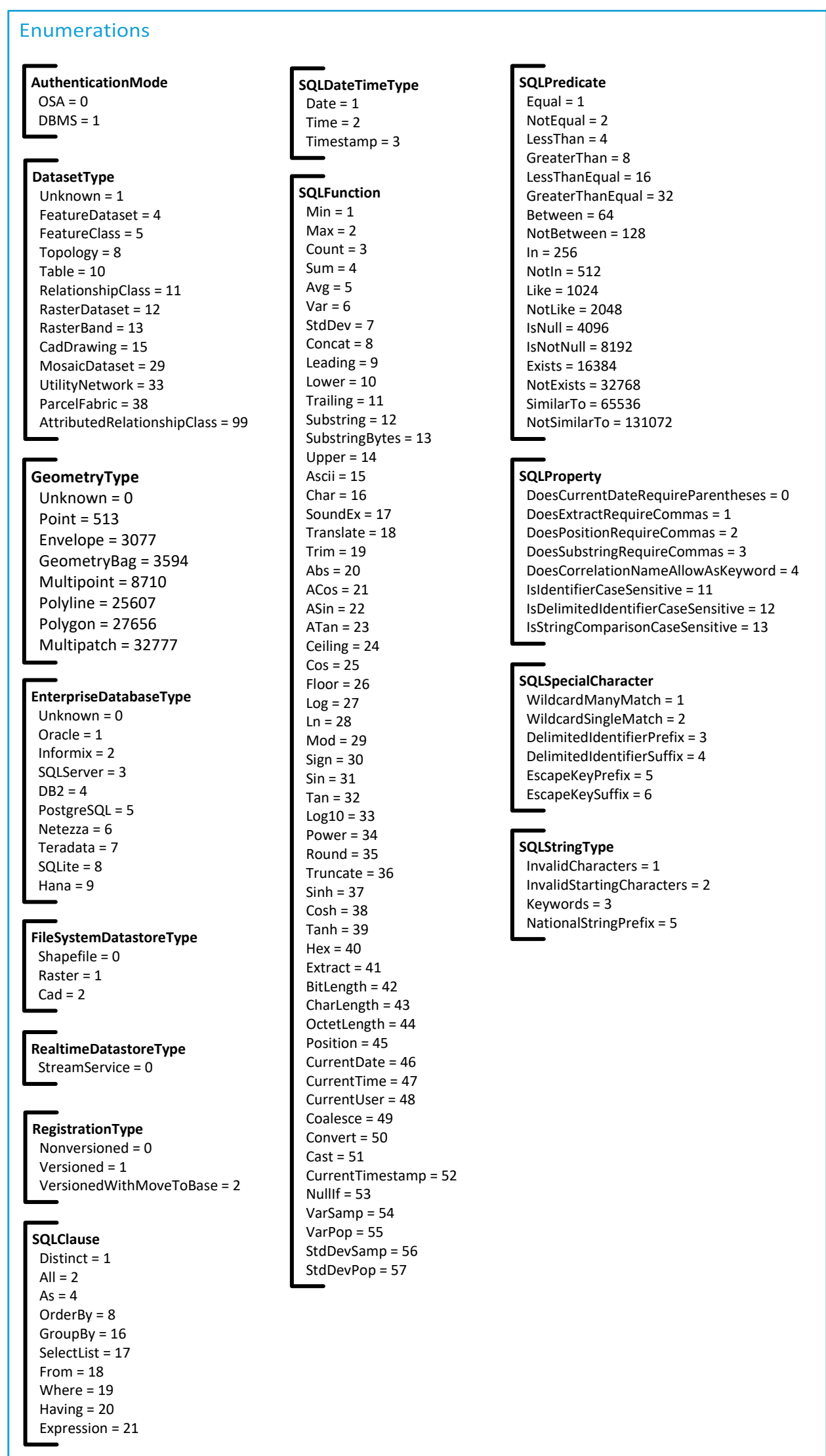
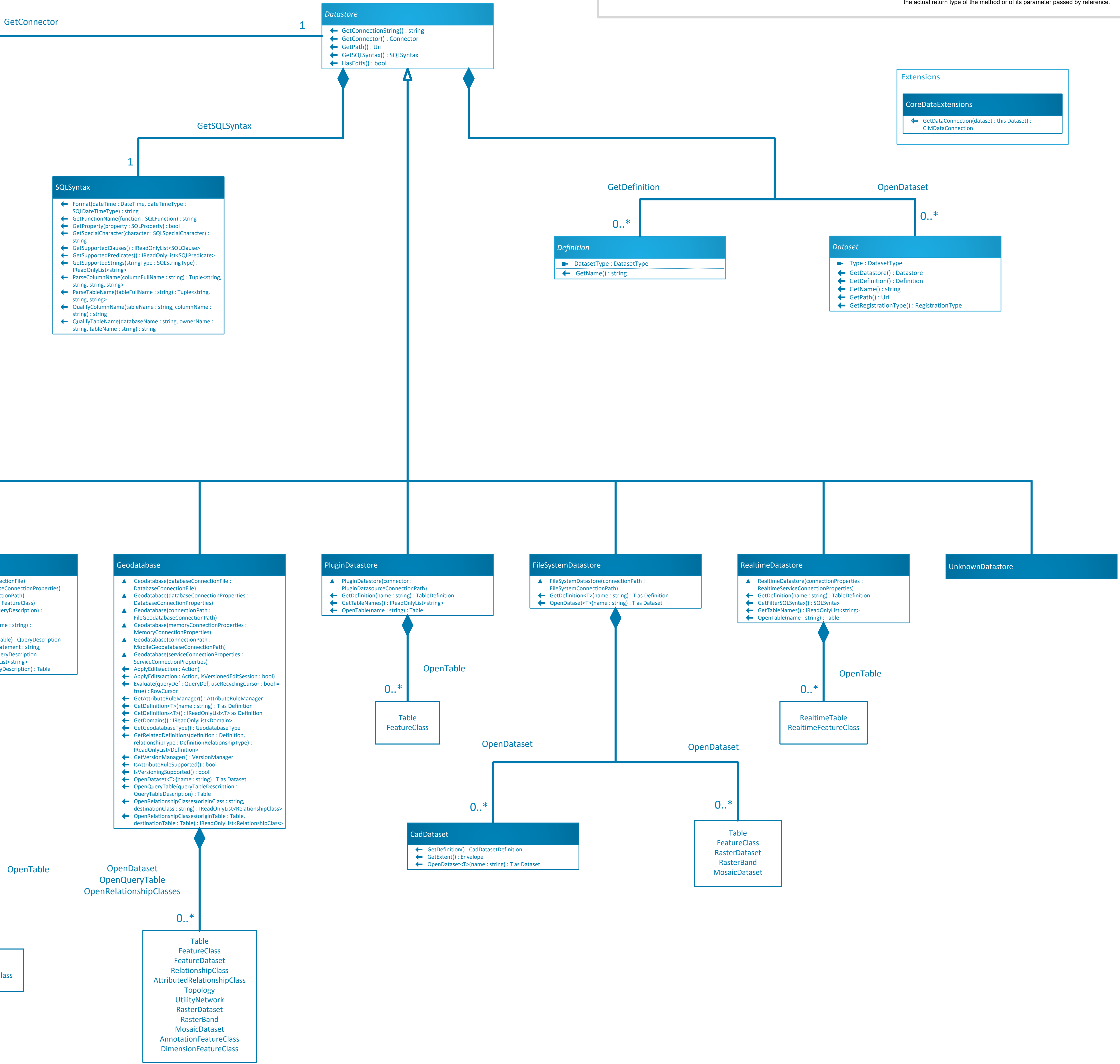
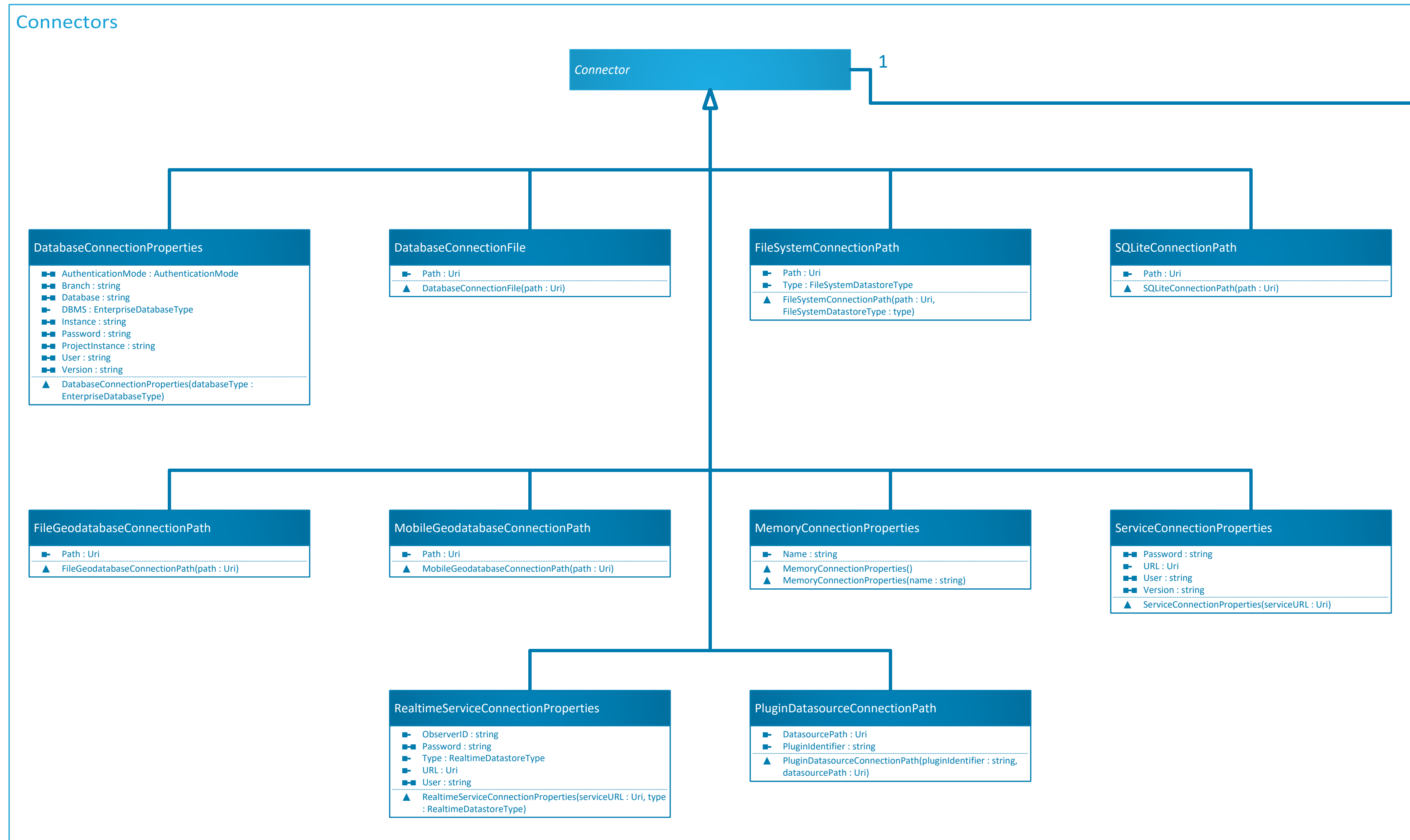


