## Geodatabase Object Model **Datastore**

Types of Classes

classes cannot be instantiated.

Types of Relationships

properties and methods.

has ownership over the other.

that creates an object from another class.

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

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

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

**Instantiation** is a relationship in which one object from one class has a method

**Association** is a relationship between objects of classes in which neither object

**Composition** is a relationship in which objects from the 'whole' class own the

Instantiation

Inheritance

Method : [Type]

Method: T as [Type]

Aggregation

Multiplicity

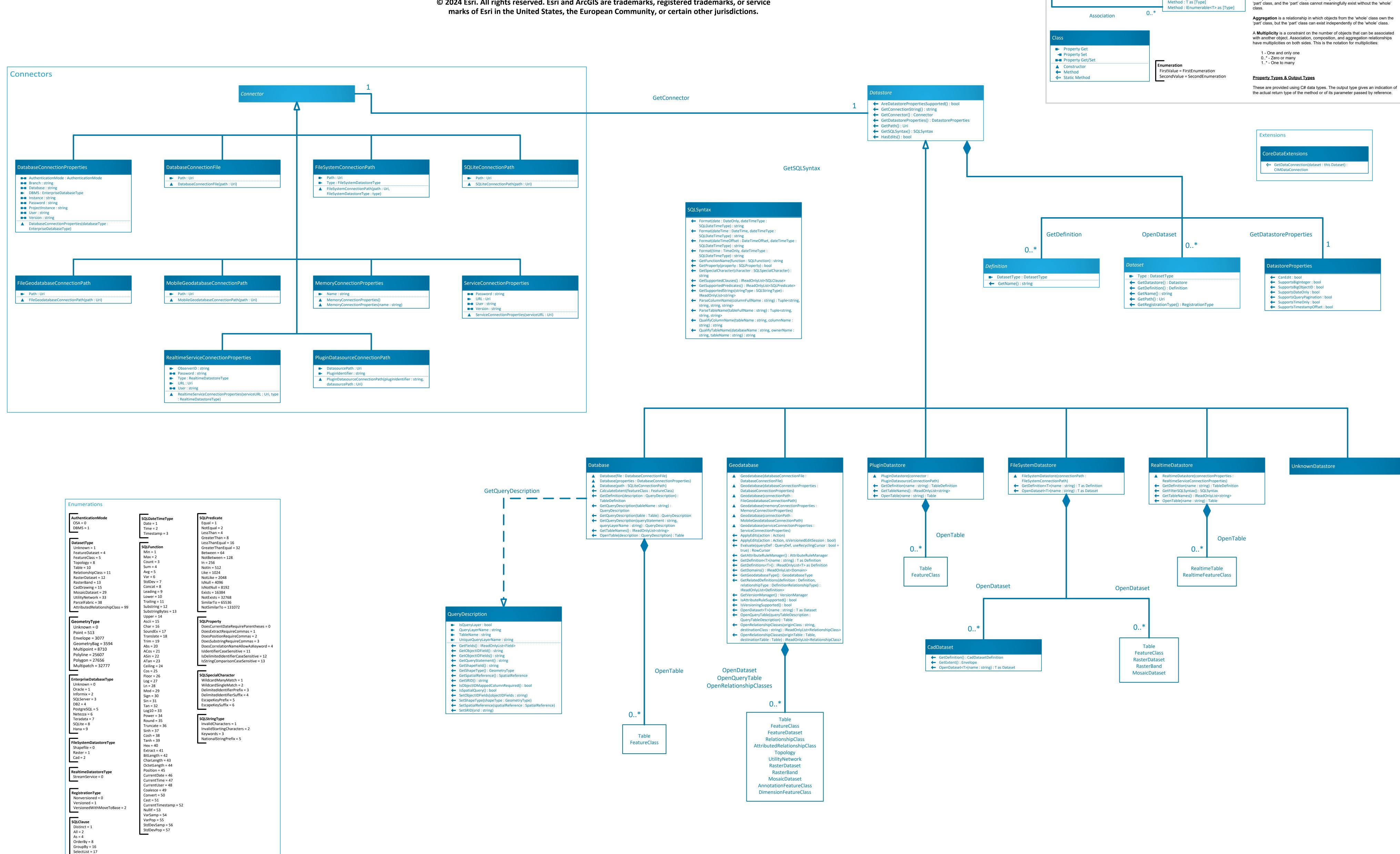
stract Class

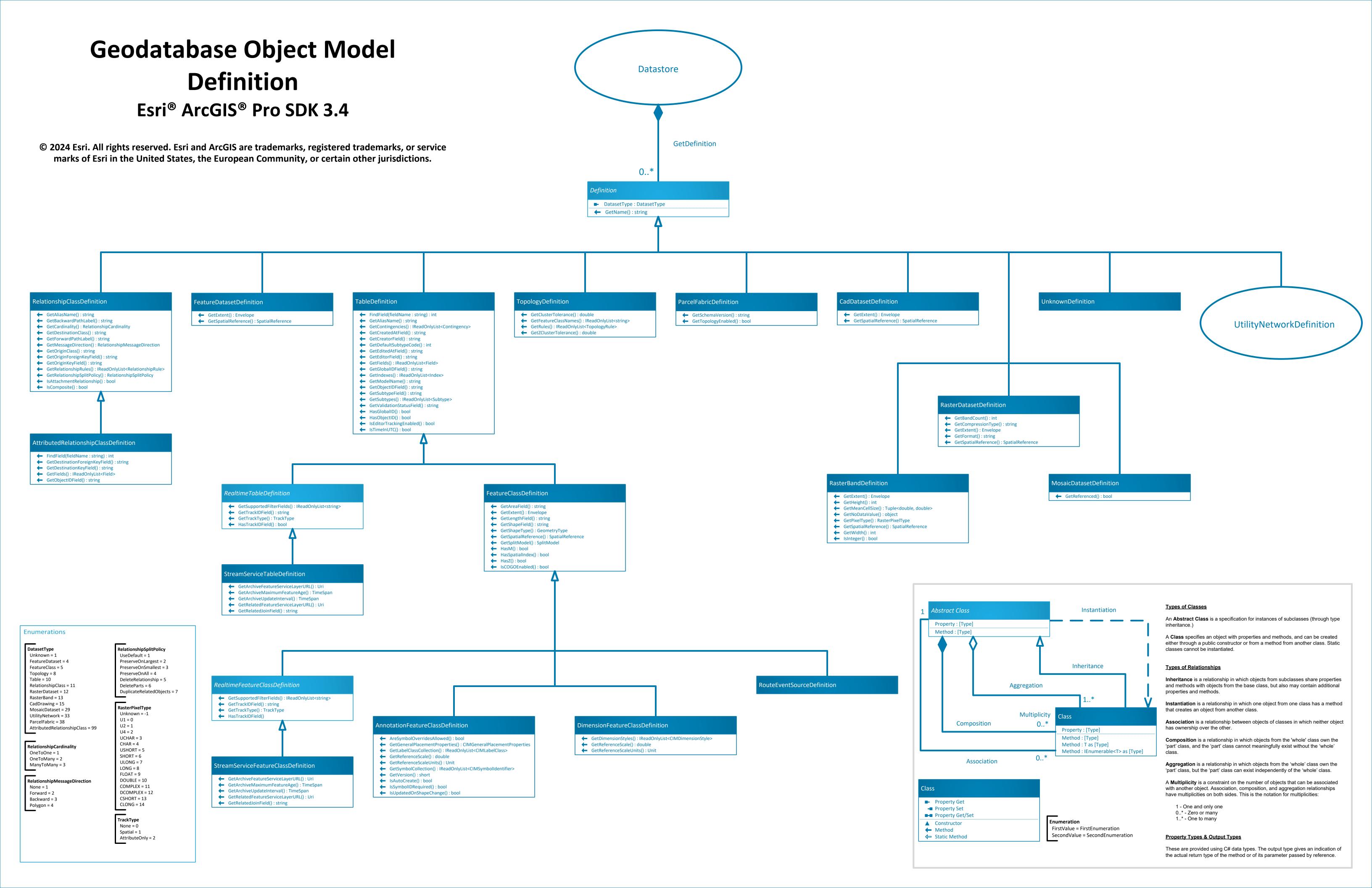
Method: [Type

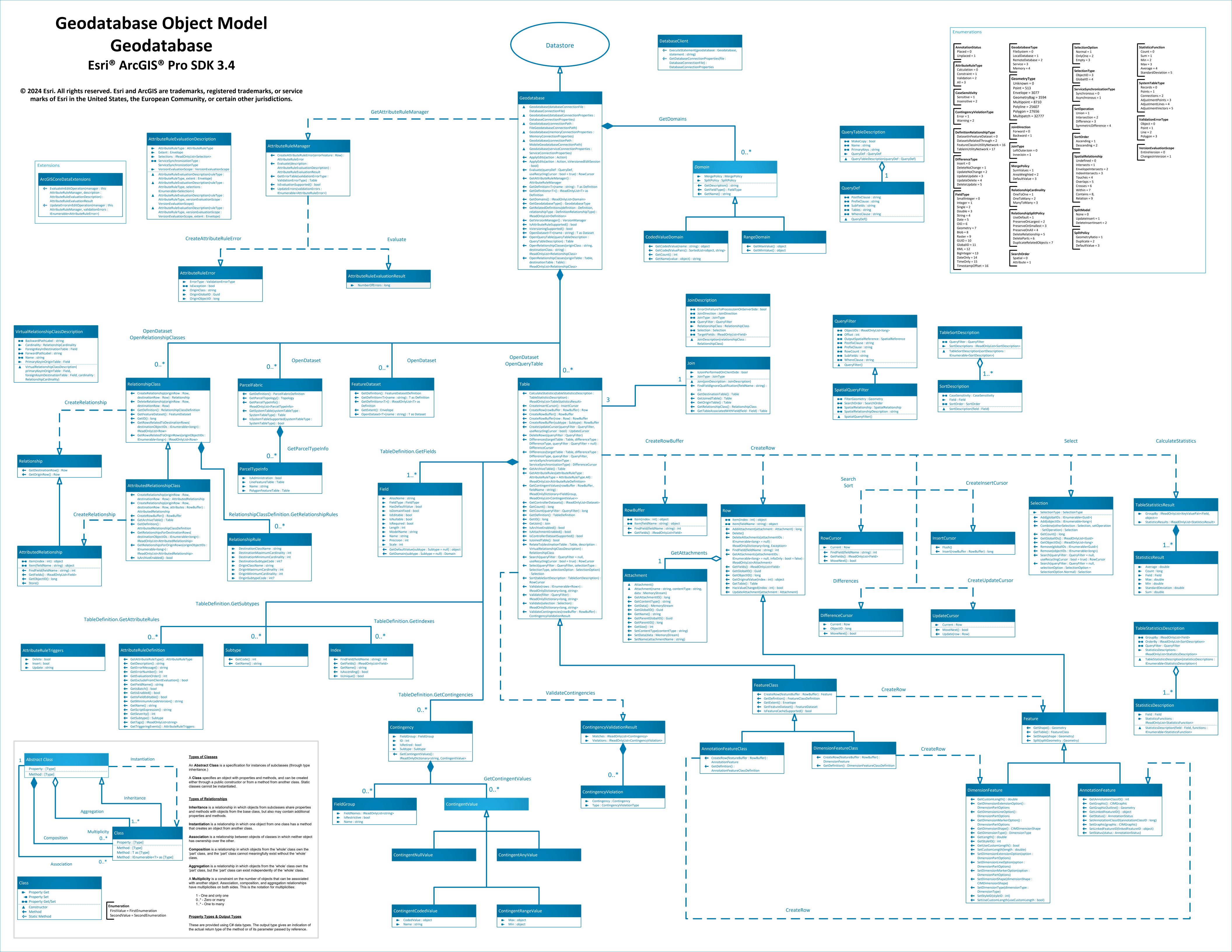
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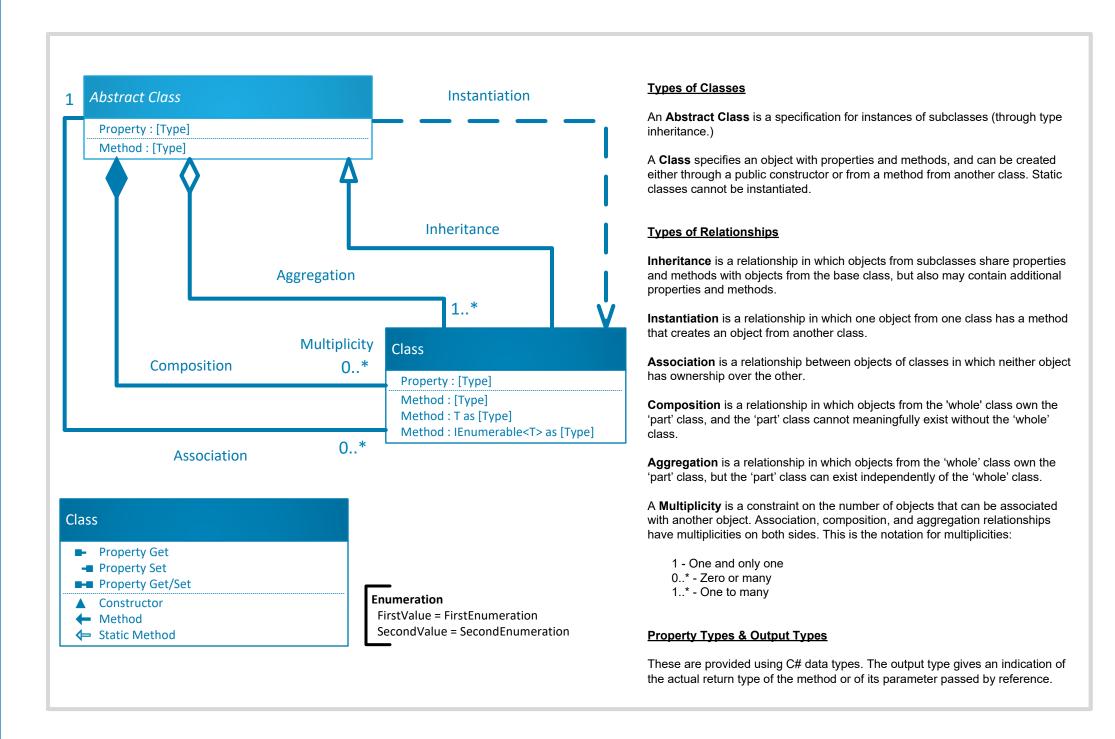
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From = 18 Where = 19 Having = 20 Expression = 21









listorical Version Description

▲ HistoricalVersionDescription(name : string, timeStamp :

HistoricalVersion

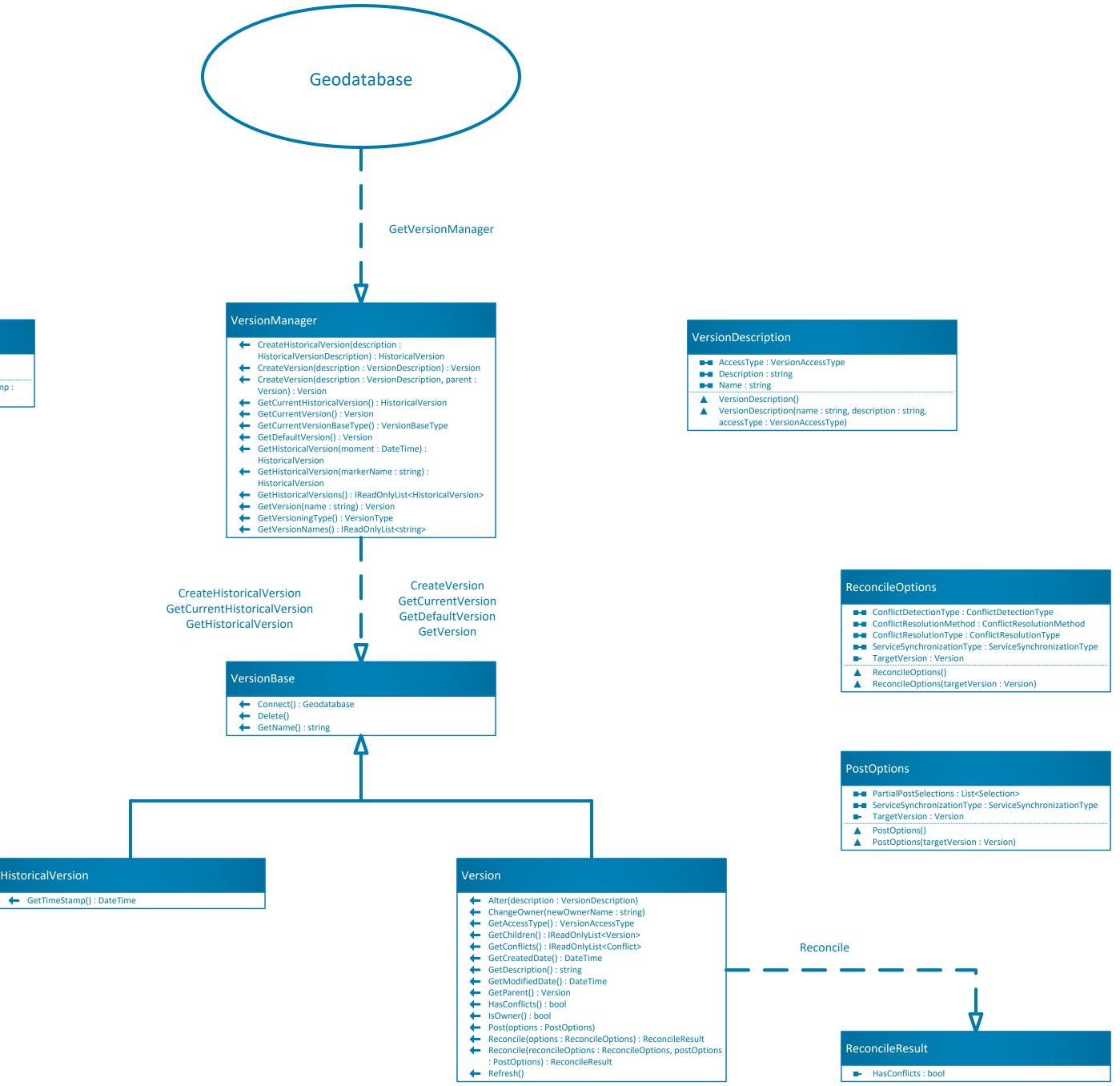
■■ TimeStamp : DateTime

DateTime)

