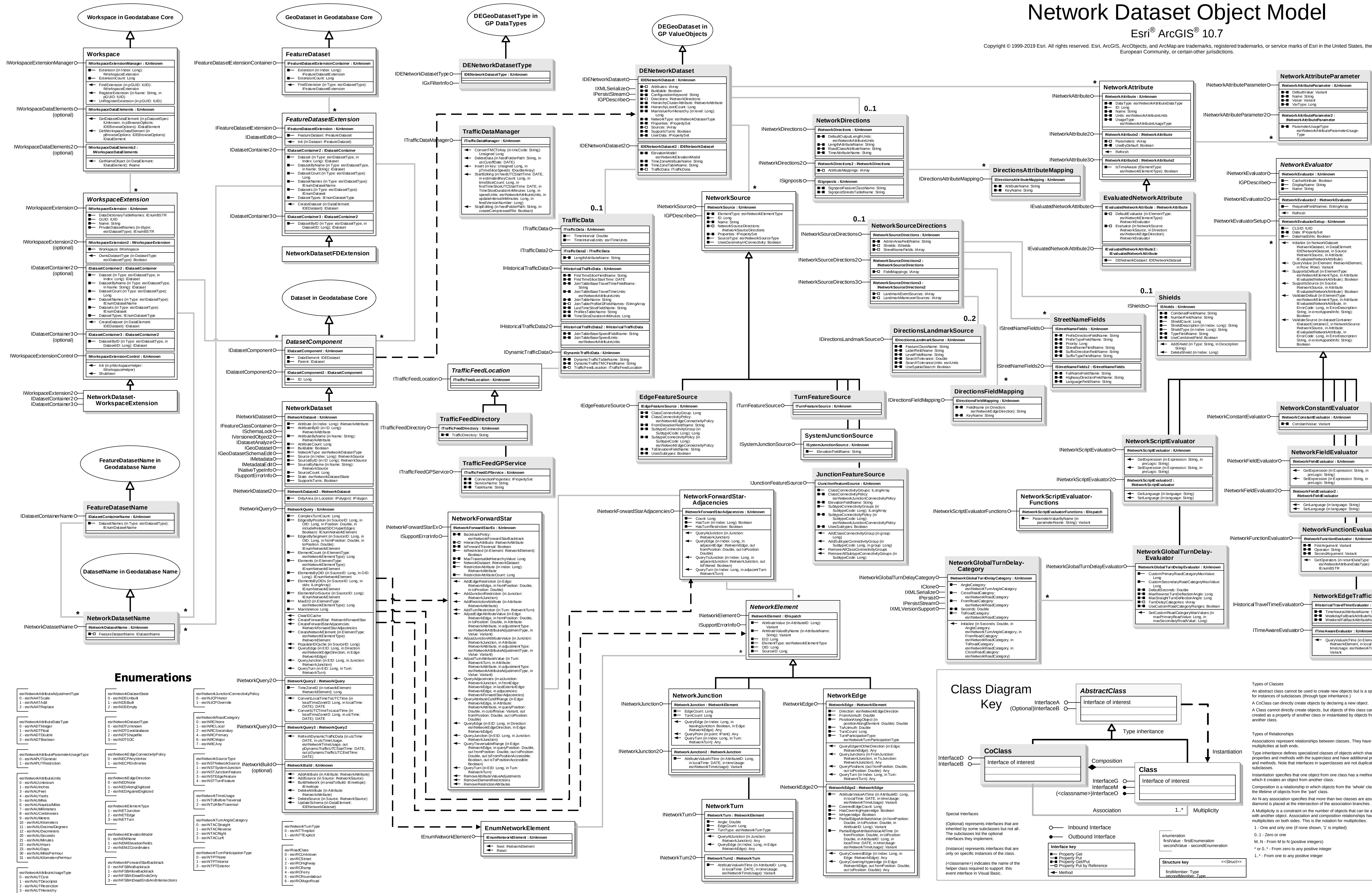
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Network Dataset Object Model

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