ESRI® ArcGIS® Pro SDK 3.0

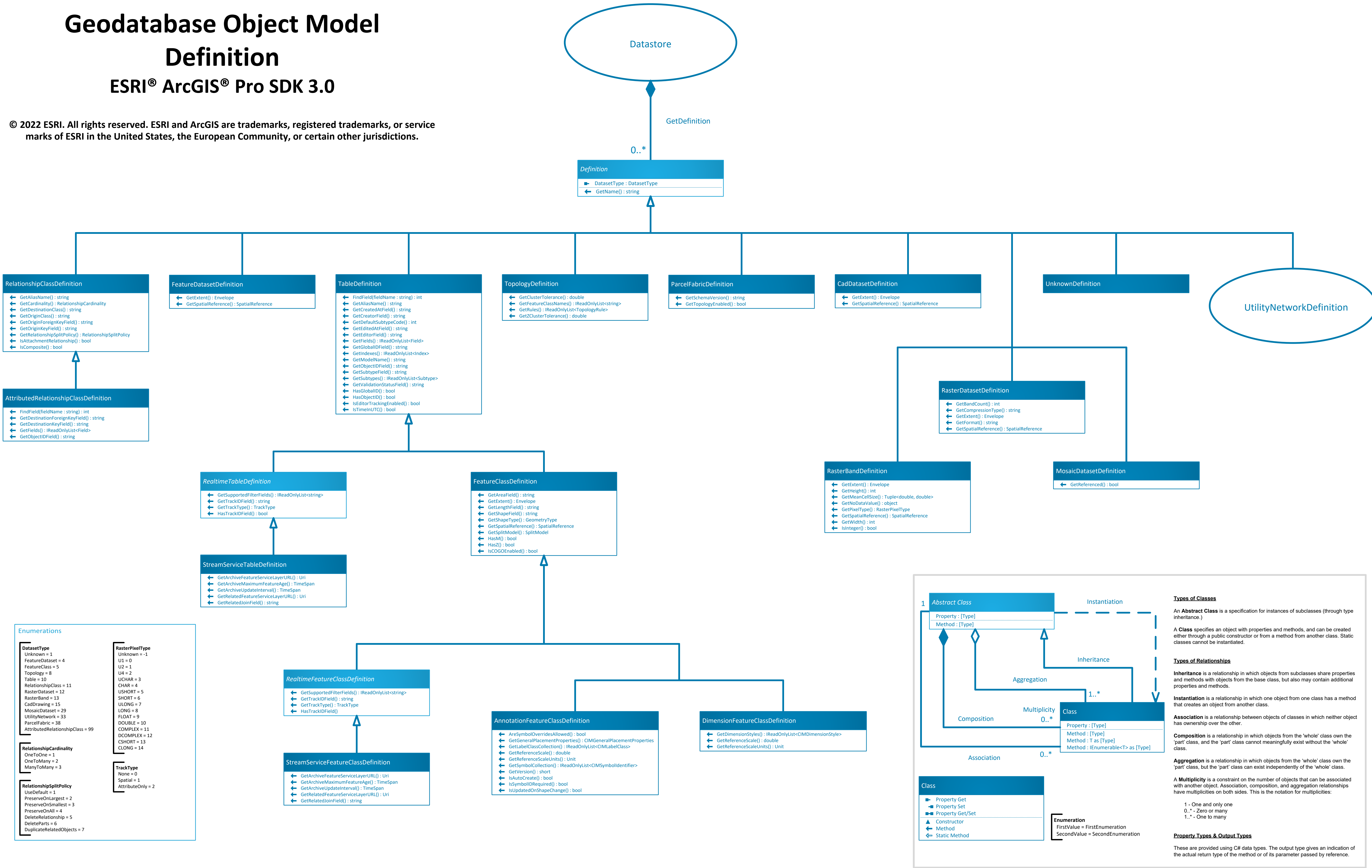
© 2022 ESRI. All rights reserved. ESRI and ArcGIS are trademarks, registered trademarks, or service marks of ESRI in the United States, the European Community, or certain other jurisdictions.



