Geodatabase Object Model
Datastore
Esri® ArcGIS® Pro SDK 3.8

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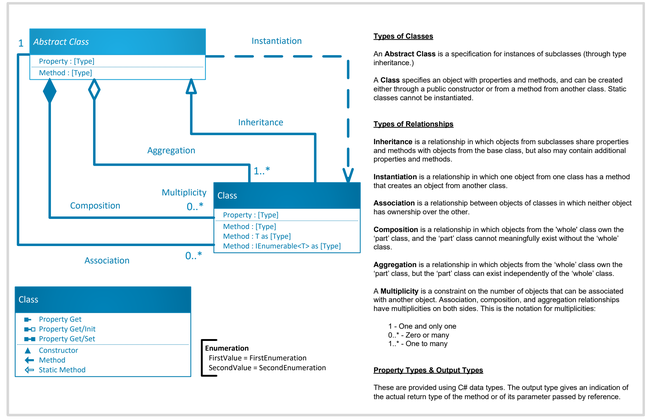

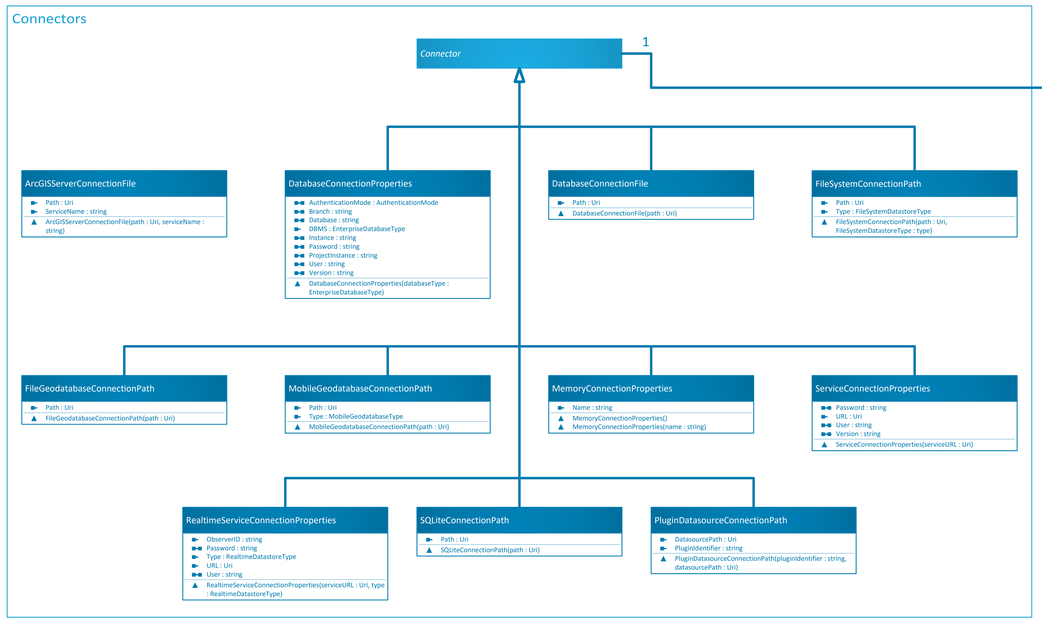

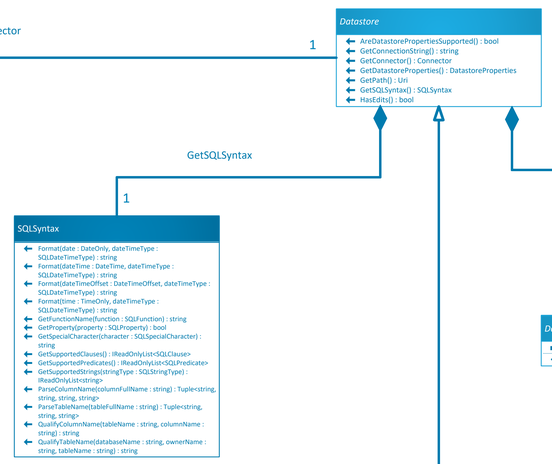

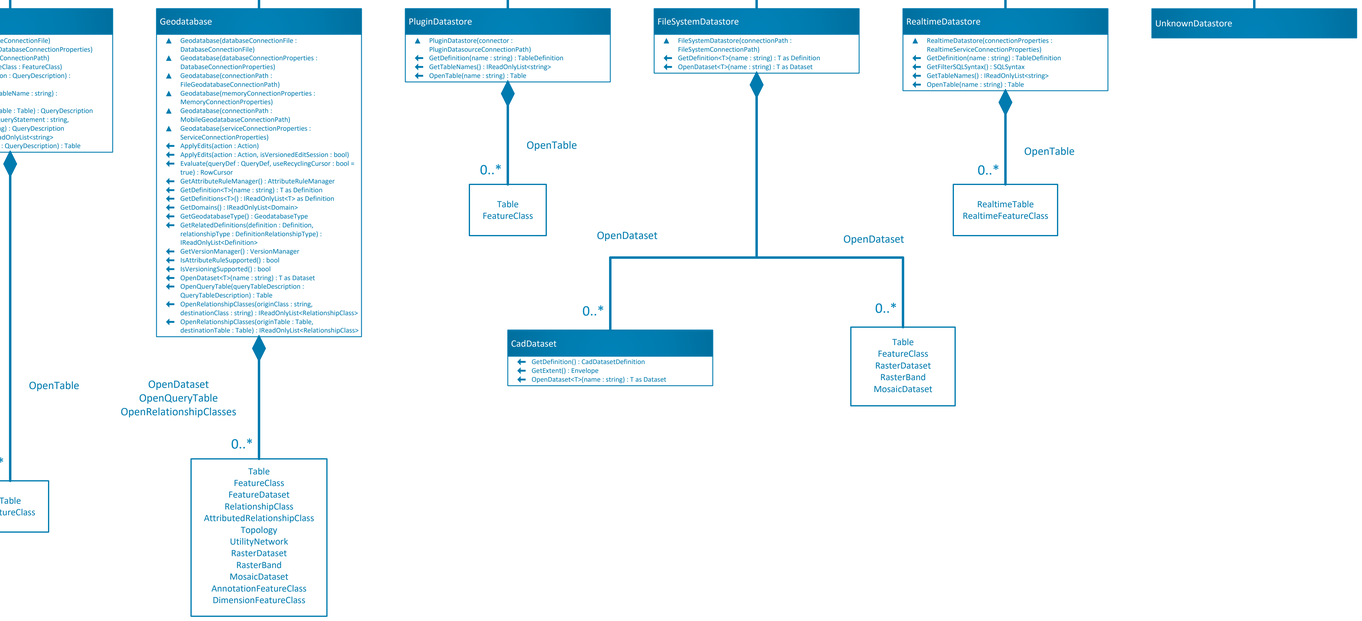

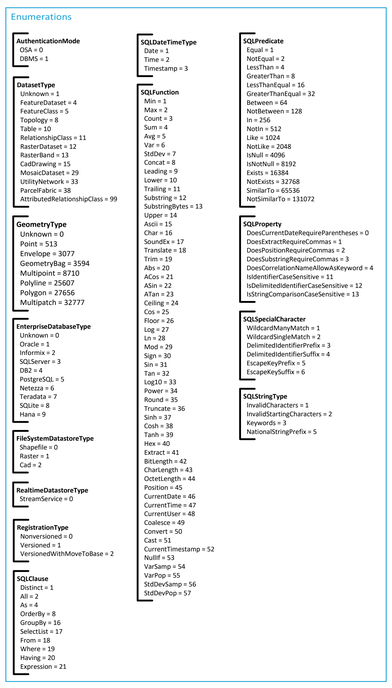

Geodatabase Object Model Definition

Esri® ArcGIS® Pro SDK 3.8

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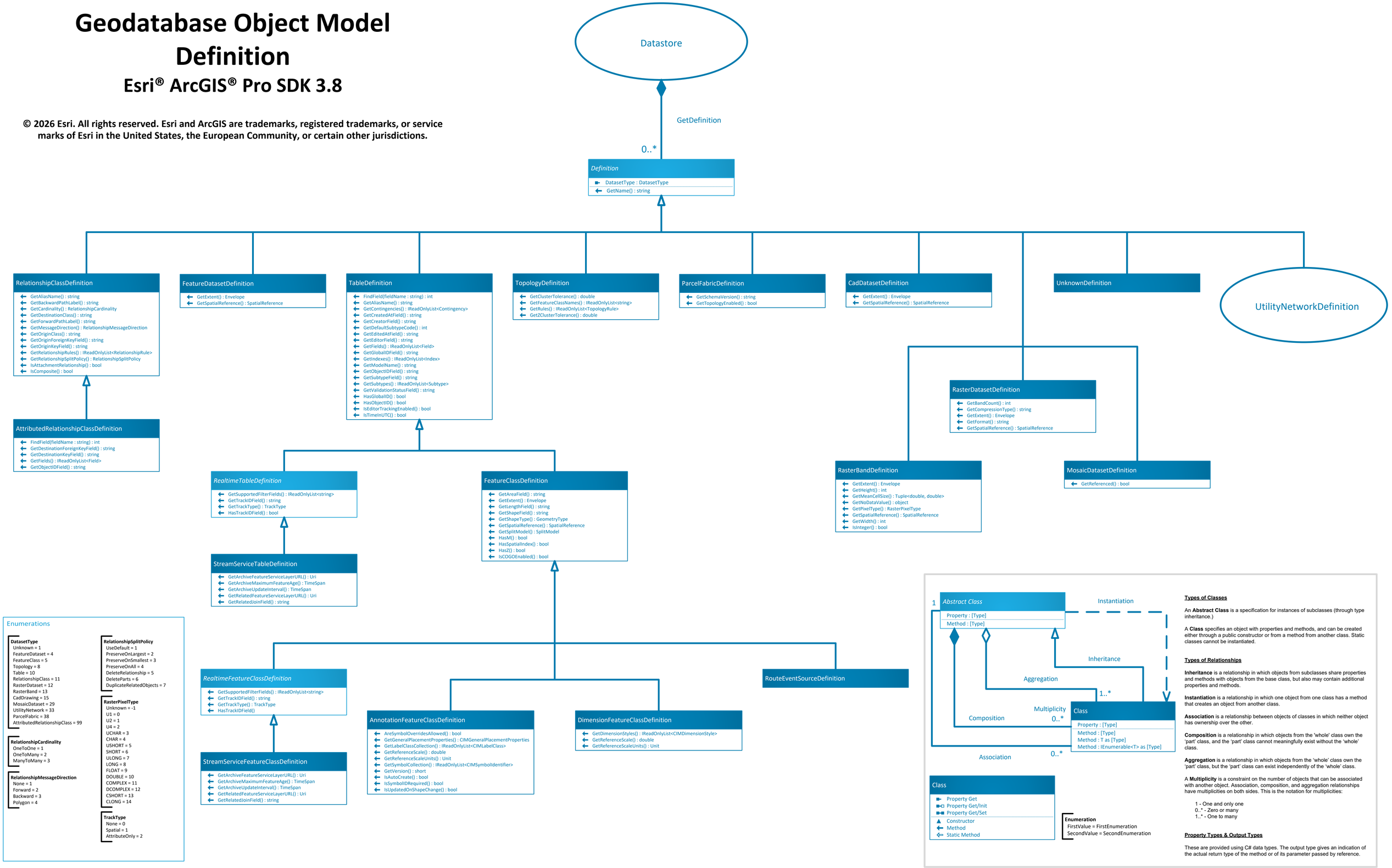

Enumerations

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

RelationshipCardinality
OneToOne = 1
OneToMany = 2
ManyToMany = 3

RelationshipMessageDirection
None = 1
Forward = 2
Backward = 3
Polygon = 4

RelationshipSplitPolicy
UseDefault = 1
PreserveOnLargest = 2
PreserveOnSmallest = 3
PreserveOnAll = 4
DeleteRelationship = 5
DeleteParts = 6
DuplicateRelatedObjects = 7

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

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.

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.

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Geodatabase
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Datastore

DatabaseClient
- ExecuteStatement(geodatabase : Geodatabase, statement : string)
- GetDatabaseConnectionProperties(file : DatabaseConnectionFile) : DatabaseConnectionProperties

Geodatabase
- Geodatabase(file : ArcGISServerConnectionFile)
- Geodatabase(file : DatabaseConnectionFile)
- Geodatabase(databaseConnectionProperties : DatabaseConnectionProperties)
- Geodatabase(connectionPath : FileGeodatabaseConnectionPath)
- Geodatabase(memoryConnectionProperties : MemoryConnectionProperties)
- Geodatabase(connectionPath : MobileGeodatabaseConnectionPath)
- Geodatabase(serviceConnectionProperties : ServiceConnectionProperties)
- ApplyEdits(action : Action)
- ApplyEdits(action : Action, isVersionedEditSession : bool)
- Evaluate(queryDef : QueryDef, useRecyclingCursor : bool = true) : RowCursor
- GetAttributeRuleManager() : AttributeRuleManager
- GetDefinition<T>(name : string) : T as Definition
- GetDefinitions<T>() : IReadOnlyList<T> as Definition
- GetDomains() : IReadOnlyList<Domain>
- GetGeodatabaseType() : GeodatabaseType
- GetRelatedDefinitions(definition : Definition, relationshipType : DefinitionRelationshipType) : IReadOnlyList<Definition>