## Geodatabase Object Model Versioning

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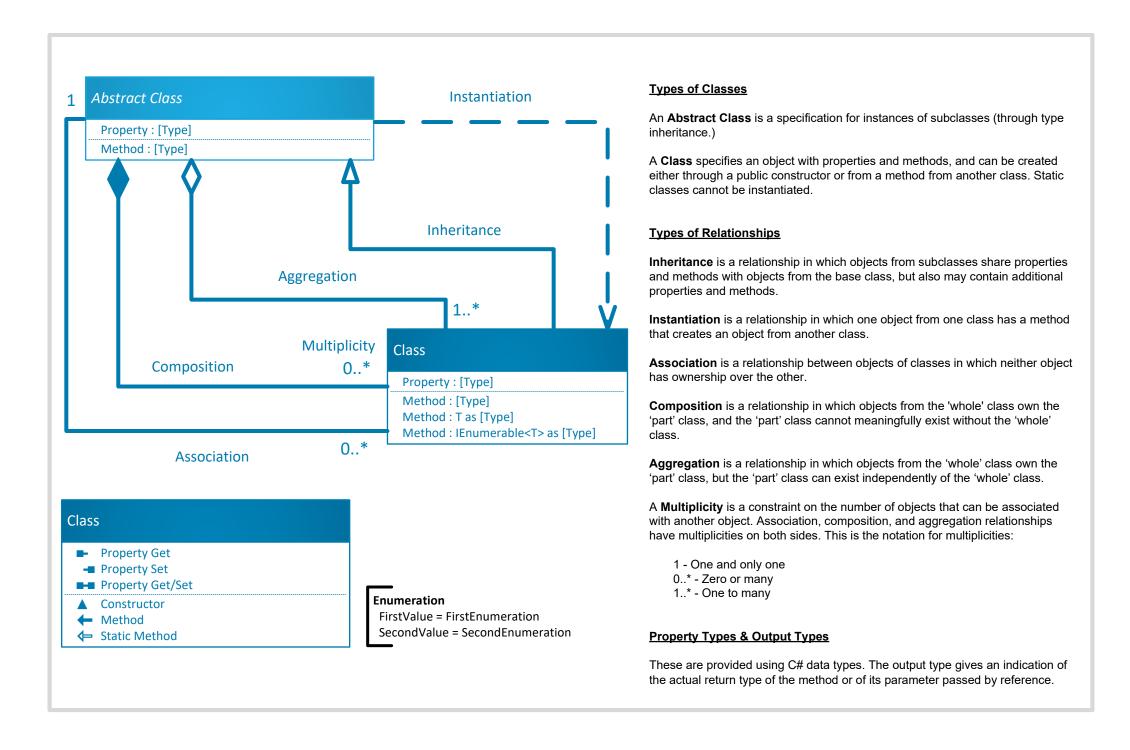
#### Enumerations ConflictDetectionType ServiceSynchronizationType ByRow = 0Synchronous = 0 ByColumn = 1 Asynchronous = 1 ConflictResolutionMethod VersionAccessType Abort = 0 Private = 0 Public = 1 Continue = 1 Protected = 2 ConflictResolutionType VersionBaseType FavorTargetVersion = 0 FavorEditVersion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

- AncestorVersionValues : IReadOnlyList<FieldValue> ChildVersionValues : IReadOnlyList<FieldValue>
- ConflictType : ConflictType
- DatasetName : string ObjectID : long
- ParentVersionValues : IReadOnlyList<FieldValue>

# Geodatabase Object Model DDL

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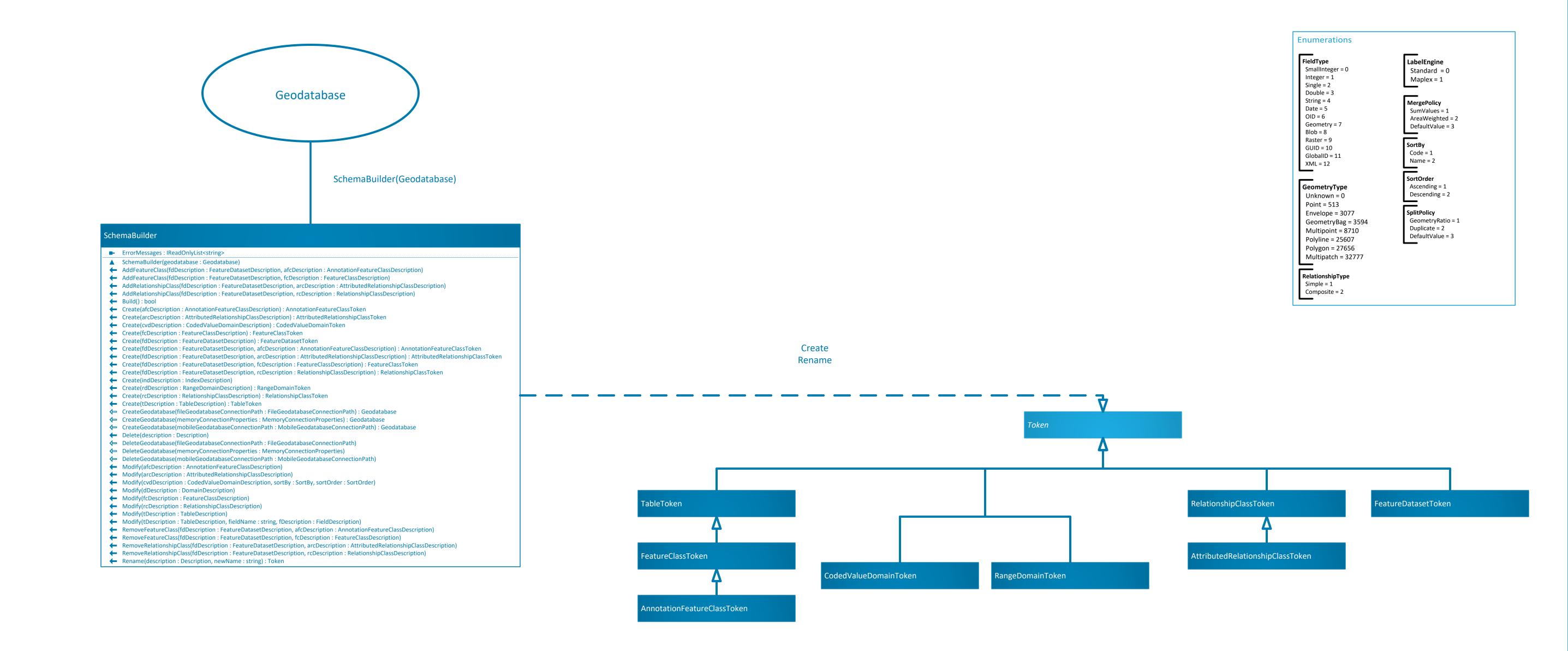
▲ AnnotationFeatureClassDescription(name : string, definition :

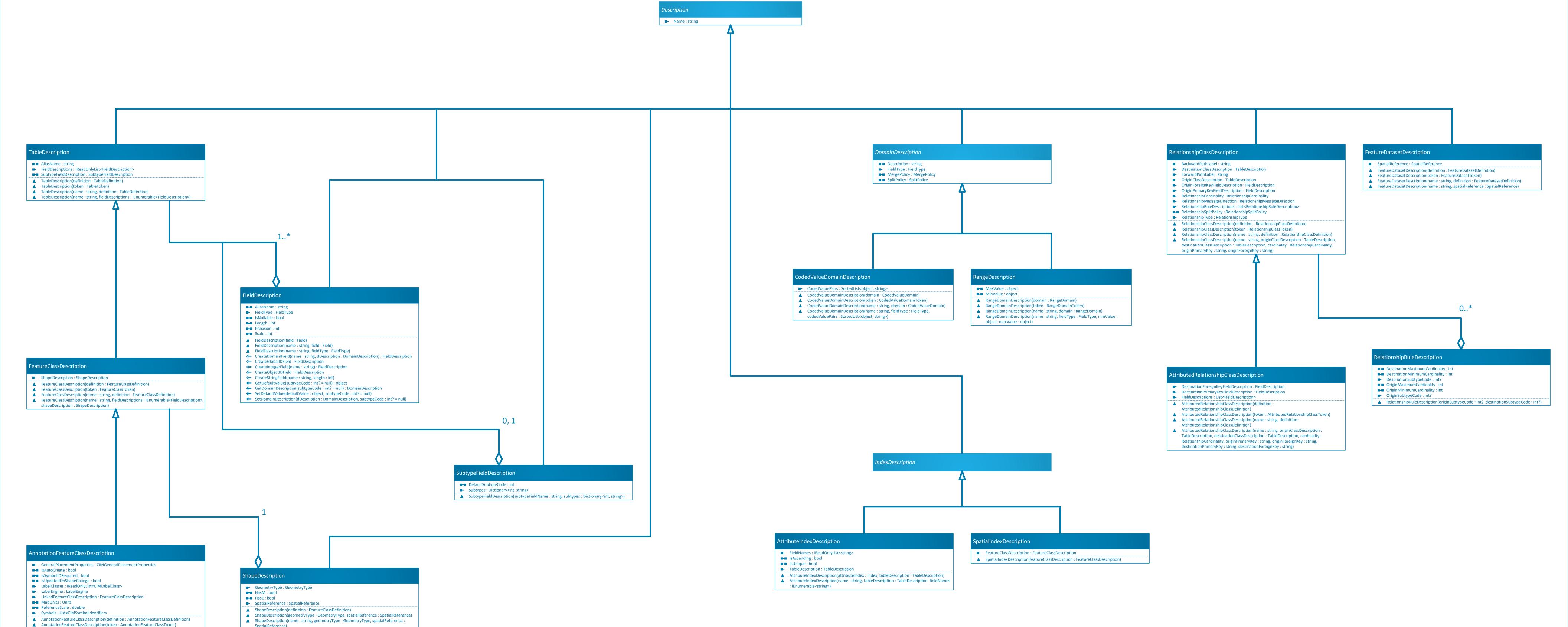
▲ AnnotationFeatureClassDescription(name : string, fieldDescriptions : IEnumerable<FieldDescription>, shapeDescription : ShapeDescription, generalPlacementProperties : CIMGeneralPlacementProperties, labelClasses :

