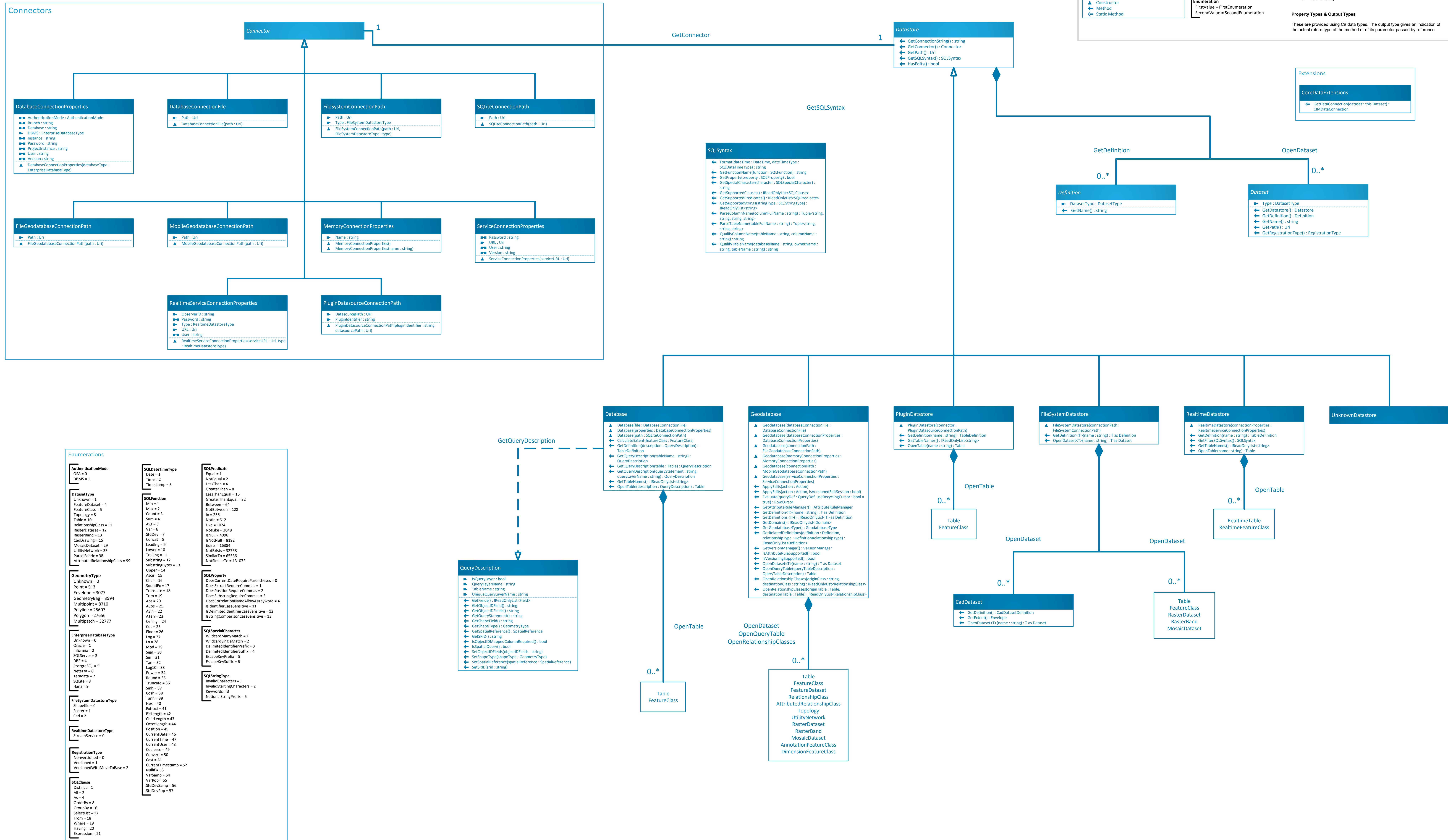


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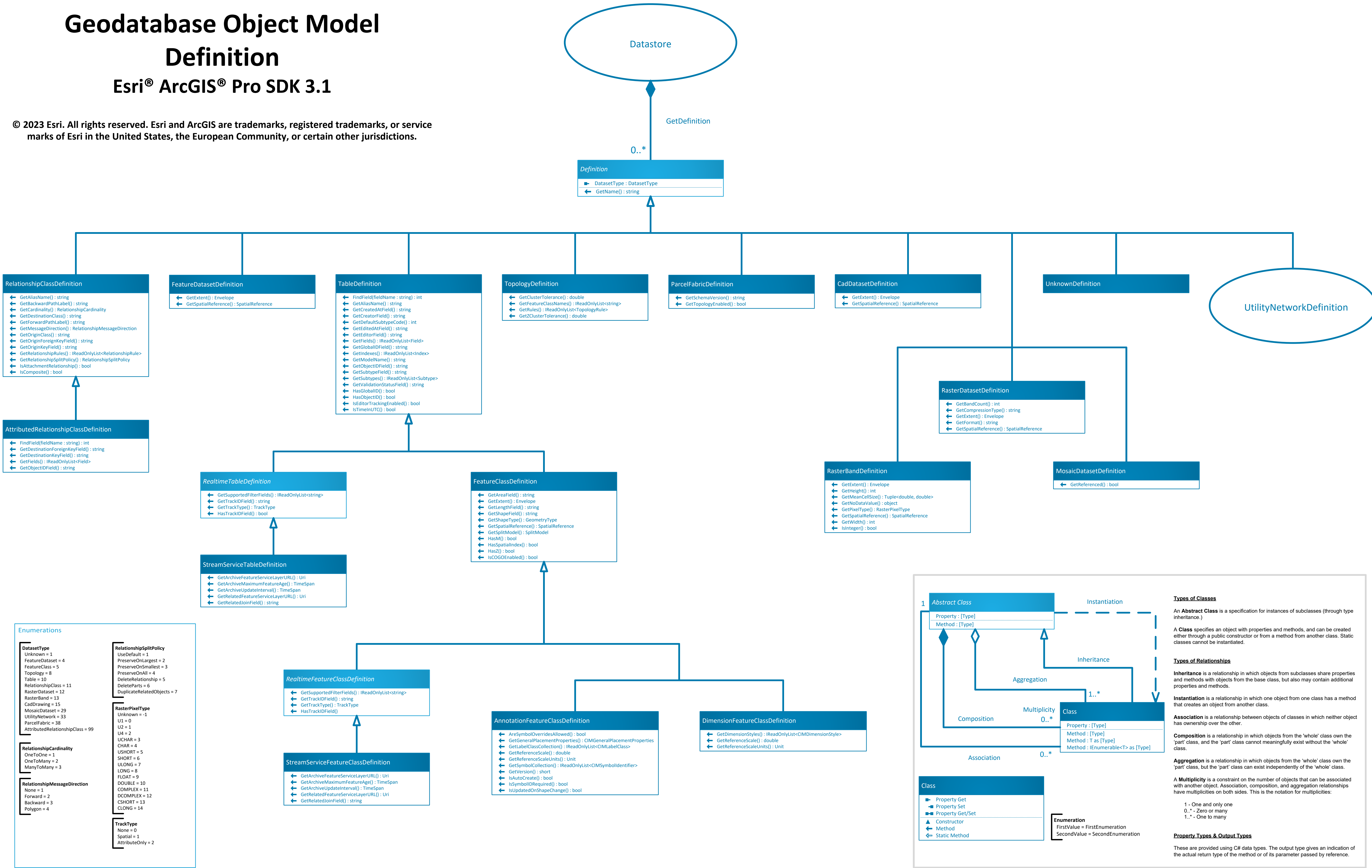




# Geodatabase Object Model Definition

## Esri® ArcGIS® Pro SDK 3.1

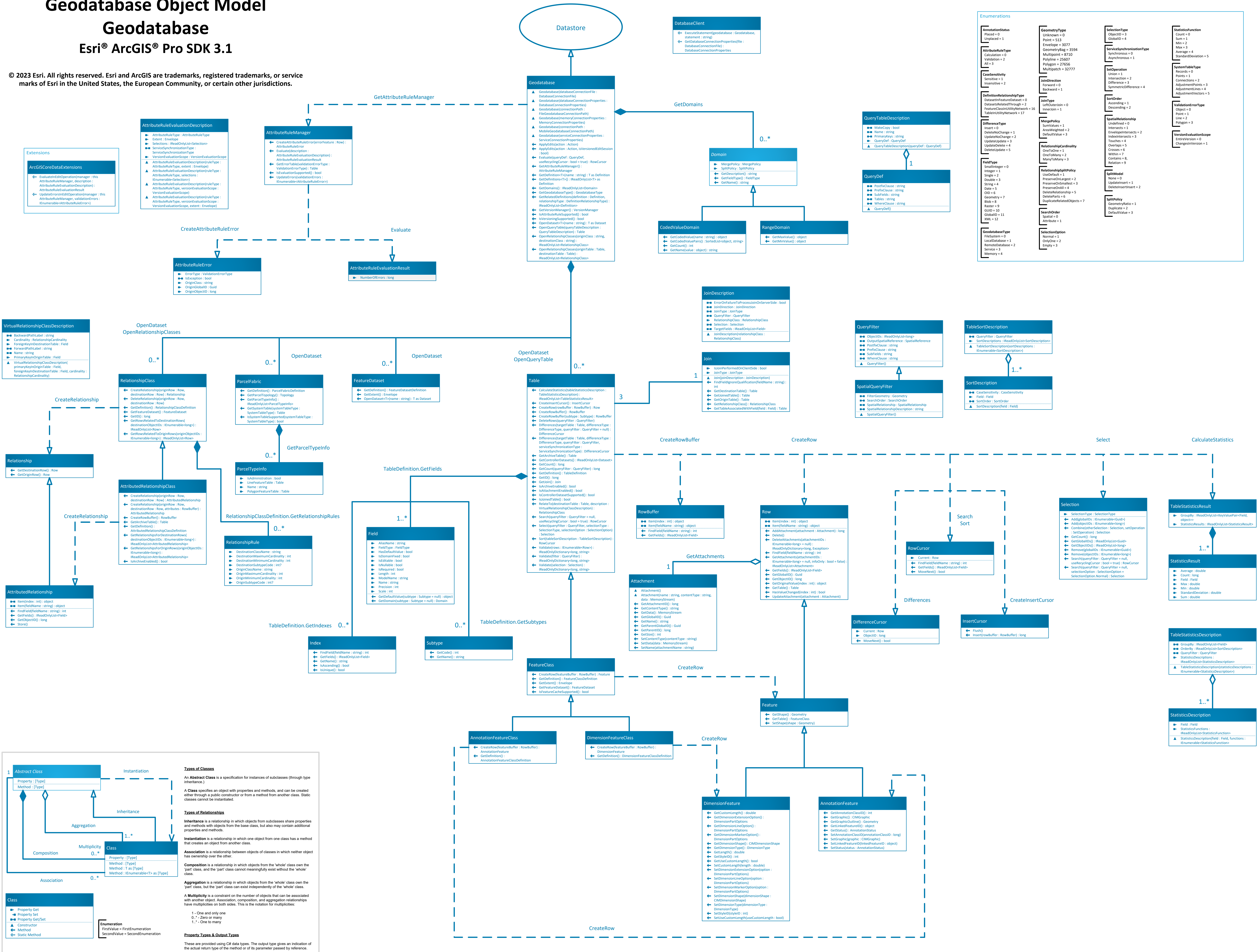
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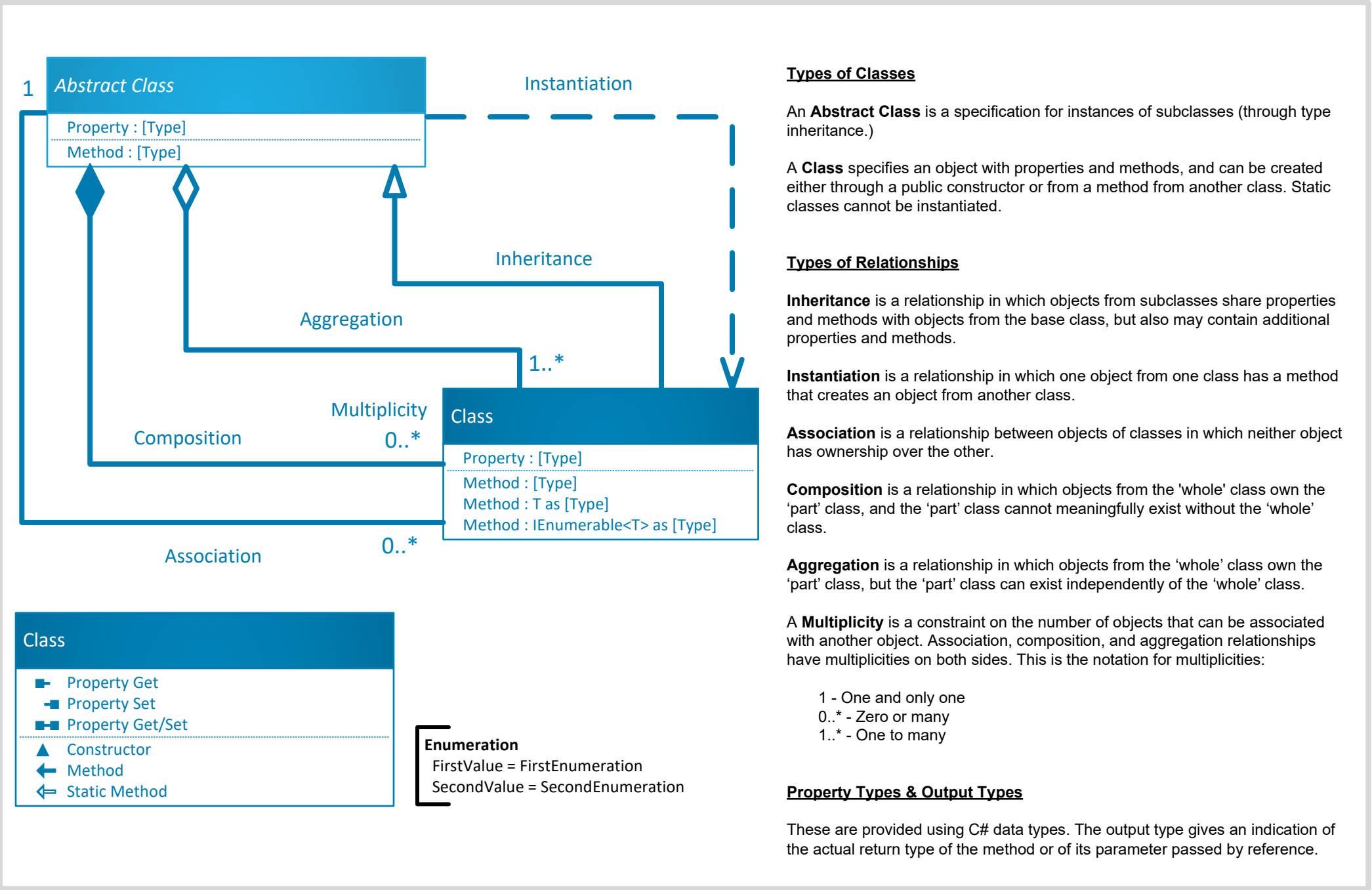


**Esri® ArcGIS® Pro SDK 3.1**

Extensions	
<b>ArgCSharpDataExtensions</b>	<ul style="list-style-type: none"> <li> <b>EvaluateDescription</b> (AttributeRuleType, ValidationErrors)         </li> <li> <b>GetTableRowValidationErrors</b> (AttributeRuleType, ValidationErrors)         </li> <li> <b>UpdateTableRowValidationErrors</b> (AttributeRuleType, ValidationErrors)         </li> </ul>