Geodatabase Object Model Definition

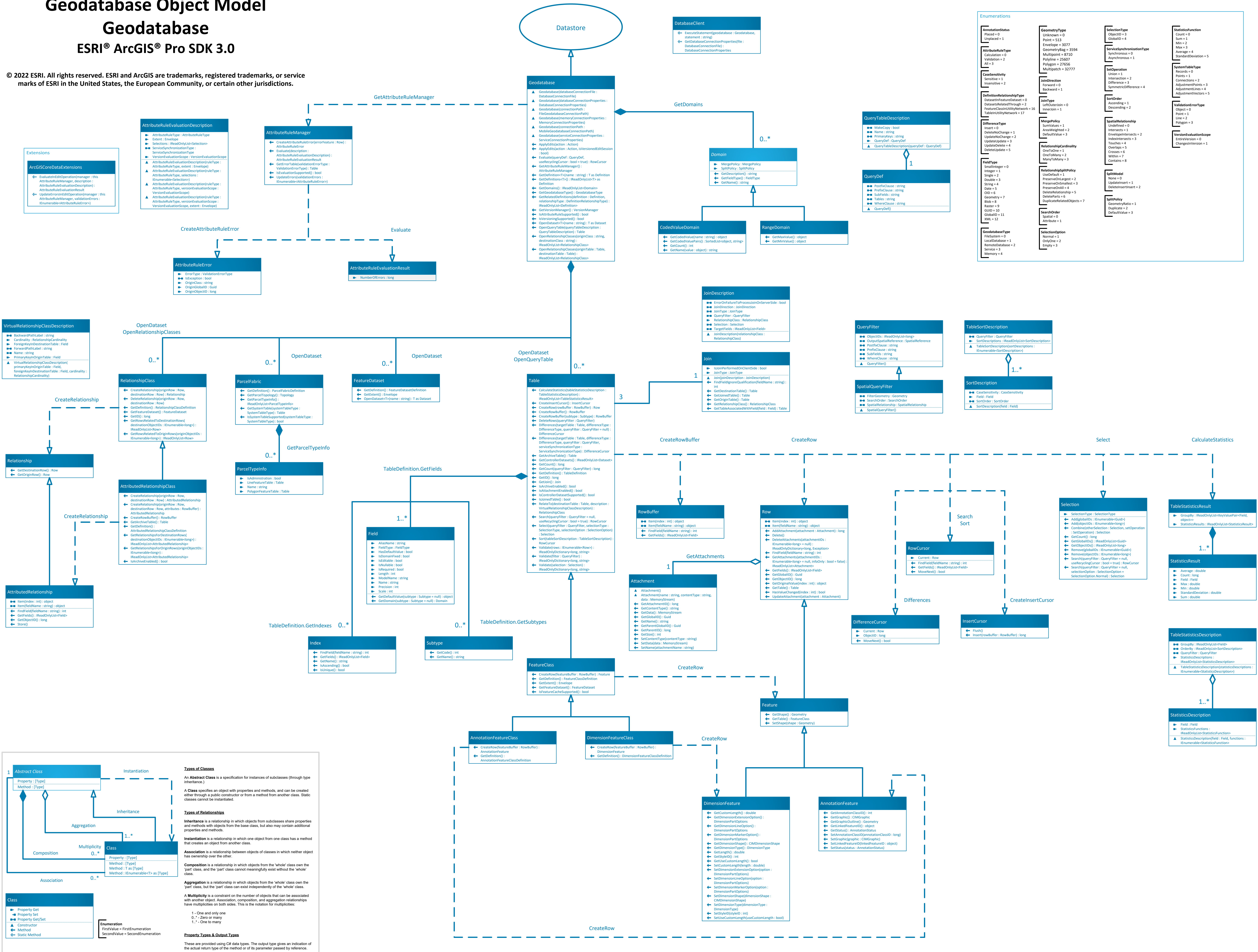
ESRI® ArcGIS® Pro SDK 3.0

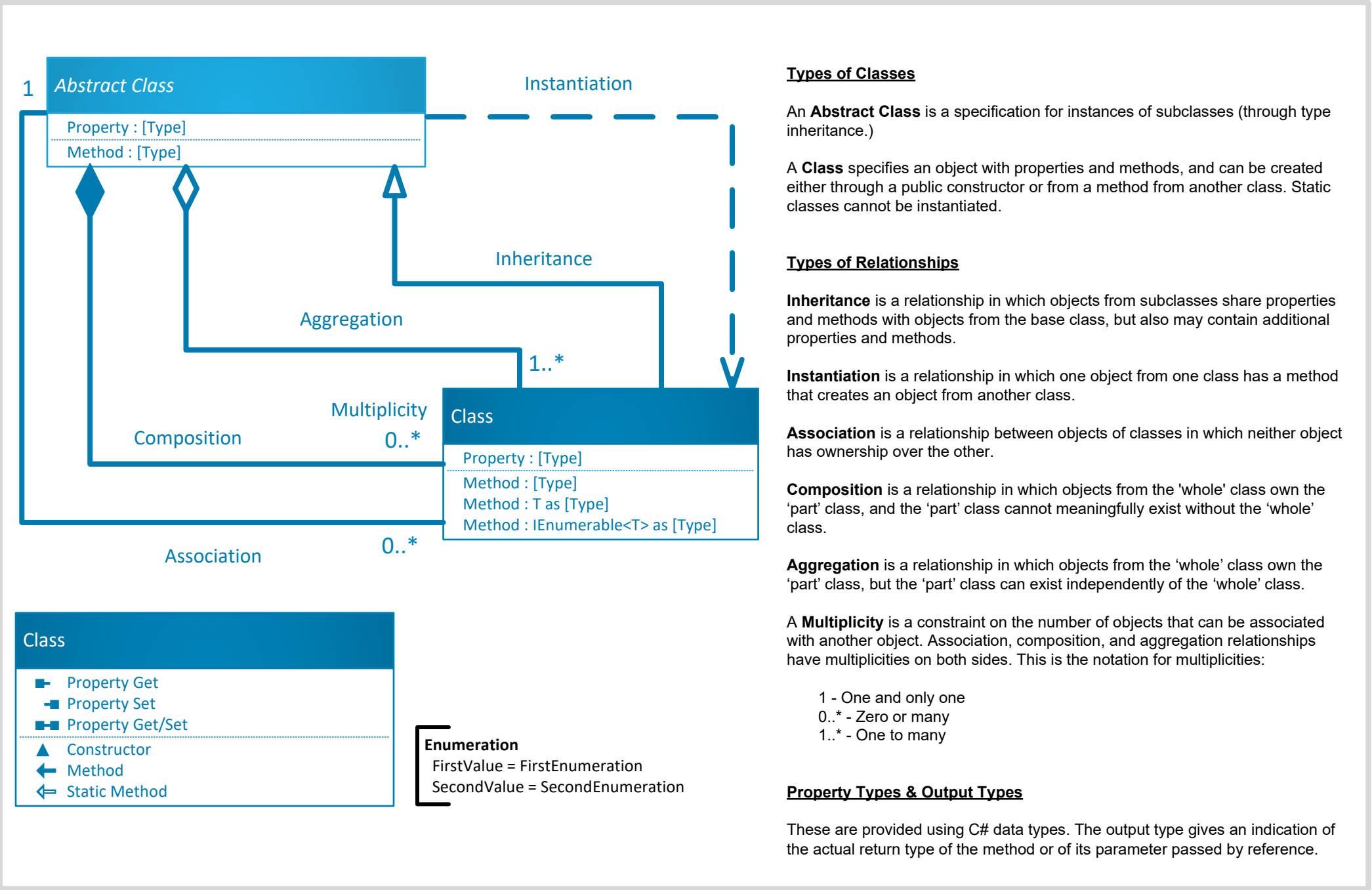
© 2022 ESRI. All rights reserved. ESRI and ArcGIS are trademarks, registered trademarks, or service marks of ESRI in the United States, the European Community, or certain other jurisdictions.



ESRI® ArcGIS® Pro SDK 3.0

© 2022 ESRI. All rights reserved. ESRI and ArcGIS are trademarks, registered trademarks, or service marks of ESRI in the United States, the European Community, or certain other jurisdictions.