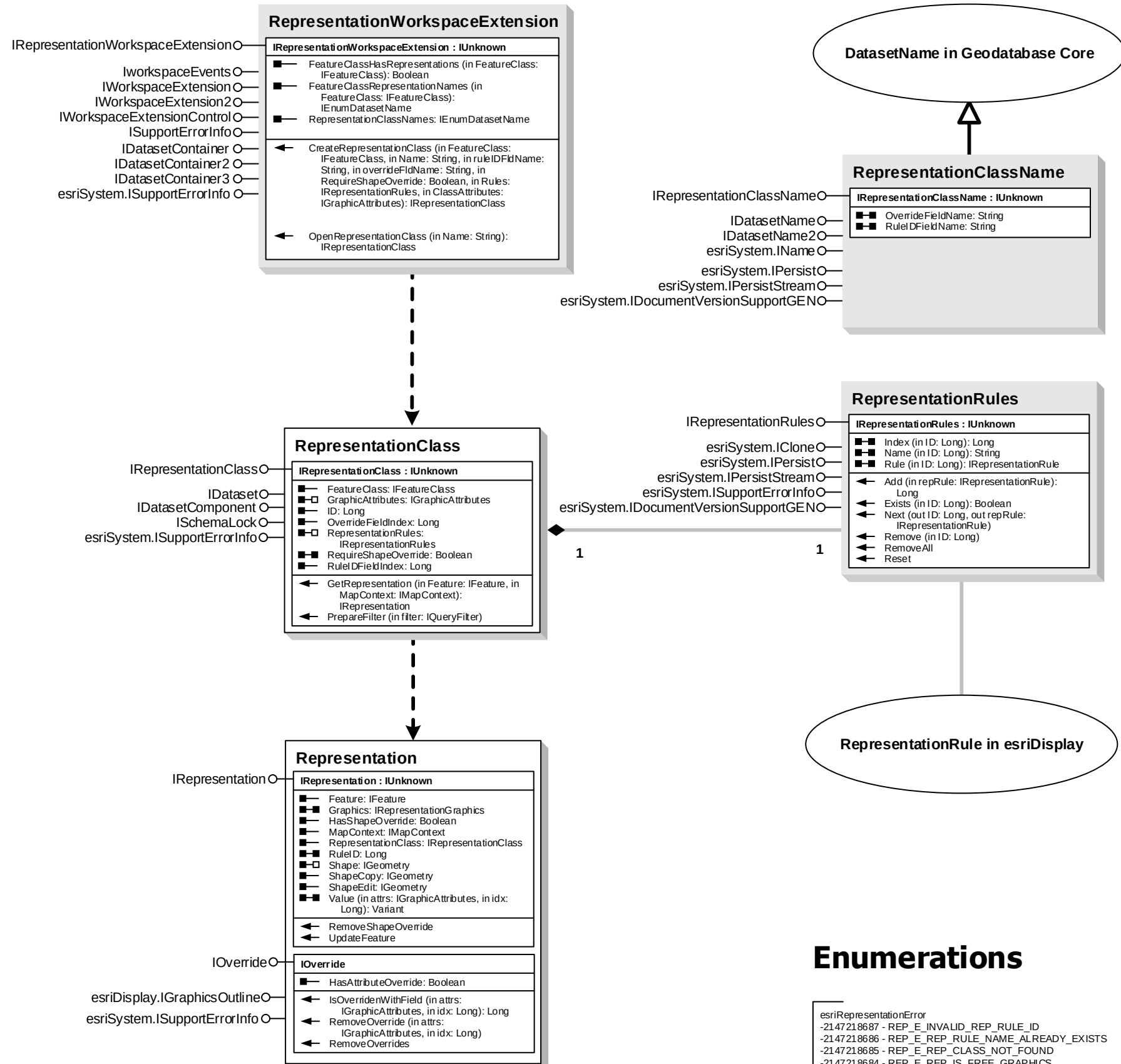
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Geodatabase Object Model Representation Class

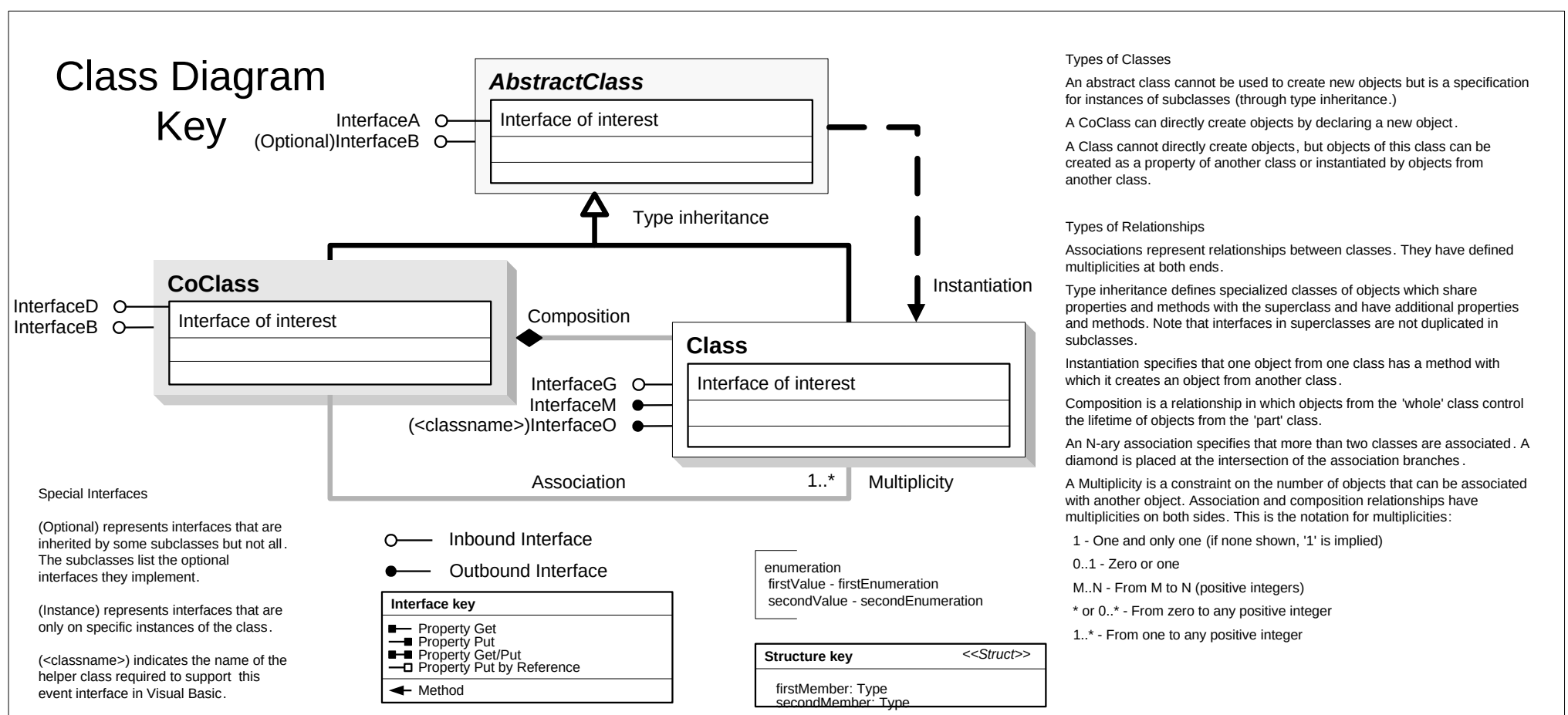
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Enumerations

```
esriRepresentationError
-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

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