- GetVersionManager() : VersionManager
- IsAttributeRuleSupported() : bool
- IsVersioningSupported() : bool
- OpenDataset<T>(name : string) : T as Dataset
- OpenQueryTable(queryTableDescription : QueryTableDescription) : Table
- OpenRelationshipClasses(originClass : string, destinationClass : string) : IReadOnlyList<RelationshipClass>
- OpenRelationshipClasses(originTable : Table, destinationTable : Table) : IReadOnlyList<RelationshipClass>

GetAttributeRuleManager

GetDomains

0..*

Domain
- MergePolicy : MergePolicy
- SplitPolicy : SplitPolicy
- GetDescription() : string
- GetFieldType() : FieldType
- GetName() : string

CodedValueDomain
- GetCodedValue(name : string) : object
- GetCodedValuePairs() : SortedList<object, string>
- GetCount() : int
- GetNameValue : object) : string

RangeDomain
- GetMaxValue() : object
- GetMinValue() : object

QueryTableDescription
- MakeCopy : bool
- Name : string
- PrimaryKeys : string
- QueryDef : QueryDef
- QueryTableDescription(queryDef : QueryDef)

1

QueryDef
- PostfixClause : string
- PrefixClause : string
- SubFields : string
- Tables : string
- WhereClause : string
- QueryDef()

AttributeRuleEvaluationDescription
- AttributeRuleType : AttributeRuleType
- Extent : Envelope
- Selections : IReadOnlyList<Selection>
- ServiceSynchronizationType : ServiceSynchronizationType
- VersionEvaluationScope : VersionEvaluationScope
- AttributeRuleEvaluationDescription(ruleType : AttributeRuleType, extent : Envelope)
- AttributeRuleEvaluationDescription(ruleType : AttributeRuleType, selections : IEnumerable<Selection>)
- AttributeRuleEvaluationDescription(ruleType : AttributeRuleType, versionEvaluationScope : VersionEvaluationScope)
- AttributeRuleEvaluationDescription(ruleType : AttributeRuleType, versionEvaluationScope : VersionEvaluationScope, extent : Envelope)

AttributeRuleManager
- CreateAttributeRuleError(errorFeature : Row) : AttributeRuleError
- Evaluate(description : AttributeRuleEvaluationDescription) : AttributeRuleEvaluationResult
- GetErrorTable(validationErrorType : ValidationErrorType) : Table
- IsEvaluationSupported() : bool
- UpdateErrors(validationErrors : IEnumerable<AttributeRuleError>)

CreateAttributeRuleError

Evaluate

AttributeRuleError
- ErrorType : ValidationErrorType
- IsException : bool
- OriginClass : string
- OriginGlobalID : Guid
- OriginObjectID : long

