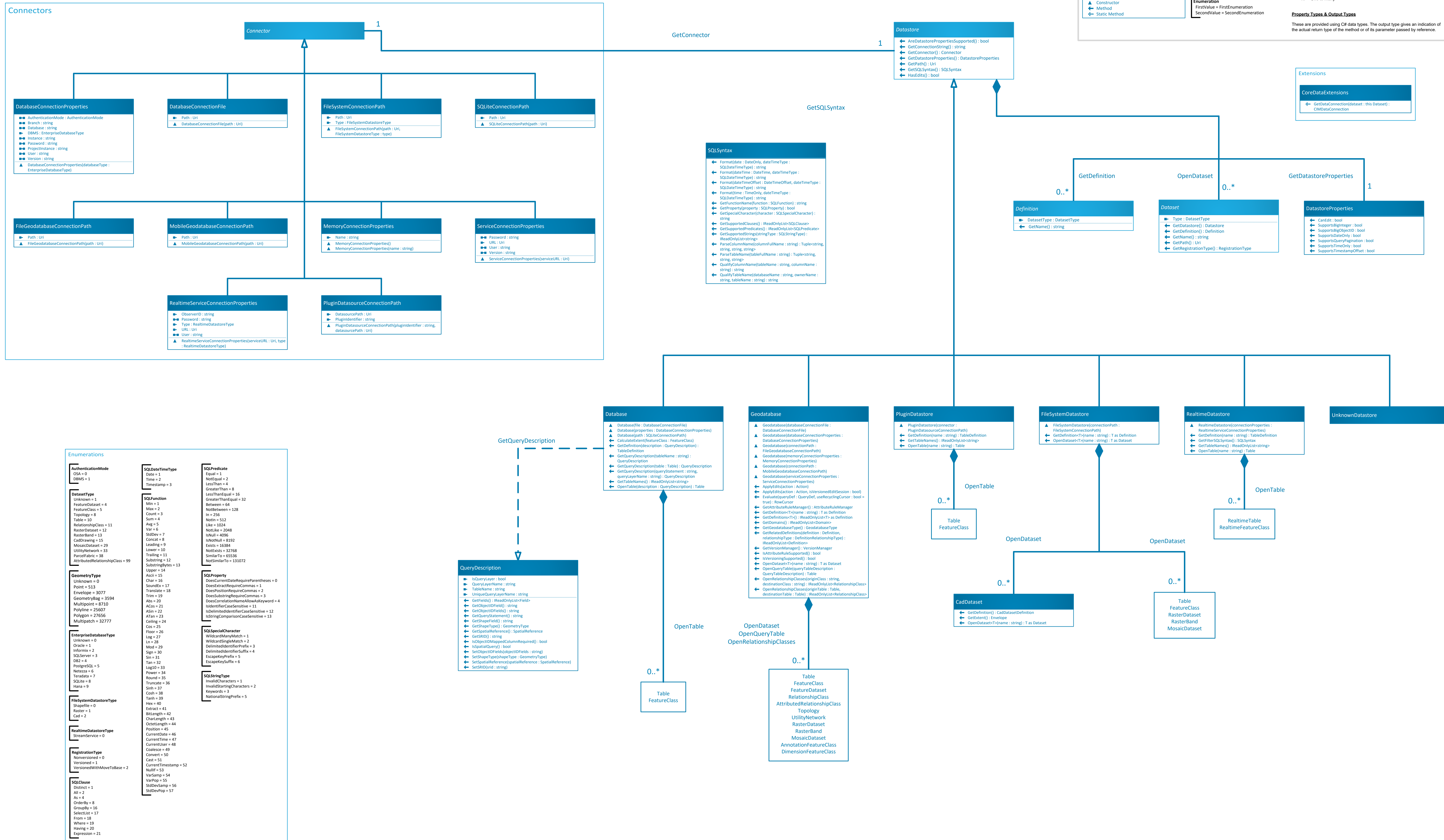
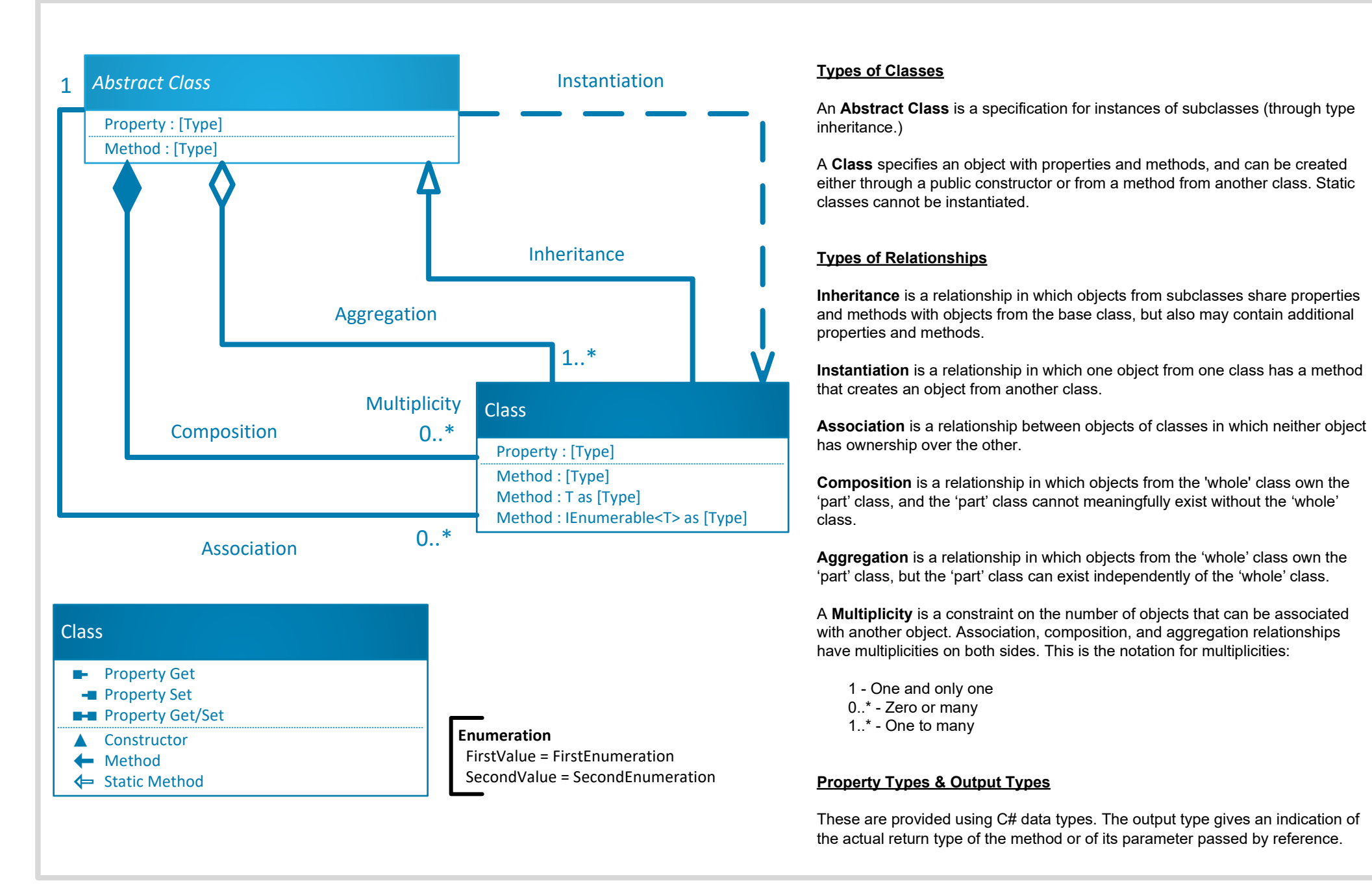