<b>ArgCSharpOperationManager</b>	<ul style="list-style-type: none"> <li> <b>EvaluateDescription</b> (AttributeRuleType, ValidationErrors)         </li> <li> <b>GetTableRowValidationErrors</b> (AttributeRuleType, ValidationErrors)         </li> <li> <b>UpdateTableRowValidationErrors</b> (AttributeRuleType, ValidationErrors)         </li> </ul>
<b>ArgCSharpValidationManager</b>	<ul style="list-style-type: none"> <li> <b>EvaluateDescription</b> (AttributeRuleType, ValidationErrors)         </li> <li> <b>GetTableRowValidationErrors</b> (AttributeRuleType, ValidationErrors)         </li> <li> <b>UpdateTableRowValidationErrors</b> (AttributeRuleType, ValidationErrors)         </li> </ul>





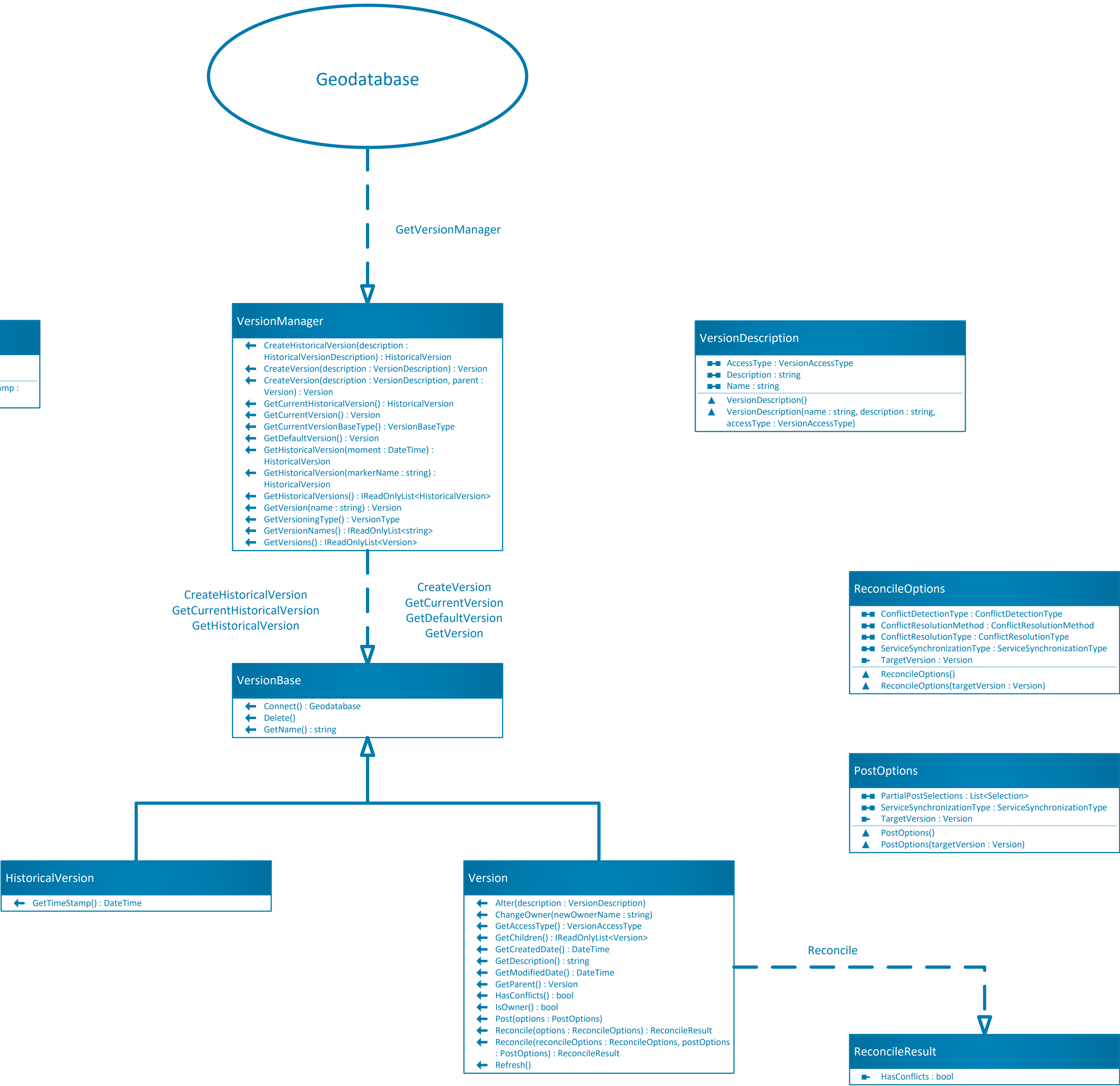
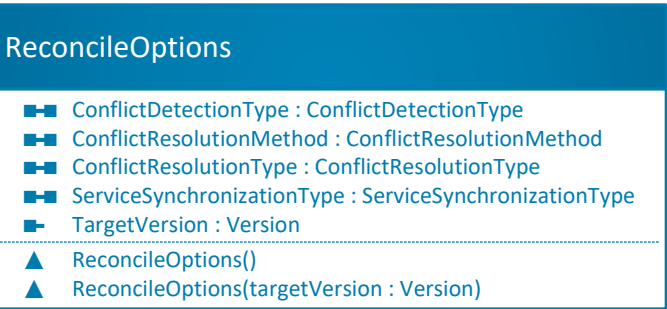
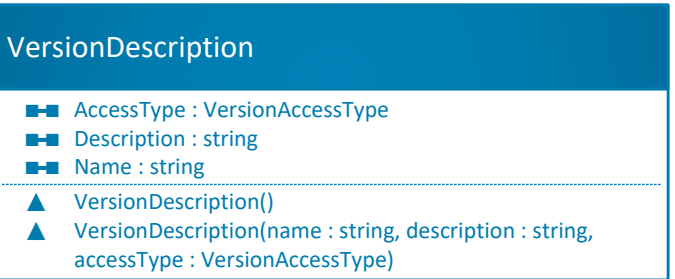
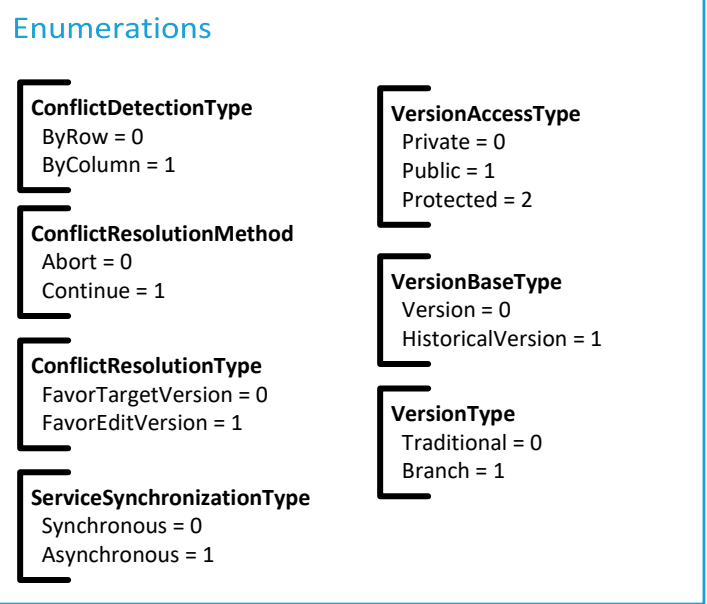


# Geodatabase Object Model

## Versioning

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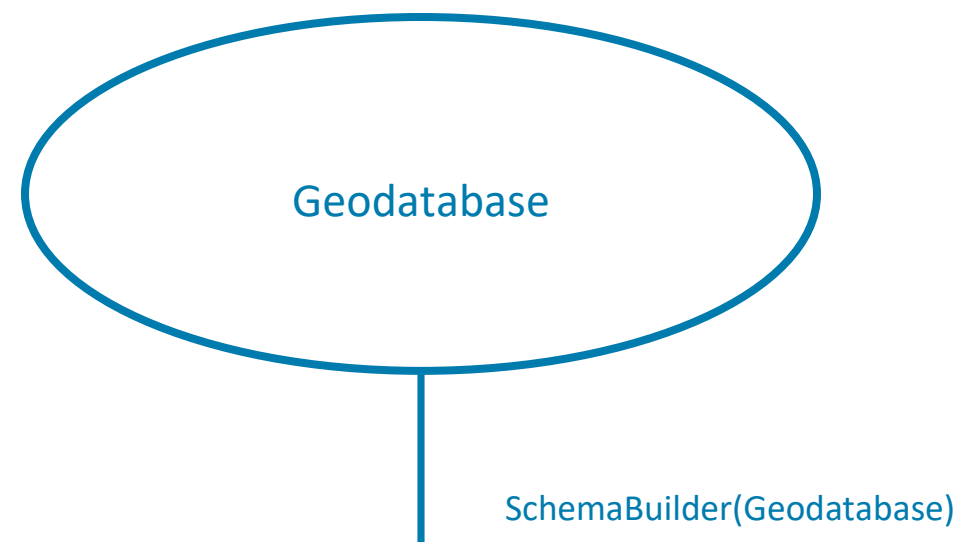


