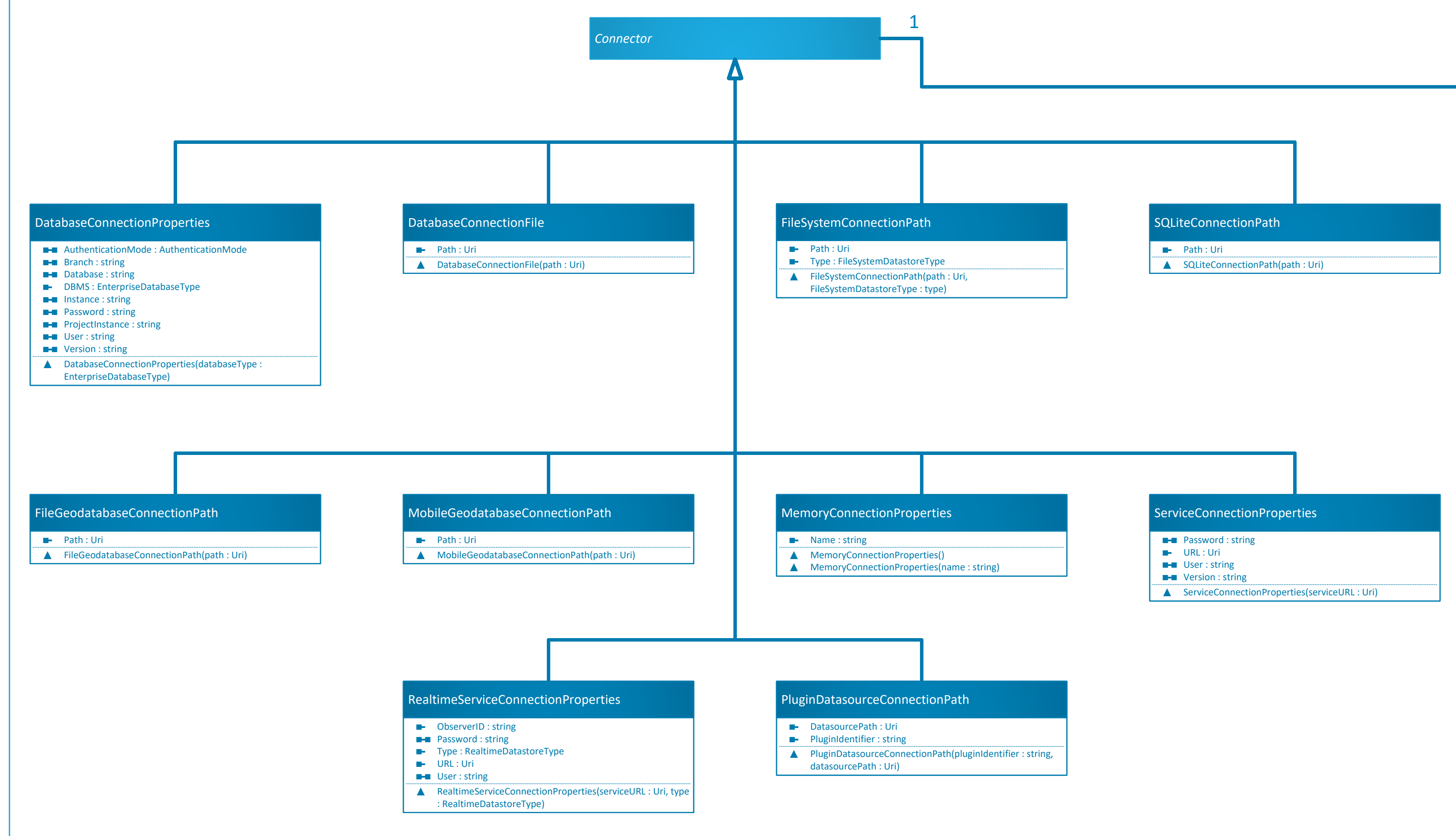


Geodatabase Object Model Datastore

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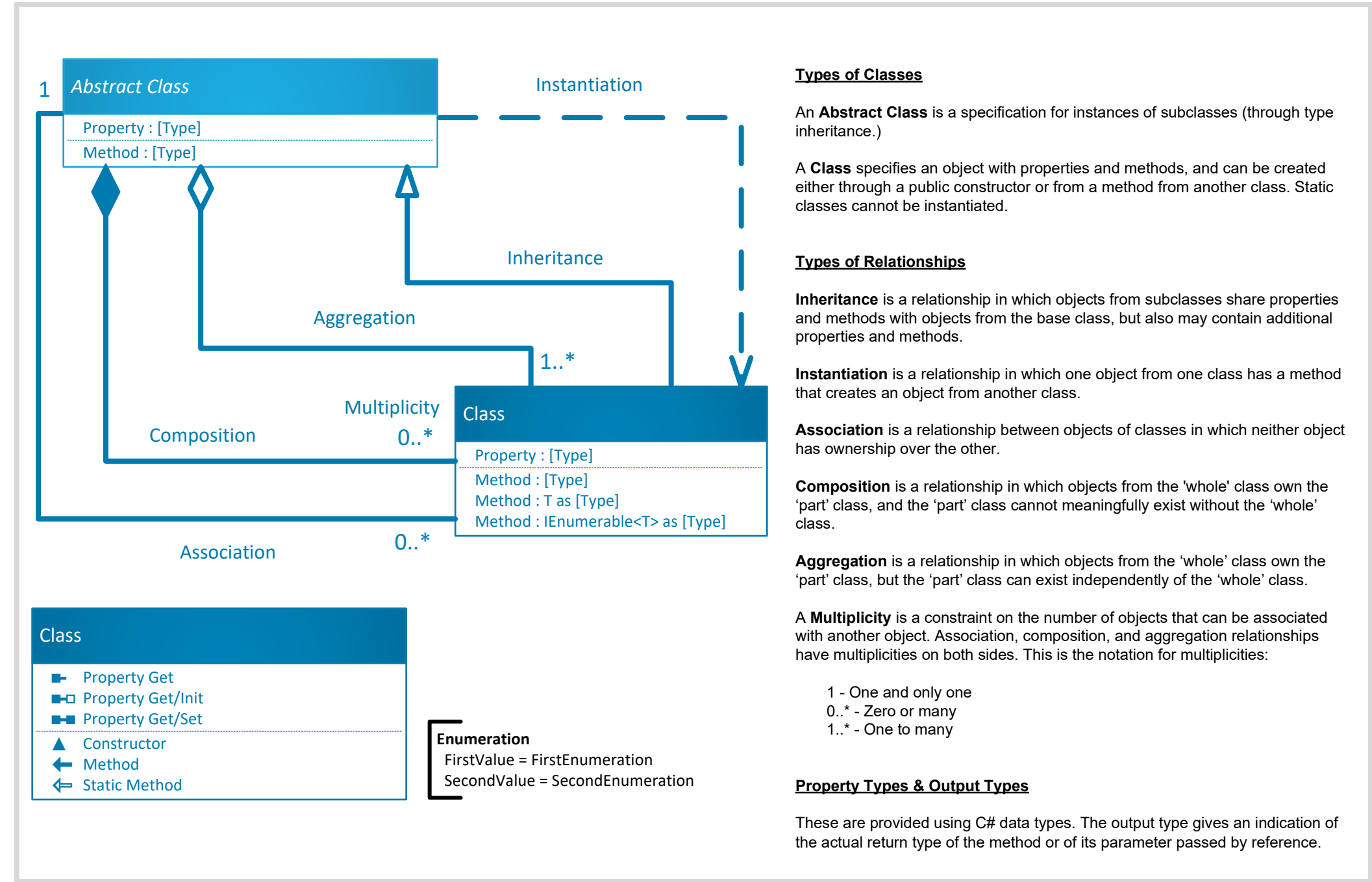
Connectors



GetConnector

GetSQLSyntax

```
SQLSyntax
+ Format(date : DateOnly, dateTimeType : SQLDateTimeType) : string
+ Format(dateTimeType : SQLDateTimeType) : string
+ Format(dateTime : DateTime, dateTimeType : SQLDateTimeType) : string
+ Format(dateTimeOffset : DateTimeOffset, dateTimeType : SQLDateTimeType) : string
+ Format(time : TimeOnly, dateTimeType : SQLDateTimeType) : string
+ GetFunctionName(function : SQLFunction) : string
+ GetProperty(property : SQLProperty) : bool
+ GetSpecialCharacter(character : SQLSpecialCharacter) : string
+ GetSupportedClauses() : ReadOnlyList<SQLClause>
+ GetSupportedPredicates() : ReadOnlyList<SQLPredicate>
+ GetSupportedStrings(stringType : SQLStringType) : ReadOnlyList<string>
+ ParseColumnName(columnFullName : string) : Tuple<string, string, string, string>
+ ParseTableName(tableName : string) : Tuple<string, string, string>
+ QualifyColumnName(tableName : string, columnName : string) : string
+ QualifyTableName(databaseName : string, ownerName : string, tableName : string)
```



Extensions

```
CoreDataExtensions
+ GetDataSet(dataset : this DataSet) : CIMDataConnection
```

GetQueryDescription

```
Database
+ Database(file : DatabaseConnectionFile)
+ Database(properties : DatabaseConnectionProperties)
+ Database(path : SQLiteConnectionPath)
+ CalculatedExtent(featureClass : FeatureClass)
+ GetDefinition(description : QueryDescription) : Table
+ TableDefinition
+ GetQueryDescription(tableName : string) : QueryDescription
+ GetQueryDescription(table : Table) : QueryDescription
+ GetQueryDescription(queryStatement : string, queryLayerName : string) : QueryDescription
+ GetTableName() : ReadOnlyList<string>
+ OpenTable(description : QueryDescription) : Table
```

```
QueryDescription
+ IQueryLayer : bool
+ QueryLayerName : string
+ TableName : string
+ UniqueQueryLayerName : string
+ GetField() : ReadOnlyList<Field>
+ GetObjectField() : string
+ GetObjectFieldId() : string
+ GetQueryStatement() : string
+ GetShapeField() : string
+ GetShapeType() : GeometryType
+ GetSpatialReference() : SpatialReference
+ GetSRID() : string
+ IObjectIDMappedColumnRequired() : bool
+ IsSpatialQuery() : bool
+ SetObjectIDField(objectFields : string)
+ SetShapeType(shapeType : GeometryType)
+ SetSpatialReference(spatialReference : SpatialReference)
+ SetSRID(srId : string)
```

OpenTable

```
Table
FeatureClass
RelationshipClass
AttributeTable
Topology
UtilityNetwork
RasterDataset
RasterBand
MosaicDataset
AnnotationFeatureClass
DimensionFeatureClass
```

OpenTable

```
Table
FeatureClass
```

OpenDataset

```
CadDataset
+ GetDefinition() : CadDatasetDefinition
+ GetExtent() : Envelope
+ OpenDataset(CadDataset : string) : T as Dataset
```