AttributeRuleEvaluationResult
- NumberOfErrors : long

Extensions

ArcGISCoreDataExtensions
- EvaluateInEditOperation(manager : this AttributeRuleManager, description : AttributeRuleEvaluationDescription) : AttributeRuleEvaluationResult
- UpdateErrorsInEditOperation(manager : this AttributeRuleManager, validationErrors : IEnumerable<AttributeRuleError>)

Enumerations

AnnotationStatus
Placed = 0
Unplaced = 1

AttributeRuleType
Calculation = 0
Constraint = 1
Validation = 2
All = 3

CaseSensitivity
Sensitive = 1
Insensitive = 2

ContingencyViolationType
Error = 1
Warning = 2

DefinitionRelationshipType
DatasetInFeatureDataset = 0
DatasetsRelatedThrough = 2
FeatureClassInUtilityNetwork = 16
TableInUtilityNetwork = 17

DifferenceType
Insert = 0
DeleteNoChange = 1
UpdateNoChange = 2
UpdateUpdate = 3
UpdateDelete = 4
DeleteUpdate = 5

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
BigInteger = 13
DateOnly = 14
TimeOnly = 15
TimestampOffset = 16

FullTextSearchType
Simple = 1
Prefix = 2

GeodatabaseType
FileSystem = 0
LocalDatabase = 1
RemoteDatabase = 2
Service = 3
Memory = 4

GeometryType
Unknown = 0
Point = 513
Envelope = 3077
GeometryBag = 3594
Multipoint = 8710
Polyline = 25607
Polygon = 27656
Multipatch = 32777

JoinDirection
Forward = 0
Backward = 1

JoinType
LeftOuterJoin = 0
InnerJoin = 1

MergePolicy
SumValues = 1
AreaWeighted = 2
DefaultValue = 3

MobileGeodatabaseType
Unknown = 0
MobileGeodatabase = 1
OfflineMobileGeodatabase = 2
MapPackageMobileGeodatabase = 3

RelationshipCardinality
OneToOne = 1
OneToMany = 2
ManyToMany = 3

RelationshipSplitPolicy
UseDefault = 1
PreserveOnLargest = 2
PreserveOnSmallest = 3
PreserveOnAll = 4
DeleteRelationship = 5
DeleteParts = 6
DuplicateRelatedObjects = 7

SearchOrder
Spatial = 0
Attribute = 1

SelectionOption
Normal = 1
OnlyOne = 2
Empty = 3

SelectionType
ObjectID = 3
GlobalID = 4

ServiceSynchronizationType
Synchronous = 0
Asynchronous = 1

SetOperation
Union = 1
Intersection = 2
Difference = 3
SymmetricDifference = 4

SortOrder
Ascending = 1
Descending = 2

SpatialRelationship
Undefined = 0
Intersects = 1
EnvelopeIntersects = 2
IndexIntersects = 3
Touches = 4
Overlaps = 5
Crosses = 6
Within = 7
Contains = 8,
Relation = 9

SplitModel
None = 0
UpdateInsert = 1
DeleteInsertInsert = 2

SplitPolicy
GeometryRatio = 1
Duplicate = 2
DefaultValue = 3

StatisticsFunction
Count = 0
Sum = 1
Min = 2
Max = 3
Average = 4
StandardDeviation = 5

SystemTableType
Records = 0
Points = 1
Connections = 2
AdjustmentPoints = 3
AdjustmentLines = 4
AdjustmentVectors = 5

ValidationErrorType
Object = 0
Point = 1
Line = 2
Polygon = 3

VersionEvaluationScope
EntireVersion = 0
ChangesInVersion = 1

OpenDataset
OpenRelationshipClasses

OpenDataset

OpenDataset

OpenDataset
OpenQueryTable

0..*

VirtualRelationshipClassDescription
- BackwardPathLabel : string
- Cardinality : RelationshipCardinality
- ForeignKeyInDestinationTable : Field
- ForwardPathLabel : string
- Name : string
- PrimaryKeyInOriginTable : Field
- VirtualRelationshipClassDescription(primaryKeyInOriginTable : Field, foreignKeyInDestinationTable : Field, cardinality : RelationshipCardinality)

RelationshipClass
- CreateRelationship(originRow : Row, destinationRow : Row) : Relationship
- DeleteRelationship(originRow : Row, destinationRow : Row)
- GetDefinition() : RelationshipClassDefinition
- GetFeatureDataset() : FeatureDataset
- GetID() : long
- GetRowsRelatedToDestinationRows(destinationObjectIDs : IEnumerable<long>) : IReadOnlyList<Row>
- GetRowsRelatedToOriginRows(originObjectIDs : IEnumerable<long>) : IReadOnlyList<Row>

CreateRelationship

ParcelFabric
- GetDefinition() : ParcelFabricDefinition
- GetParcelTopology() : Topology
- GetParcelTypeInfo() : IReadOnlyList<ParcelTypeInfo>
- GetSystemTable(systemTableType : SystemTableType) : Table
- IsSystemTableSupported(systemTableType : SystemTableType) : bool

GetParcelTypeInfo

0..*

ParcelTypeInfo
- IsAdministration : bool
- LineFeatureTable : Table
- Name : string
- PolygonFeatureTable : Table

FeatureDataset
- GetDefinition() : FeatureDatasetDefinition
- GetDefinition<T>(name : string) : T as Definition
- GetDefinitions<T>() : IReadOnlyList<T> as Definition
- GetExtent() : Envelope
- OpenDataset<T>(name : string) : T as Dataset

Table
- CalculateStatistics(tableStatisticsDescription : TableStatisticsDescription) : IReadOnlyList<TableStatisticsResult>
- CreateInsertCursor() : InsertCursor
- CreateRow(rowBuffer : RowBuffer) : Row
- CreateRowBuffer() : RowBuffer
- CreateRowBuffer(row : Row) : RowBuffer
- CreateRowBuffer(subtype : Subtype) : RowBuffer
- CreateUpdateCursor(queryFilter : QueryFilter, useRecyclingCursor : bool) : UpdateCursor
- DeleteRows(queryFilter : QueryFilter)
- Differences(targetTable : Table, differenceType : DifferenceType, queryFilter : QueryFilter = null) : DifferenceCursor
- Differences(targetTable : Table, differenceType : DifferenceType, queryFilter : QueryFilter, serviceSynchronizationType : ServiceSynchronizationType) : DifferenceCursor
- GetArchiveTable() : Table
- GetAttributeRules(attributeRuleType : AttributeRuleType = AttributeRuleType.All) : IReadOnlyList<AttributeRuleDefinition>
- GetContingentValues(rowBuffer : RowBuffer, fieldName : string) : IReadOnlyDictionary<FieldGroup, IReadOnlyList<ContingentValue>>
- GetControllerDatasets() : IReadOnlyList<Dataset>
- GetCount() : long
- GetCount(queryFilter : QueryFilter) : long
- GetDefinition() : TableDefinition
- GetID() : long
- GetJoin() : Join
- IsArchiveEnabled() : bool
- IsAttachmentEnabled() : bool
- IsControllerDatasetSupported() : bool
- IsJoinedTable() : bool
- RelateTo(destinationTable : Table, description : VirtualRelationshipClassDescription) : RelationshipClass
- Search(queryFilter : QueryFilter = null, useRecyclingCursor : bool = true) : RowCursor
- Select(queryFilter : QueryFilter, selectionType : SelectionType, selectionOption : SelectionOption) : Selection
- SortTableSortDescription : TableSortDescription) : RowCursor
- Validate(rows : IEnumerable<Row>) : IReadOnlyDictionary<long, string>
- Validate(filter : QueryFilter) : IReadOnlyDictionary<long, string>
- Validate(selection : Selection) : IReadOnlyDictionary<long, string>
- ValidateContingencies(rowBuffer : RowBuffer) : ContingencyValidationResult