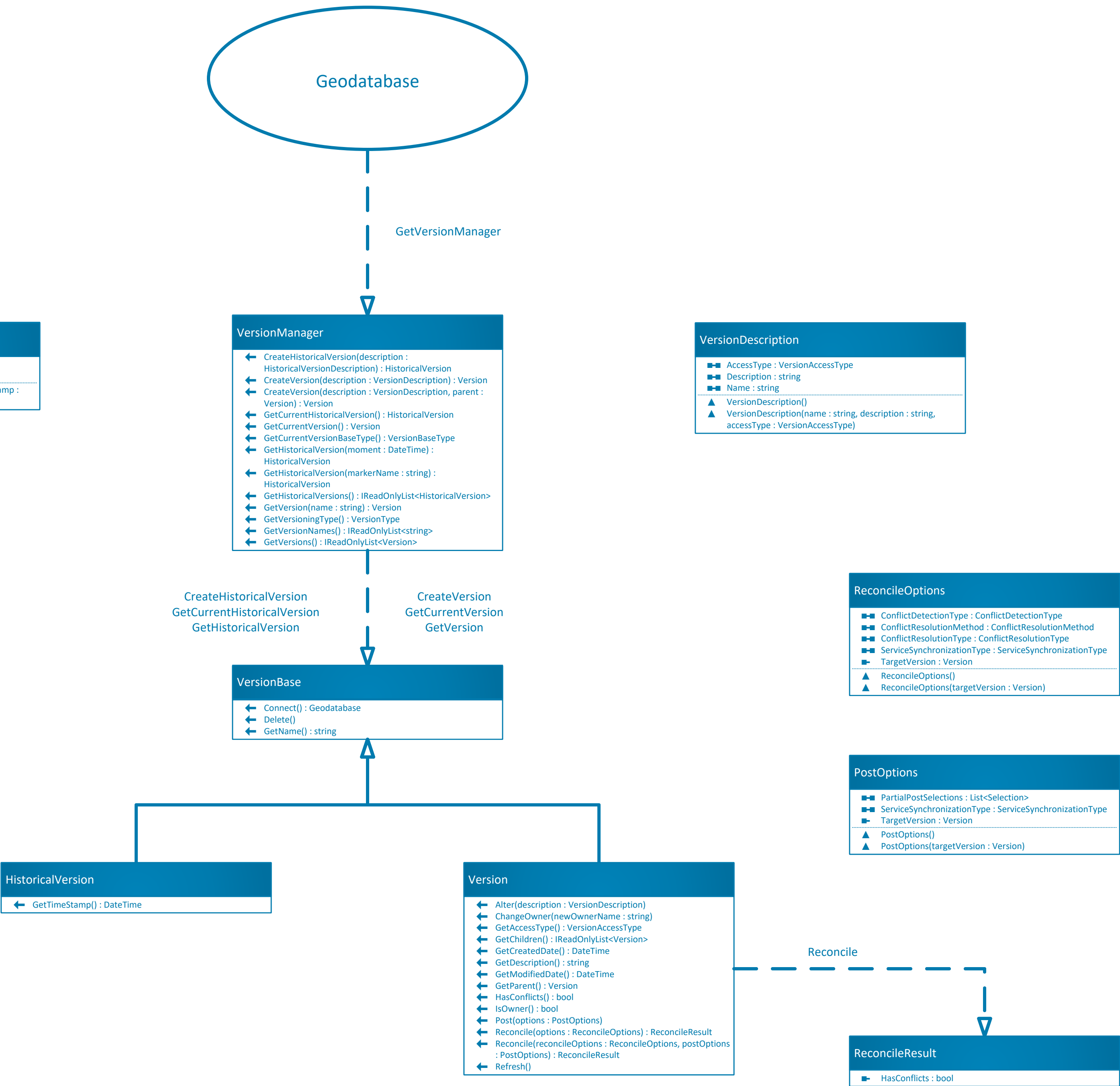
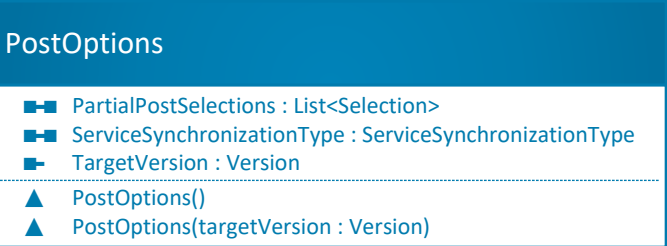
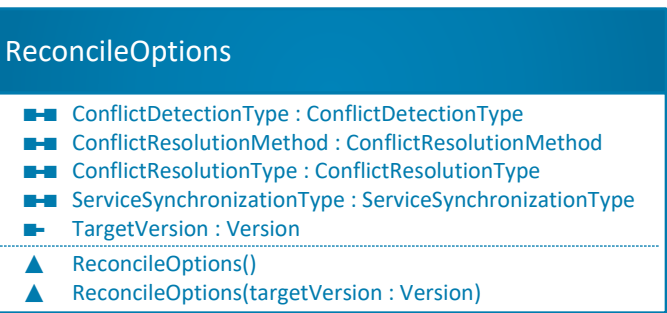
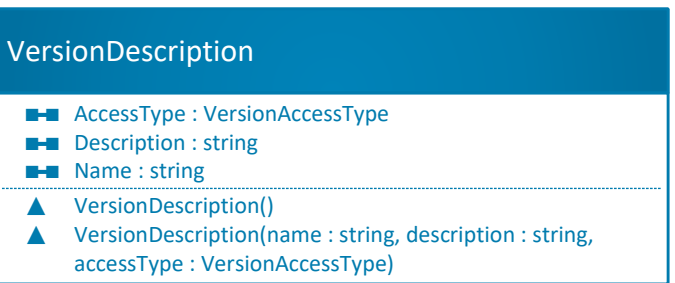
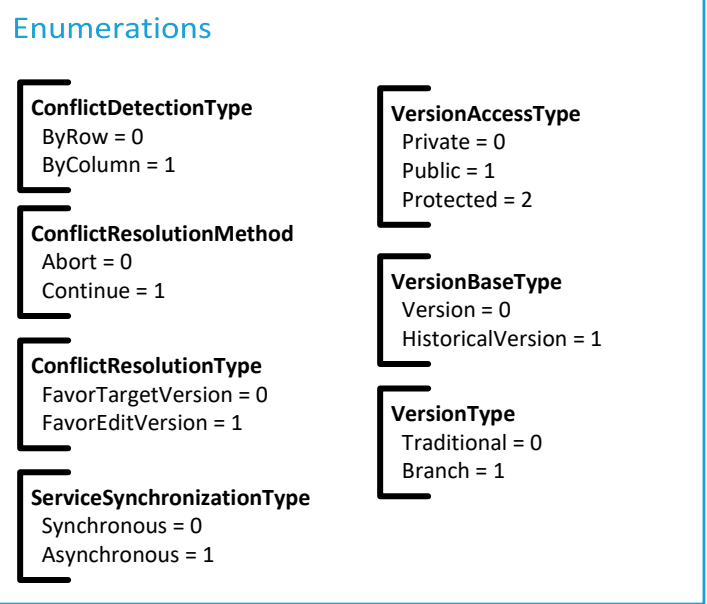


Geodatabase Object Model

Versioning

ESRI® ArcGIS® Pro SDK 3.0

© 2022 ESRI. All rights reserved. ESRI and ArcGIS are trademarks, registered trademarks, or service marks of ESRI in the United States, the European Community, or certain other jurisdictions.