OpenDataset

```
Table
FeatureClass
RasterDataset
RasterBand
MosaicDataset
```

Enumerations

```
AuthenticationMode
CSMA = 0
DBMS = 1

DatasetType
Unknown = 1
FeatureDataset = 4
FeatureClass = 5
Topology = 8
Table = 10
RelationshipClass = 12
RasterDataset = 13
RasterBand = 15
CadDrawing = 15
MosaicDataset = 29
UtilityNetwork = 33
ParcelFabric = 38
AttributedRelationshipClass = 99

GeometryType
Unknown = 0
Point = 513
Envelope = 3077
GeometryBag = 3594
Multipoint = 8710
Polyline = 25207
Polygon = 27656
Multipatch = 32777

EnterpriseDatabaseType
Unknown = 0
Oracle = 1
Informix = 2
SQLServer = 3
DB2 = 4
PostgreSQL = 5
Netezza = 6
Teradata = 7
SQLite = 8
Snowflake = 9
Couchbase = 10
Hive = 11
Redshift = 12
Vertica = 13
Cassandra = 14
MongoDB = 15
CockroachDB = 16
DynamoDB = 17
Kubernetes = 18
Azure = 19
GoogleCloud = 20
IBMCloud = 21
OracleCloud = 22
SAP = 23
SAPCloud = 24
SAPHANA = 25
SAPCloudPlatform = 26
SAPCloudPlatformExtension = 27
SAPCloudPlatformExtensionExtension = 28
SAPCloudPlatformExtensionExtensionExtension = 29
SAPCloudPlatformExtensionExtensionExtensionExtension = 30
SAPCloudPlatformExtensionExtensionExtensionExtensionExtension = 31
SAPCloudPlatformExtensionExtensionExtensionExtensionExtensionExtension = 32
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SAPCloudPlatformExtensionExtensionExtensionExtensionExtensionExtensionExtensionExtensionExtensionExtensionExtensionExtensionExtensionExtensionExtensionExtensionExtensionExtensionExtensionExtensionExtensionExtensionExtensionExtensionExtensionExtensionExtensionExtensionExtensionExtension = 57

FileGeodatabaseType
Shapfile = 0
Raster = 1
Cad = 2

RealtimeDatastoreType
StreamService = 0

RegistrationType
Nonversioned = 0
Versioned = 1
VersionedWithMoveToBase = 2

SQLClause
Distinct = 1
All = 2
As = 4
OrderBy = 8
GroupBy = 16
SelectList = 17
From = 18
Where = 19
Having = 20
Expression = 21

SQLDateTimeType
Date = 1
Time = 2
Timestamp = 3

SQLFunction
Unknown = 1
Min = 1
Max = 2
Count = 3
Sum = 4
Avg = 5
Var = 6
StdDev = 7
Concat = 8
Leading = 9
Lower = 10
Trailing = 11
Substring = 12
SubstringFrom = 13
Upper = 14
Add = 15
Char = 16
Soundex = 17
Translate = 18
Trim = 19
Abs = 20
Acos = 21
Asin = 22
Atan = 23
Ceiling = 24
Cos = 25
Floor = 26
Log = 27
Ln = 28
Mod = 29
Sign = 30
Sin = 31
Tan = 32
Log10 = 33
Power = 34
Round = 35
Truncate = 36
Sinh = 37
Cosh = 38
Tanh = 39
Hex = 40
Extract = 41
WLength = 42
CharLength = 43
OctetLength = 44
Position = 45
CurrentDate = 46
CurrentTime = 47
CurrentUser = 48
Collect = 49
Convert = 50
Cast = 51
CurrentTimestamp = 52
Versioned = 53
VarSamp = 54
VarPop = 55
StdDevSamp = 56
StdDevPop = 57

SQLPredicate
Equal = 1
NotEqual = 2
LessThan = 4
GreaterThan = 8
LessThanOrEqualTo = 16
GreaterThanOrEqualTo = 32
Between = 64
NotBetween = 128
In = 256
NotIn = 512
Like = 1024
NotLike = 2048
IsNull = 4096
IsNotNull = 8192
Exists = 16384
NotExists = 32768
SimilarTo = 65536
NotSimilarTo = 131072

SQLProperty
DoesCurrentDateRequireParentheses = 0
DoesDateRequireCommas = 1
DoesPositionRequireCommas = 2
DoesSubstringRequireCommas = 3
DoesCorrelationNameAllowKeyword = 4
IsIdentifierCaseSensitive = 11
IsDelimitedIdentifierCaseSensitive = 12
IsStringComparisonCaseSensitive = 13

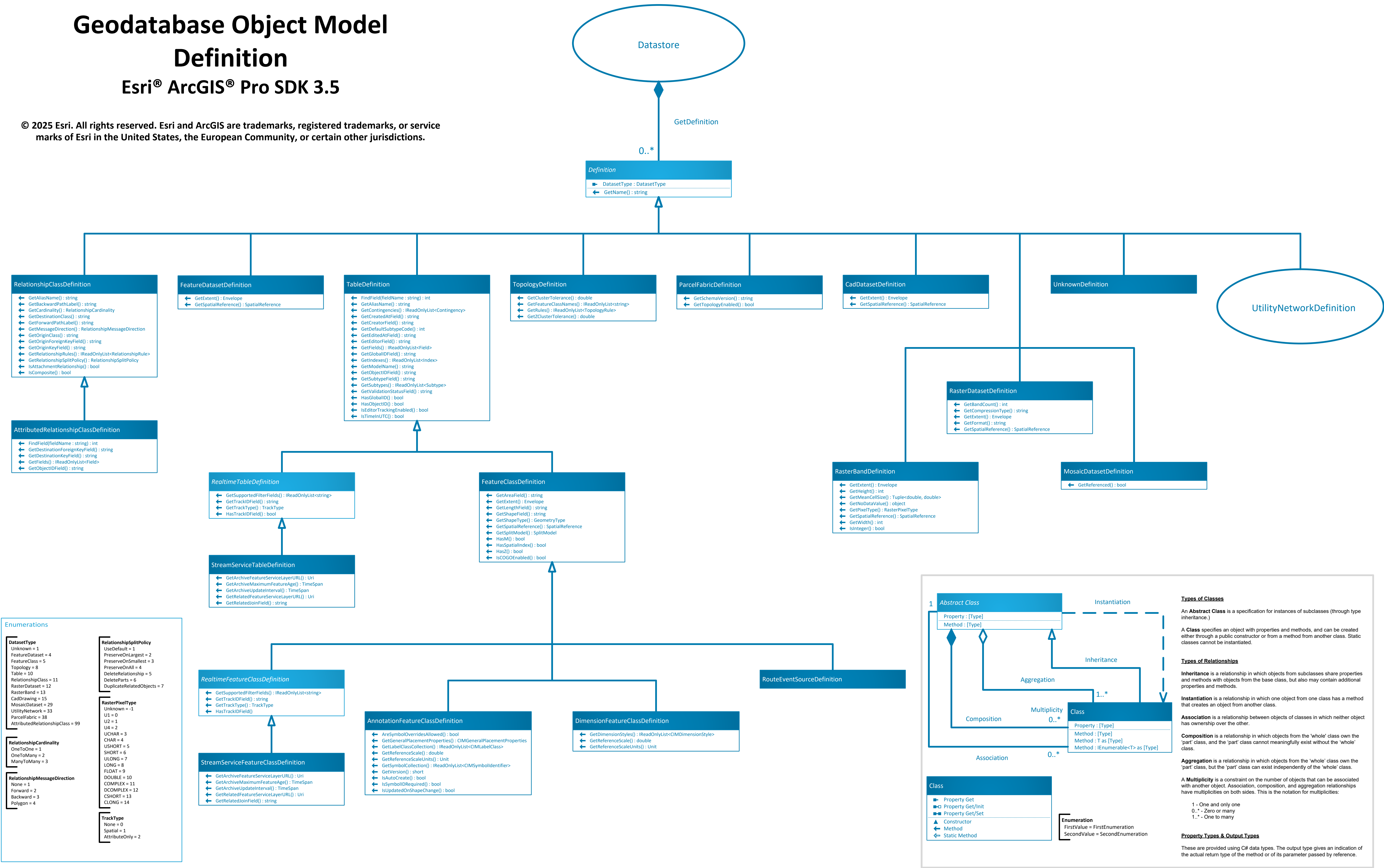
SQLSpecialCharacter
WildcardManyMatch = 1
WildcardSingleMatch = 2
DelimitedIdentifierPrefix = 3
DelimitedIdentifierSuffix = 4
EscapeKeyPrefix = 5
EscapeKeySuffix = 6

SQLStringType
InvalidCharacters = 1
InvalidStartingCharacters = 2
Keywords = 3
NationalStringPrefix = 5
```