JoinDescription
- ErrorOnFailureToProcessJoinOnServerSide : bool
- JoinDirection : JoinDirection
- JoinType : JoinType
- QueryFilter : QueryFilter
- RelationshipClass : RelationshipClass
- Selection : Selection
- TargetFields : IReadOnlyList<Field>
- JoinDescription(relationshipClass : RelationshipClass)

1

3

Join
- IsJoinPerformedOnClientSide : bool
- JoinType : JoinType
- JoinJoinDescription : JoinDescription)
- FindFieldIgnoreQualification(fieldName : string) : int
- GetDestinationTable() : Table
- GetJoinedTable() : Table
- GetJoinOptions() : Table
- GetRelationshipClass() : RelationshipClass
- GetTableAssociatedWithField(field : Field) : Table

QueryFilter
- FullTextExpression : FullTextExpression
- ObjectIDs : IReadOnlyList<long>
- Offset : int
- OutputSpatialReference : SpatialReference
- PostfixClause : string
- PrefixClause : string
- RowCount : int
- SubFields : string
- WhereClause : string
- QueryFilter()

SpatialQueryFilter
- FilterGeometry : Geometry
- SearchOrder : SearchOrder
- SpatialRelationship : SpatialRelationship
- SpatialRelationshipDescription : string
- SpatialQueryFilter()

FullTextExpression

FullTextAndExpression
- LeftExpression : FullTextExpression
- RightExpression : FullTextExpression
- FullTextAndExpression(left : FullTextExpression, right : FullTextExpression)

FullTextOrExpression
- LeftExpression : FullTextExpression
- RightExpression : FullTextExpression
- FullTextOrExpression(left : FullTextExpression, right : FullTextExpression)

FullTextSearchTermExpression
- SearchFields : string
- SearchTerm : string
- SearchType : FullTextSearchType
- FullTextSearchTermExpression()

FullTextSqlExpression
- WhereClause : string
- FullTextSqlExpression()

TableSortDescription
- QueryFilter : QueryFilter
- SortDescriptions : IReadOnlyList<SortDescription>
- TableSortDescription(sortDescriptions : IEnumerable<SortDescription>)

1..*

SortDescription
- CaseSensitivity : CaseSensitivity
- Field : Field
- SortOrder : SortOrder
- SortDescription(field : Field)

CreateRowBuffer

CreateRow

Select

CalculateStatistics

RowBuffer
- Item(index : int) : object
- Item(fieldName : string) : object
- FindField(fieldName : string) : int
- GetFields() : IReadOnlyList<Field>

Row
- Item(index : int) : object
- Item(fieldName : string) : object
- AddAttachment(attachment : Attachment) : long
- Delete()
- DeleteAttachments(attachmentIDs : IEnumerable<long> = null) : IReadOnlyDictionary<long, Exception>
- FindField(fieldName : string) : int
- GetAttachments(attachmentIDs : IEnumerable<long> = null, infoOnly : bool = false) : IReadOnlyList<Attachment>
- GetFields() : IReadOnlyList<Field>
- GetGlobalID() : Guid
- GetObjectID() : long
- GetOriginalValue(index : int) : object
- GetTable() : Table
- HasValueChanged(index : int) : bool
- UpdateAttachment(attachment : Attachment)

Search
Sort

CreateInsertCursor

RowCursor
- Current : Row
- FindField(fieldName : string) : int
- GetFields() : IReadOnlyList<Field>
- MoveNext() : bool

InsertCursor
- Flush()
- Insert(rowBuffer : RowBuffer) : long

Selection
- SelectionType : SelectionType
- Add(globalIDs : IEnumerable<Guid>)
- Add(objectIDs : IEnumerable<long>)
- Combine(otherSelection : Selection, setOperation : SetOperation) : Selection
- GetCount() : long
- GetGlobalIDs() : IReadOnlyList<Guid>
- GetObjectIDs() : IReadOnlyList<long>
- Remove(globalIDs : IEnumerable<Guid>)
- Remove(objectIDs : IEnumerable<long>)
- Search(queryFilter : QueryFilter = null, useRecyclingCursor : bool = true) : RowCursor
- Search(queryFilter : QueryFilter = null, selectionOption : SelectionOption = SelectionOption.Normal) : Selection

TableStatisticsResult
- GroupBy : IReadOnlyList<KeyValuePair<Field, object>>
- StatisticsResults : IReadOnlyList<StatisticsResult>

1..*

StatisticsResult
- Average : double
- Count : long
- Field : Field
- Max : double
- Min : double
- StandardDeviation : double
- Sum : double

GetAttachments

1

Attachment
- Attachment()
- Attachment(name : string, contentType : string, data : MemoryStream)
- GetAttachmentID() : long
- GetContentType() : string
- GetData() : MemoryStream
- GetGlobalID() : Guid
- GetName() : string
- GetParentGlobalID() : Guid
- GetParentID() : long
- GetSize() : int
- SetContentType(contentType : string)
- SetData(data : MemoryStream)
- SetName(attachmentName : string)

Differences

CreateUpdateCursor

DifferenceCursor
- Current : Row
- ObjectID : long
- MoveNext() : bool

UpdateCursor
- Current : Row
- MoveNext() : bool
- Update(row : Row)

TableStatisticsDescription
- GroupBy : IReadOnlyList<Field>
- OrderBy : IReadOnlyList<SortDescription>
- QueryFilter : QueryFilter
- StatisticsDescriptions : IReadOnlyList<StatisticsDescription>
- TableStatisticsDescription(statisticsDescriptions : IEnumerable<StatisticsDescription>)

1..*

StatisticsDescription
- Field : Field
- StatisticsFunctions : IReadOnlyList<StatisticsFunction>
- StatisticsDescription(field : Field, functions : IEnumerable<StatisticsFunction>)

FeatureClass
- CreateRow(featureBuffer : RowBuffer) : Feature
- GetDefinition() : FeatureClassDefinition
- GetExtent() : Envelope
- GetFeatureDataset() : FeatureDataset
- IsFeatureCacheSupported() : bool

CreateRow

Feature
- GetShape() : Geometry
- GetTable() : FeatureClass
- SetShape(shape : Geometry)
- Split(splitGeometry : Geometry)

AnnotationFeatureClass
- CreateRow(featureBuffer : RowBuffer) : AnnotationFeature
- GetDefinition() : AnnotationFeatureClassDefinition

DimensionFeatureClass
- CreateRow(featureBuffer : RowBuffer) : DimensionFeature
- GetDefinition() : DimensionFeatureClassDefinition

CreateRow

DimensionFeature
- GetCustomLength() : double
- GetDimensionExtensionOption() : DimensionPartOptions
- GetDimensionLineOption() : DimensionPartOptions
- GetDimensionMarkerOption() : DimensionPartOptions
- GetDimensionShape() : CIMDimensionShape
- GetDimensionType() : DimensionType
- GetLength() : double
- GetStyleID() : int
- GetUseCustomLength() : bool
- SetCustomLength(length : double)
- SetDimensionExtensionOption(option : DimensionPartOptions)
- SetDimensionLineOption(option : DimensionPartOptions)
- SetDimensionMarkerOption(option : DimensionPartOptions)
- SetDimensionShape(dimensionShape : CIMDimensionShape)
- SetDimensionType(dimensionType : DimensionType)
- SetStyleID(styleID : int)
- SetUseCustomLength(useCustomLength : bool)

AnnotationFeature
- GetAnnotationClassID() : int
- GetGraphic() : CIMGraphic
- GetGraphicOutline() : Geometry
- GetLinkedFeatureID() : object
- GetStatus() : AnnotationStatus
- SetAnnotationClassID(annotationClassID : long)
- SetGraphic(graphic : CIMGraphic)
- SetLinkedFeatureID(linkedFeatureID : object)
- SetStatus(status : AnnotationStatus)

CreateRow

TableDefinition.GetFields

TableDefinition.GetSubtypes

TableDefinition.GetAttributeRules

TableDefinition.GetIndexes

0..*

1..*

Field
- AliasName : string
- FieldType : FieldType
- HasDefaultValue : bool
- IsDomainFixed : bool
- IsEditable : bool
- IsNullable : bool
- IsRequired : bool
- Length : int
- ModelName : string
- Name : string
- Precision : int
- Scale : int
- GetDefaultValue(subtype : Subtype = null) : object
- GetDomain(subtype : Subtype = null) : Domain