Geodatabase Object Model Datastore

Esri® ArcGIS® Pro SDK 3.4

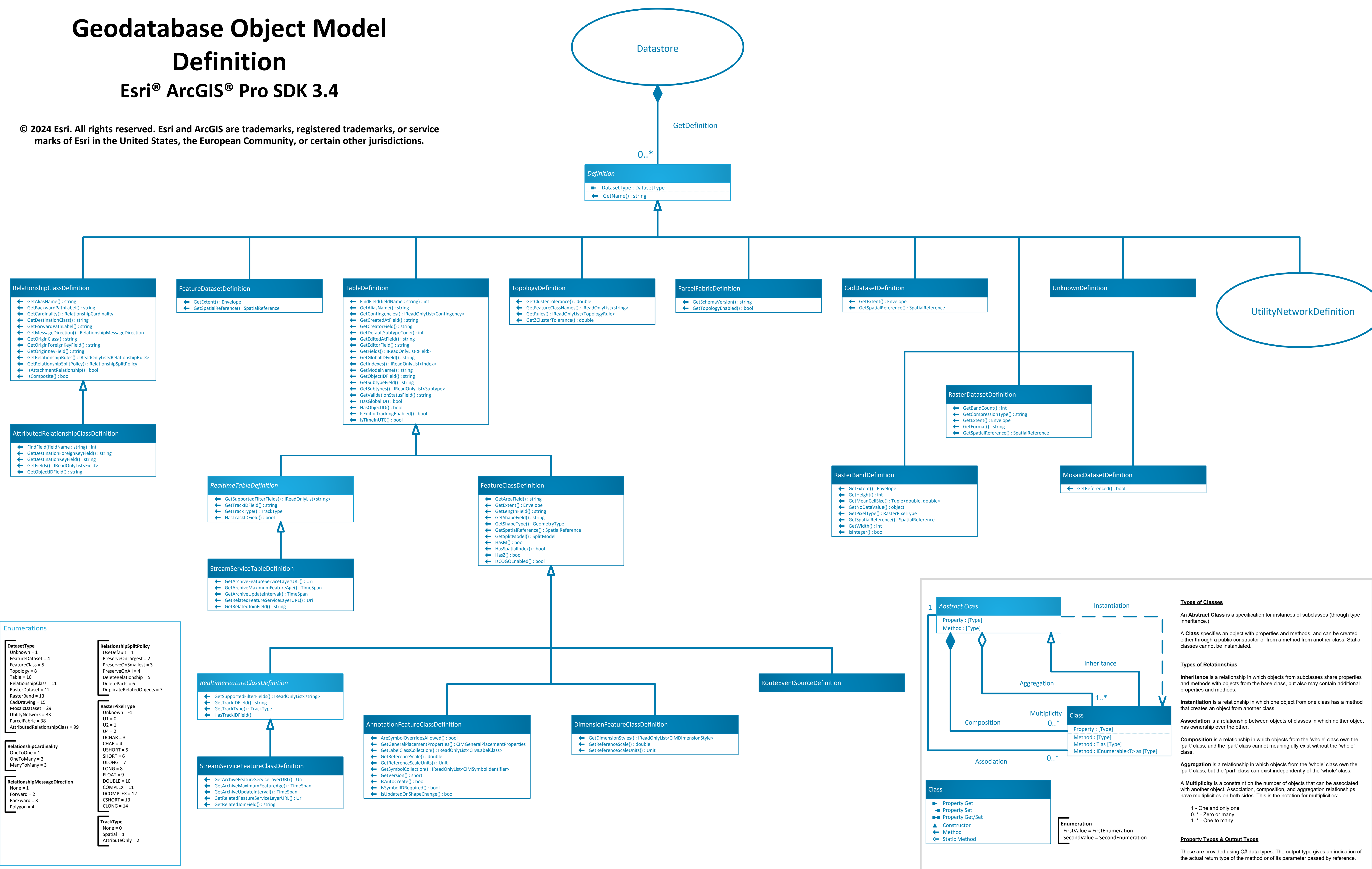
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Geodatabase Object Model Definition

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Enumerations

DatasetType Unknown = 1 FeatureDataset = 4 FeatureClass = 5 Topology = 8 Table = 10 RelationshipClass = 11 RasterDataset = 12 RasterBand = 13 CadDrawing = 15 MosaicDataset = 29 UtilityNetwork = 33 ParcelFabric = 38 AttributedRelationshipClass = 99	RelationshipSplitPolicy UseDefault = 1 PreserveOnLargest = 2 PreserveOnSmallest = 3 PreserveOnAll = 4 DeleteRelationship = 5 DeleteParts = 6 DuplicateRelatedObjects = 7
RelationshipCardinality OneToOne = 1 OneToMany = 2 ManyToMany = 3	RasterPixelType Unknown = -1 U1 = 0 U2 = 1 U4 = 2 U8 = 3 U16 = 4 USHORT = 5 SHORT = 6 ULONG = 7 LONG = 8 FLOAT = 9 DOUBLE = 10 COMPLEX = 11 DCOMPLEX = 12 CSHORT = 13 CLONG = 14
RelationshipMessageDirection None = 1 Forward = 2 Backward = 3 Polygon = 4	TrackType None = 0 Spatial = 1 AttributeOnly = 2

Types of Classes

An **Abstract Class** is a specification for instances of subclasses (through type inheritance.)

A **Class** specifies an object with properties and methods, and can be created either through a public constructor or from a method from another class. Static classes cannot be instantiated.

Types of Relationships

Inheritance is a relationship in which objects from subclasses share properties and methods with objects from the base class, but also may contain additional properties and methods.

Instantiation is a relationship in which one object from one class has a method that creates an object from another class.

Association is a relationship between objects of classes in which neither object has ownership over the other.

Aggregation is a relationship in which objects from the 'whole' class own the 'part' class, but the 'part' class can exist independently of the 'whole' class.

A **Multiplicity** is a constraint on the number of objects that can be associated with another object. Association, composition, and aggregation relationships have multiplicities on both sides. This is the notation for multiplicities:

- 1 - One and only one
- 0..* - Zero or many
- 1..* - One to many

Property Types & Output Types

These are provided using C# data types. The output type gives an indication of the actual return type of the method or of its parameter passed by reference.