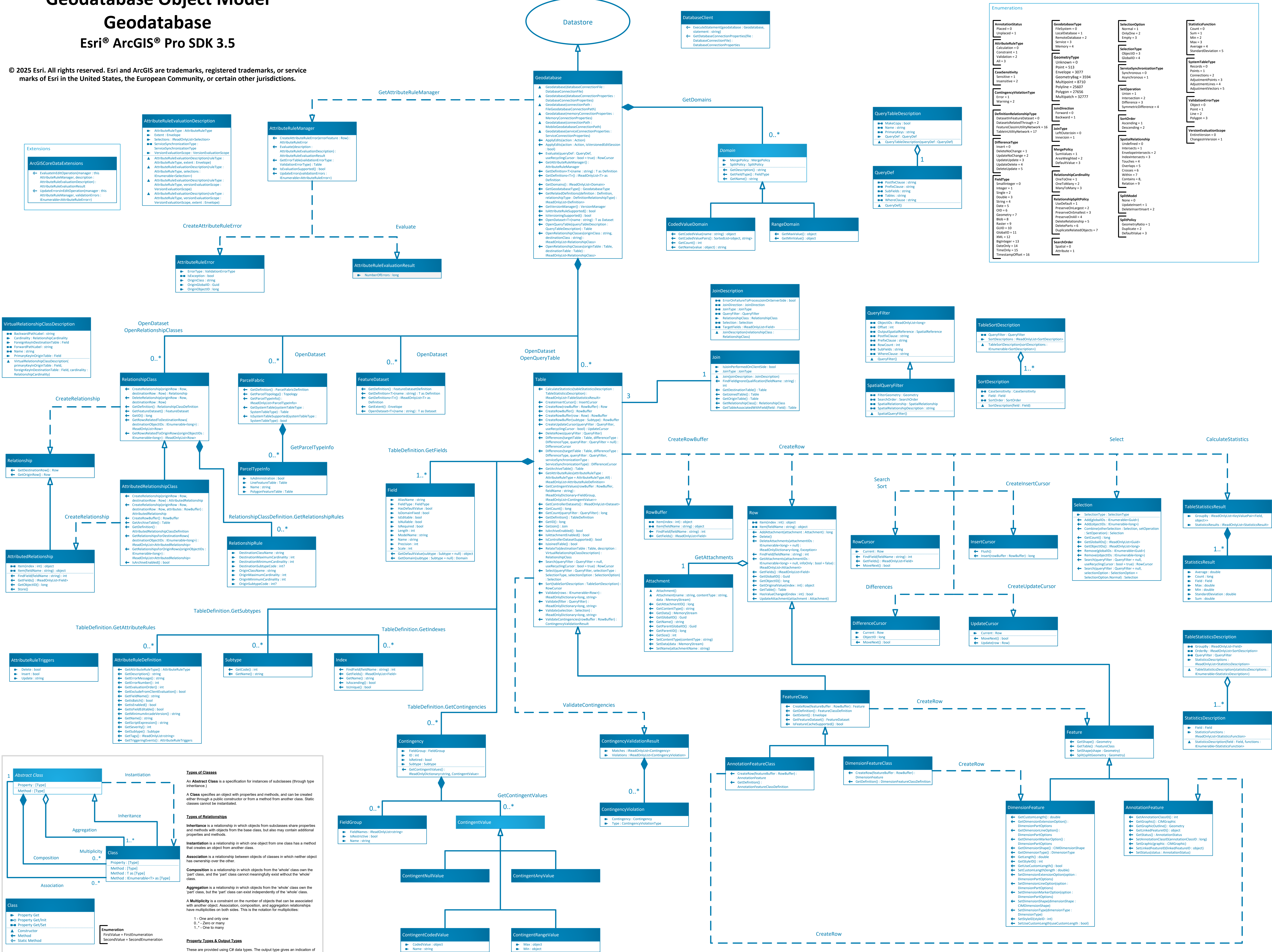

Geodatabase Object Model Definition

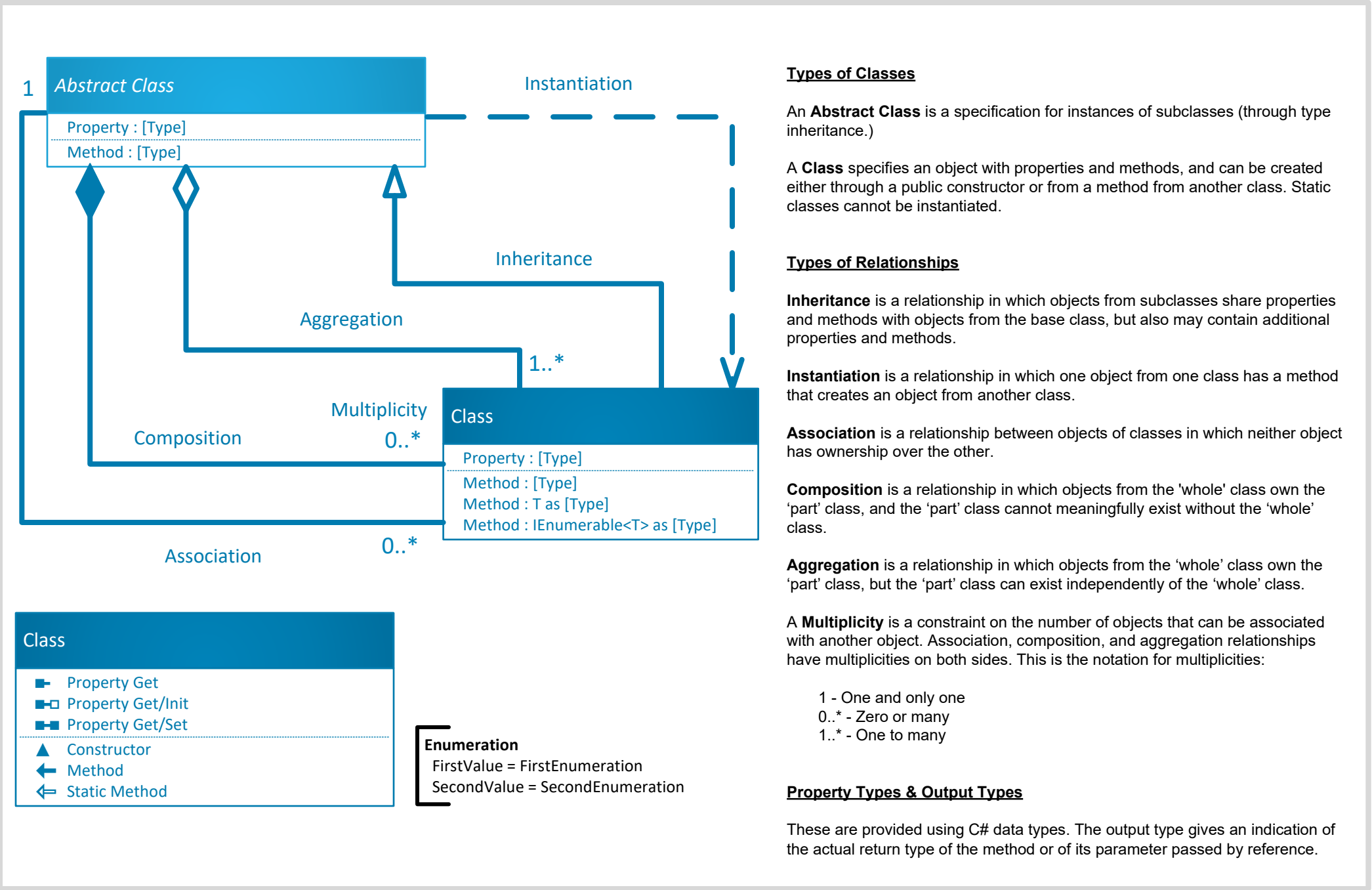
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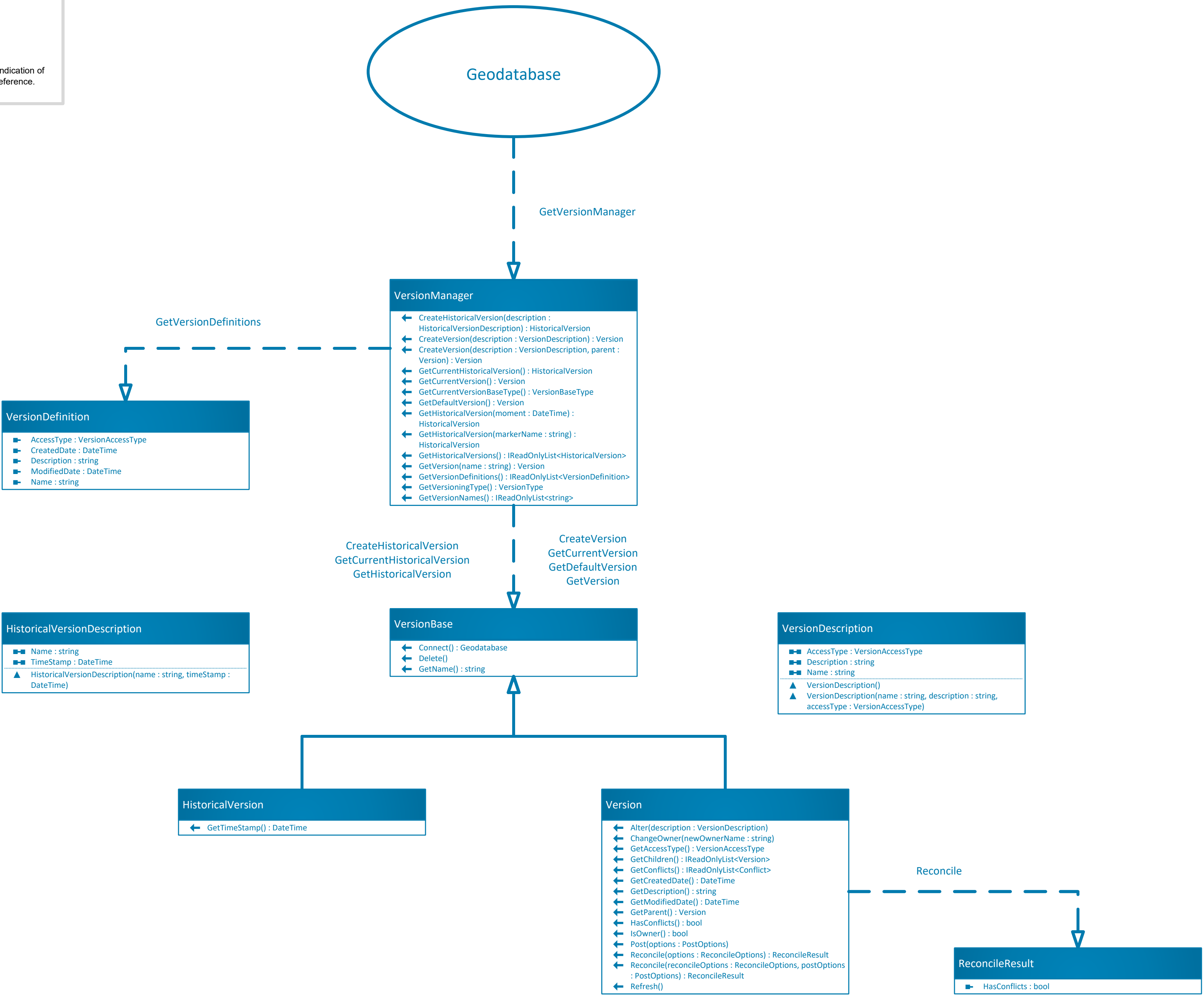


Geodatabase Object Model

Versioning

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ConflictDetectionType ByRow = 0 ByColumn = 1	ServiceSynchronizationType Synchronous = 0 Asynchronous = 1
ConflictResolutionMethod Abort = 0 Continue = 1	VersionAccessType Private = 0 Public = 1 Protected = 2
ConflictResolutionType FavorTargetVersion = 0 FavorEditVersion = 1	VersionBaseType Version = 0 HistoricalVersion = 1
ConflictType UpdateUpdate = 3 UpdateDelete = 4 DeleteUpdate = 5	VersionType Traditional = 0 Branch = 1

ReconcileOptions
<div><div>ConflictDetectionType : ConflictDetectionType</div><div>ConflictResolutionMethod : ConflictResolutionMethod</div><div>ConflictResolutionType : ConflictResolutionType</div><div>ServiceSynchronizationType : ServiceSynchronizationType</div><div>TargetVersion : Version</div></div> <div><div>ReconcileOptions()</div><div>ReconcileOptions(targetVersion : Version)</div></div>