AttributeRuleTriggers
- Delete : bool
- Insert : bool
- Update : string

AttributeRuleDefinition
- GetAttributeRuleType() : AttributeRuleType
- GetDescription() : string
- GetErrorMessage() : string
- GetErrorNumber() : int
- GetEvaluationOrder() : int
- GetExcludeFromClientEvaluation() : bool
- GetFieldName() : string
- GetIsBatch() : bool
- GetIsEnabled() : bool
- GetIsFieldEditable() : bool
- GetMinimumArcadeVersion() : string
- GetName() : string
- GetScriptExpression() : string
- GetSeverity() : int
- GetSubtype() : Subtype
- GetTags() : IReadOnlyList<string>
- GetTriggeringEvents() : AttributeRuleTriggers

Subtype
- GetCode() : int
- GetName() : string

Index
- FindField(fieldName : string) : int
- GetFields() : IReadOnlyList<Field>
- GetName() : string
- IsAscending() : bool
- IsFullText() : bool
- IsUnique() : bool

TableDefinition.GetContingencies

ValidateContingencies

Contingency
- FieldGroup : FieldGroup
- ID : int
- IsRetired : bool
- Subtype : Subtype
- GetContingentValues() : IReadOnlyDictionary<string, ContingentValue>

ContingencyValidationResult
- Matches : IReadOnlyList<Contingency>
- Violations : IReadOnlyList<ContingencyViolation>

0..*

ContingencyViolation
- Contingency : Contingency
- Type : ContingencyViolationType

GetContingentValues

FieldGroup
- FieldNames : IReadOnlyList<string>
- IsRestrictive : bool
- Name : string

ContingentValue

ContingentNullValue

ContingentAnyValue

ContingentCodedValue
- CodedValue : object
- Name : string

ContingentRangeValue
- Max : object
- Min : object

Abstract Class
- Property : [Type]
- Method : [Type]

Instantiation

Inheritance

Aggregation

Multiplicity

Composition

Association

Class
- Property : [Type]
- Method : [Type]
- Method : T as [Type]
- Method : IEnumerable<T> as [Type]

Class
- Property Get
- Property Get/Init
- Property Get/Set
- Constructor
- Method
- Static Method

Enumeration
FirstValue = FirstEnumeration
SecondValue = SecondEnumeration

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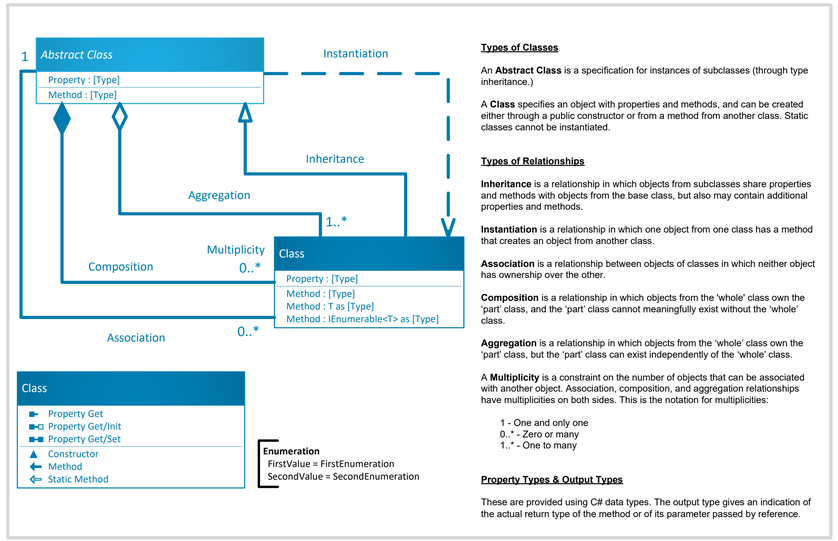

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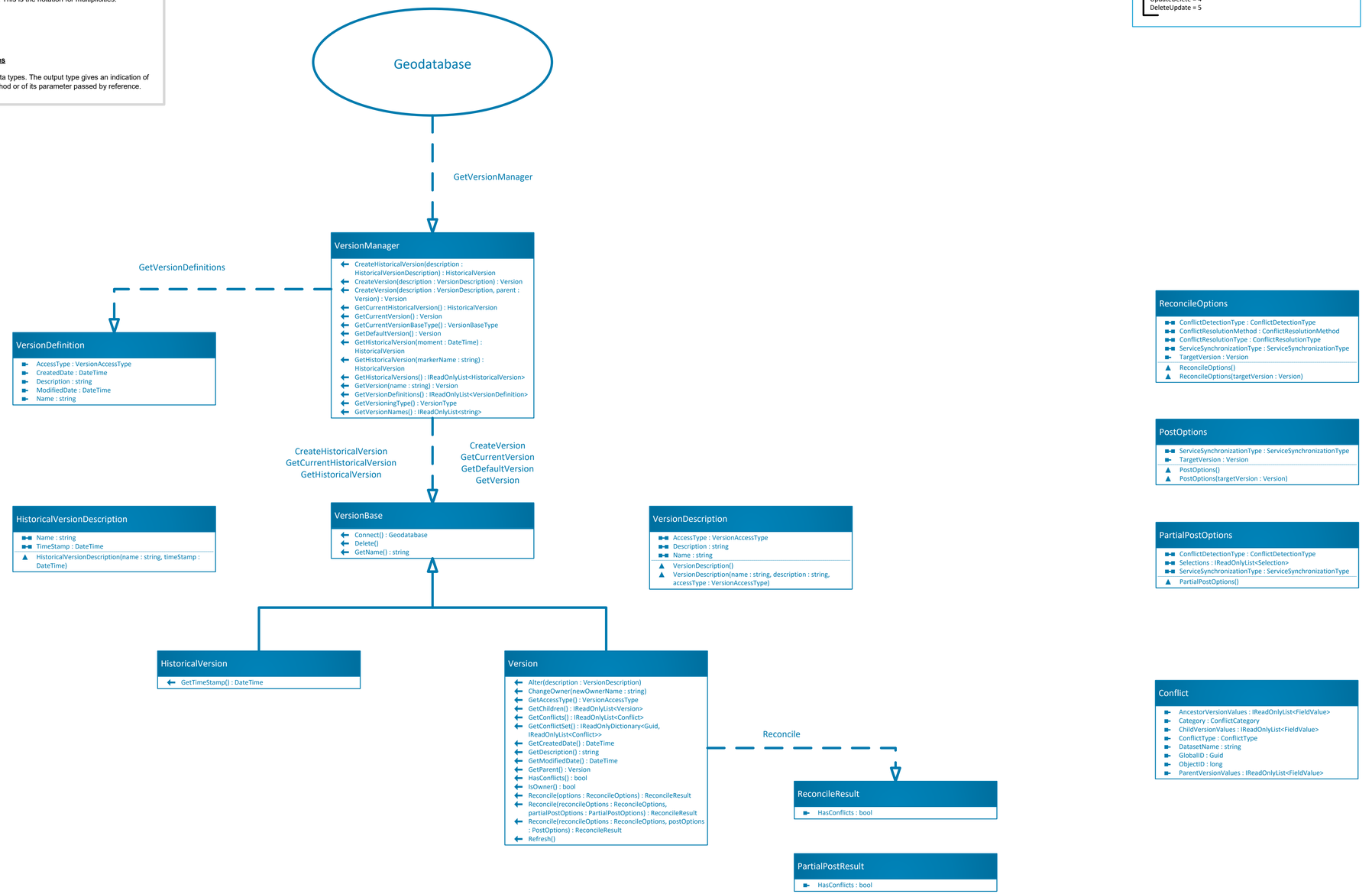

Enumerations

ConflictCategory
None = 0
Row = 1
Attribute = 2
Relational = 3
Container = 4
Contents = 5