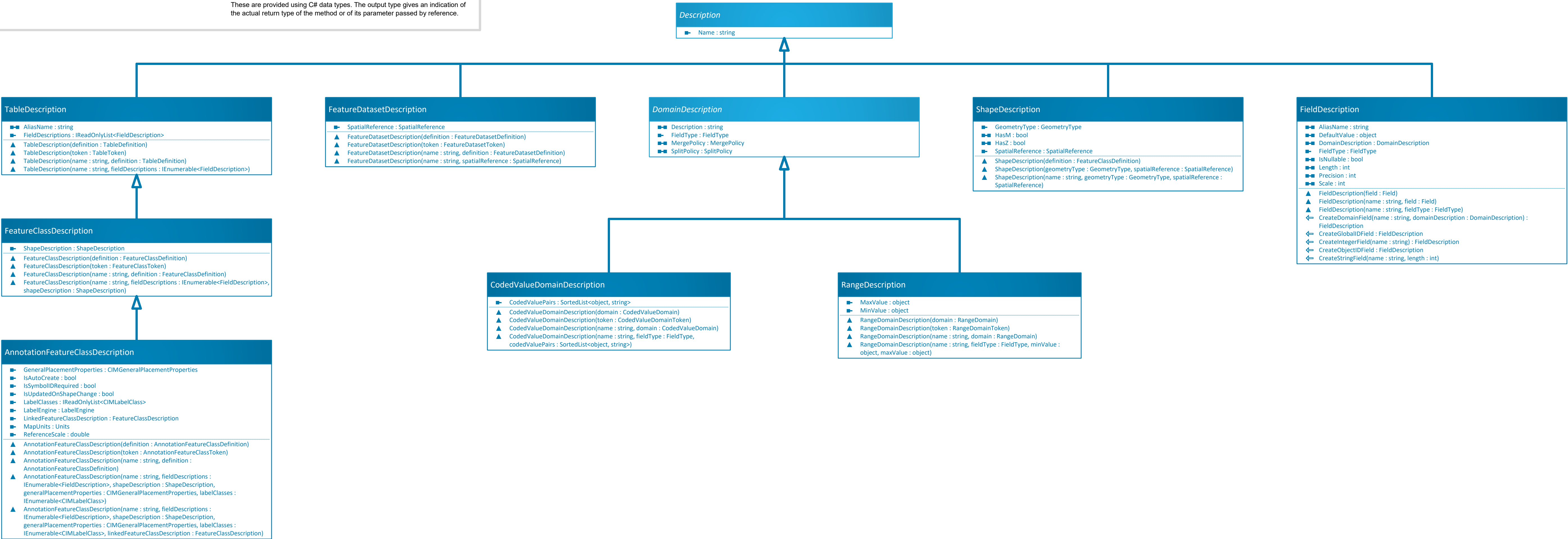
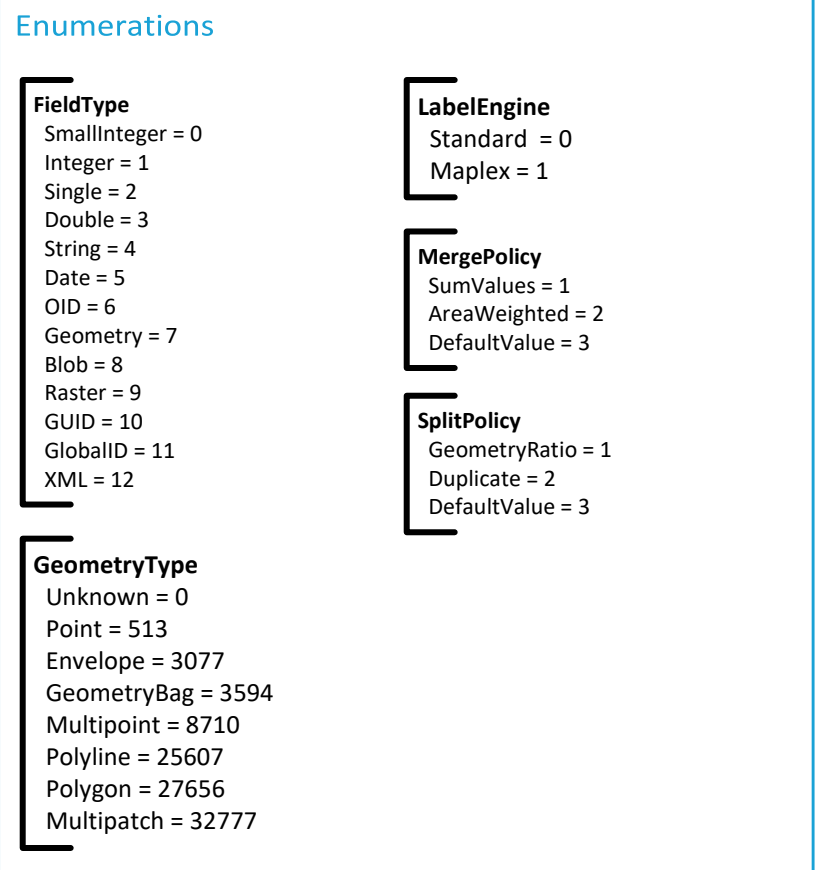
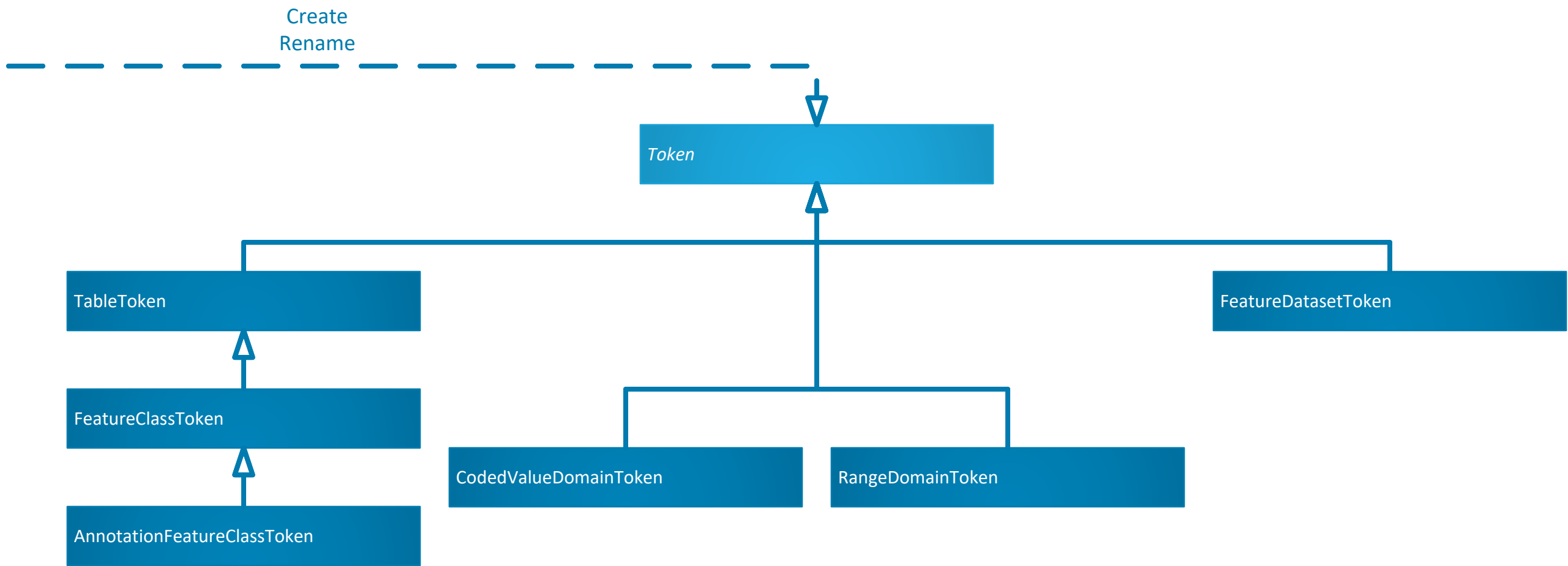
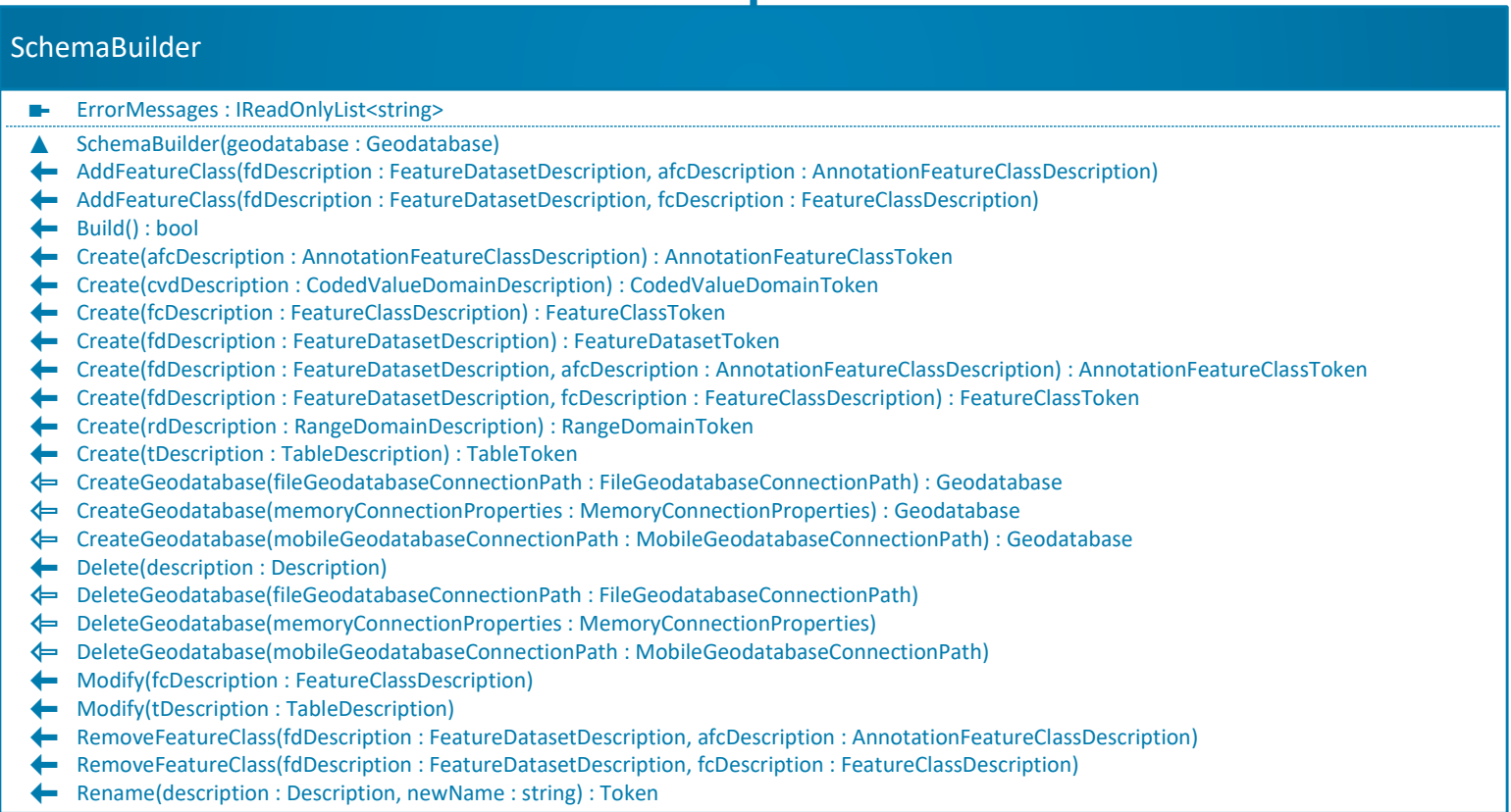
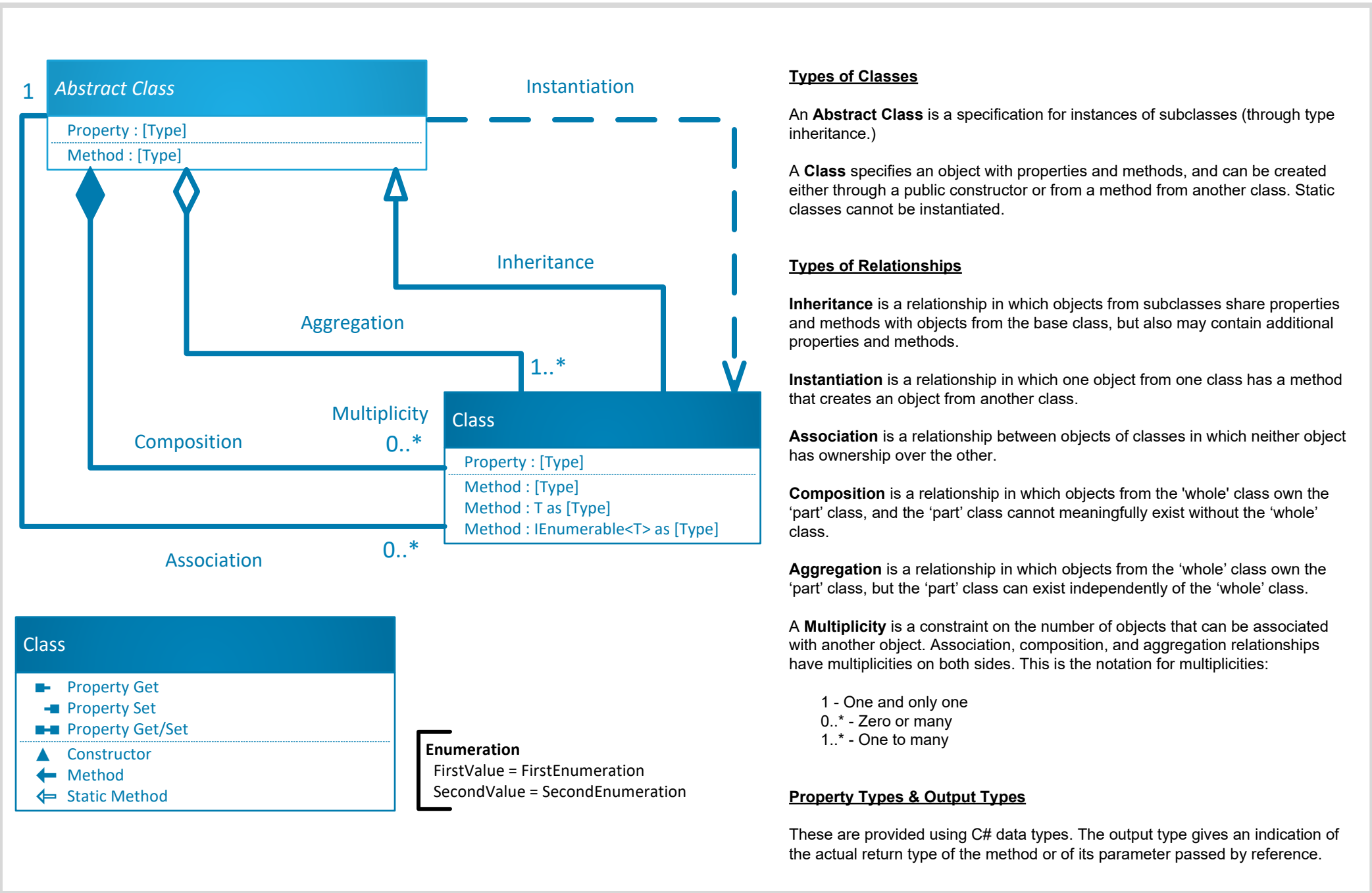