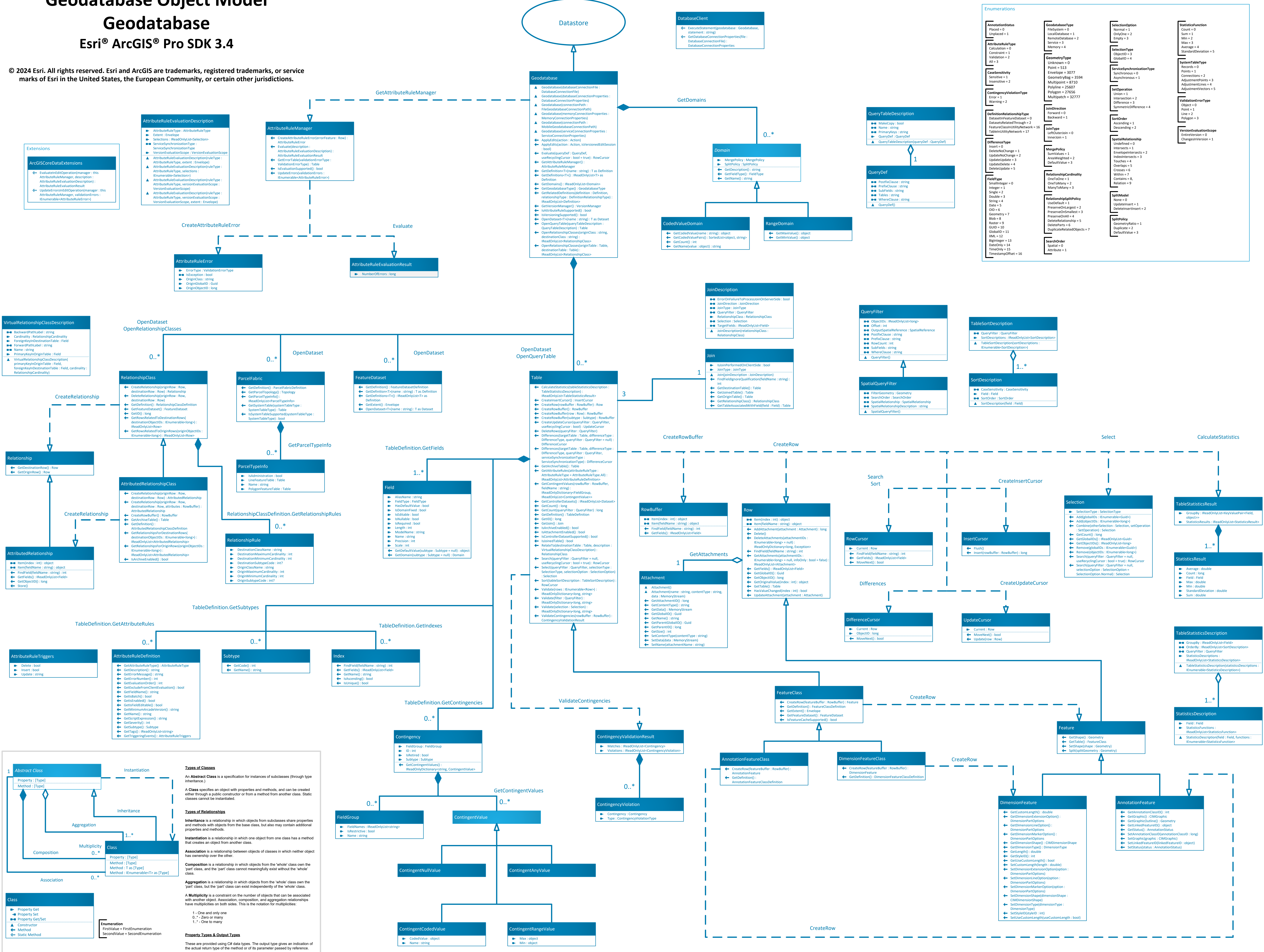
Class Property Get Property Set Property Get/Set Constructor Method Static Method	Enumeration FirstValue = FirstEnumeration SecondValue = SecondEnumeration
------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------