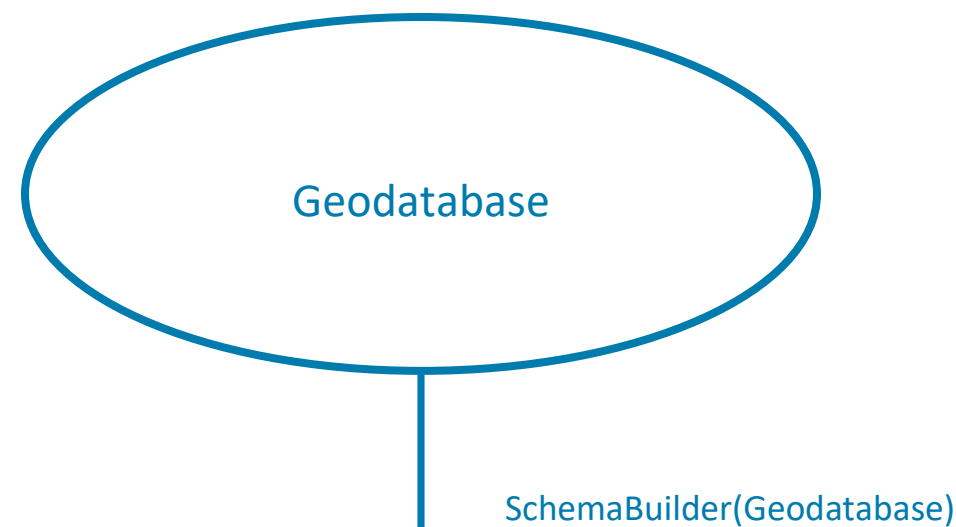
PostOptions
<div><div>PartialPostSelections : List<Selection></div><div>ServiceSynchronizationType : ServiceSynchronizationType</div><div>TargetVersion : Version</div></div> <div><div>PostOptions()</div><div>PostOptions(targetVersion : Version)</div></div>

Conflict
<div><div>AncestorVersionValues : IReadOnlyList<FieldValue></div><div>ChildVersionValues : IReadOnlyList<FieldValue></div><div>ConflictType : ConflictType</div><div>DatasetName : string</div><div>ObjectID : long</div><div>ParentVersionValues : IReadOnlyList<FieldValue></div></div>

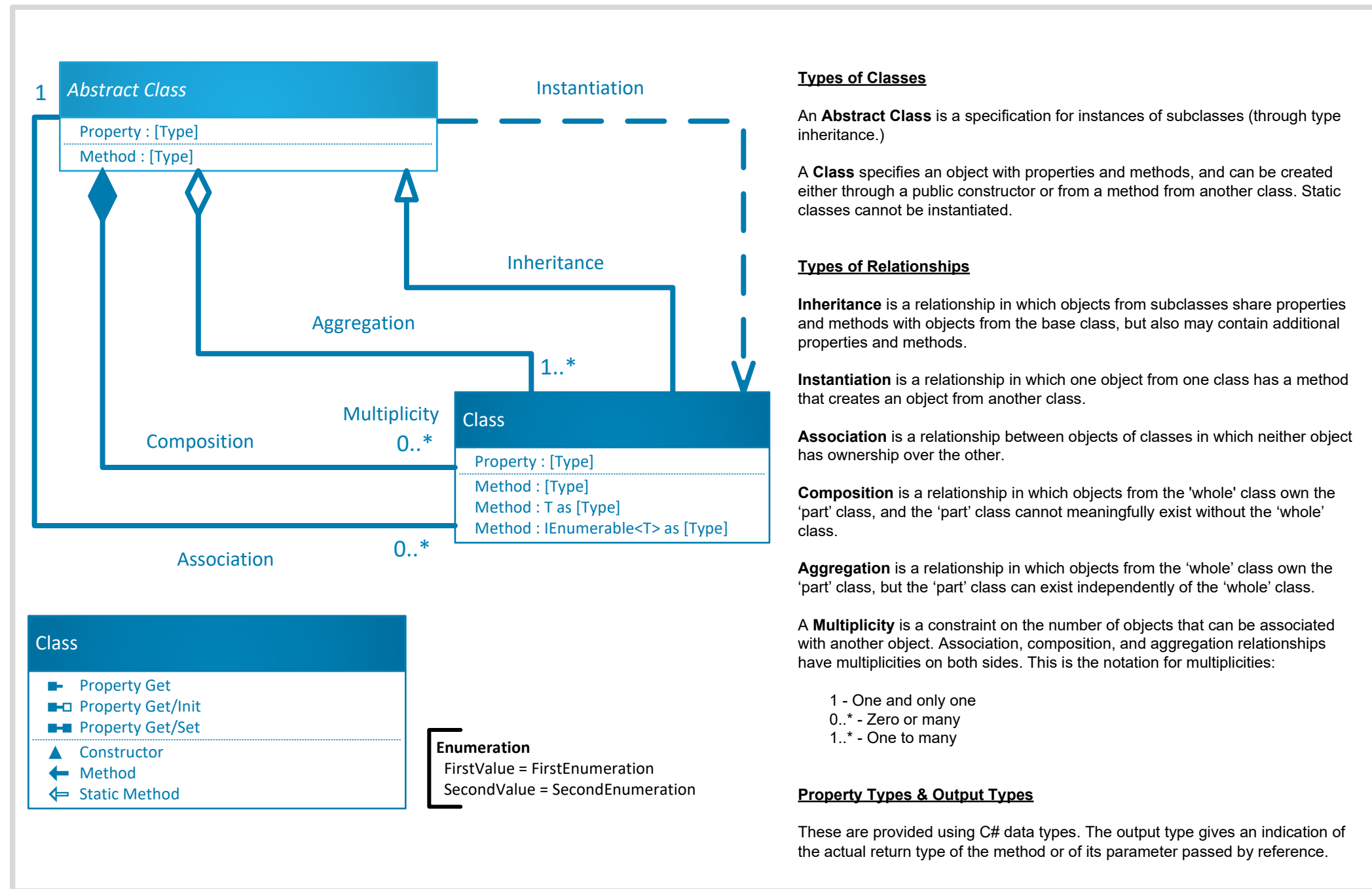
Geodatabase Object Model DDL

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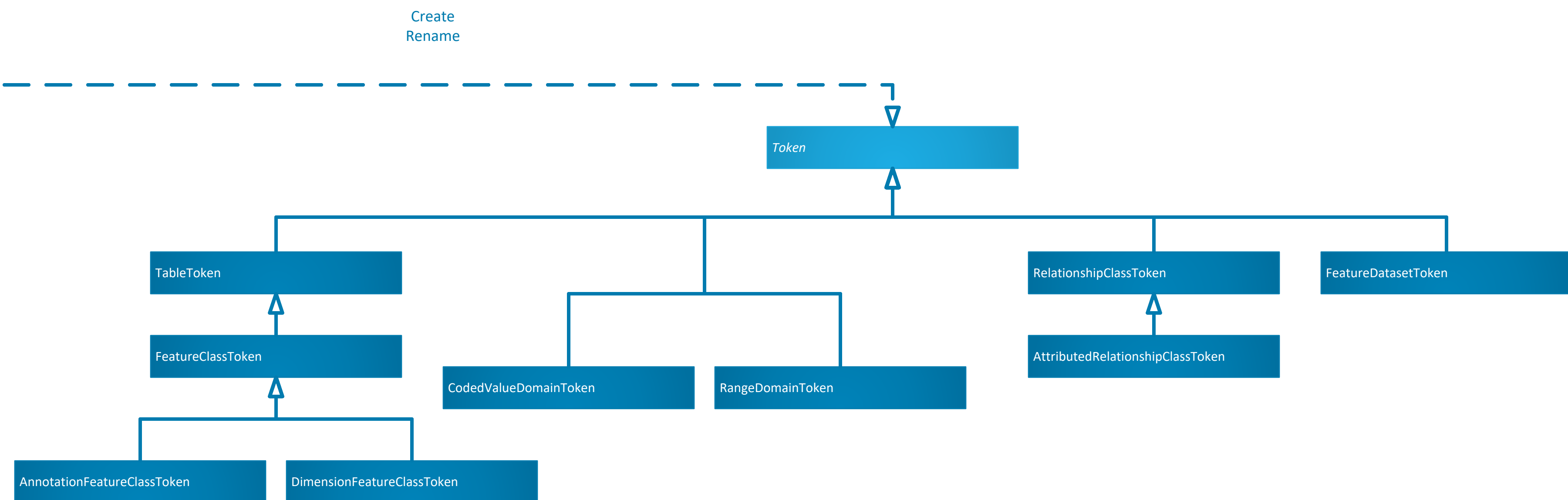


Enumerations	
FieldType SmallInteger = 0 Integer = 1 Single = 2 Double = 3 String = 4 Date = 5 OID = 6 Geometry = 7 Blob = 8 Raster = 9 GUID = 10 GlobalID = 11 XML = 12	LabelEngine Standard = 0 Single = 1 Maplex = 1 MergePolicy SumValues = 1 AreaWeighted = 2 DefaultValue = 3 SortBy Code = 1 Name = 2 SortOrder Ascending = 1 Descending = 2 SplitPolicy GeometryRatio = 1 Duplicate = 2 DefaultValue = 3
GeometryType Unknown = 0 Point = 513 Envelope = 3077 GeometryBag = 3594 Multipoint = 8710 Polyline = 25607 Polygon = 27656 Multipatch = 32777	RelationshipType Simple = 1 Composite = 2