ConflictDetectionType
ByRow = 0
ByColumn = 1

ConflictResolutionMethod
Abort = 0
Continue = 1

ConflictResolutionType
FavorTargetVersion = 0
FavorEditVersion = 1

ConflictType
UpdateUpdate = 3
UpdateDelete = 4
DeleteUpdate = 5

ServiceSynchronizationType
Synchronous = 0
Asynchronous = 1

VersionAccessType
Private = 0
Public = 1
Protected = 2

VersionBaseType
Version = 0
HistoricalVersion = 1

VersionType
Traditional = 0
Branch = 1

Geodatabase Object Model DDL

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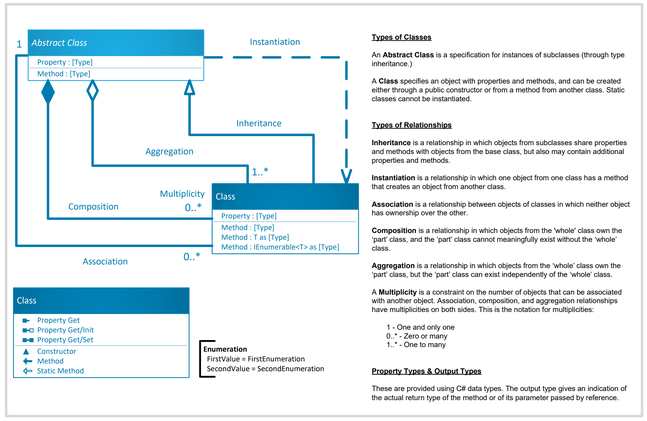

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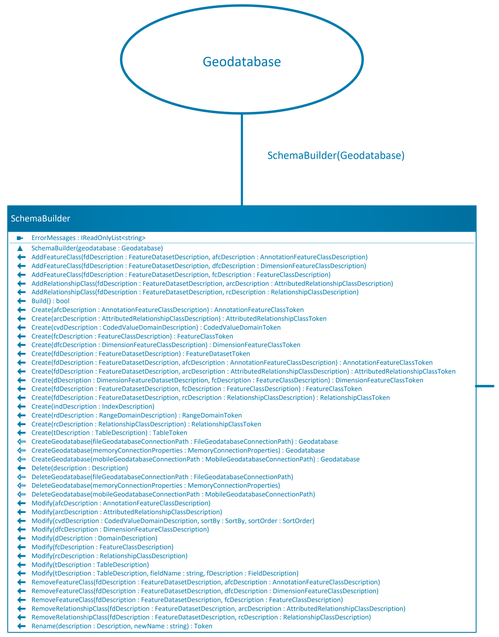

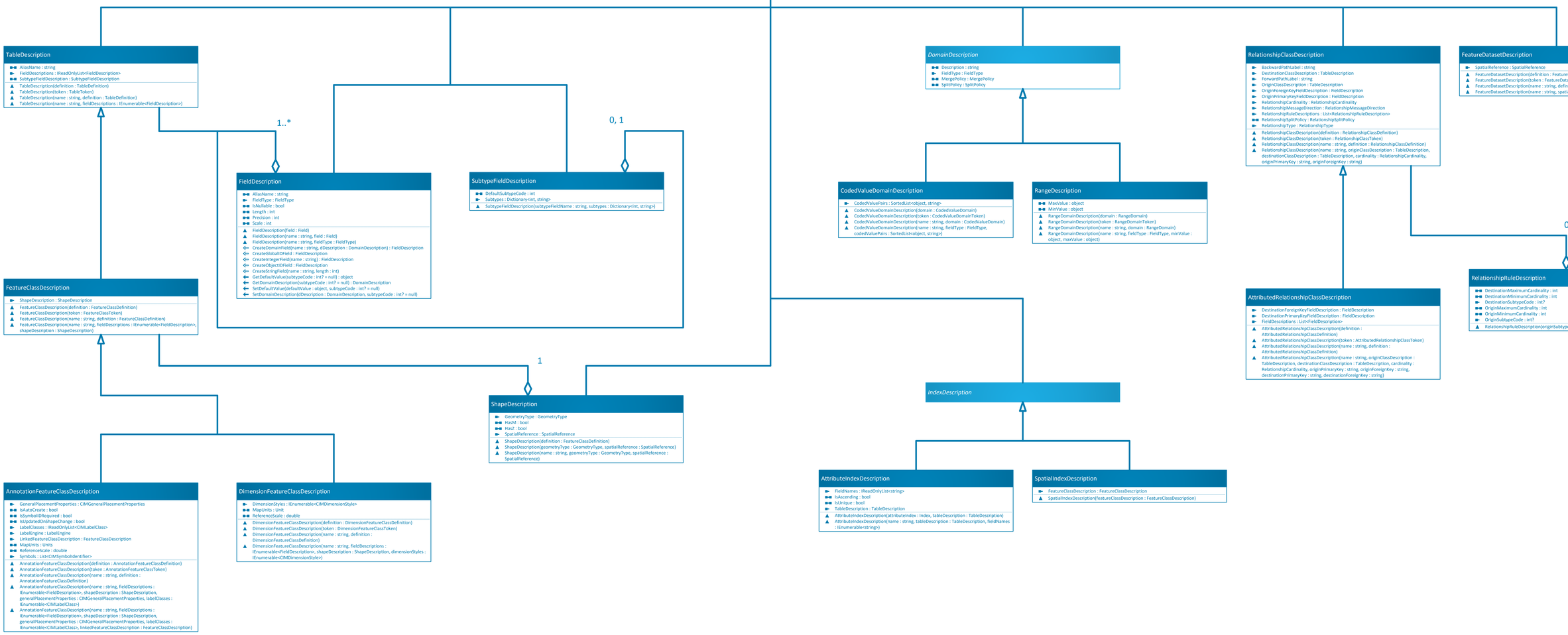

Geodatabase Object Model
Topology
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Enumerations

ErrorType
- ErrorOnly = 0
- ExceptionOnly = 1
- ErrorAndException = 2

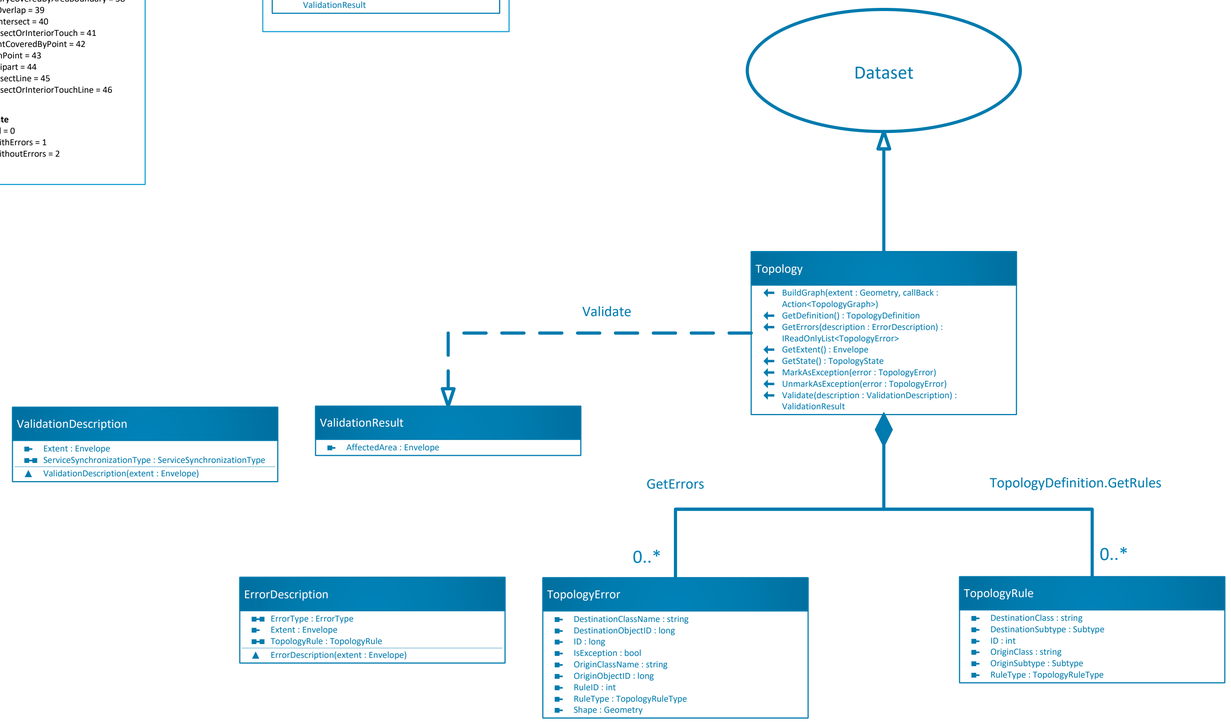
ServiceSynchronizationType
- Synchronous = 0
- Asynchronous = 1