Geodatabase Object Model

Geodatabase

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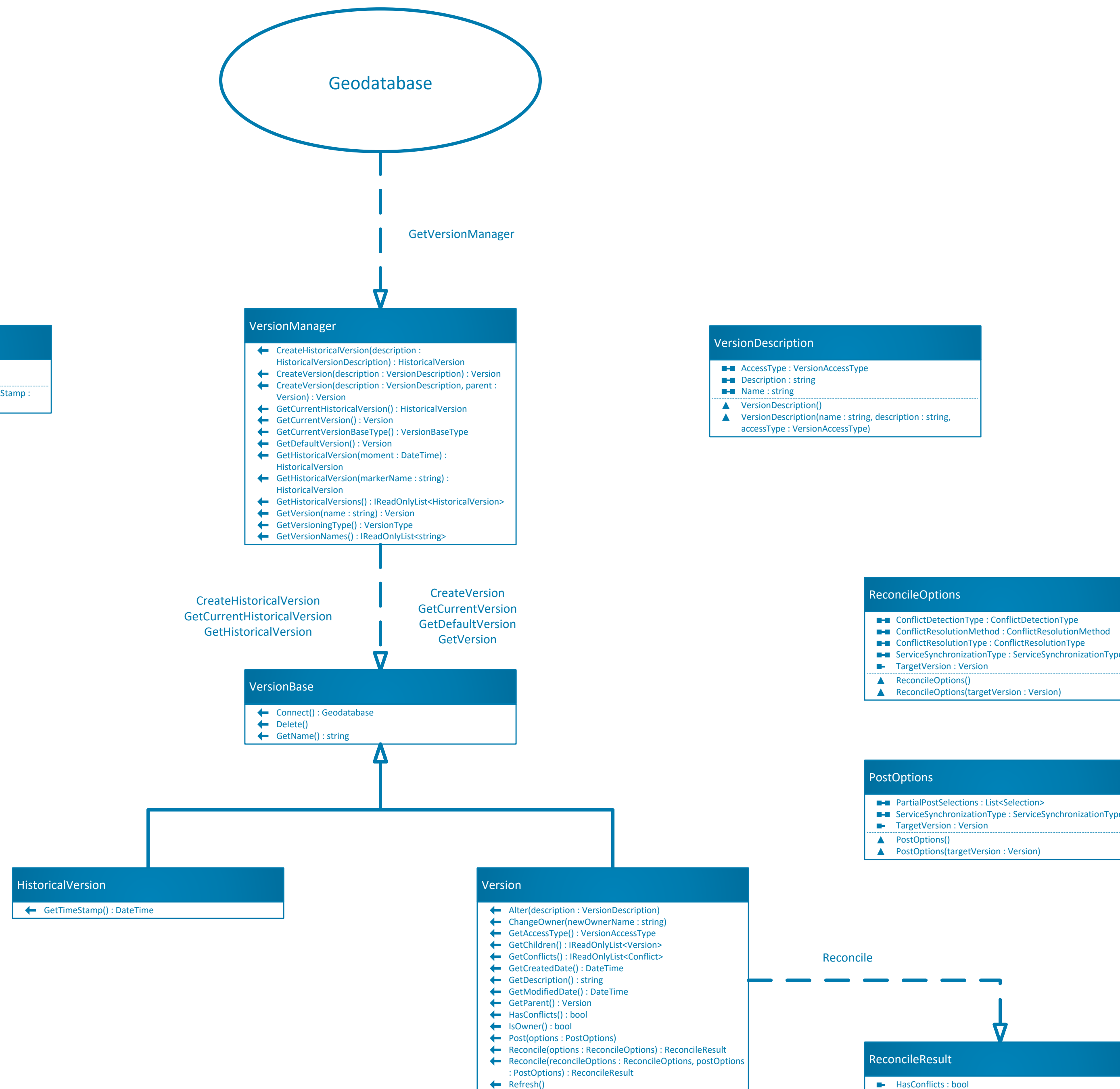
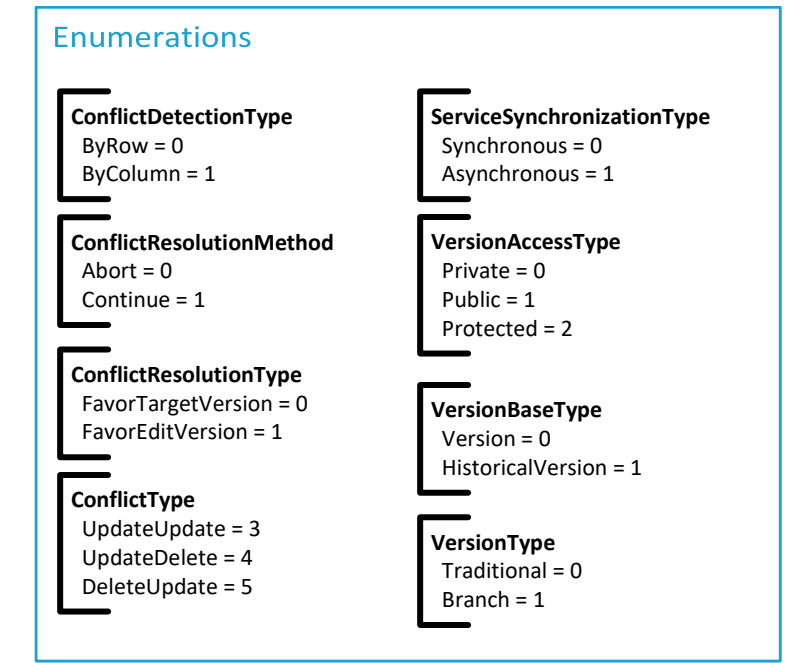
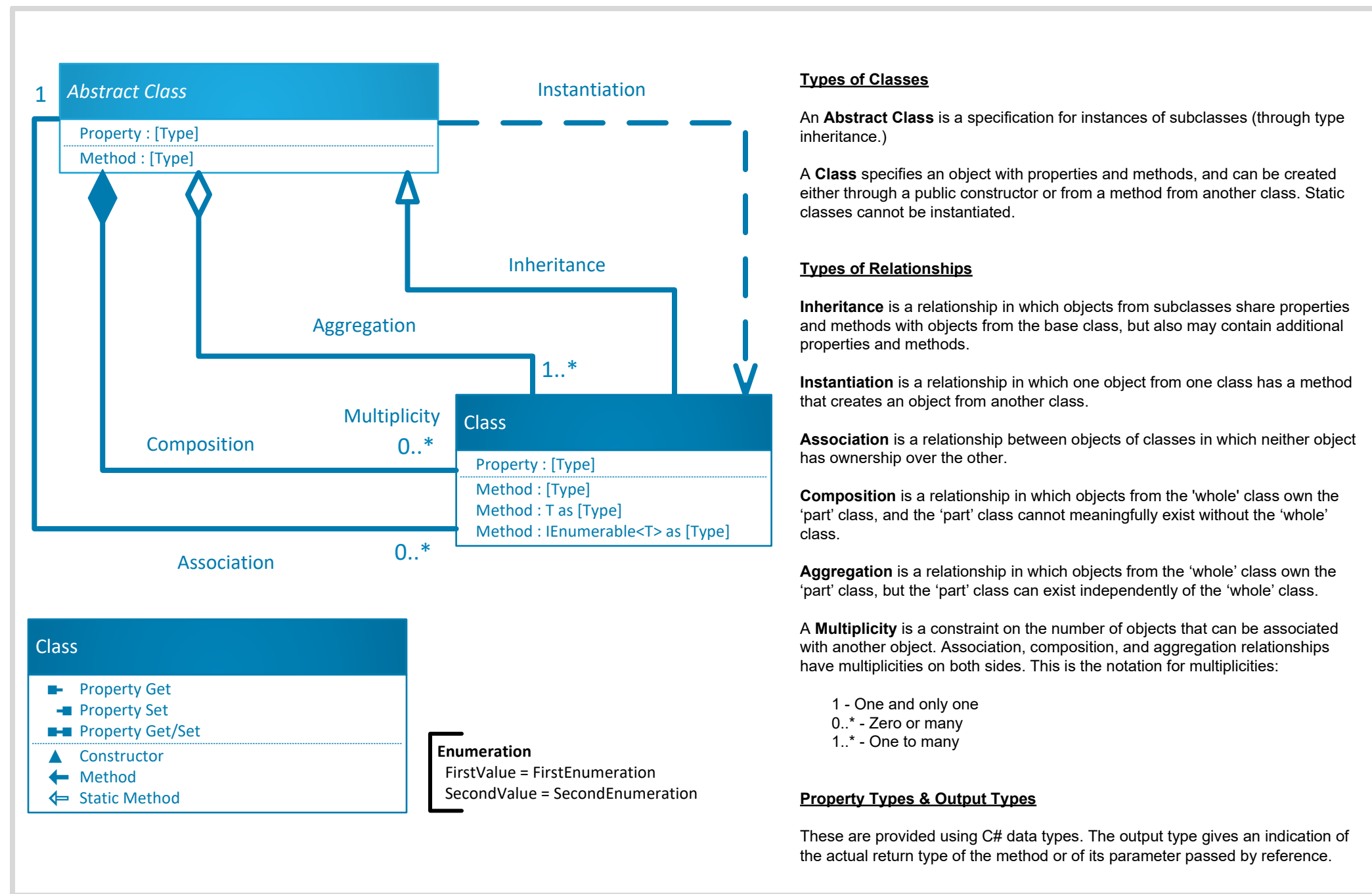