Geodatabase Object Model

DDL

ESRI® ArcGIS® Pro SDK 3.0

© 2022 ESRI. All rights reserved. ESRI and ArcGIS are trademarks, registered trademarks, or service marks of ESRI in the United States, the European Community, or certain other jurisdictions.



numerations

ErrorType

ErrorOnly = 0

ExceptionOnly = 1

ErrorAndException = 2

ServiceSynchronizationType

Synchronous = 0

Asynchronous = 1

TopologyRuleType

FeatureLargerThanClusterTolerance = 0

AreaNoGaps = 1

AreaNoOverlap = 3

AreaCoveredByAreaClass = 4

AreaAreaCoverEachOther = 5

AreaCoveredByArea = 7

AreaNoOverlapArea = 8

LineCoveredByAreaBoundary = 10

LineInsideArea = 11

PointCoveredByAreaBoundary = 13

PointProxInsideArea = 15

AreaContainOnePoint = 16

LineNoOverlap = 19

LineNoIntersection = 20

LineNoDangles = 21

LineNoPseudos = 22

LineCoveredByLineClass = 26

LineNoOverlapLine = 28

PointCoveredByLine = 29

PointCoveredByLineEndPoint = 31

PointDisJoin = 34

PointCoincidePoint = 35

AreaBoundaryCoveredByLine = 37

AreaBoundaryCoveredByAreaBoundary = 38

LineNoSelfIntersect = 39

LineNoSelfIntersect = 40

LineNoIntersectOrInteriorTouch = 41

LineEndPointCoveredByPoint = 42

AreaContainPoint = 43

LineNoMultiple = 44

LineNoIntersectLine = 45

LineNoIntersectOrInteriorTouchLine = 46

TopologyState

Unanalyzed = 0

AnalyzedWithErrors = 1

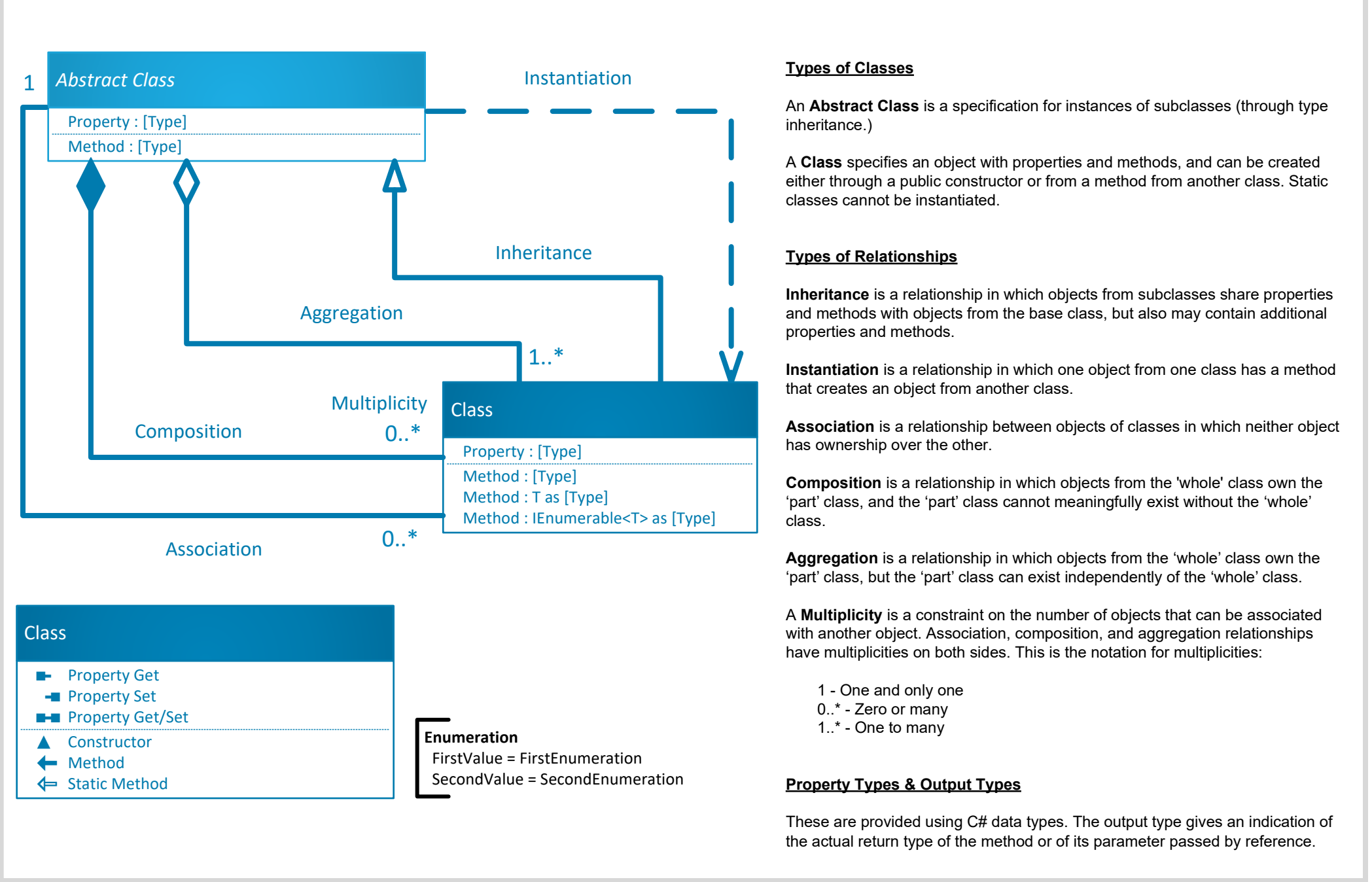
AnalyzedWithoutErrors = 2

Empty = 3

Extensions

ArcGISCoreDataExtensions

- ← MarkAsExceptionInEditOperation(topology : this Topology, topologyError : TopologyError)
- ← UnmarkAsExceptionInEditOperation(topology : this Topology, topologyError : TopologyError)
- ← ValidateInEditOperation(topology : this Topology, validationDescription : ValidationDescription) : ValidationResult