# Geodatabase Object Model

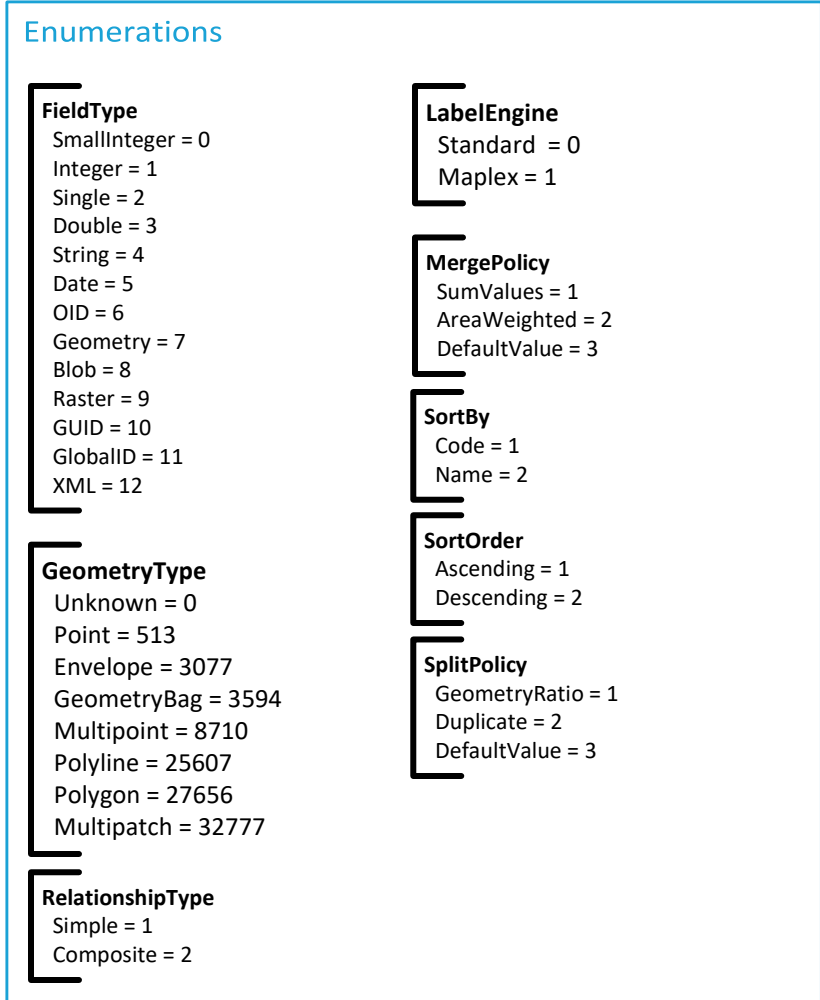
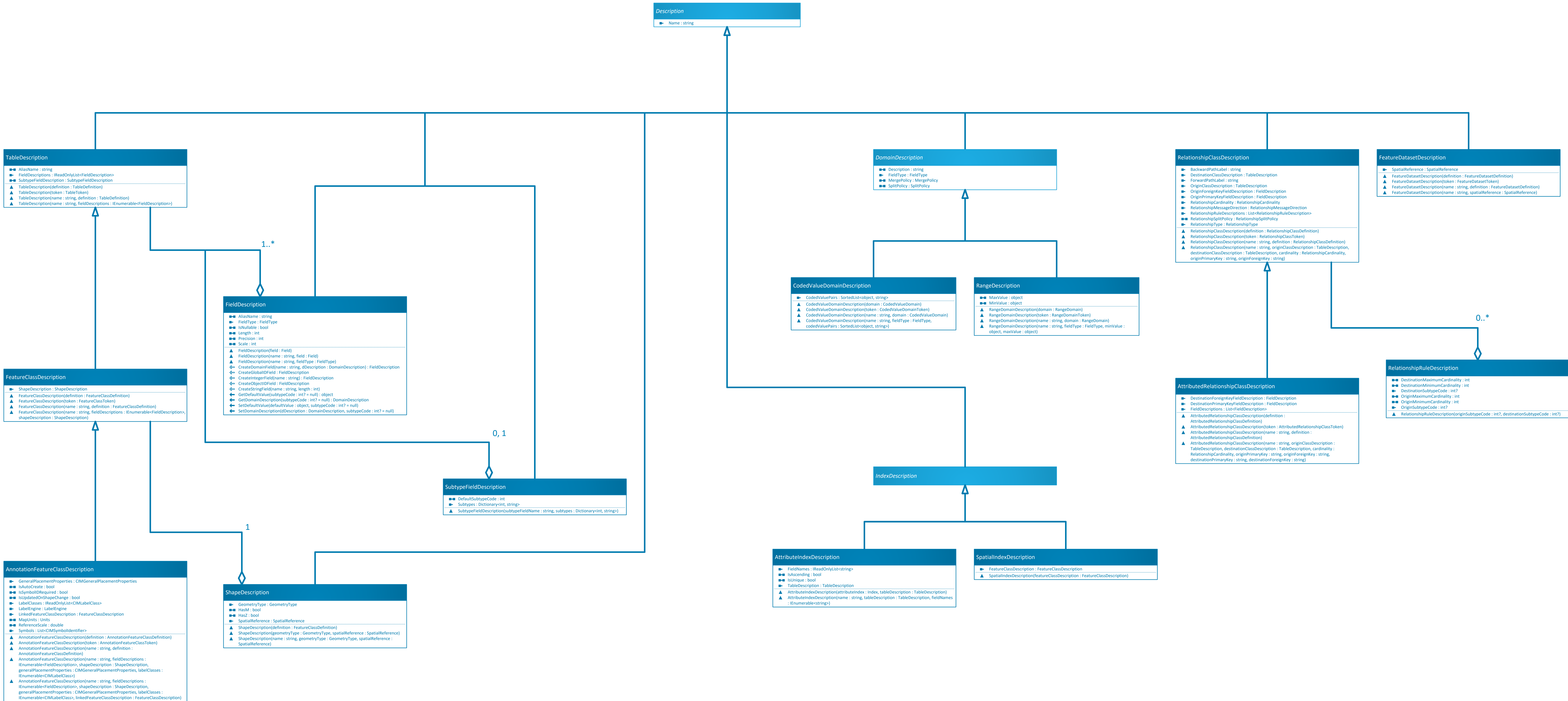
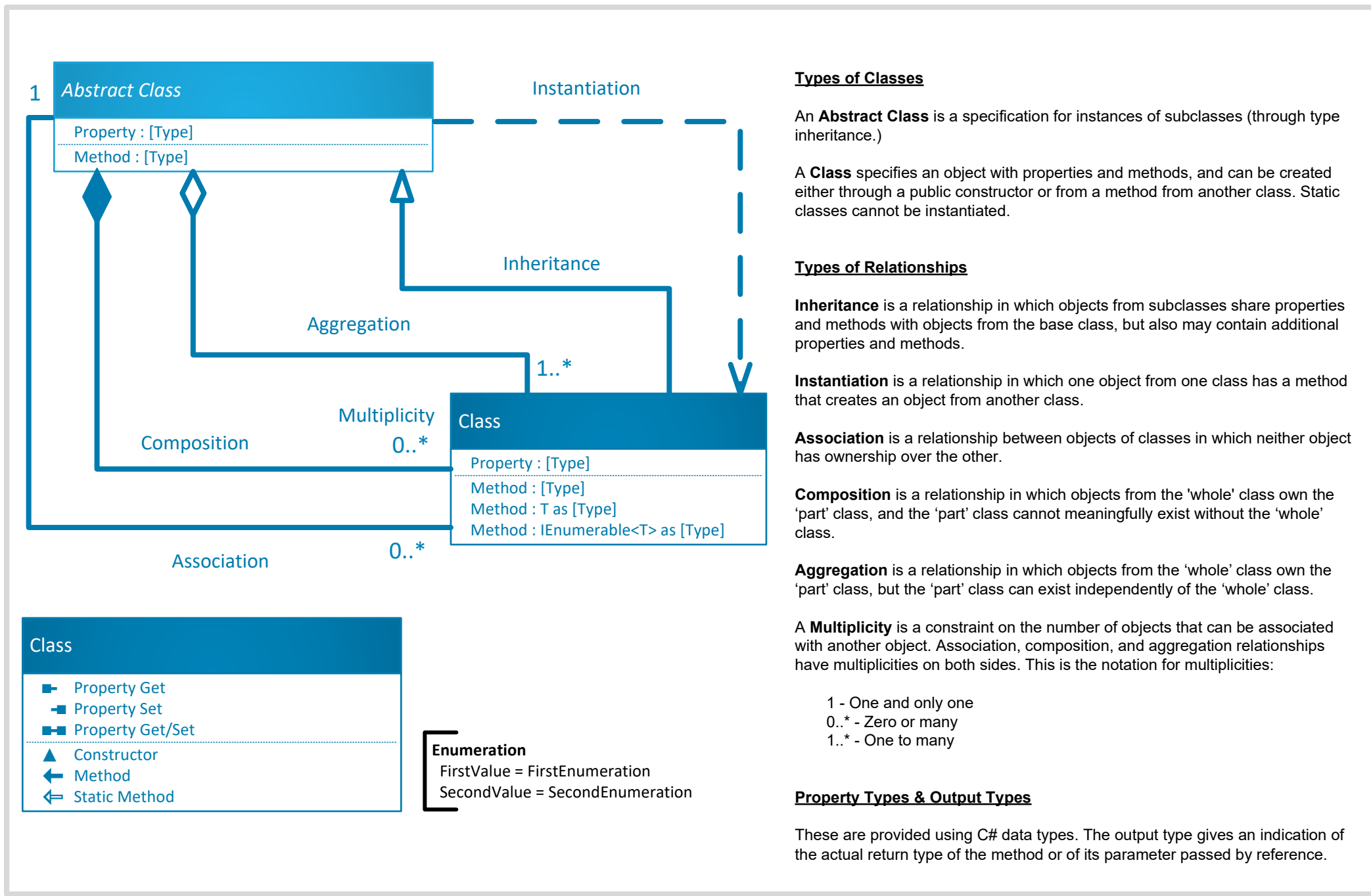
## DDL

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```
SchemaBuilder
├─ ErrorMessages : IReadOnlyList<string>
├─ SchemaBuilder(Geodatabase : Geodatabase)
├─ AddFeatureClass(description : FeatureDatasetDescription, fcDescription : AnnotationFeatureClassDescription)
├─ AddFeatureClass(description : FeatureDatasetDescription, fcDescription : FeatureClassDescription)
├─ AddRelationshipClass(description : FeatureDatasetDescription, arcDescription : AttributedRelationshipClassDescription)
├─ AddRelationshipClass(description : FeatureDatasetDescription, arcDescription : RelationshipClassDescription)
├─ Build : bool