Geodatabase Object Model

Versioning

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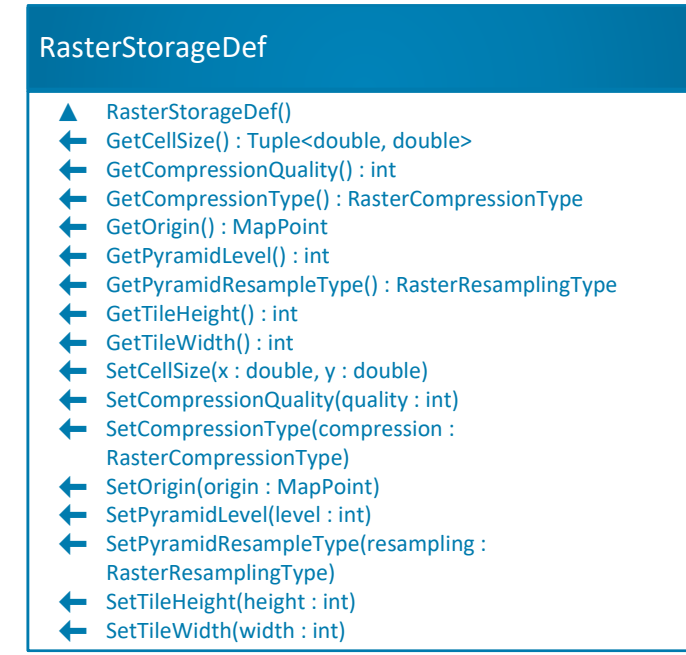
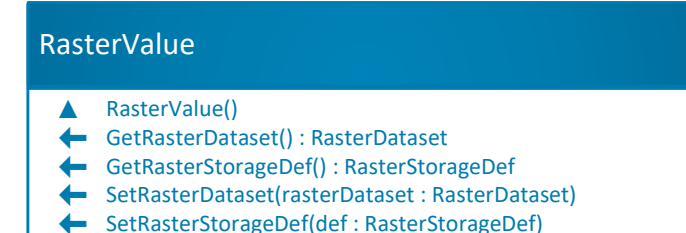
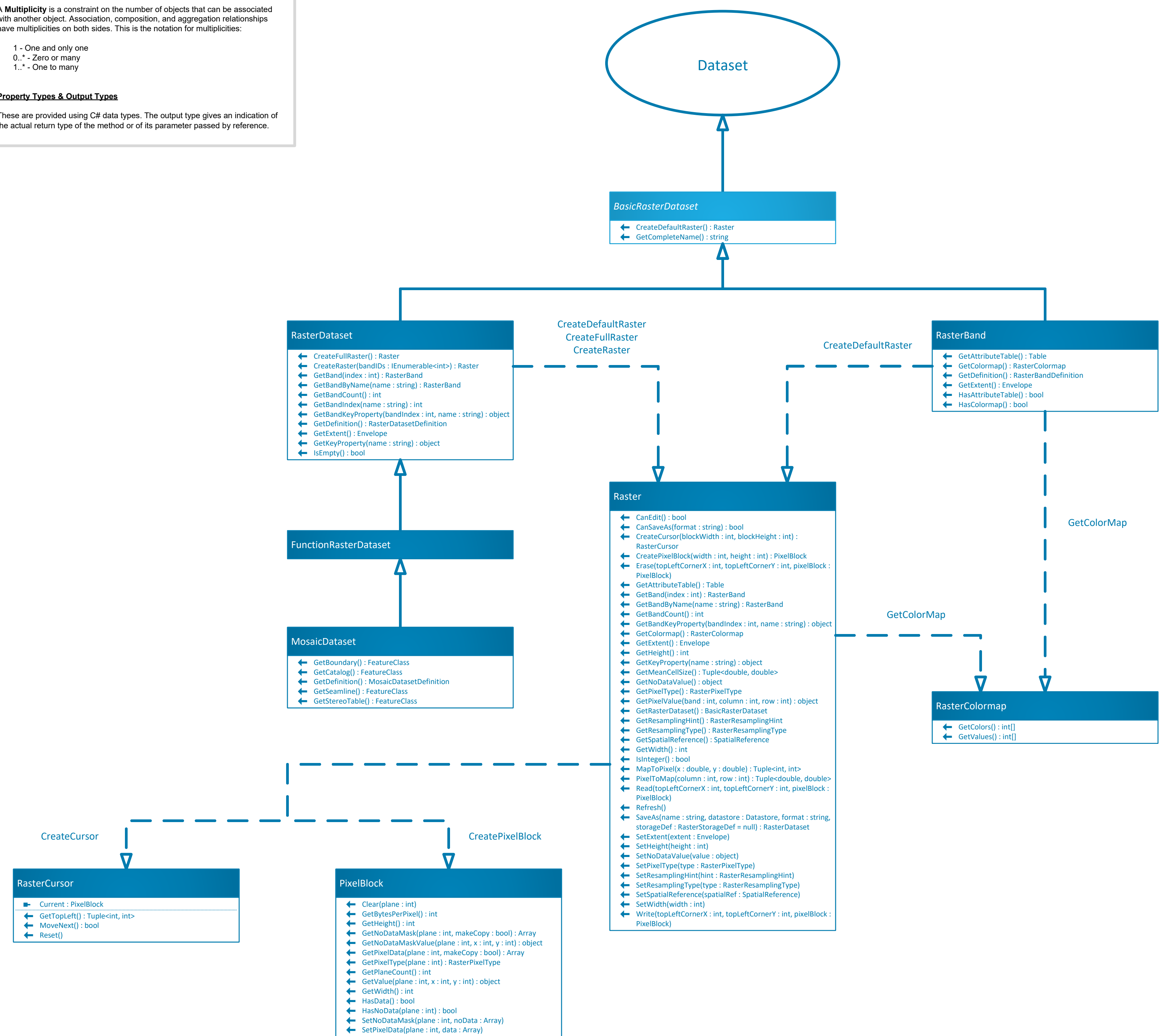
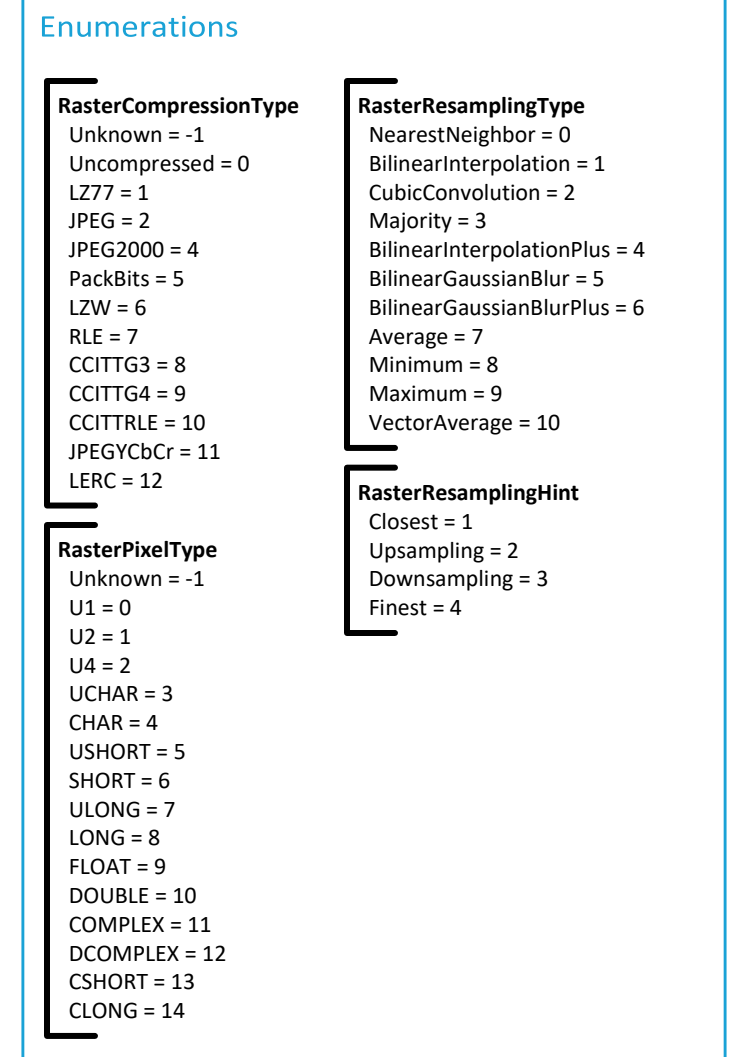
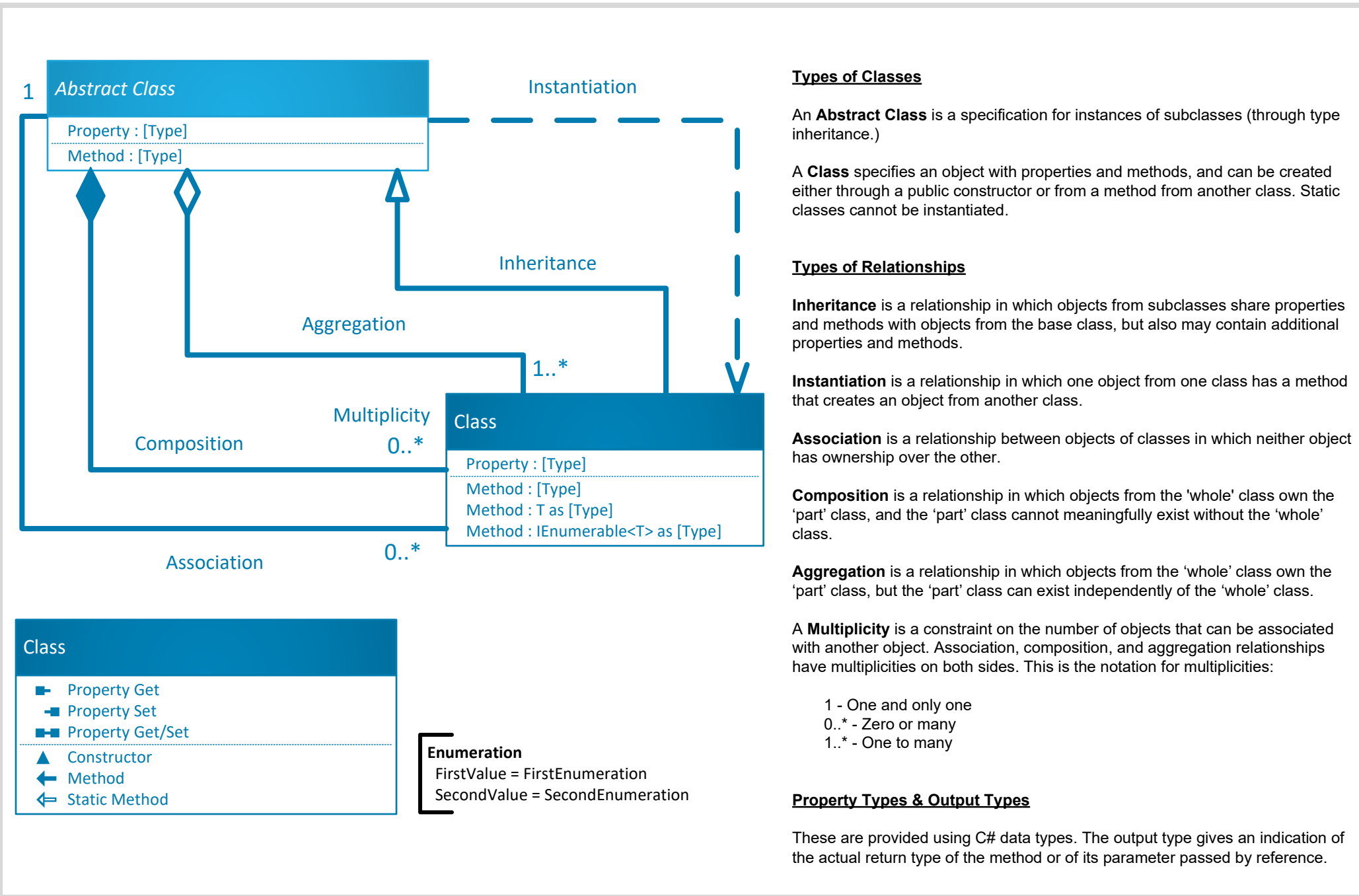