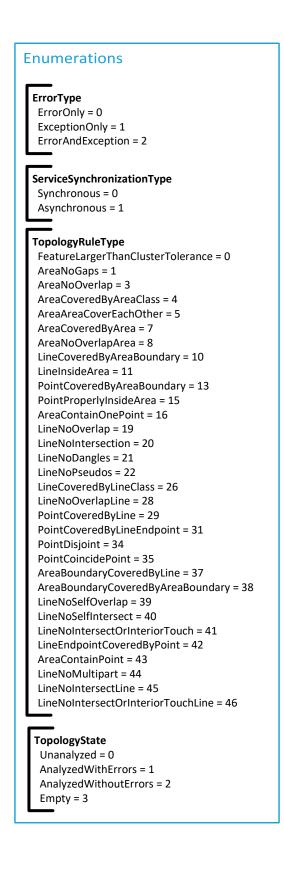
▲ AnnotationFeatureClassDescription(name: string, fieldDescriptions: IEnumerable<FieldDescription>, shapeDescription: ShapeDescription, generalPlacementProperties: CIMGeneralPlacementProperties, labelClasses: IEnumerable<CIMLabelClass>, linkedFeatureClassDescription: FeatureClassDescription)

AnnotationFeatureClassDefinition)

IEnumerable<CIMLabelClass>)







Extensions

**ArcGISCoreDataExtensions** 

ValidationResult

Topology, topologyError : TopologyError)

UnmarkAsExceptionInEditOperation(topology :

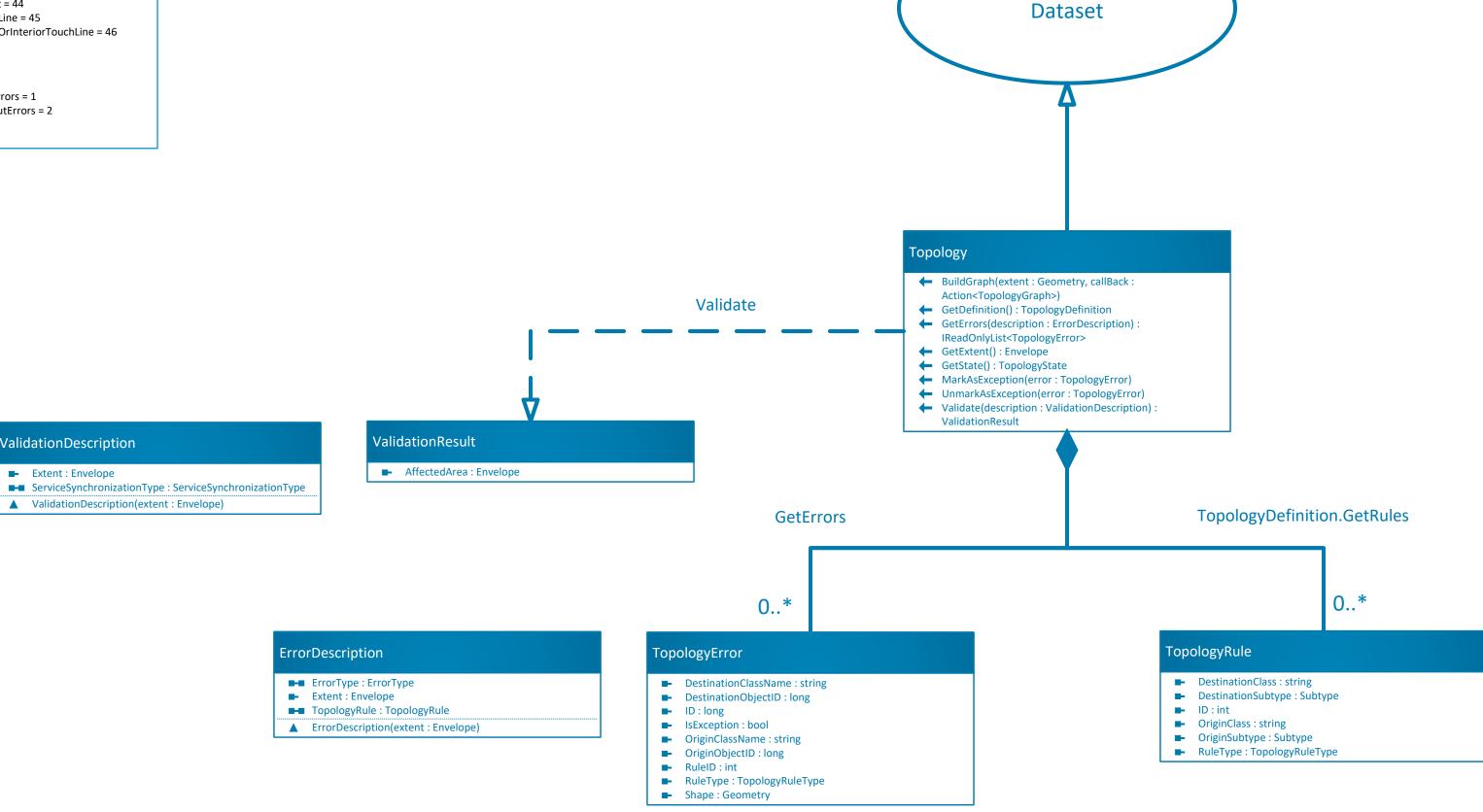
this Topology, topologyError : TopologyError)

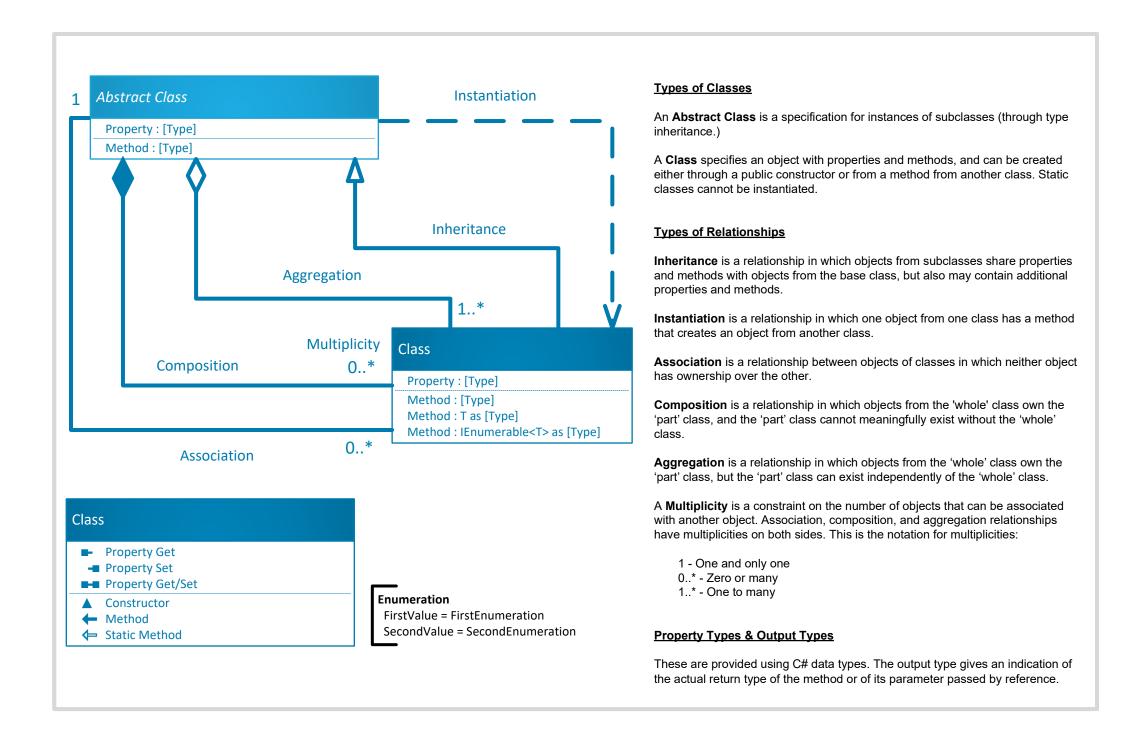
← ValidateInEditOperation(topology : this Topology,