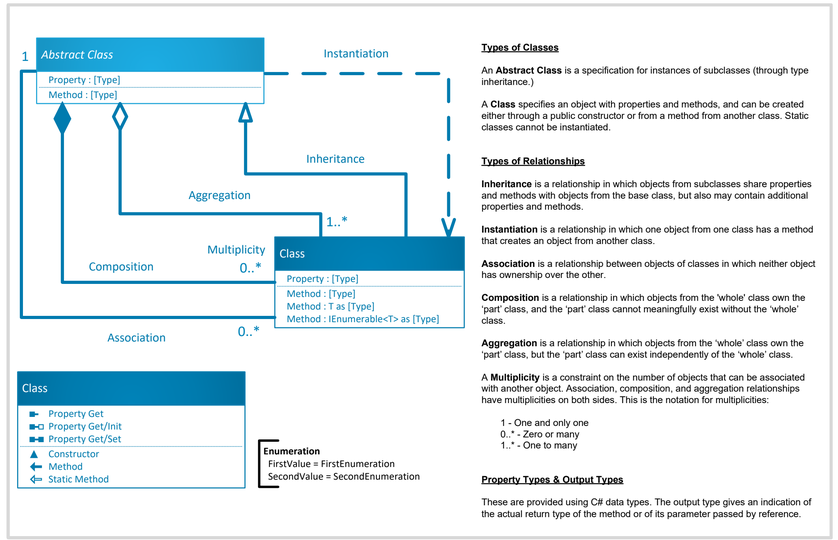
TopologyRuleType
- FeatureLargerThanClusterTolerance = 0
- AreaNoGaps = 1
- AreaNoOverlap = 3
- AreaCoveredByAreaClass = 4
- AreaAreaCoverEachOther = 5
- AreaCoveredByArea = 7
- AreaNoOverlapArea = 8
- LineCoveredByAreaBoundary = 10
- LineInsideArea = 11
- PointCoveredByAreaBoundary = 13
- PointProperlyInsideArea = 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





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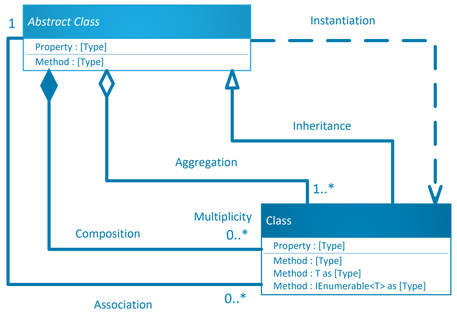

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Geodatabase Object Model
Raster
Esri® ArcGIS® Pro SDK 3.8

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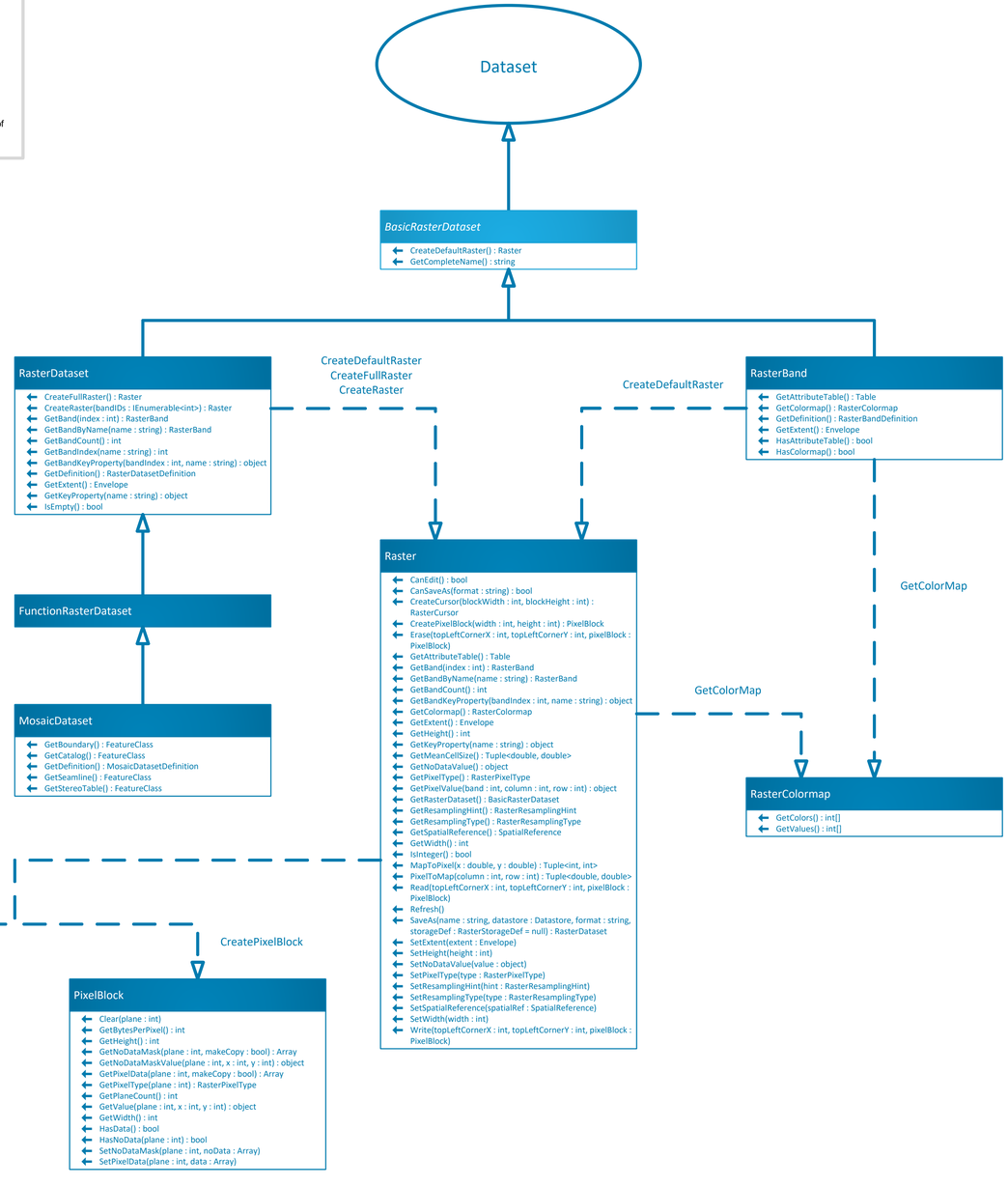


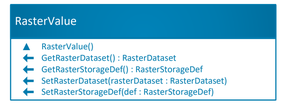
Enumerations

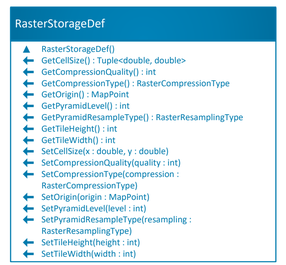
RasterCompressionType
Unknown = -1
Uncompressed = 0
LZ77 = 1
JPEG = 2
JPEG2000 = 4
PackBits = 5
LZW = 6
RLE = 7
CCITTG3 = 8
CCITTG4 = 9
CCITTRLE = 10
JPEGYCbCr = 11
LERC = 12