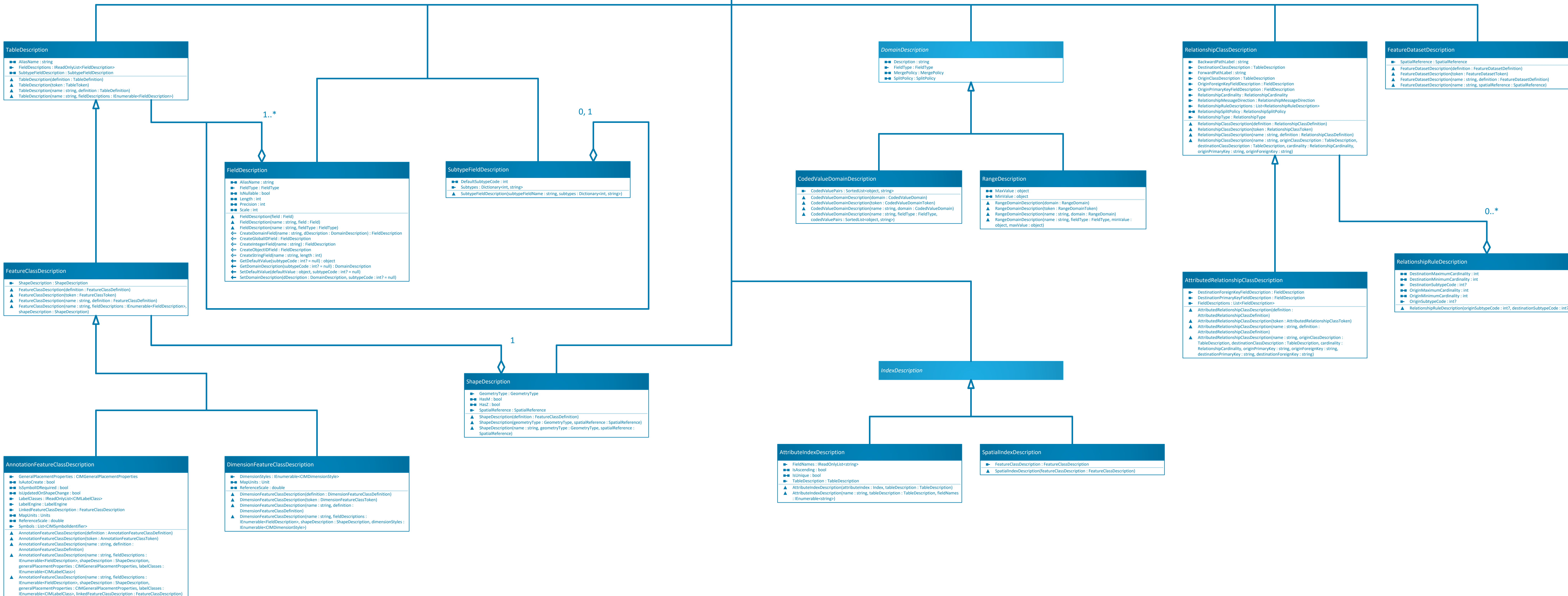
SchemaBuilder

- ErrorsMessages : IReadOnlyList<string>
- SchemaBuilder(Geodatabase : Geodatabase)
- AddFeatureClass(description : FeatureDatasetDescription, afcDescription : AnnotationFeatureClassDescription)
- AddFeatureClass(description : FeatureDatasetDescription, fcdDescription : DimensionFeatureClassDescription)
- AddFeatureClass(description : FeatureDatasetDescription, fcdDescription : FeatureClassDescription)
- AddRelationshipClass(description : FeatureDatasetDescription, arcDescription : AttributeRelationshipClassDescription)
- AddRelationshipClass(description : FeatureDatasetDescription, rcdDescription : RelationshipClassDescription)
- Build() : bool
- Create(description : AnnotationFeatureClassDescription) : AnnotationFeatureClassToken
- Create(description : AttributeRelationshipClassDescription) : AttributeRelationshipClassToken
- Create(description : CodeValueDomainDescription) : CodeValueDomainToken
- Create(description : FeatureClassDescription) : FeatureClassToken
- Create(description : DimensionFeatureClassDescription) : DimensionFeatureClassToken
- Create(description : FeatureDatasetDescription) : FeatureDatasetToken
- Create(description : FeatureDatasetDescription, afcDescription : AnnotationFeatureClassDescription) : AnnotationFeatureClassToken
- Create(description : FeatureDatasetDescription, arcDescription : AttributeRelationshipClassDescription) : AttributeRelationshipClassToken
- Create(description : DimensionFeatureDatasetDescription, fcdDescription : FeatureClassDescription) : DimensionFeatureClassToken
- Create(description : FeatureDatasetDescription, fcdDescription : FeatureClassDescription) : FeatureClassToken
- Create(description : FeatureDatasetDescription, rcdDescription : RelationshipClassDescription) : RelationshipClassToken
- Create(description : IndexDescription) : IndexToken
- Create(description : RangeDomainDescription) : RangeDomainToken
- Create(description : RelationshipClassDescription) : RelationshipClassToken
- Create(description : TableDescription) : TableToken
- Create(Geodatabase(GeodatabaseConnectionPath : FileGeodatabaseConnectionPath) : Geodatabase
- Create(Geodatabase(memoryConnectionProperties : MemoryConnectionProperties) : Geodatabase
- Create(Geodatabase(mobileGeodatabaseConnectionPath : MobileGeodatabaseConnectionPath) : Geodatabase
- Delete(description : Description)
- Delete(Geodatabase(GeodatabaseConnectionPath : FileGeodatabaseConnectionPath)
- Delete(Geodatabase(memoryConnectionProperties : MemoryConnectionProperties)
- Delete(Geodatabase(mobileGeodatabaseConnectionPath : MobileGeodatabaseConnectionPath)
- Modify(description : AnnotationFeatureClassDescription)
- Modify(description : AttributeRelationshipClassDescription)
- Modify(description : CodeValueDomainDescription, sortBy : SortBy, sortOrder : SortOrder)
- Modify(description : DimensionFeatureClassDescription)
- Modify(description : DomainDescription)
- Modify(description : FeatureClassDescription)
- Modify(description : RelationshipClassDescription)
- Modify(description : TableDescription)
- Modify(description : TableDescription, fieldName : string, fcdDescription : FieldDescription)
- RemoveFeatureClass(description : FeatureDatasetDescription, afcDescription : AnnotationFeatureClassDescription)
- RemoveFeatureClass(description : FeatureDatasetDescription, fcdDescription : DimensionFeatureClassDescription)
- RemoveFeatureClass(description : FeatureDatasetDescription, fcdDescription : FeatureClassDescription)
- RemoveRelationshipClass(description : FeatureDatasetDescription, arcDescription : AttributeRelationshipClassDescription)
- RemoveRelationshipClass(description : FeatureDatasetDescription, rcdDescription : RelationshipClassDescription)
- Rename(description : Description, newName : string) : Token



Description

- Name : string



Enumerations

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
PointProperlyInsideArea = 15
AreaContainOnePoint = 16
LineNoOverlap = 19
LineNoIntersection = 20
LineNoDangles = 21
LineNoPseudos = 22
LineCoveredByLineClass = 26
LineNoOverlapLine = 28
PointCoveredByLine = 29
PointCoveredByLineEndpoint = 31
PointDisjoint = 34
PointCoincidePoint = 35
AreaBoundaryCoveredByLine = 37
AreaBoundaryCoveredByAreaBoundary = 38
LineNoSelfOverlap = 39
LineNoSelfIntersect = 40
LineNoIntersectOrInteriorTouch = 41
LineEndpointCoveredByPoint = 42
AreaContainPoint = 43
LineNoMultipart = 44
LineNoIntersectLine = 45
LineNoIntersectOrInteriorTouchLine = 46