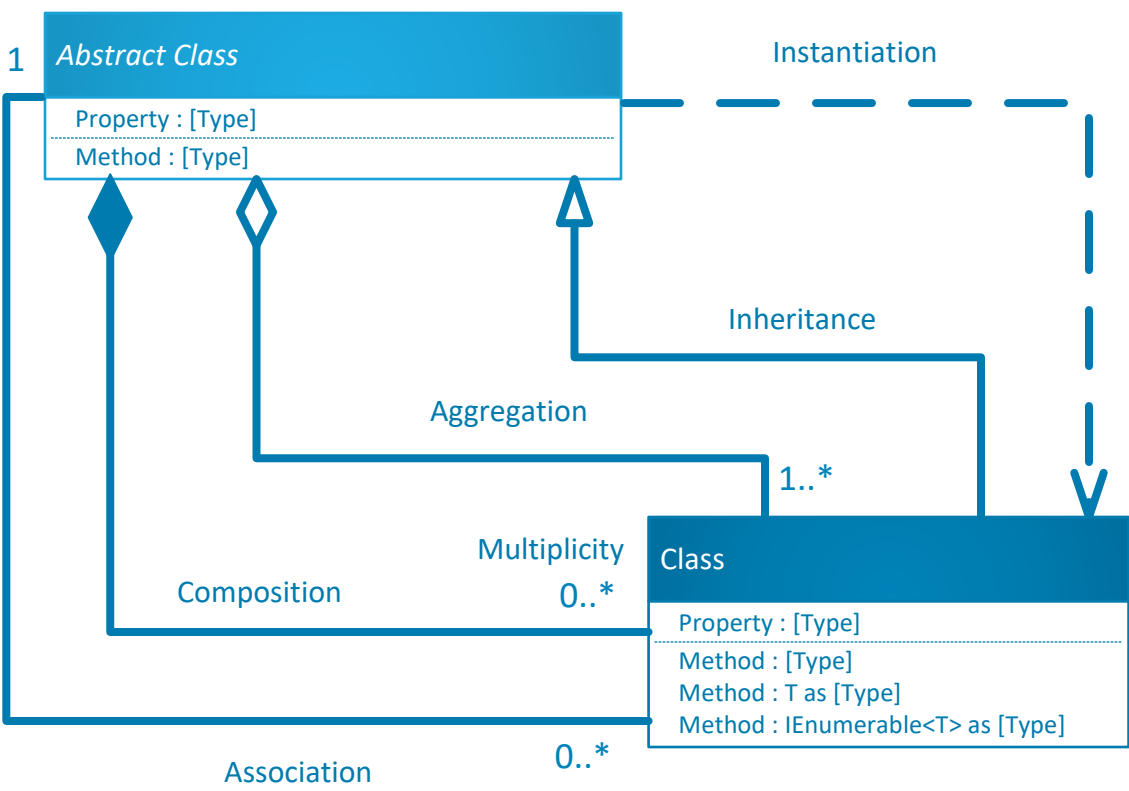


Geodatabase Object Model

Raster

ESRI® ArcGIS® Pro SDK 3.0

© 2022 ESRI. All rights reserved. ESRI and ArcGIS are trademarks, registered trademarks, or service marks of ESRI in the United States, the European Community, or certain other jurisdictions.



Enumeration
FirstValue = FirstEnumeration
SecondValue = SecondEnumeration

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.

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.

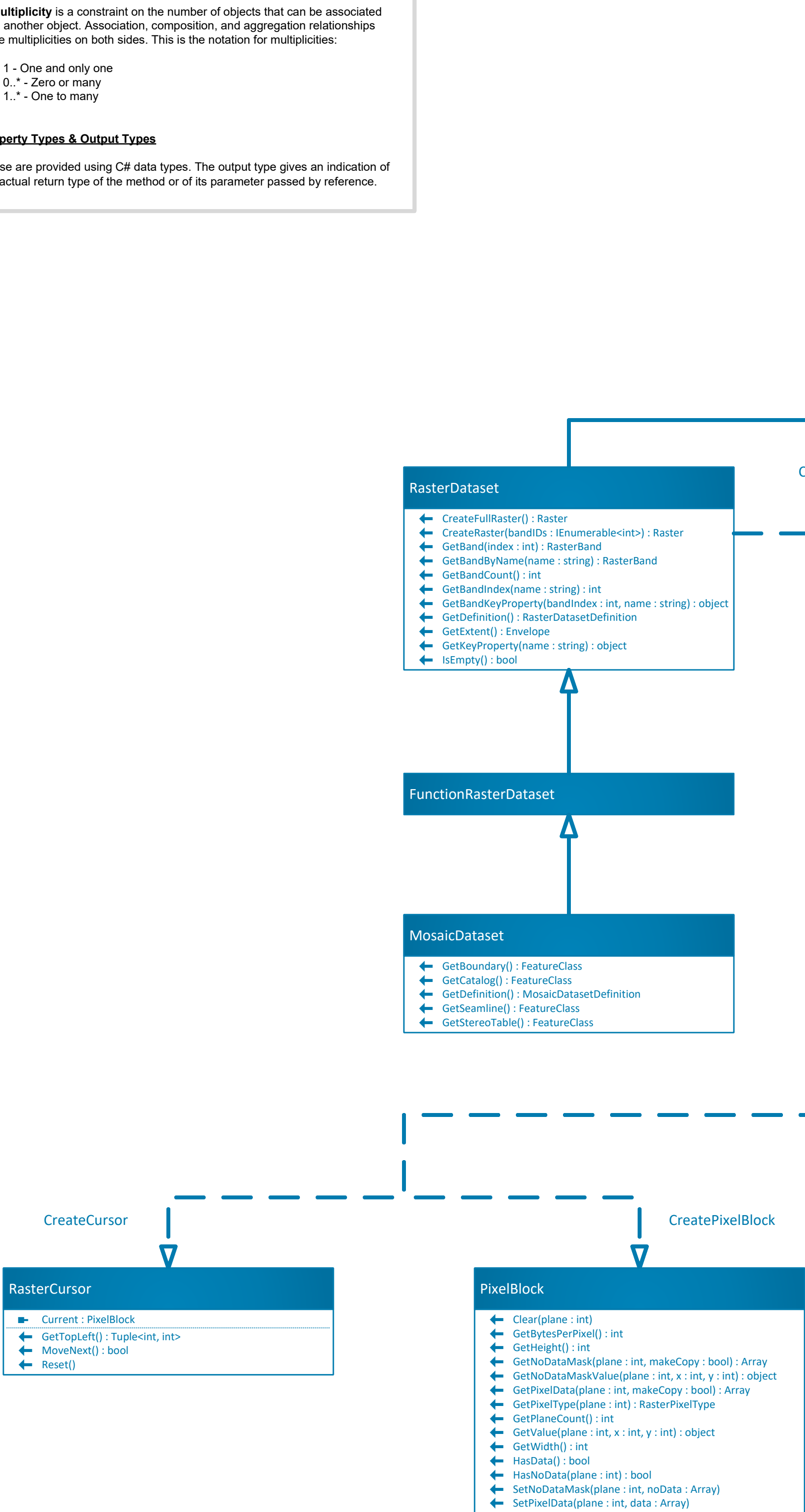
Aggregation is a relationship in which objects from the 'whole' class own the 'part' class, but the 'part' class can exist independently of the 'whole' class.

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.