├─ Create(arcDescription : AnnotationFeatureClassDescription) : AnnotationFeatureClassToken
├─ Create(arcDescription : AttributedRelationshipClassDescription) : AttributedRelationshipClassToken
├─ Create(cvdDescription : CodeValueDomainDescription) : CodeValueDomainToken
├─ Create(rDescription : FeatureDatasetDescription) : FeatureDatasetToken
├─ Create(rDescription : FeatureDatasetDescription, arcDescription : AnnotationFeatureClassDescription) : AnnotationFeatureClassToken
├─ Create(rDescription : FeatureDatasetDescription, arcDescription : AttributedRelationshipClassDescription) : AttributedRelationshipClassToken
├─ Create(rDescription : FeatureDatasetDescription, fcDescription : FeatureClassDescription) : FeatureClassToken
├─ Create(rDescription : FeatureDatasetDescription, rDescription : RelationshipClassDescription) : RelationshipClassToken
├─ Create(rDescription : IndexDescription) : IndexToken
├─ Create(rDescription : RangeDomainDescription) : RangeDomainToken
├─ Create(rDescription : RelationshipClassDescription) : RelationshipClassToken
├─ Create(rDescription : TableDescription) : TableToken
├─ Create(Geodatabase(GeodatabaseConnectionPath : FileGeodatabaseConnectionPath) : Geodatabase
├─ Create(Geodatabase(GeodatabaseConnectionPath : MobileGeodatabaseConnectionPath) : Geodatabase
├─ Delete(description : Description)
├─ Delete(Geodatabase(GeodatabaseConnectionPath : FileGeodatabaseConnectionPath) : Geodatabase
├─ Delete(Geodatabase(GeodatabaseConnectionPath : MobileGeodatabaseConnectionPath) : Geodatabase
├─ Delete(Geodatabase(memoryConnectionProperties : MemoryConnectionProperties) : Geodatabase
├─ Delete(Geodatabase(mobileGeodatabaseConnectionPath : MobileGeodatabaseConnectionPath) : Geodatabase