TopologyState

Unanalyzed = 0
AnalyzedWithErrors = 1
AnalyzedWithoutErrors = 2
Empty = 3

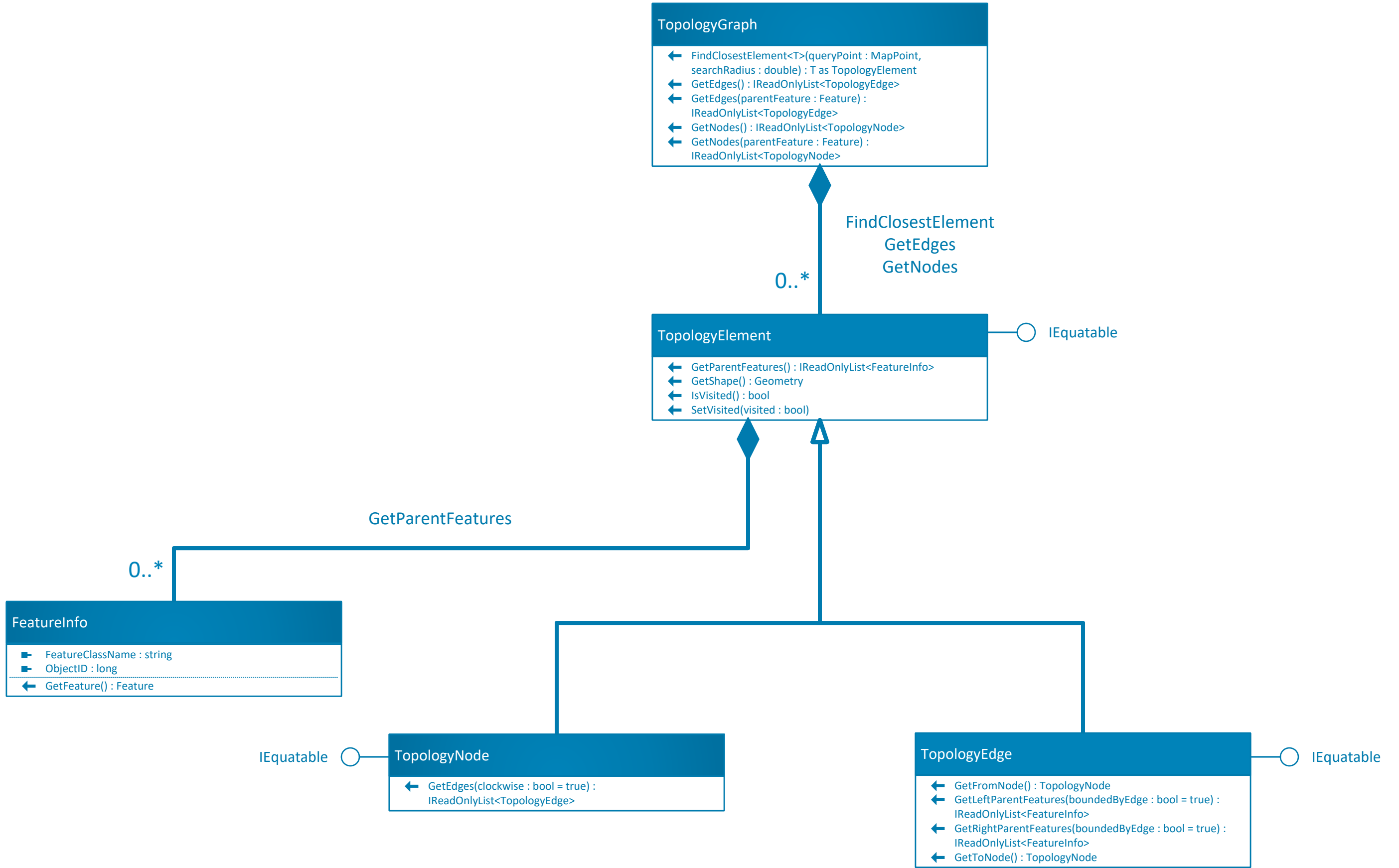
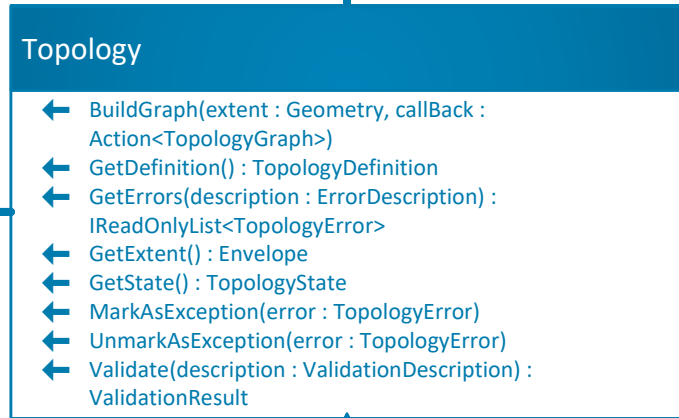
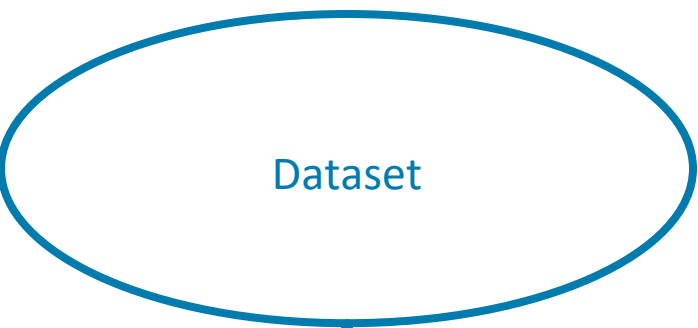
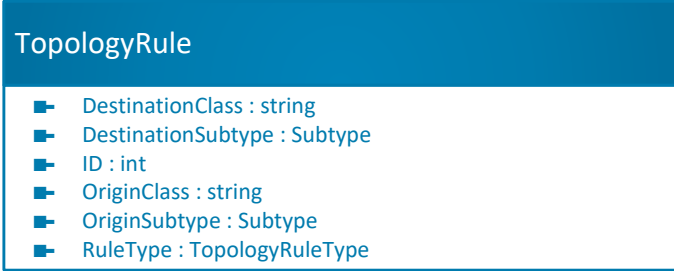
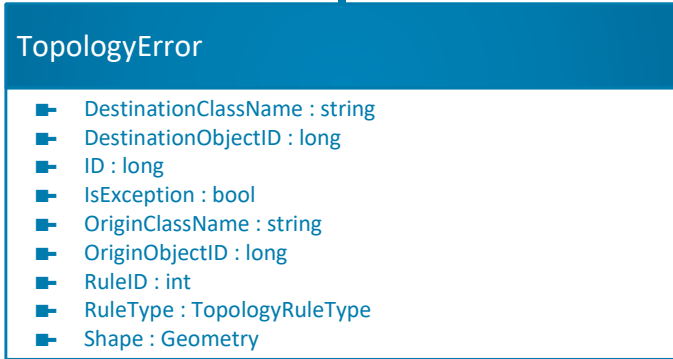
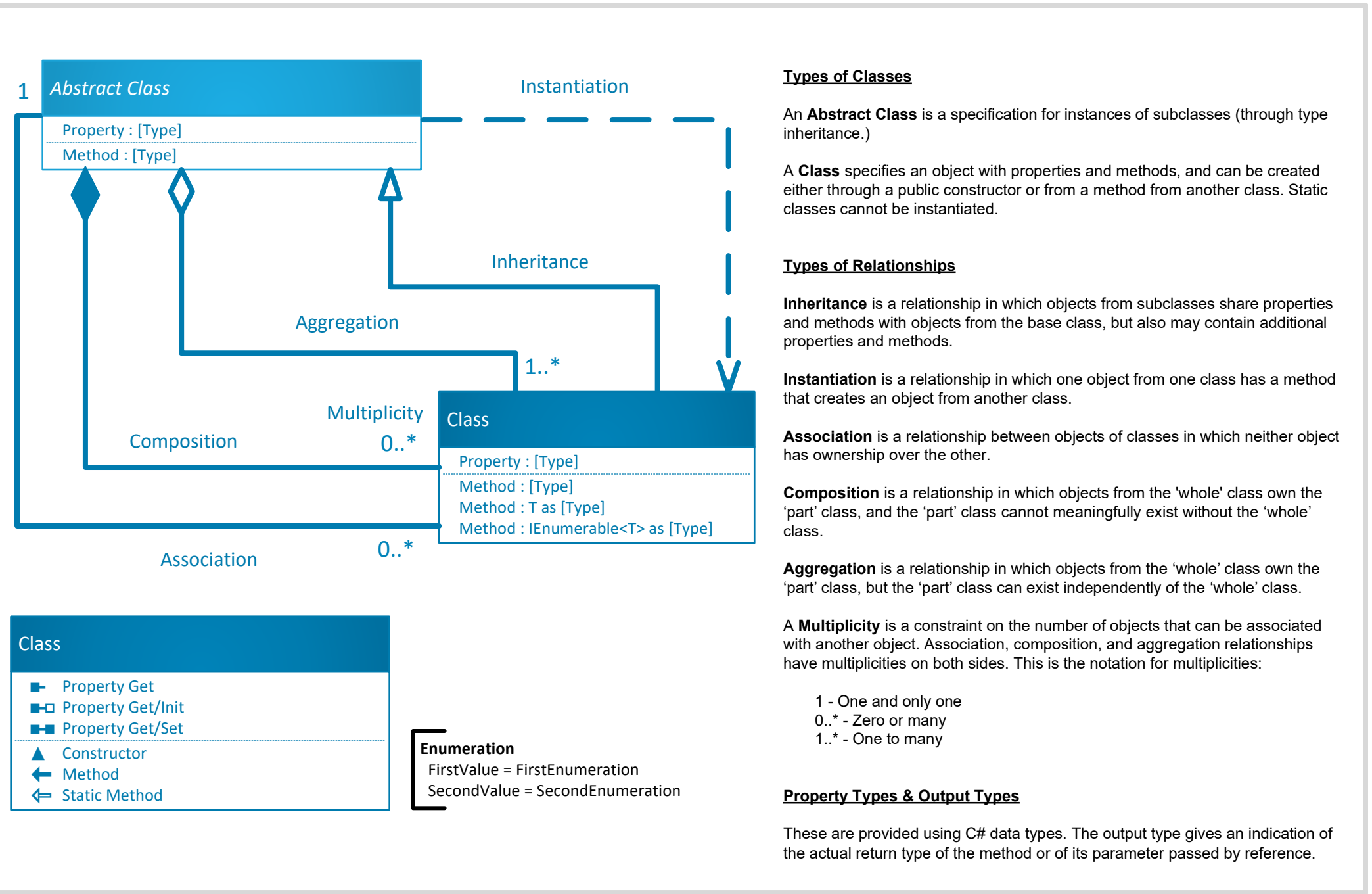
Extensions

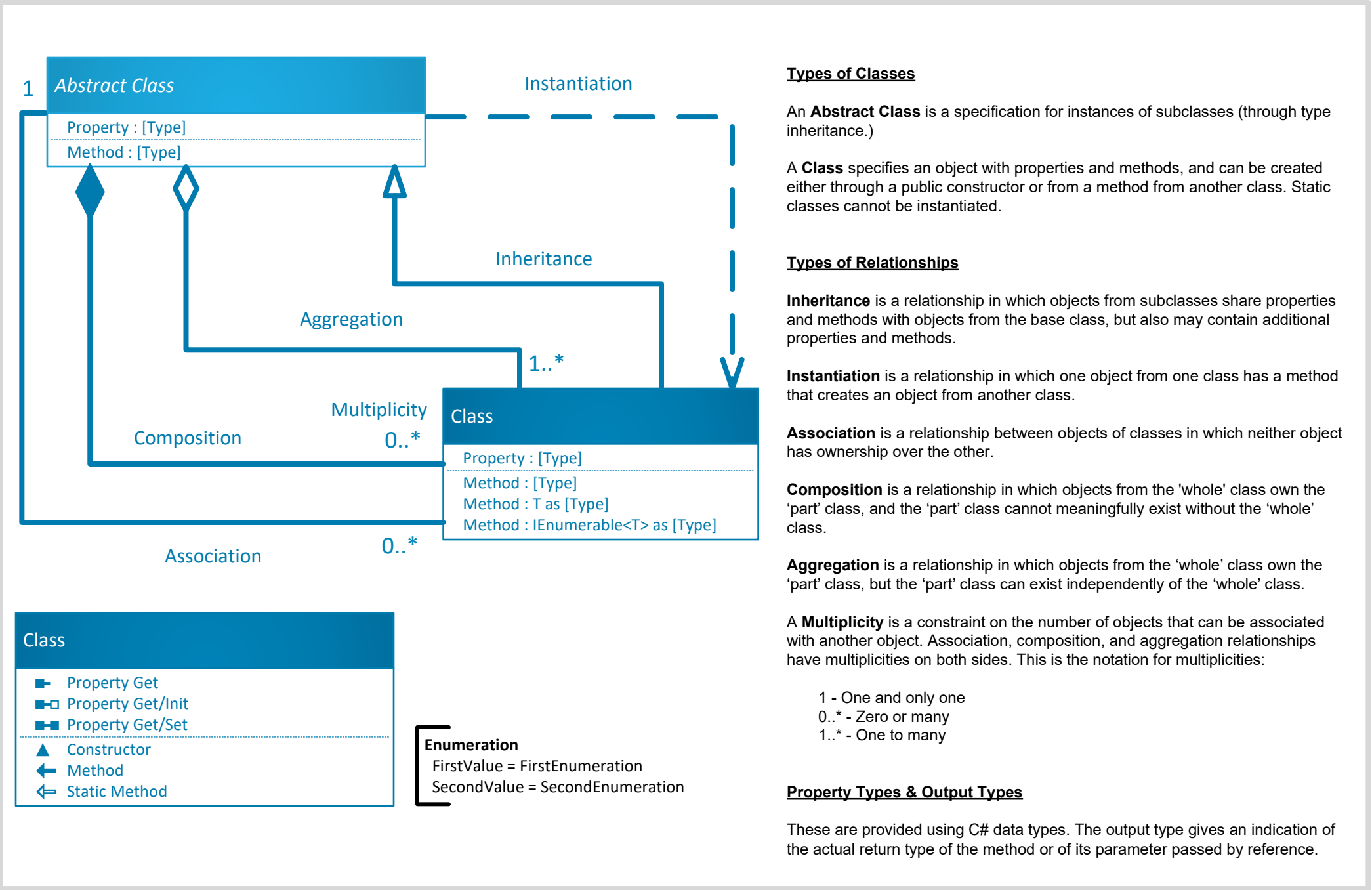
ArcGISCoreDataExtensions

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

Geodatabase Object Model Topology

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Geodatabase Object Model

Raster

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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.