Geodatabase Object Model

Raster

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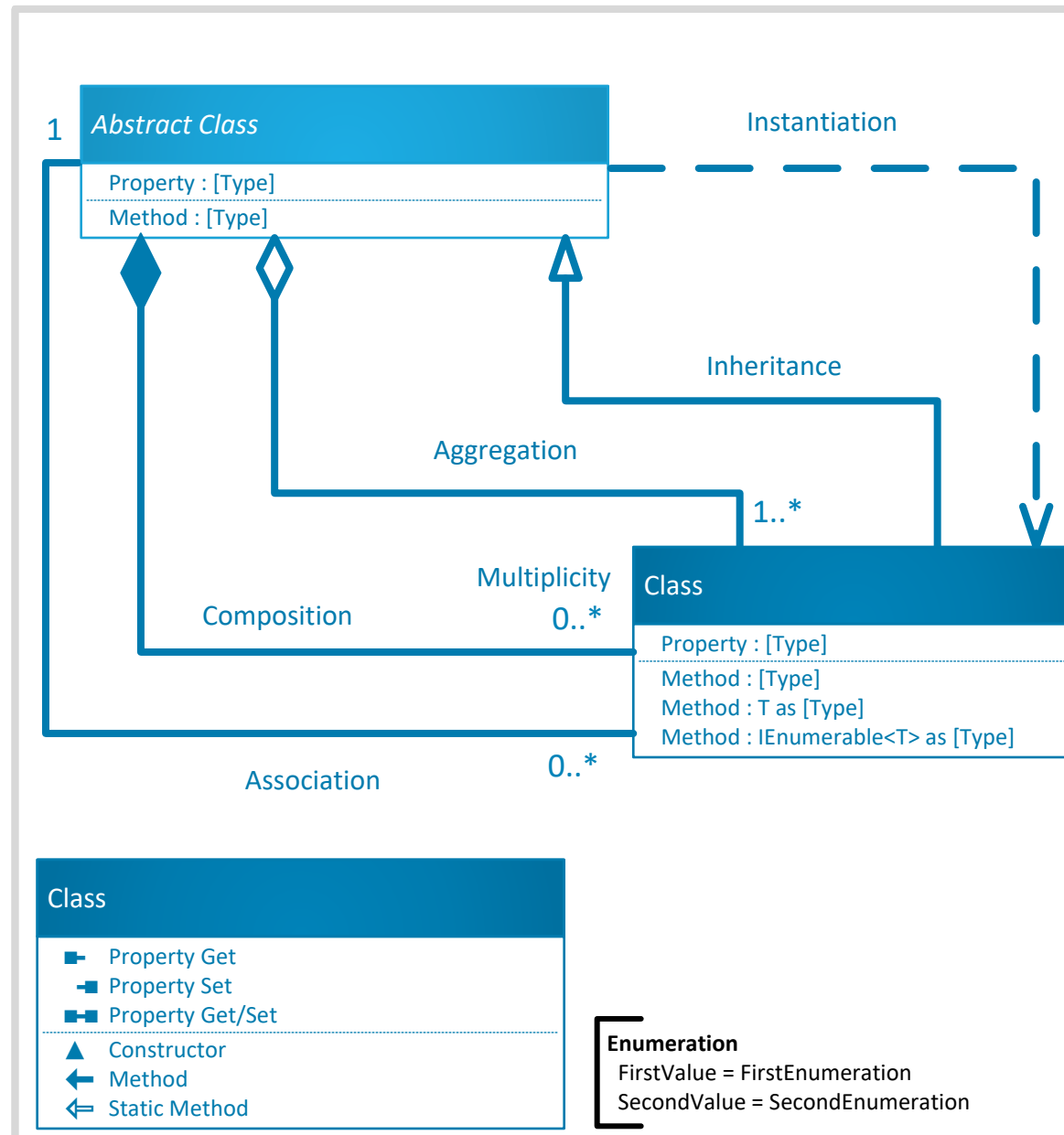
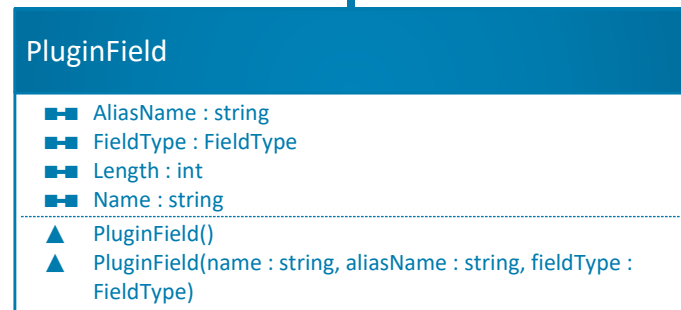
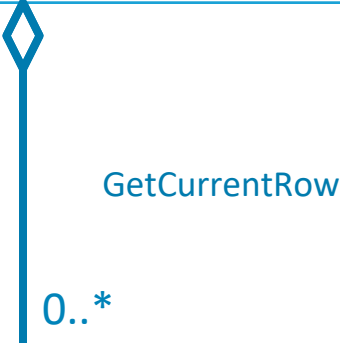
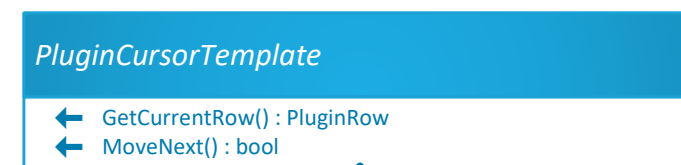
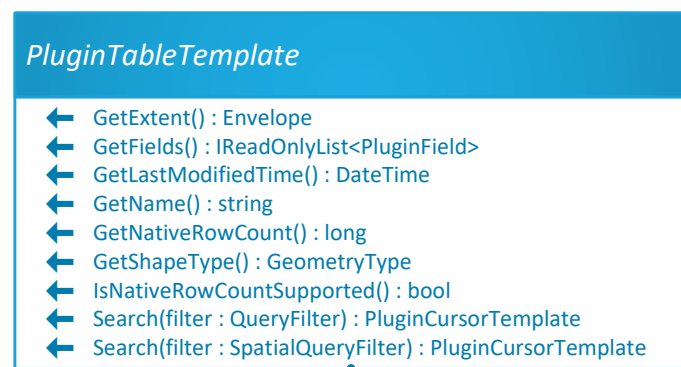
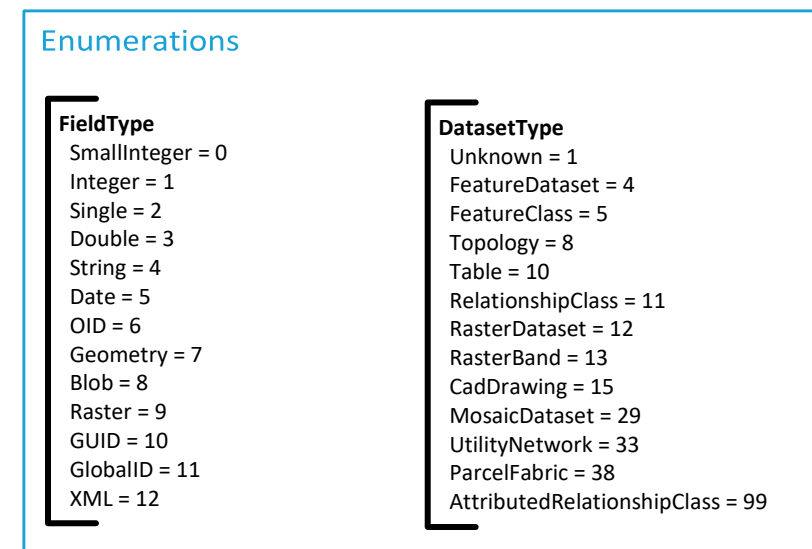
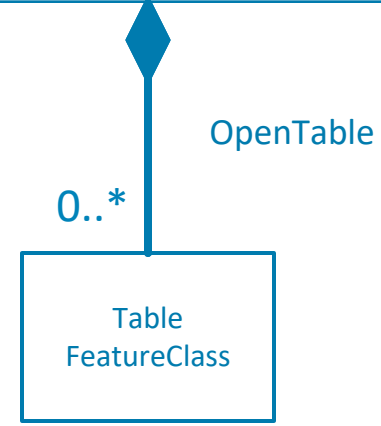
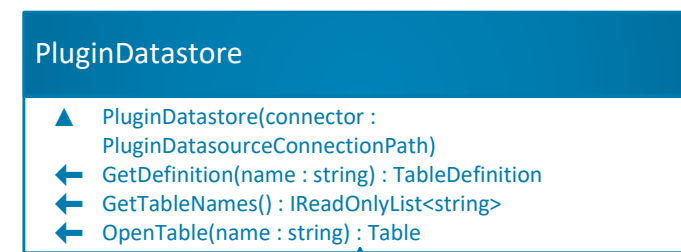
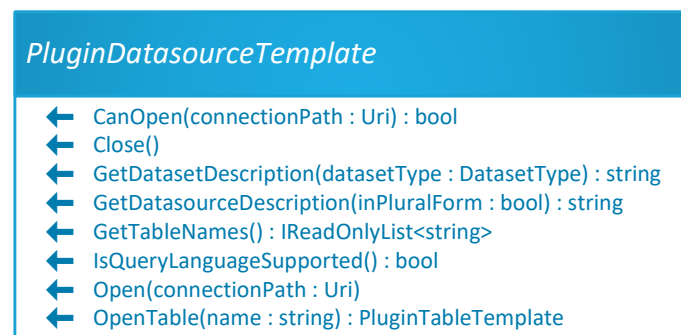
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Geodatabase Object Model Plugin