├─ Modify(arcDescription : AttributedRelationshipClassDescription)
├─ Modify(cvdDescription : CodeValueDomainDescription, sortby : Sortby, sortOrder : SortOrder)
├─ Modify(rDescription : DomainDescription)
├─ Modify(rDescription : FeatureClassDescription)
├─ Modify(rDescription : RelationshipClassDescription)
├─ Modify(rDescription : TableDescription)
├─ Modify(rDescription : TableDescription, fieldName : string, fDescription : FieldDescription)
├─ RemoveFeatureClass(description : FeatureDatasetDescription, arcDescription : AnnotationFeatureClassDescription)
├─ RemoveFeatureClass(description : FeatureDatasetDescription, fcDescription : FeatureClassDescription)
├─ RemoveRelationshipClass(description : FeatureDatasetDescription, arcDescription : AttributedRelationshipClassDescription)
├─ RemoveRelationshipClass(description : FeatureDatasetDescription, rDescription : RelationshipClassDescription)
├─ Rename(description : Description, newName : string) : Token
```





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

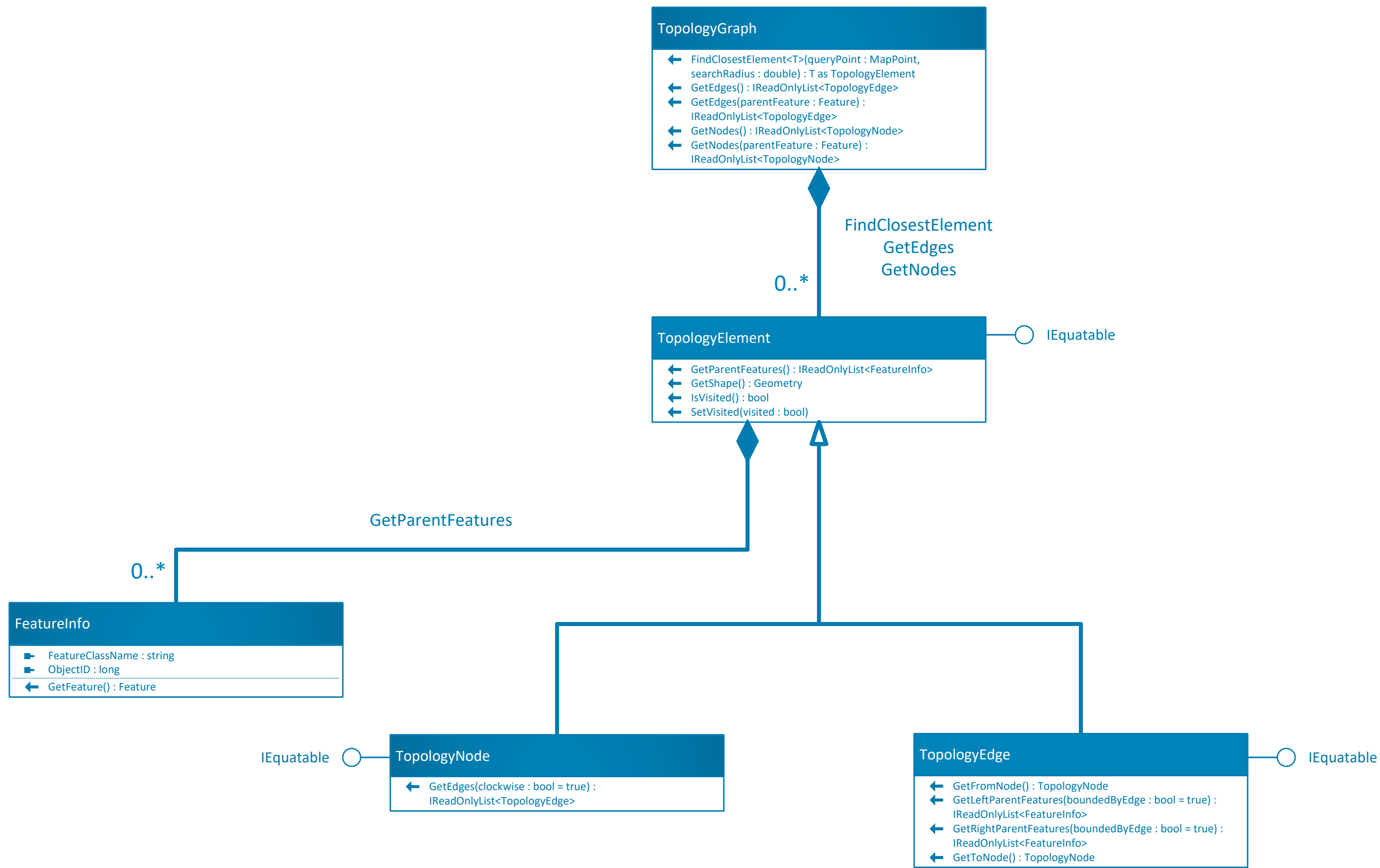
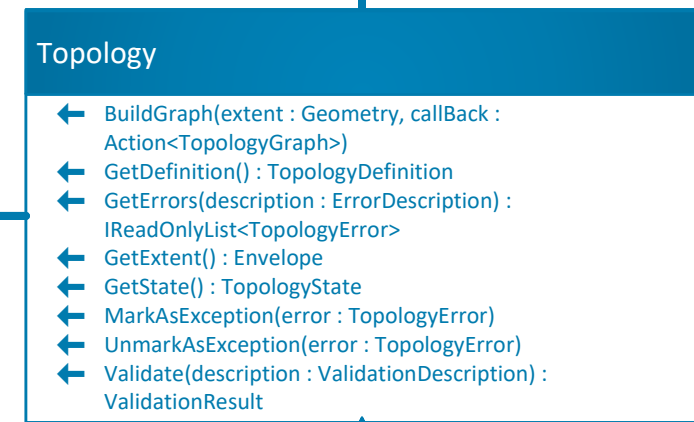
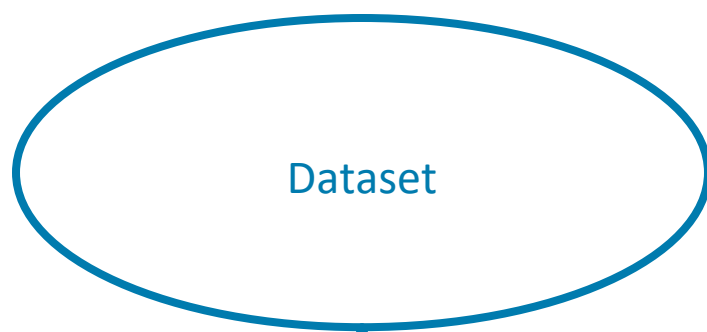
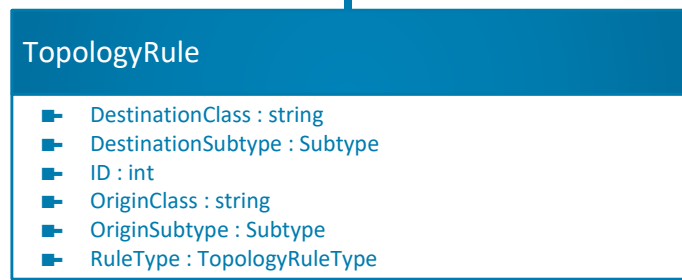
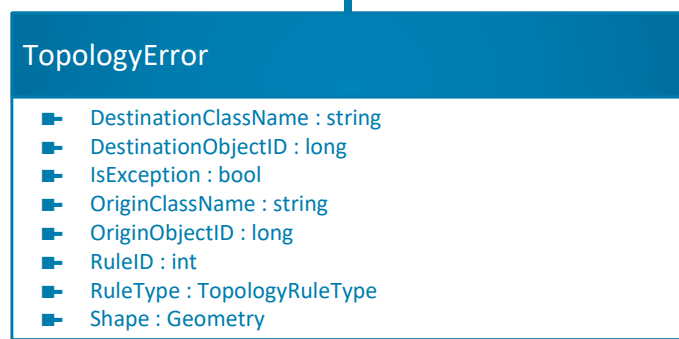
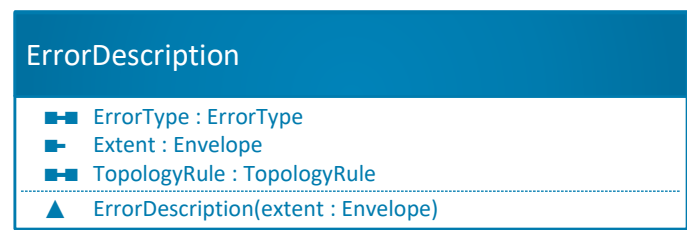
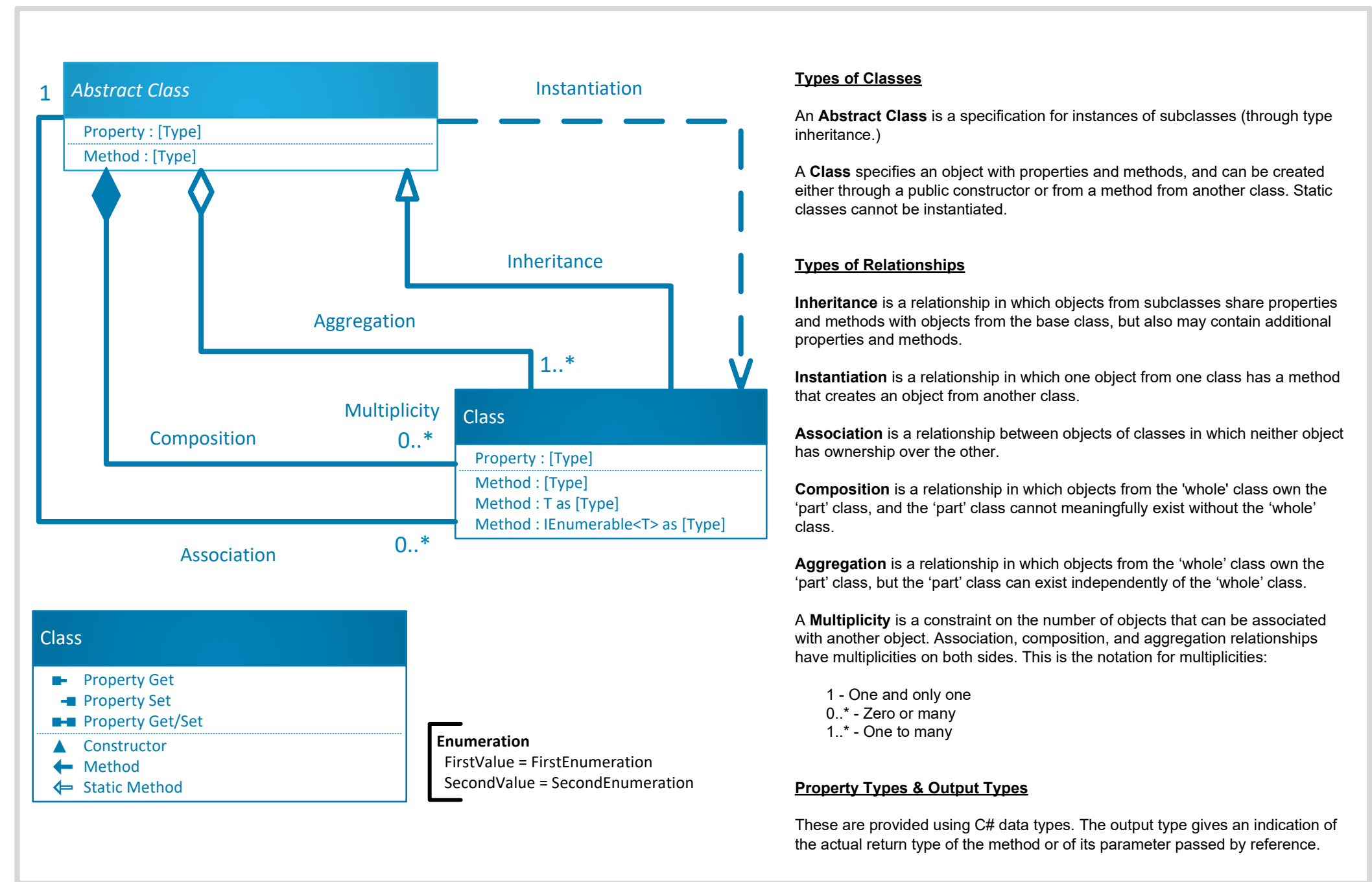
↔ MarkAsExceptionInEditOperation(topology : this  
Topology, topologyError : TopologyError)  
↔ UnmarkAsExceptionInEditOperation(topology :  
this Topology, topologyError : TopologyError)  
↔ ValidateInEditOperation(topology : this Topology,  
validationDescription : ValidationDescription) :  
ValidationResult