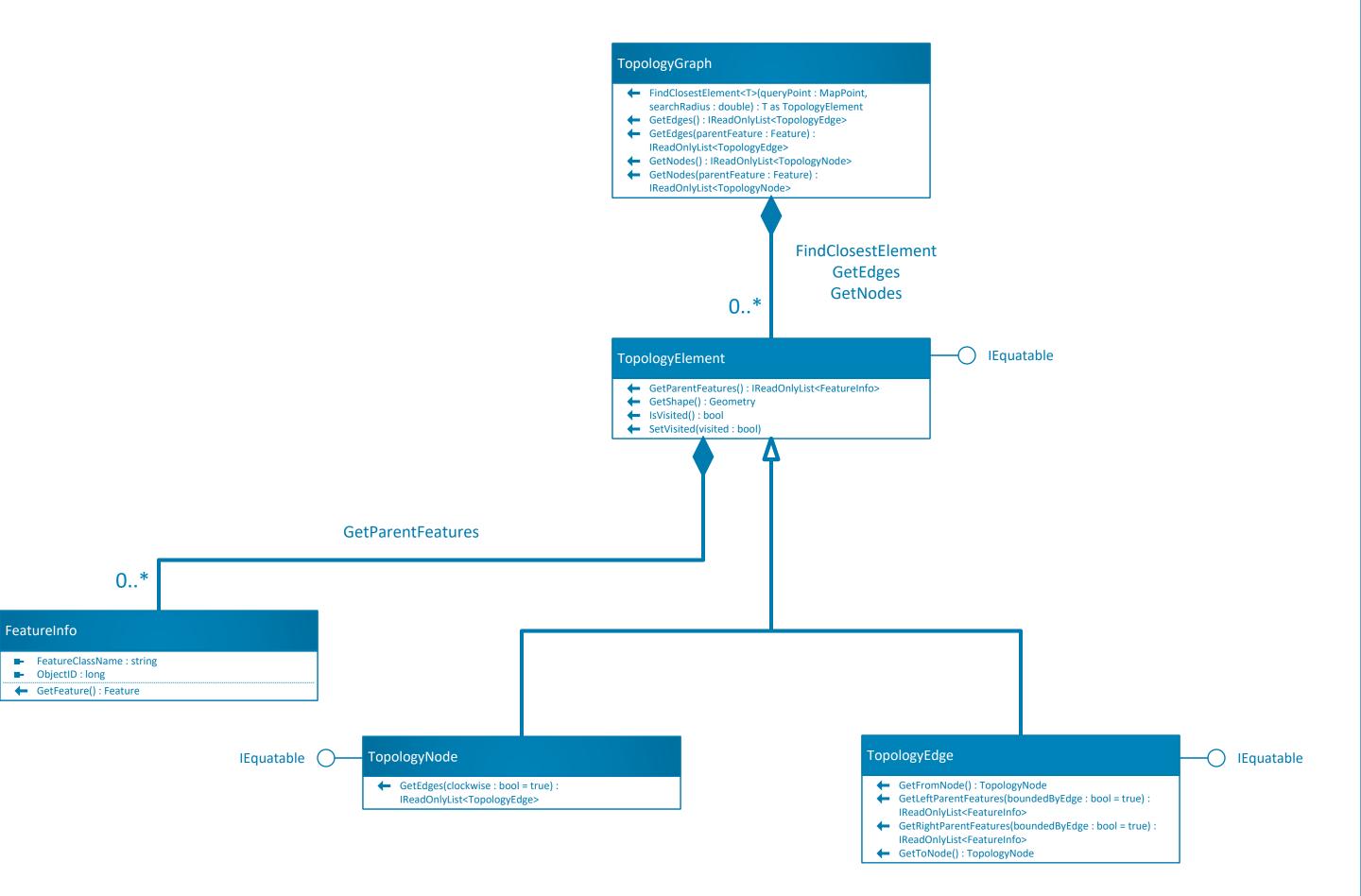
validationDescription: ValidationDescription):

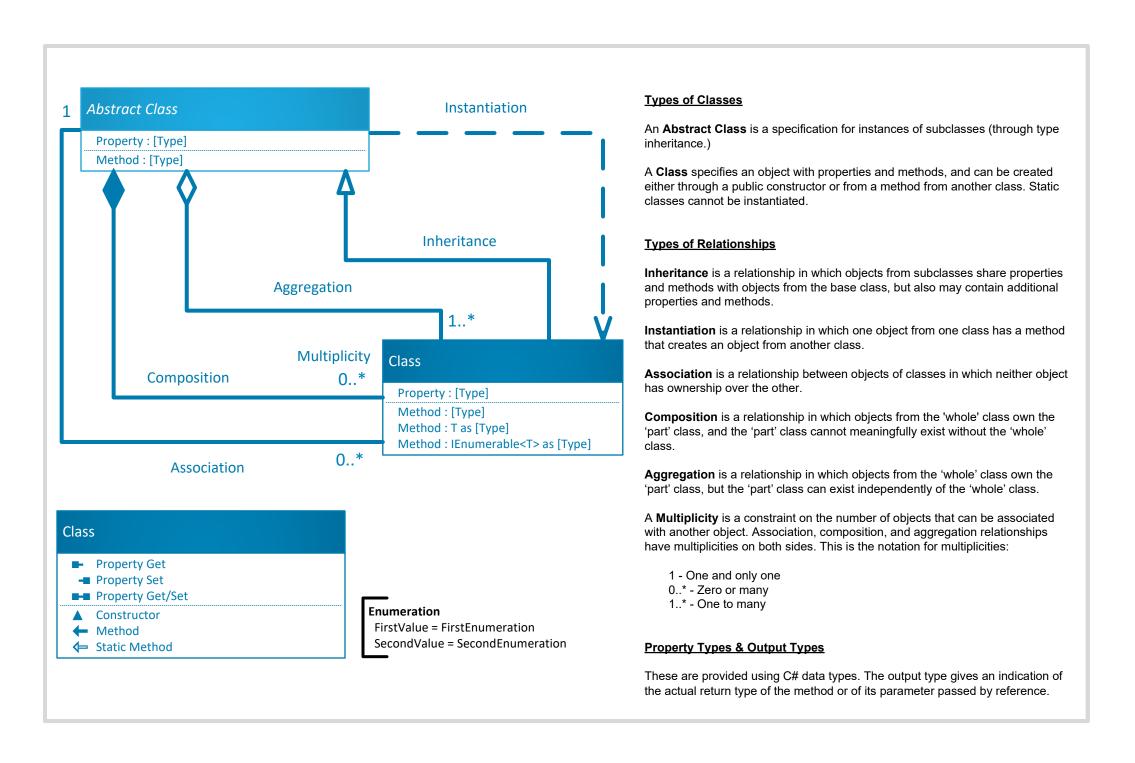
# Geodatabase Object Model Topology Esri® ArcGIS® Pro SDK 3.4

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CreateCursor

RasterCursor

Reset()