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Types of Classes

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Types of Relationships

Inheritance is a relationship in which objects from subclasses share properties and methods with objects from the base class, but also may contain additional properties and methods.

Instantiation is a relationship in which one object from one class has a method that creates an object from another class.

Association is a relationship between objects of classes in which neither object has ownership over the other.

Composition is a relationship in which objects from the 'whole' class own the 'part' class, and the 'part' class cannot meaningfully exist without the 'whole' class.

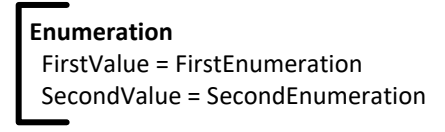
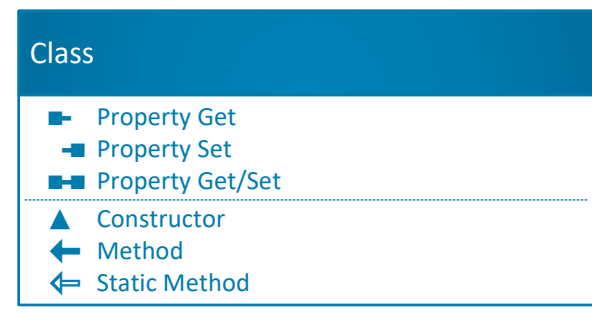
Aggregation is a relationship in which objects from the 'whole' class own the 'part' class, but the 'part' class can exist independently of the 'whole' class.

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Property Types & Output Types