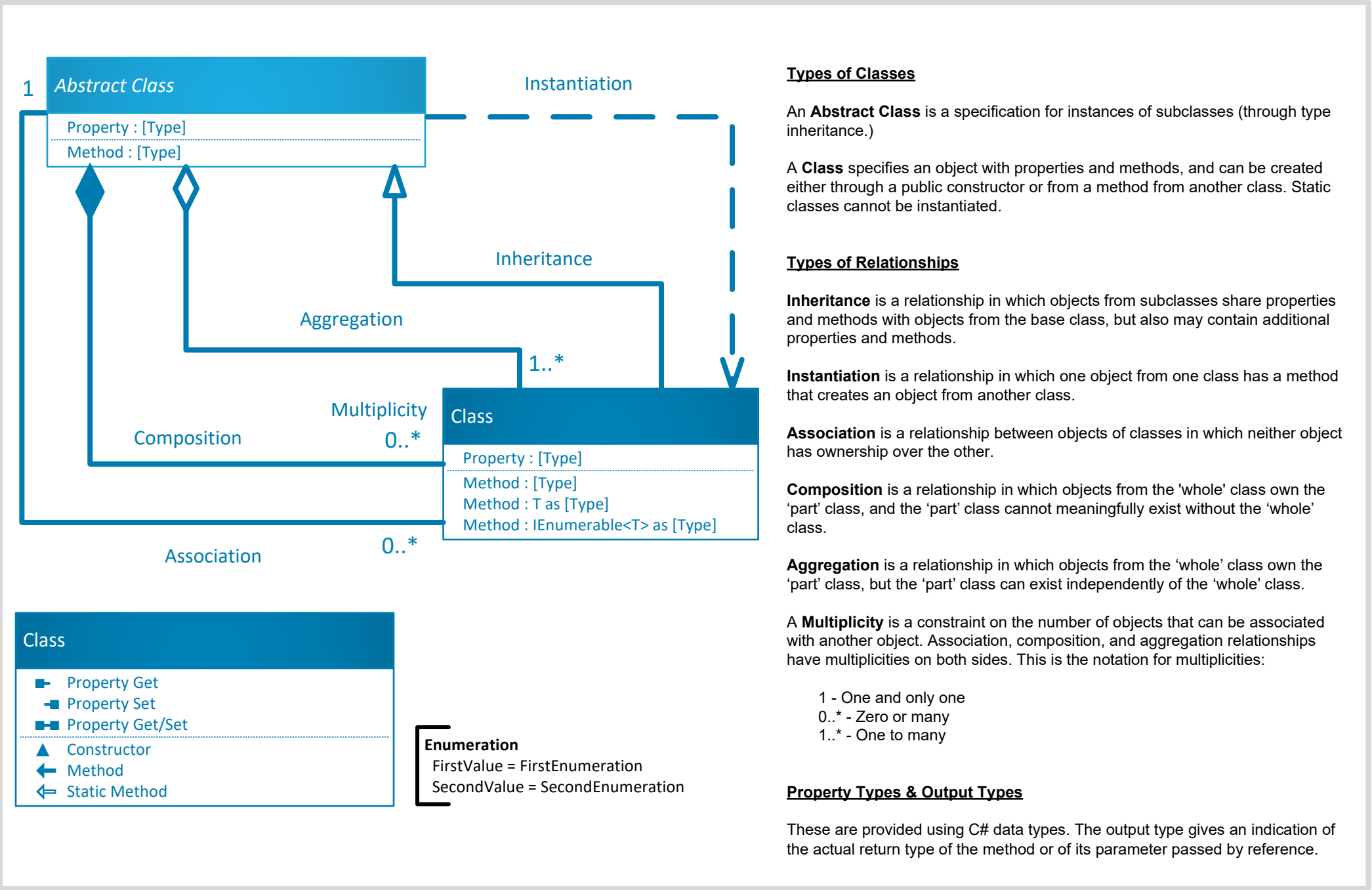
# Geodatabase Object Model

## Topology

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# Geodatabase Object Model Plugin

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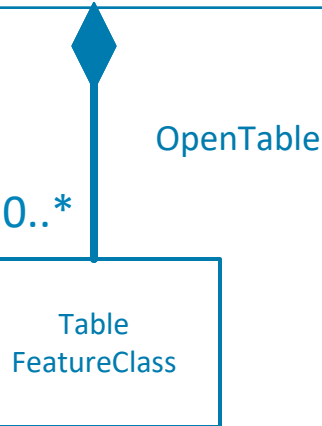
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## PluginDatasourceTemplate

```
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
```

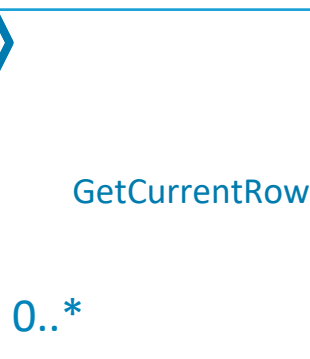


## PluginField

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

## PluginCursorTemplate

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



## PluginRow

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

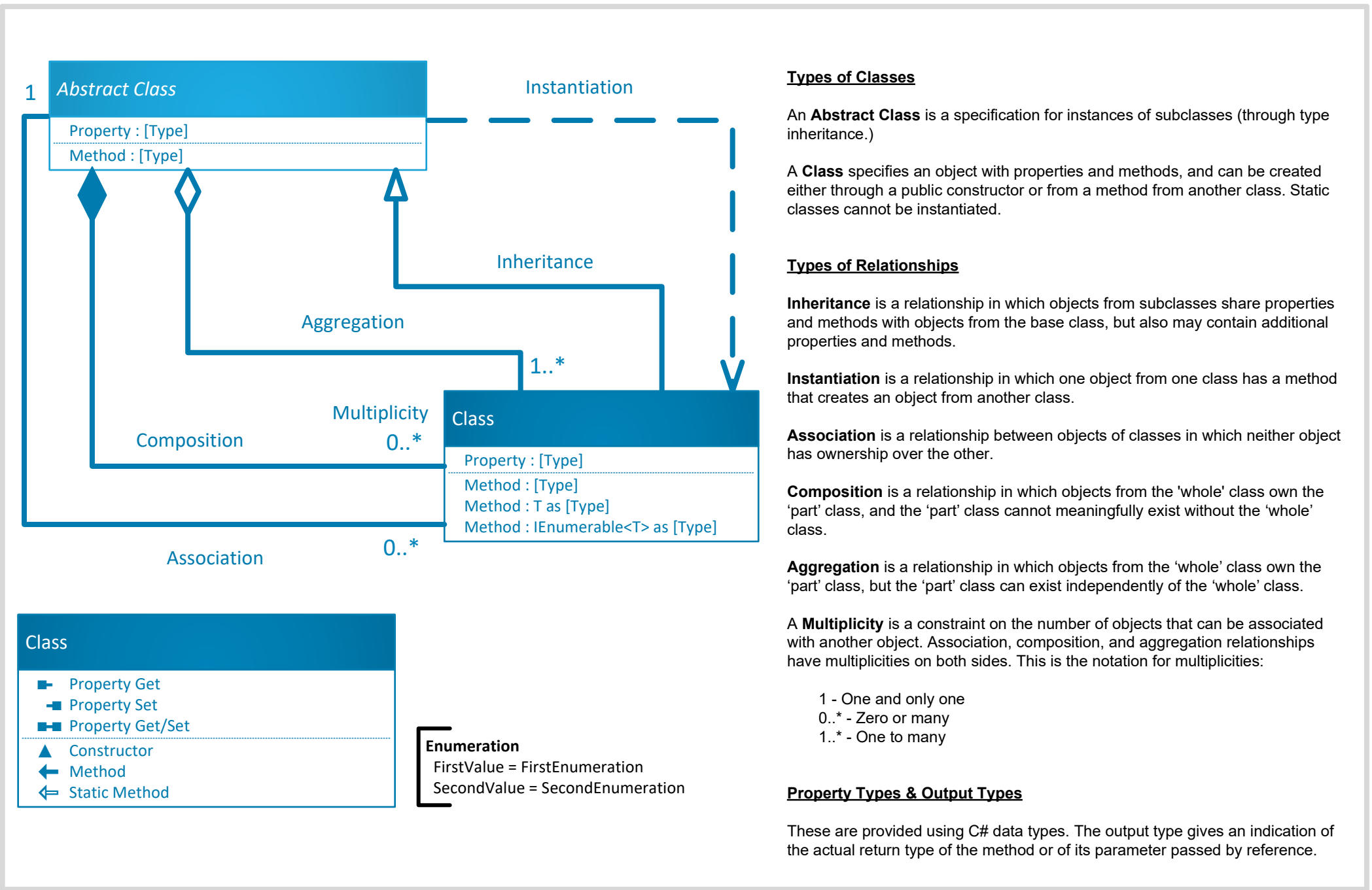
## Enumerations

### 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

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