Current : PixelBlock

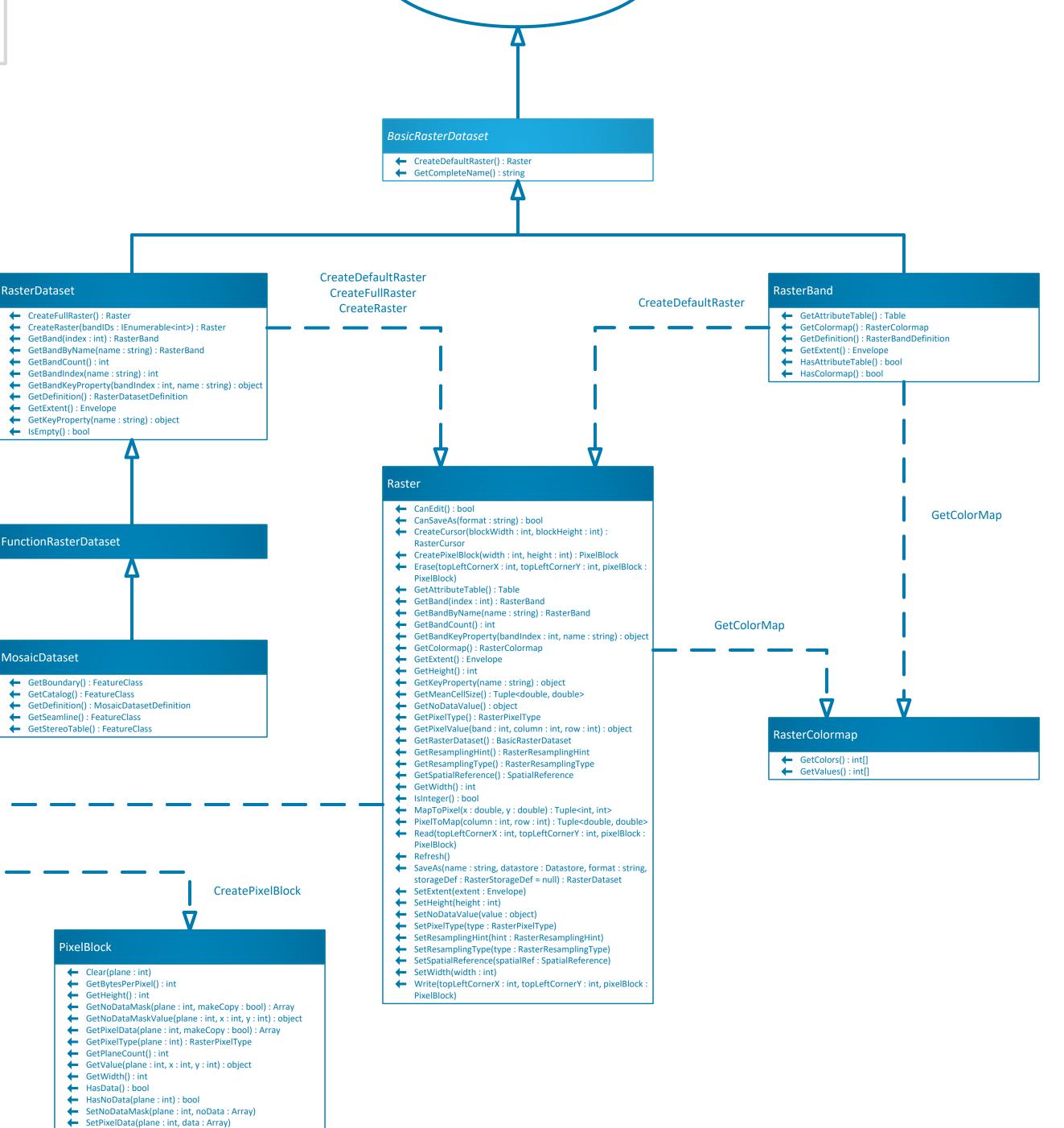
MoveNext(): bool

GetTopLeft() : Tuple<int, int>

# Geodatabase Object Model Raster Esri® ArcGIS® Pro SDK 3.4

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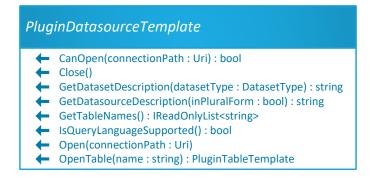
Dataset

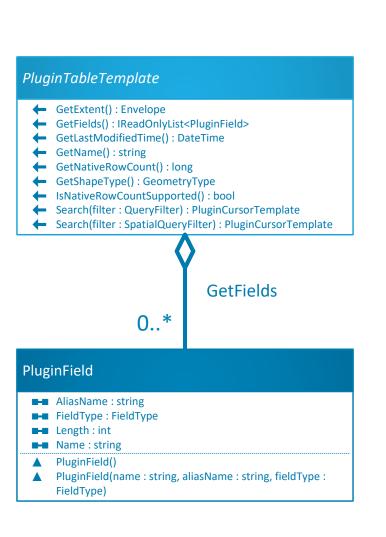


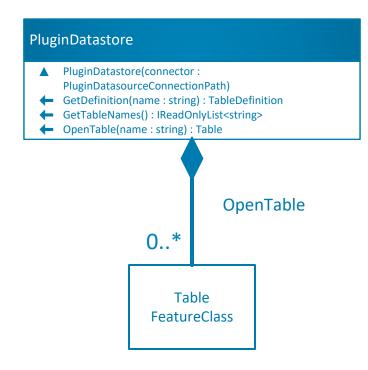
**Enumerations** RasterCompressionTy RasterResamplingType NearestNeighbor = 0 Unknown = -1 BilinearInterpolation = 1 Uncompressed = 0 LZ77 = 1 CubicConvolution = 2 JPEG = 2 Majority = 3 JPEG2000 = 4 BilinearInterpolationPlus = 4 PackBits = 5 BilinearGaussianBlur = 5 LZW = 6BilinearGaussianBlurPlus = 6 RLE = 7Average = 7 CCITTG3 = 8 Minimum = 8 CCITTG4 = 9 Maximum = 9 VectorAverage = 10 CCITTRLE = 10 JPEGYCbCr = 11 **LERC = 12** RasterResamplingHint Closest = 1 Upsampling = 2 Unknown = -1 Downsampling = 3 Finest = 4 U2 = 1 U4 = 2UCHAR = 3 CHAR = 4USHORT = 5 SHORT = 6 ULONG = 7 LONG = 8 FLOAT = 9DOUBLE = 10 COMPLEX = 11 DCOMPLEX = 12 CSHORT = 13 CLONG = 14

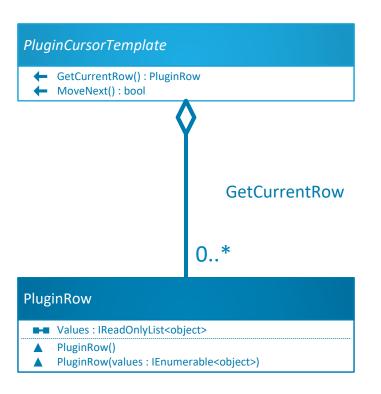
# RasterValue A RasterValue() GetRasterDataset(): RasterDataset GetRasterStorageDef(): RasterStorageDef SetRasterDataset(rasterDataset: RasterDataset) SetRasterStorageDef(def: RasterStorageDef)

#### RasterStorageDef RasterStorageDef() GetCellSize(): Tuple<double, double> GetCompressionQuality(): int GetCompressionType(): RasterCompressionType GetOrigin(): MapPoint GetPyramidLevel(): int GetPyramidResampleType() : RasterResamplingType GetTileHeight(): int GetTileWidth(): int SetCellSize(x : double, y : double) SetCompressionQuality(quality : int) SetCompressionType(compression : RasterCompressionType) SetOrigin(origin : MapPoint) SetPyramidLevel(level : int) SetPyramidResampleType(resampling : RasterResamplingType) SetTileHeight(height : int) SetTileWidth(width:int)