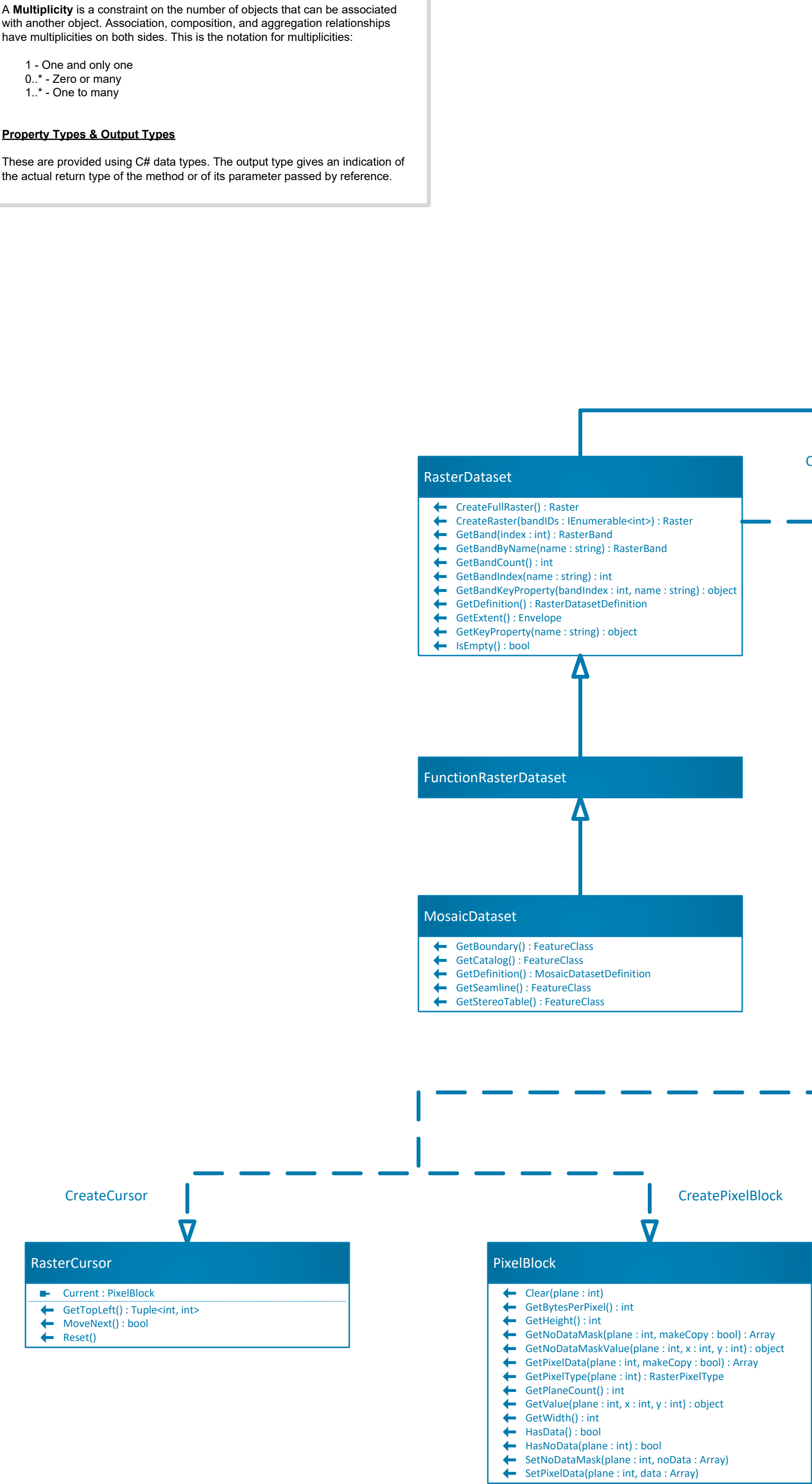
A Multiplicity is a constraint on the number of objects that can be associated with another object. Association, composition, and aggregation relationships have multiplicities on both sides. This is the notation for multiplicities:

- 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.

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



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
- 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

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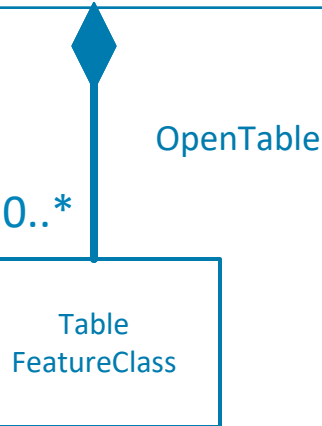
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PluginDatasourceTemplate

```
← 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>
← GetLastModifiedTime() : DateTime
← GetName() : string
← GetNativeRowCount() : long
← GetShapeType() : GeometryType
← IsNativeRowCountSupported() : bool
← Search(filter : QueryFilter) : PluginCursorTemplate
← Search(filter : SpatialQueryFilter) : PluginCursorTemplate
```