Enumerations

RasterCompressionType
Unknown = -1
Uncompressed = 0
LZ77 = 1
JPEG = 2
JPEG2000 = 4
PackBits = 5
LZW = 6
RLE = 7
CCITTG3 = 8
CCITTG4 = 9
CCITTRLE = 10
JPEGYCbCr = 11
LERC = 12

RasterResamplingType
NearestNeighbor = 0
BilinearInterpolation = 1
CubicConvolution = 2
Majority = 3
BilinearInterpolationPlus = 4
BilinearGaussianBlur = 5
BilinearGaussianBlurPlus = 6
Average = 7
Minimum = 8
Maximum = 9
VectorAverage = 10

RasterResamplingHint
Closest = 1
Upsampling = 2
Downsampling = 3
Finest = 4

RasterPixelType
Unknown = -1
U1 = 0
U2 = 1
U4 = 2
UCHAR = 3
CHAR = 4
USHORT = 5
SHORT = 6
ULONG = 7
LONG = 8
FLOAT = 9
DOUBLE = 10
COMPLEX = 11
DCOMPLEX = 12
CSHORT = 13
CLONG = 14

RasterValue
RasterValue()
GetRasterDataset() : RasterDataset
GetRasterStorageDef() : RasterStorageDef
SetRasterDataset(rasterDataset : RasterDataset)
SetRasterStorageDef(def : RasterStorageDef)

RasterStorageDef
RasterStorageDef()
GetCellSize() : Tuple<double, double>
GetCompressionQuality() : int
GetCompressionType() : RasterCompressionType
GetOrigin() : MapPoint
GetPyramidLevel() : int
GetPyramidResampleType() : RasterResamplingType
GetTitleHeight() : int
GetTitleWidth() : int
SetCellSize(x : double, y : double)
SetCompressionQuality(quality : int)
SetCompressionType(compression : RasterCompressionType)
SetOrigin(origin : MapPoint)
SetPyramidLevel(level : int)
SetPyramidResampleType(resampling : RasterResamplingType)
SetTitleHeight(height : int)
SetTitleWidth(width : int)

Geodatabase Object Model Plugin

ESRI® ArcGIS® Pro SDK 3.0

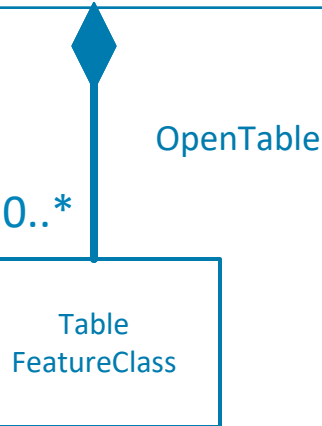
© 2022 ESRI. All rights reserved. ESRI and ArcGIS are trademarks, registered trademarks, or service marks of ESRI in the United States, the European Community, or certain other jurisdictions.

PluginDataSourceTemplate

```
CanOpen(connectionPath : Uri) : bool
Close()
GetDatasetDescription(datasetType : DatasetType) : string
GetDataSourceDescription(inPluralForm : bool) : string
GetTableNames() : IReadOnlyList<string>
IsQueryLanguageSupported() : bool
Open(connectionPath : Uri)
OpenTable(name : string) : PluginTableTemplate
```

PluginDatastore

```
PluginDatastore(connector :
PluginDataSourceConnectionPath)
GetDefinition(name : string) : TableDefinition
GetTableNames() : IReadOnlyList<string>
OpenTable(name : string) : Table
```

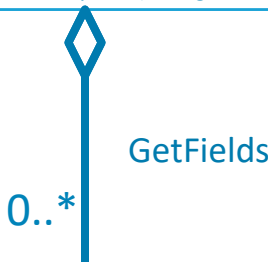


PluginTableTemplate

```
GetExtent() : Envelope
GetFields() : IReadOnlyList<PluginField>
GetName() : string
GetNativeRowCount() : long
GetShapeType() : GeometryType
IsNativeRowCountSupported() : bool
Search(filter : QueryFilter) : PluginCursorTemplate
Search(filter : SpatialQueryFilter) : PluginCursorTemplate
```

PluginField

```
AliasName : string
FieldType : FieldType
Length : int
Name : string
PluginField()
PluginField(name : string, aliasName : string, fieldType :
FieldType)
```

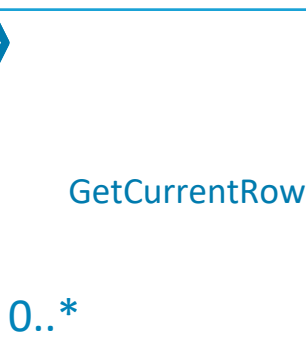


PluginCursorTemplate

```
GetCurrentRow() : PluginRow
MoveNext() : bool
```

PluginRow

```
Values : IReadOnlyList<object>
PluginRow()
PluginRow(values : IEnumerable<object>)
```



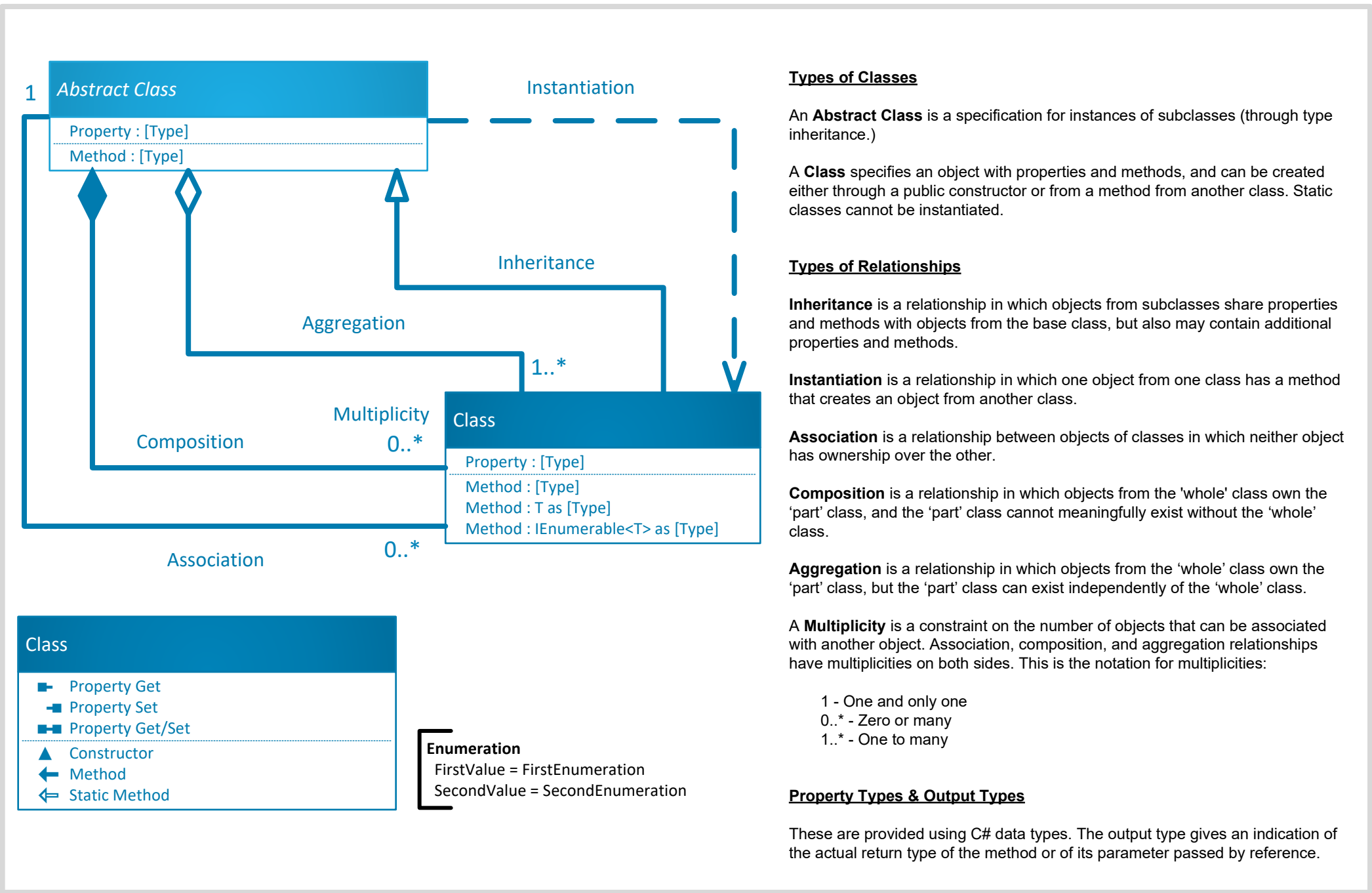
Enumerations

FieldType

```
SmallInteger = 0
Integer = 1
Single = 2
Double = 3
String = 4
Date = 5
OID = 6
Geometry = 7
Blob = 8
Raster = 9
GUID = 10
GlobalID = 11
XML = 12
```

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
```



Geodatabase Object Model

Realtime

ESRI® ArcGIS® Pro SDK 3.0

© 2022 ESRI. All rights reserved. ESRI and ArcGIS are trademarks, registered trademarks, or service marks of ESRI in the United States, the European Community, or certain other jurisdictions.