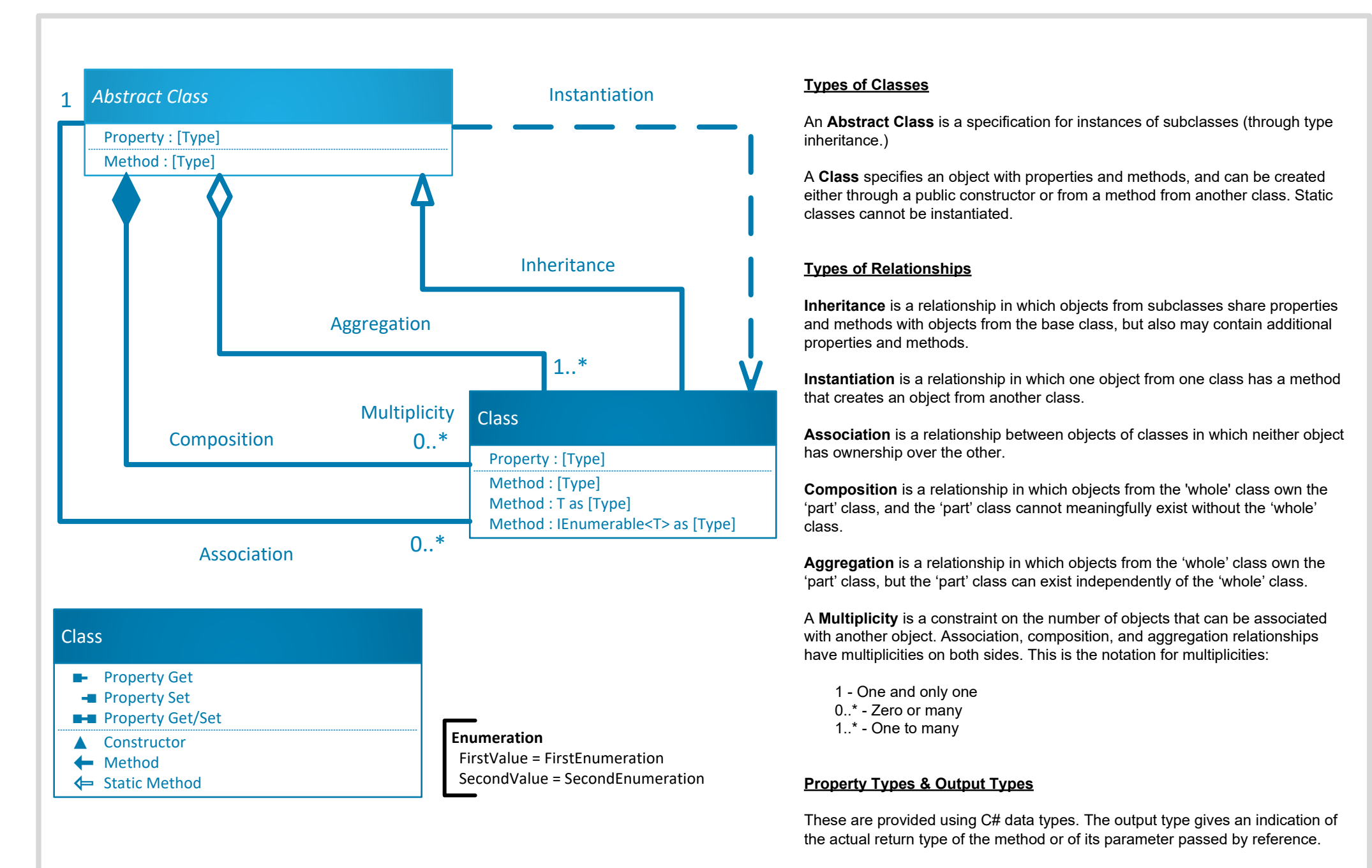
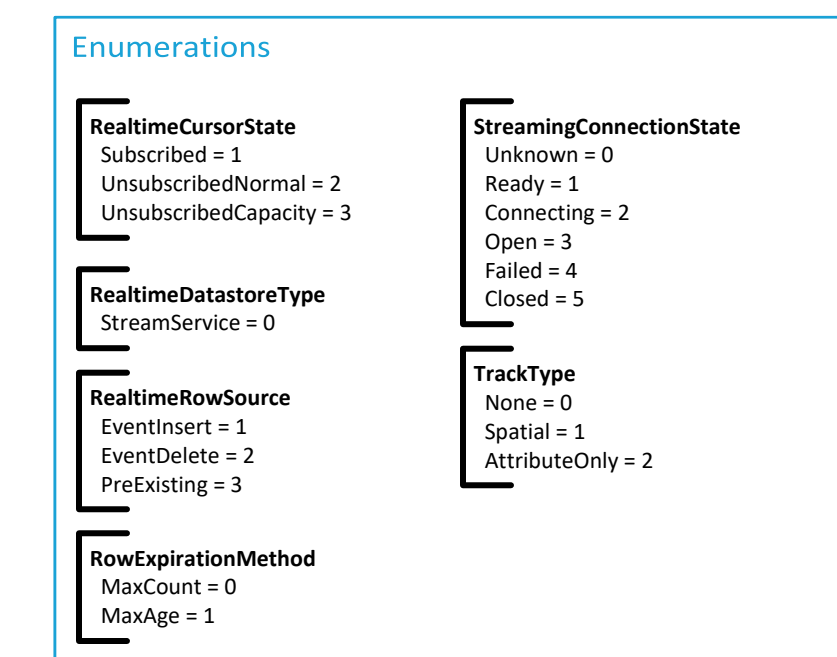
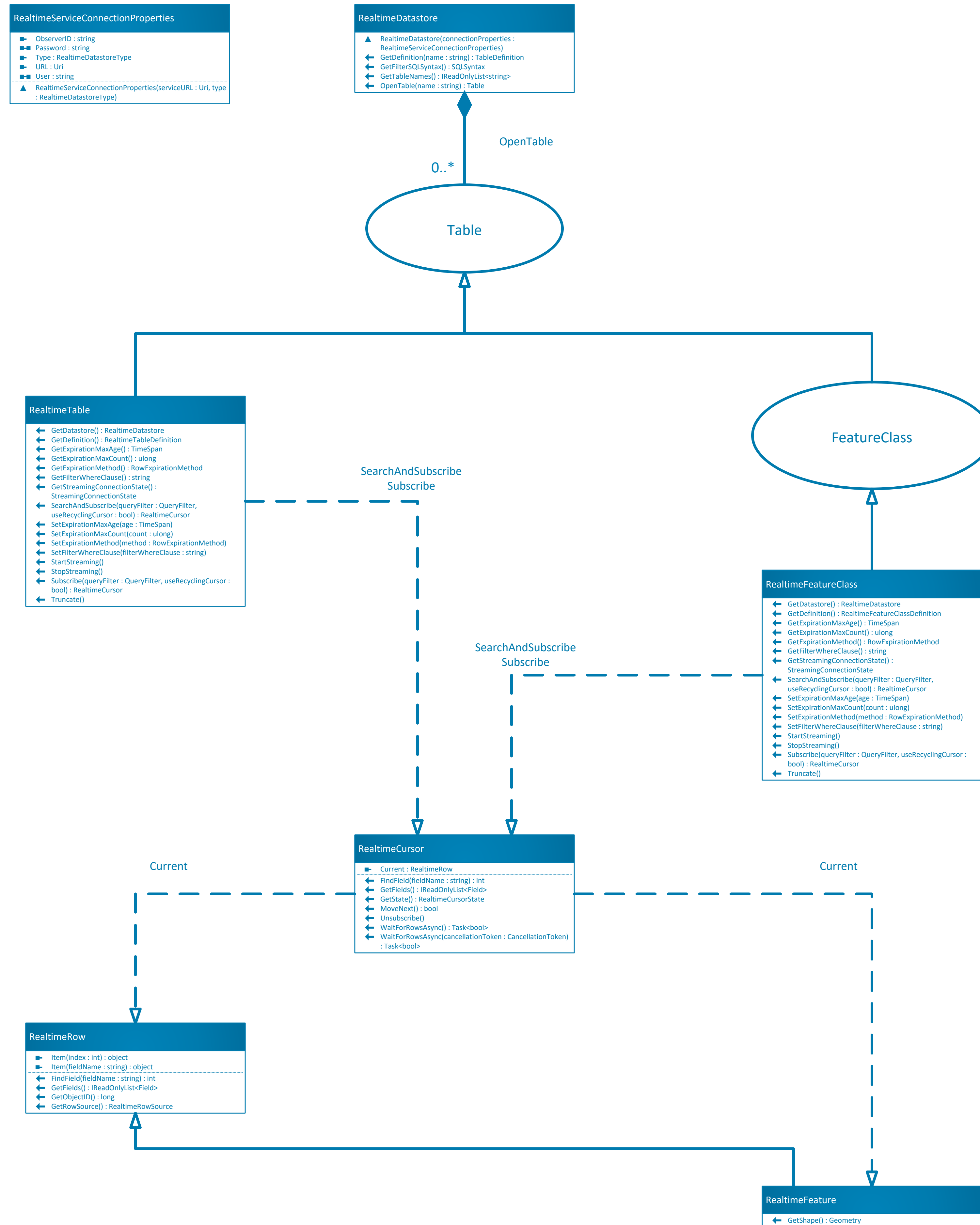
These are provided using C# data types. The output type gives an indication of the actual return type of the method or of its parameter passed by reference.



Geodatabase Object Model Realtime

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Geodatabase Object Model

Linear Referencing

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