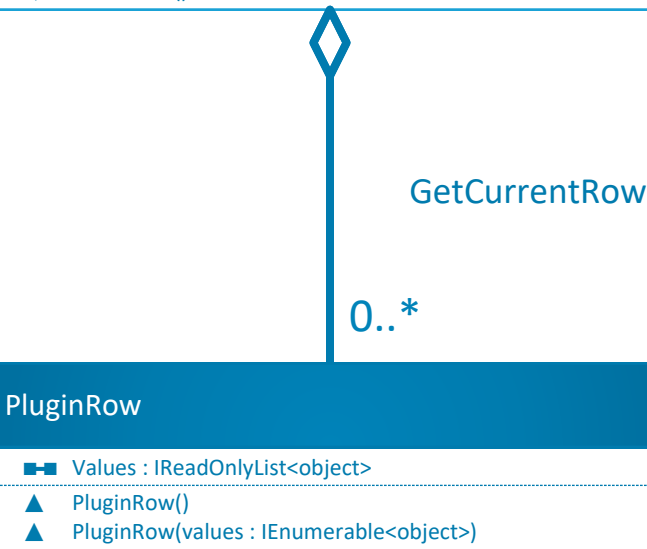


PluginField

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

PluginCursorTemplate

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



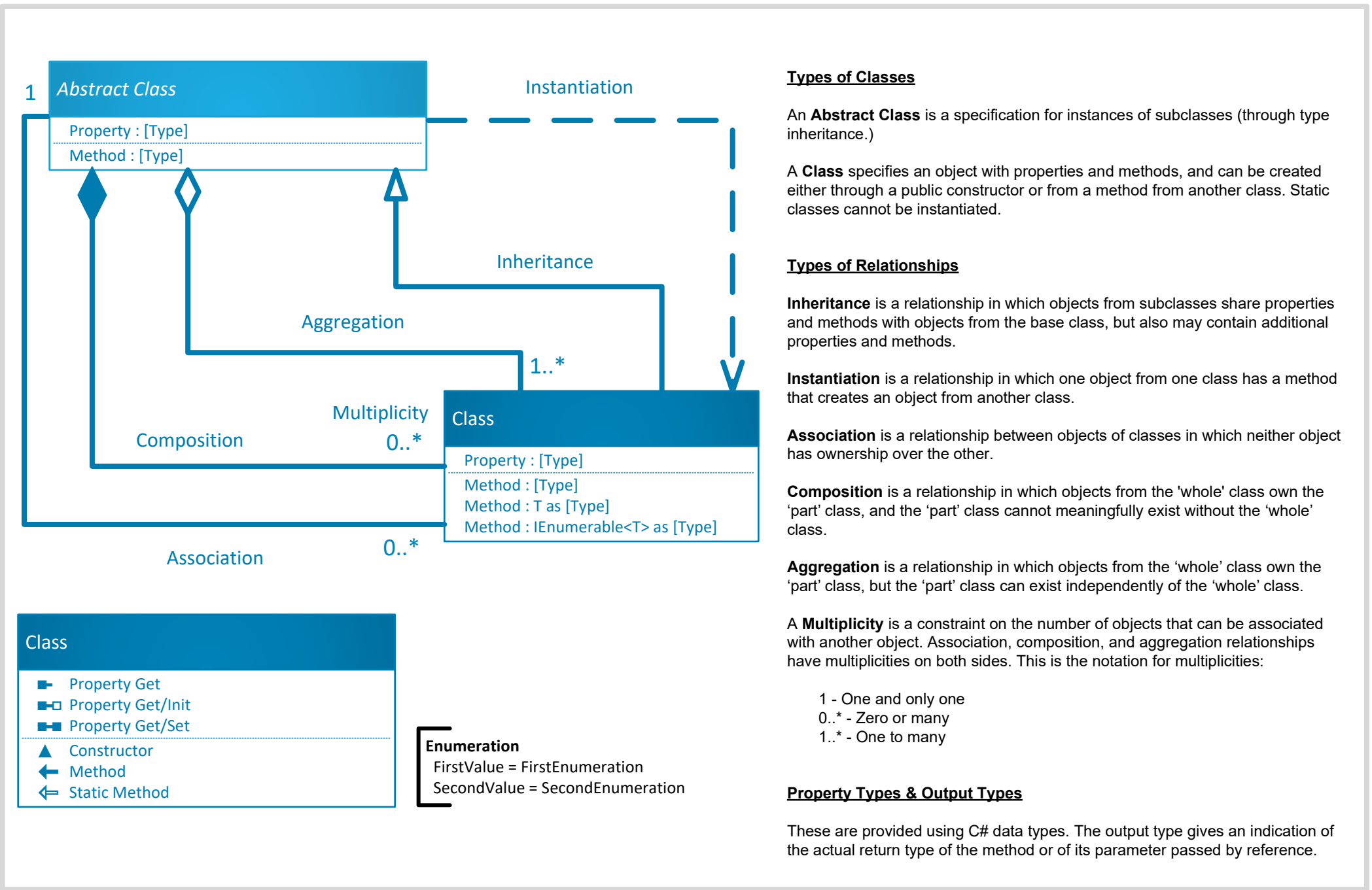
Enumerations

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
```

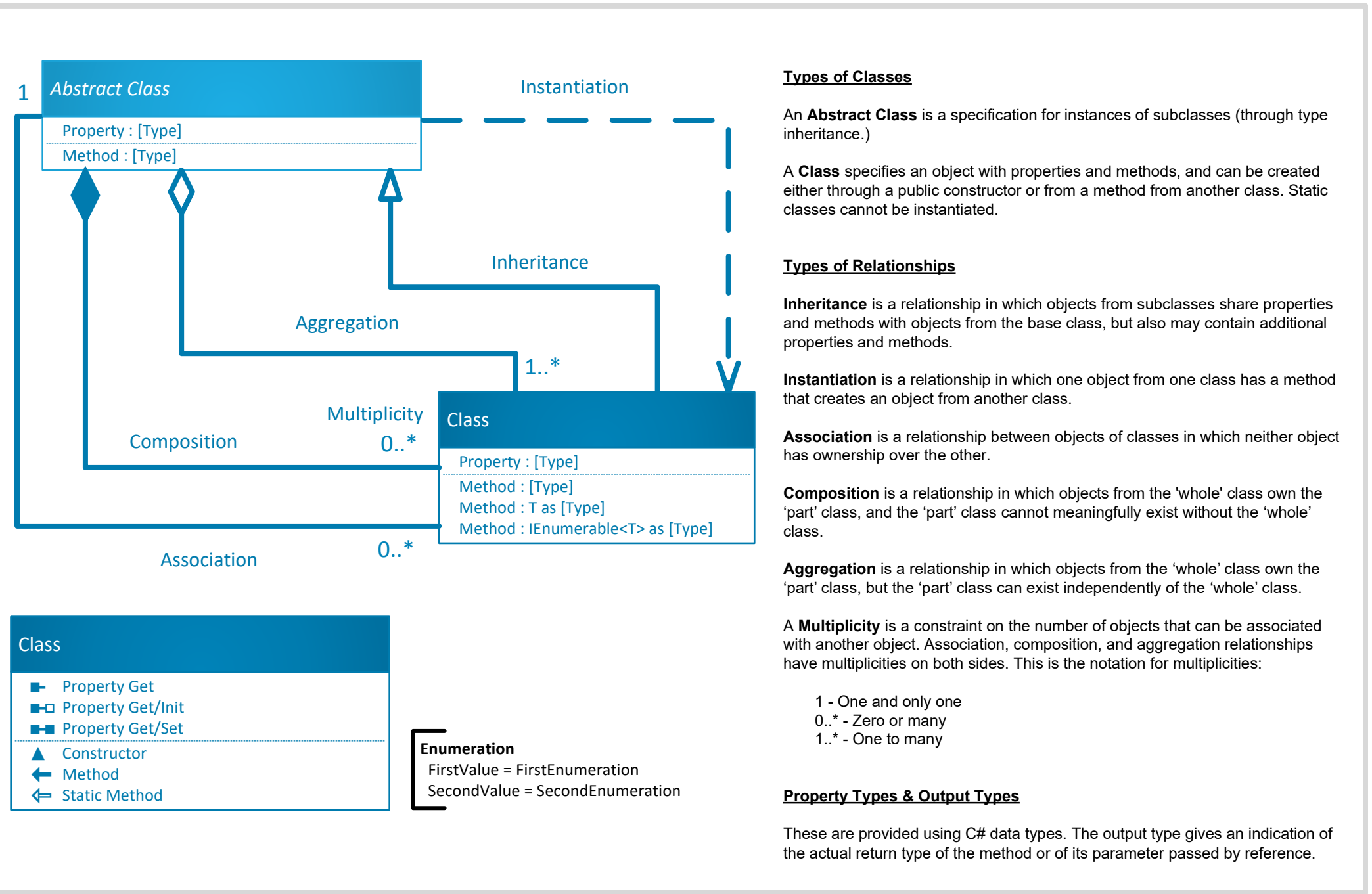
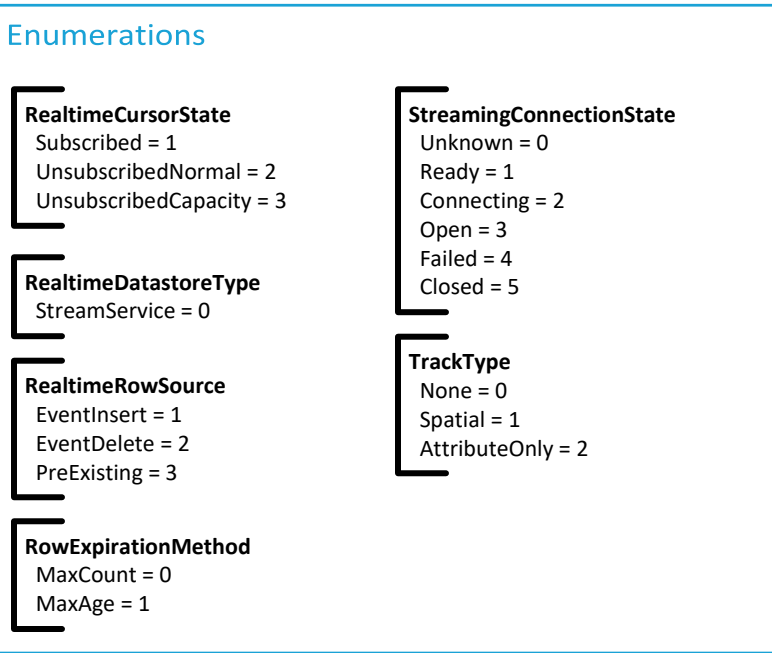
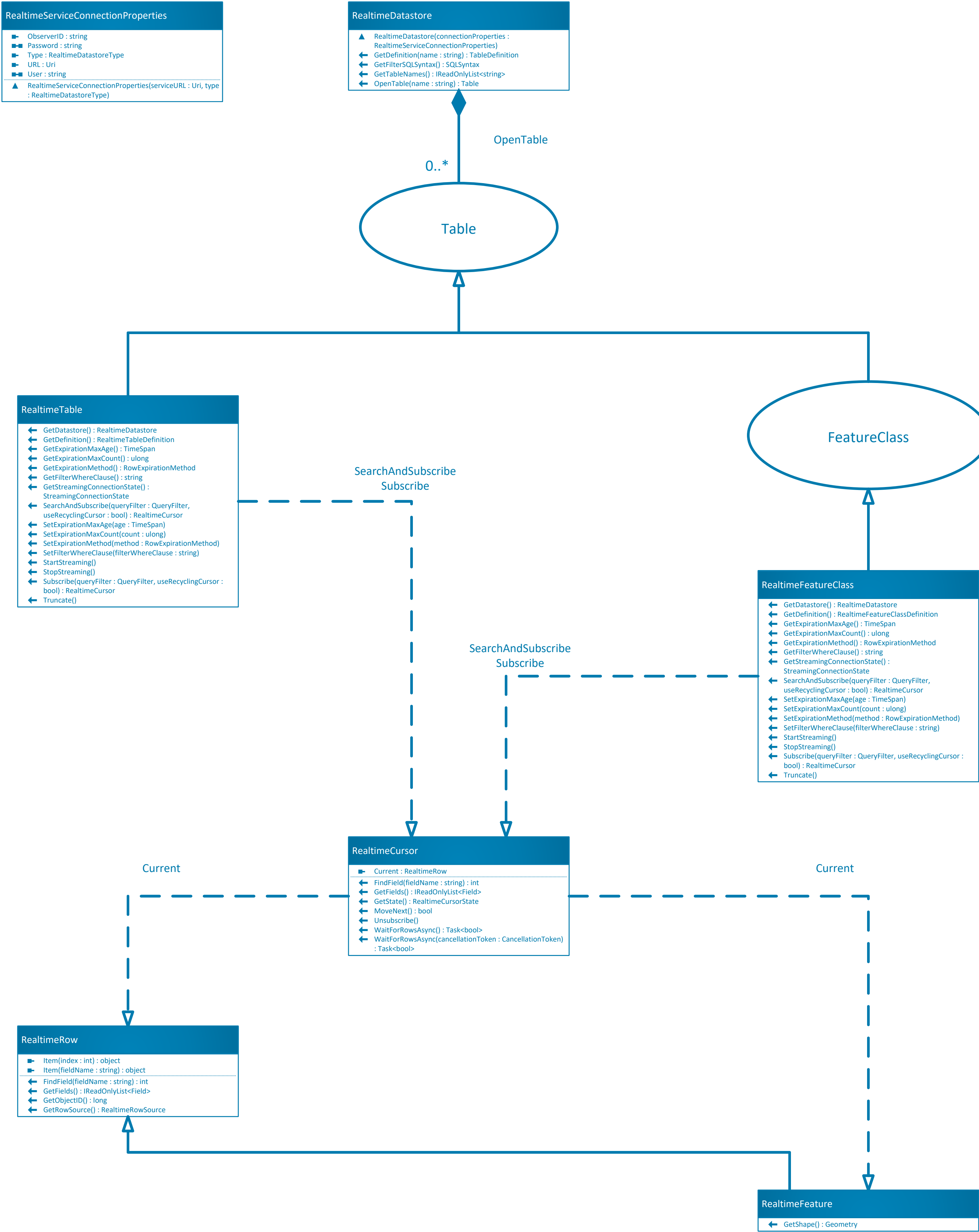


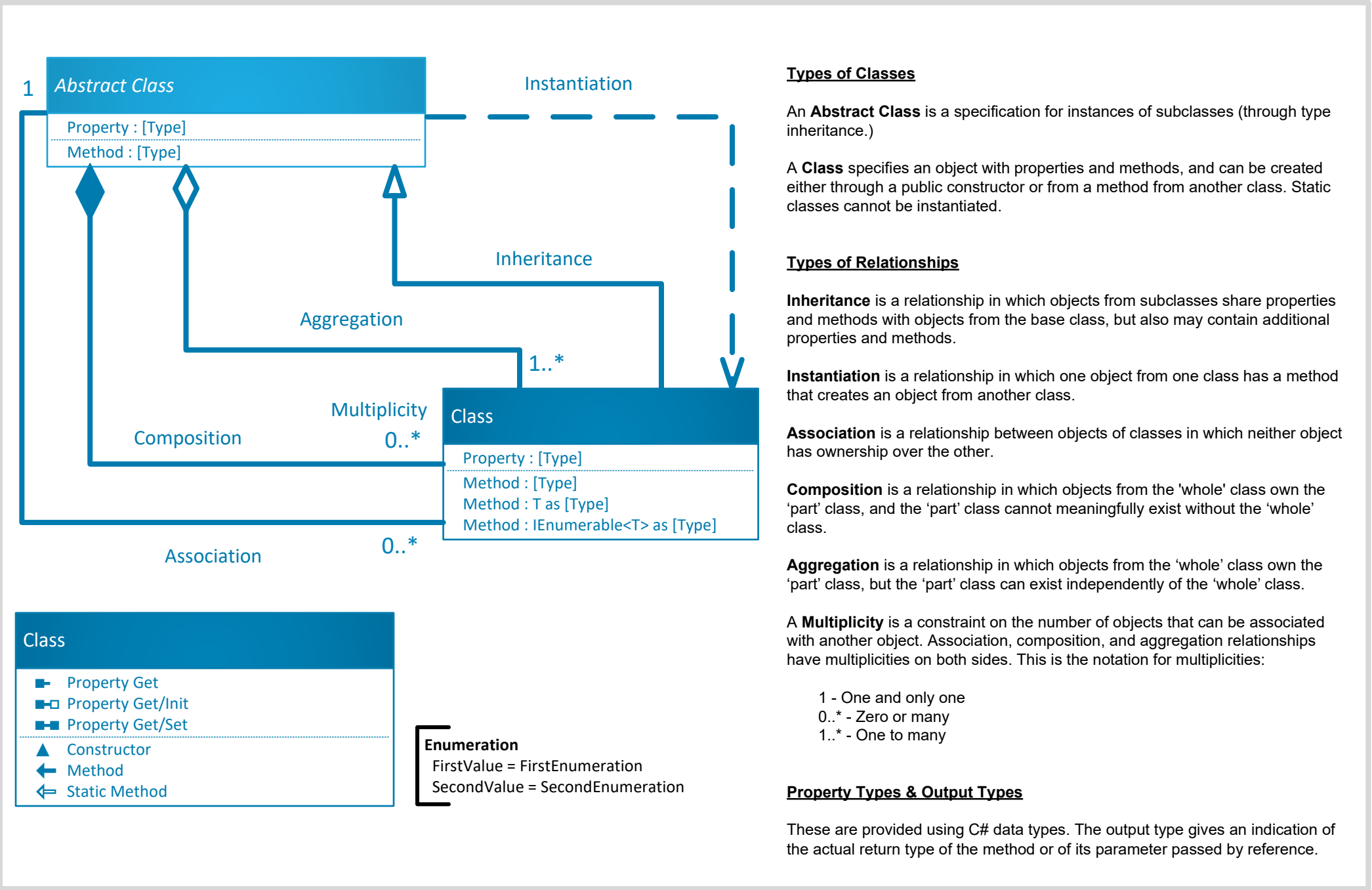
Geodatabase Object Model

Realtime

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Geodatabase Object Model

Linear Referencing

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