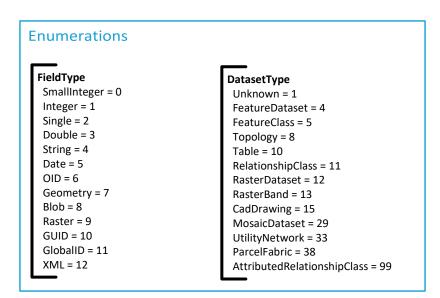


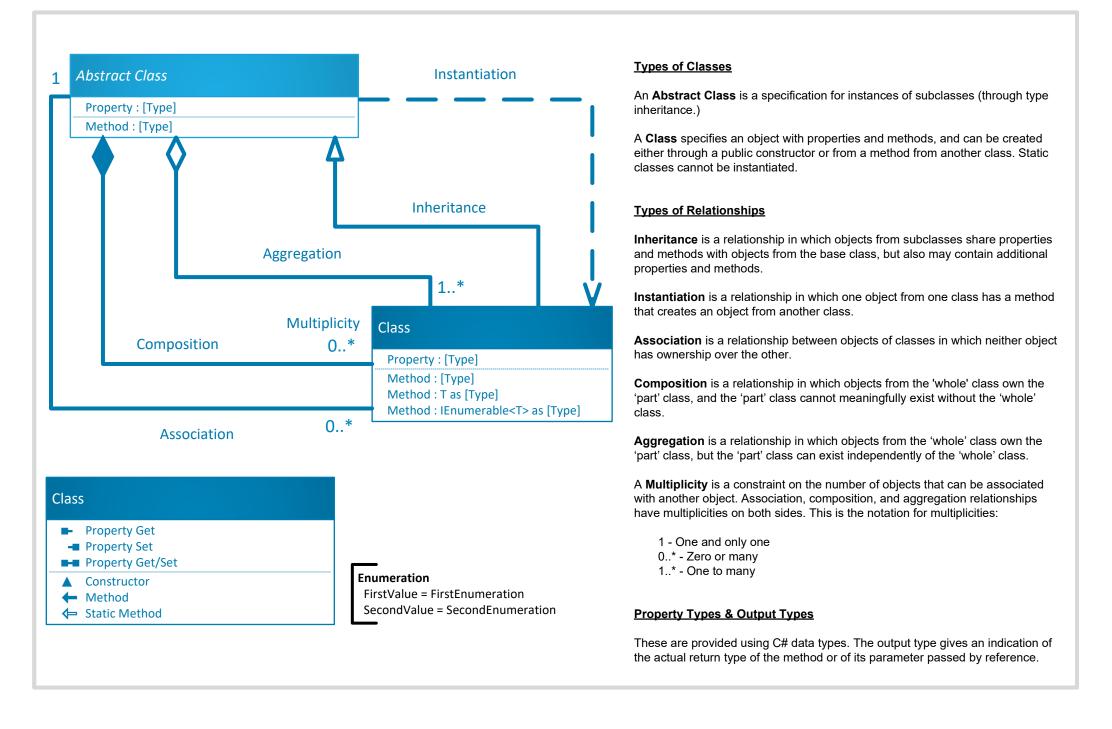


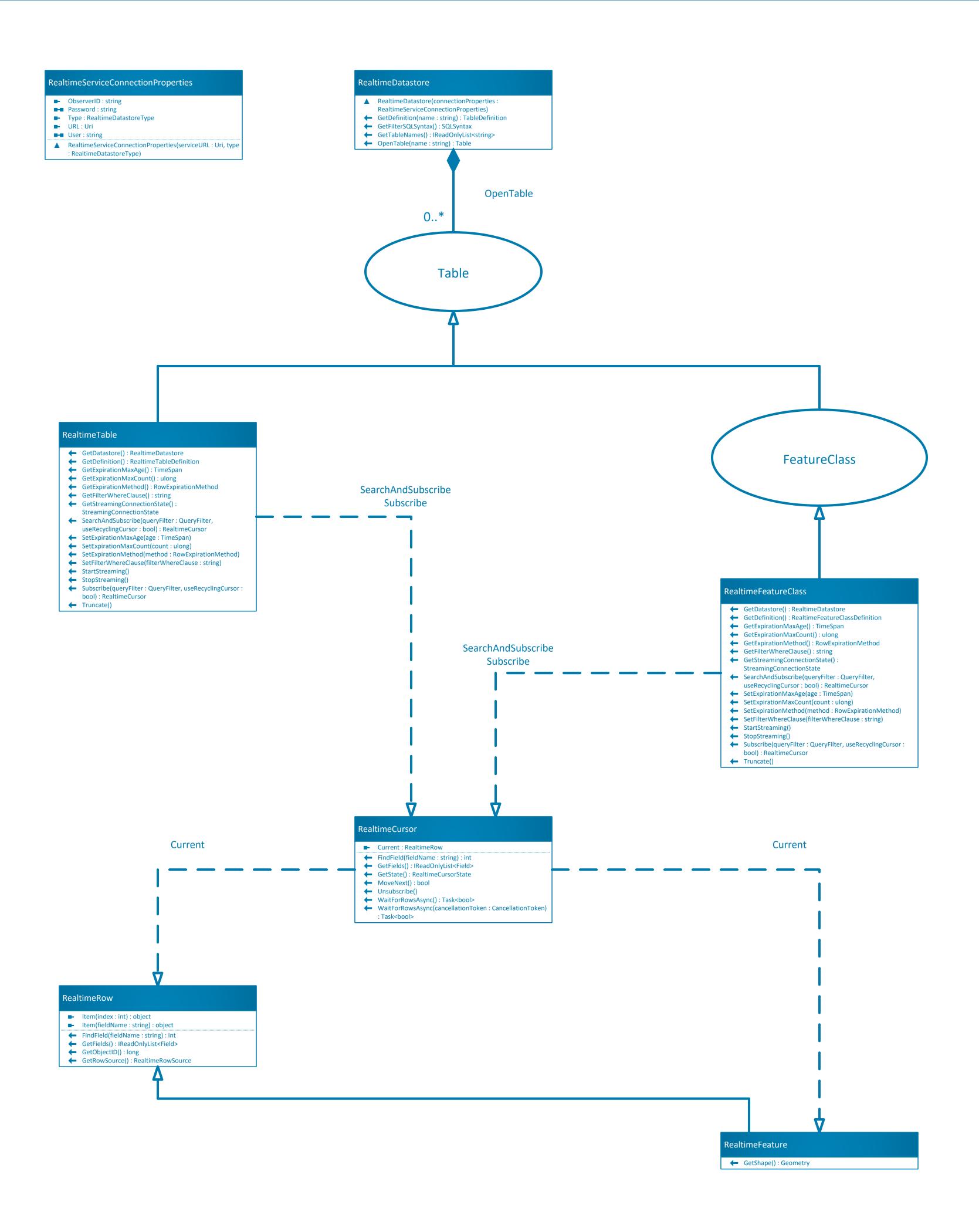
# Geodatabase Object Model Plugin

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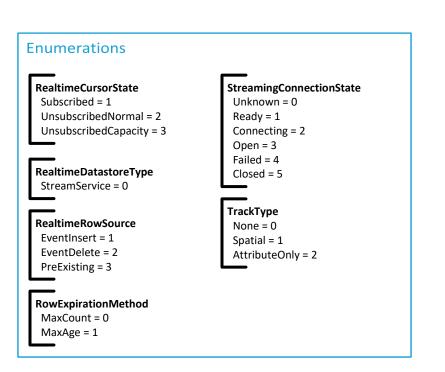


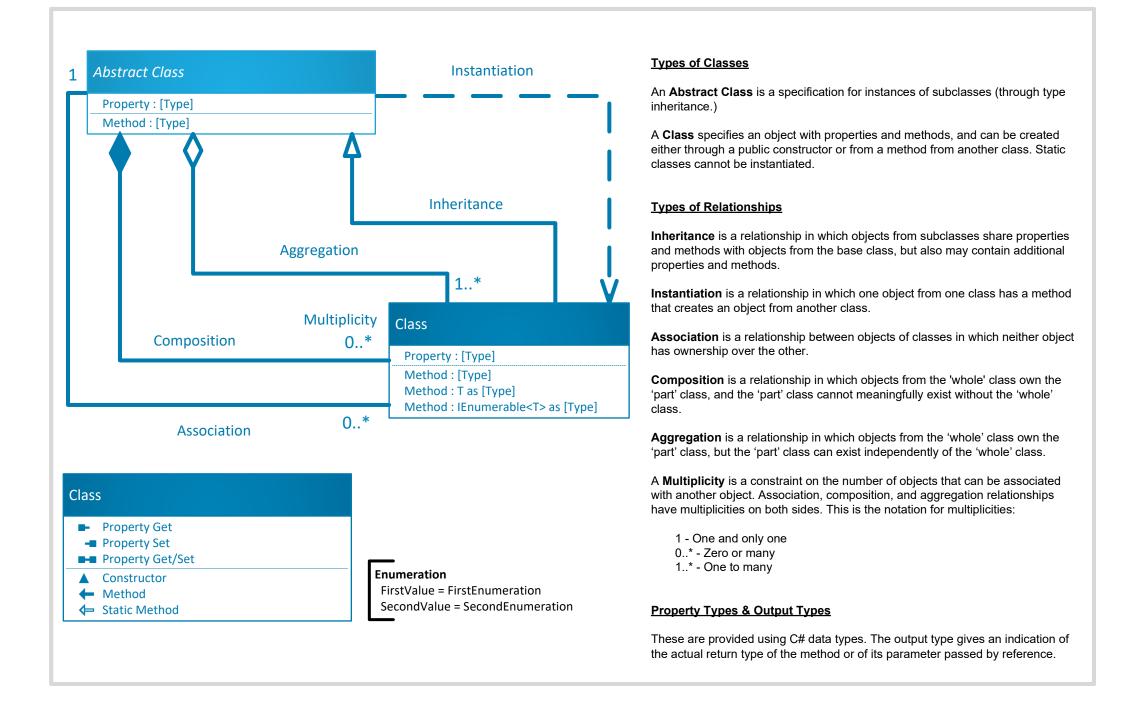


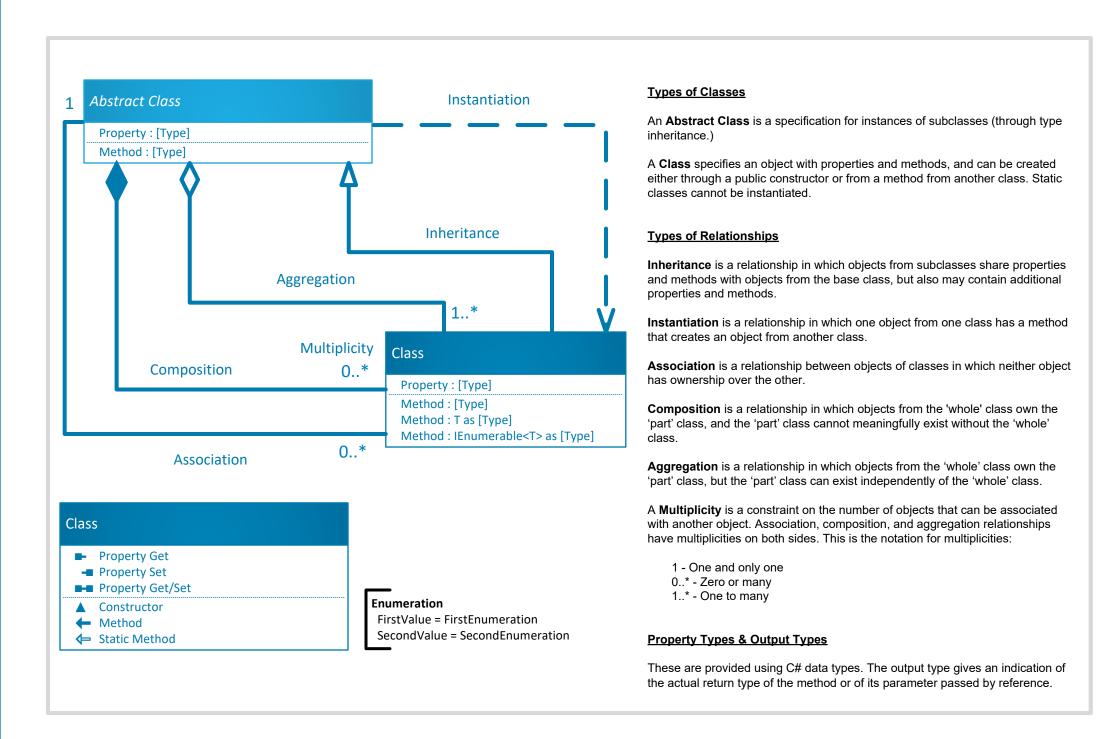
### Geodatabase Object Model Realtime

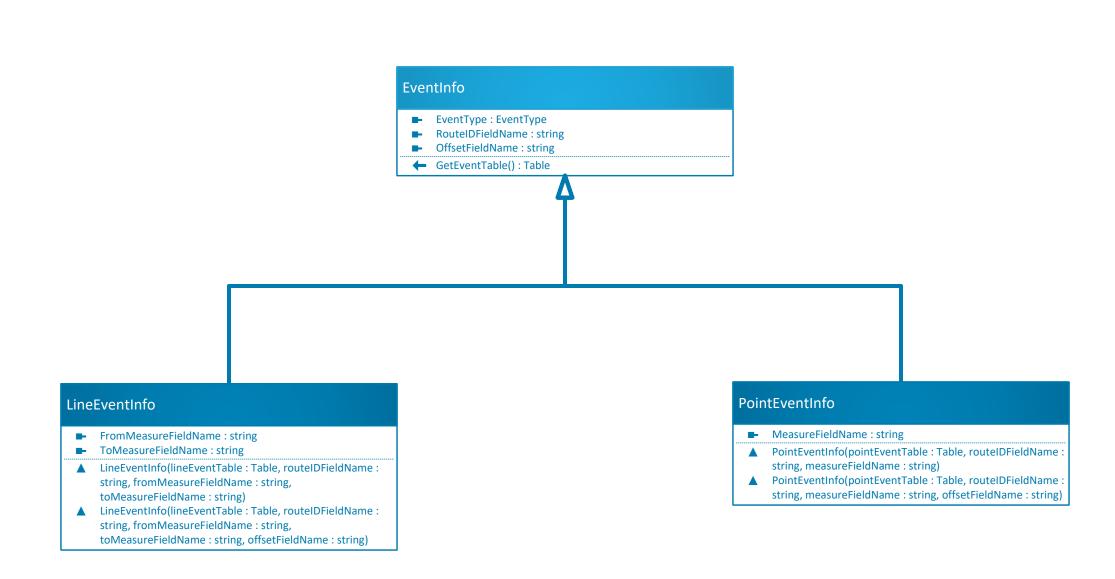
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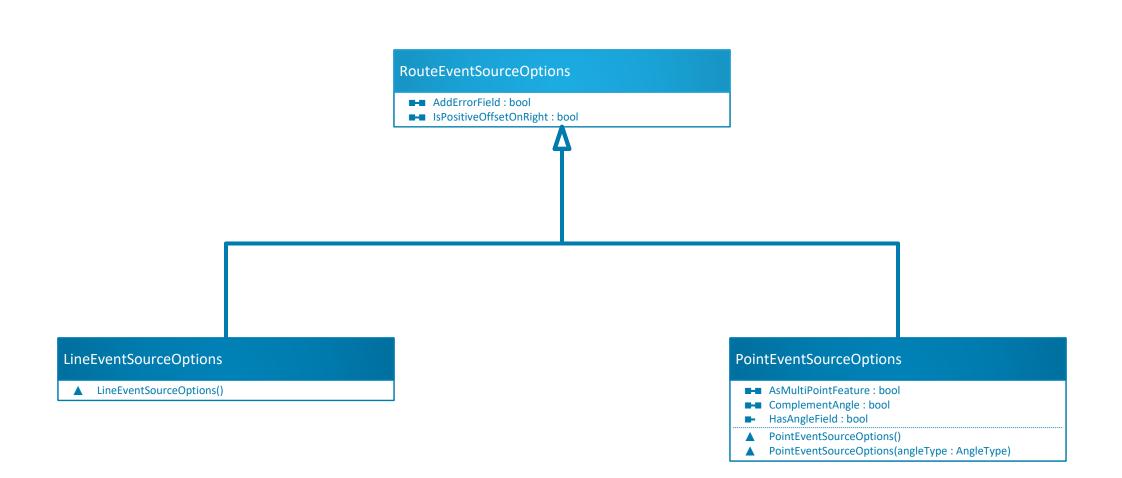
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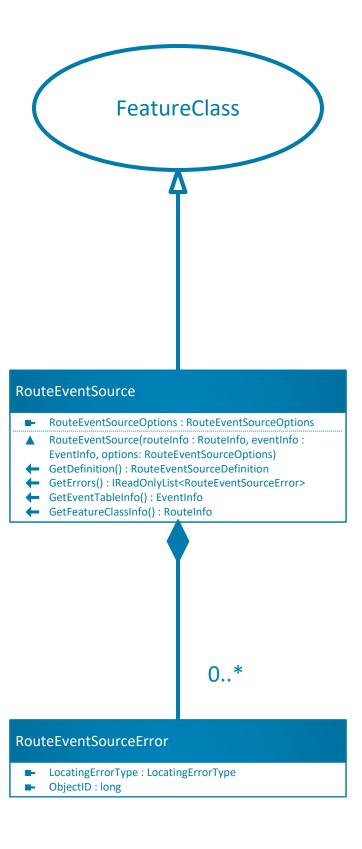


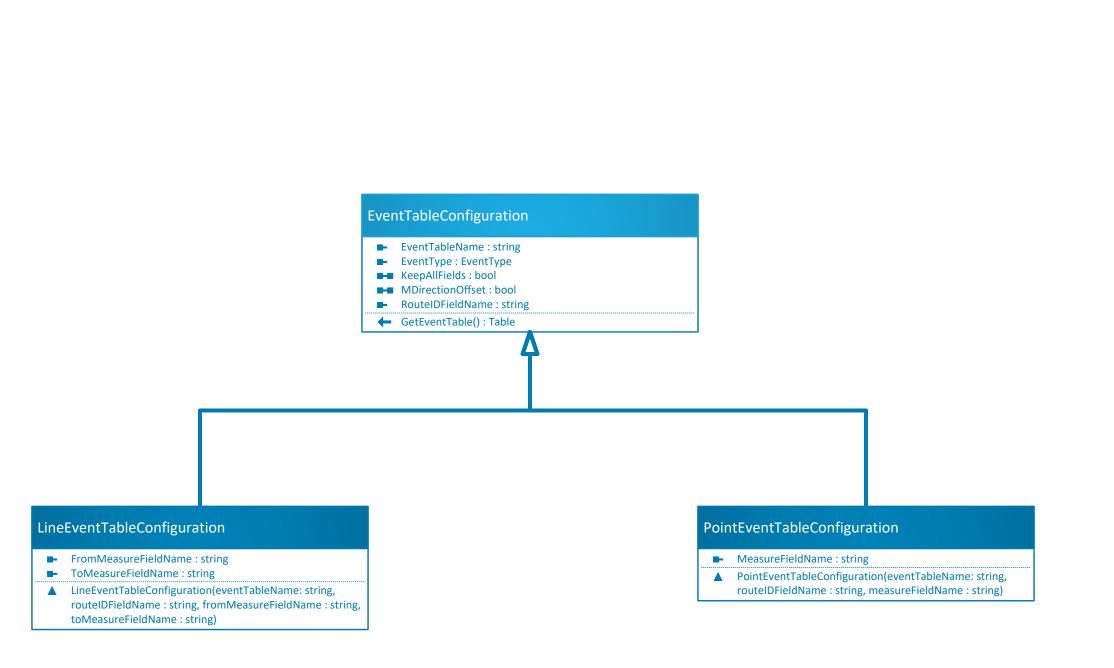


### Geodatabase Object Model Linear Referencing Esri® ArcGIS® Pro SDK 3.4

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#### **Enumerations** AngleType Tangent = 0 Normal = 1 EventType Line = 0 Point = 1 LocatingErrorType InvalidRouteID = 1 InvalidMeasure = 2 CannotFindRoute = 3 RouteShapeEmpty = 4 CannotFindLocation = 5 CannotFindExtent = 6 FromPartialMatch = 7 ToPartialMatch = 8 RouteMValuesNull = 9 RouteNotMAware = 10 FromToPartialMatch = 11 MultipleLocations = 12 NullExtent = 13





RouteInfo

RouteIDFieldName : string

GetRouteFeatureClass(): FeatureClass

▲ RouteInfo(featureClass : FeatureClass, routeIDFieldName :

LocateFeatures(featureClass : FeatureClass, searchRadius : double, configuration : EventTableConfiguration)
 LocateFeatures(selectedFeatures : Selection, searchRadius : double, configuration : EventTableConfiguration)