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

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





Geodatabase Object Model Plugin

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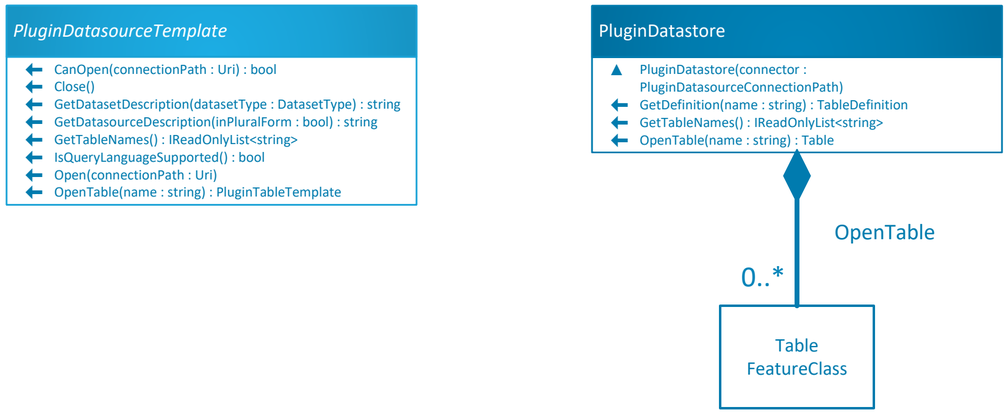

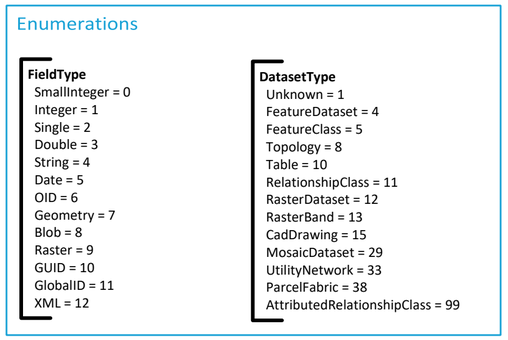

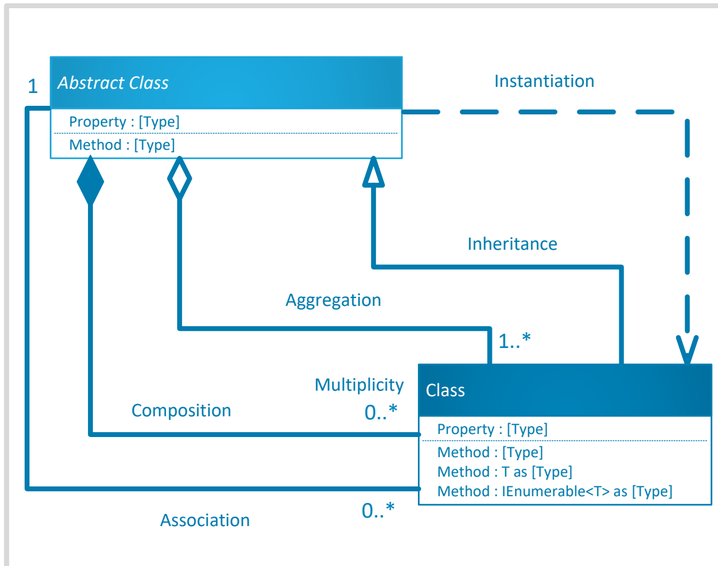

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Geodatabase Object Model
Realtime
Esri® ArcGIS® Pro SDK 3.8

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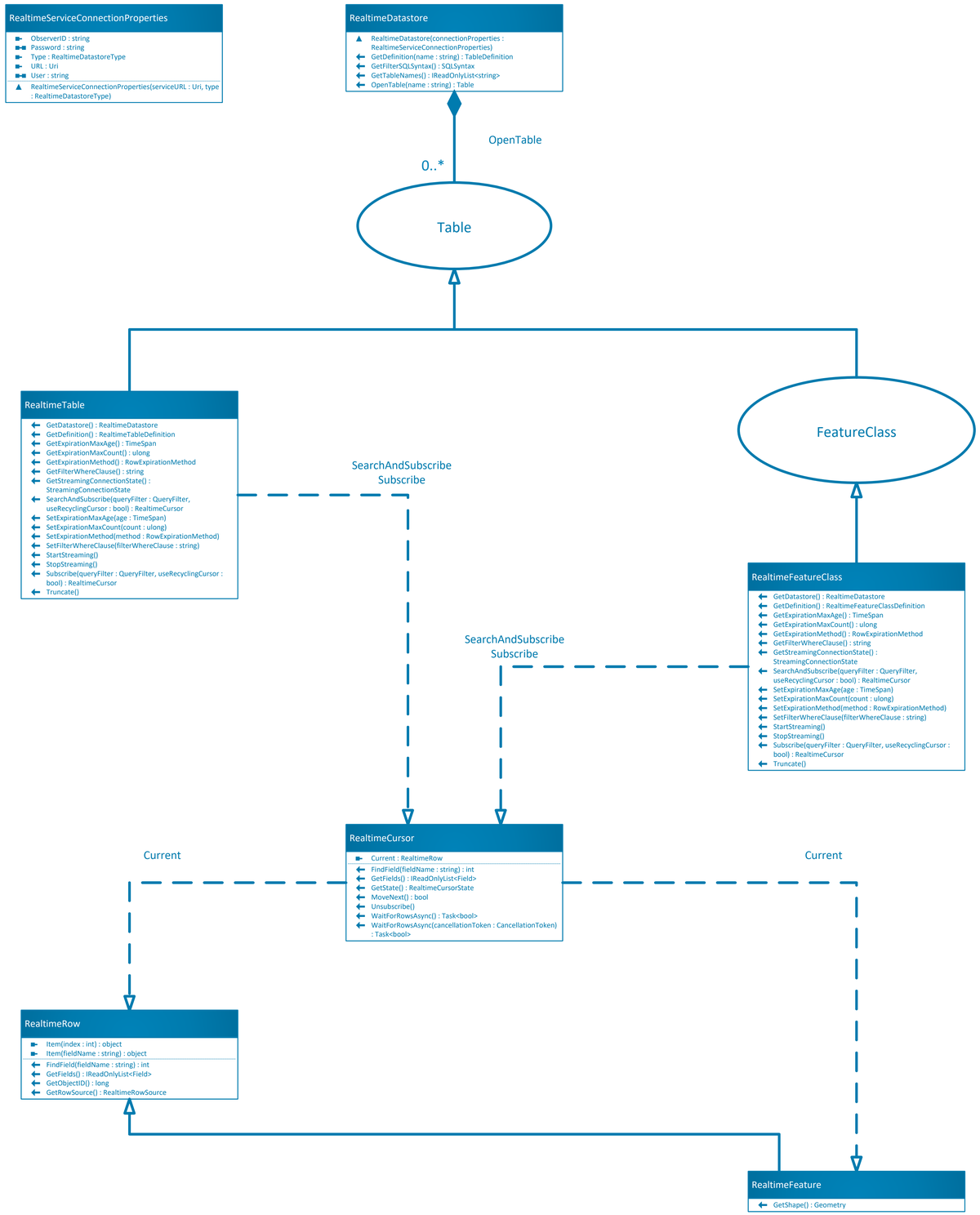

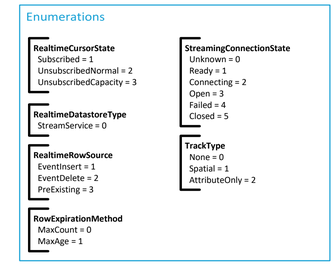

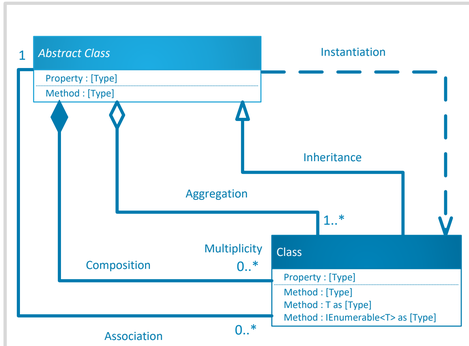

Enumeration
FirstValue = FirstEnumeration
SecondValue = SecondEnumeration

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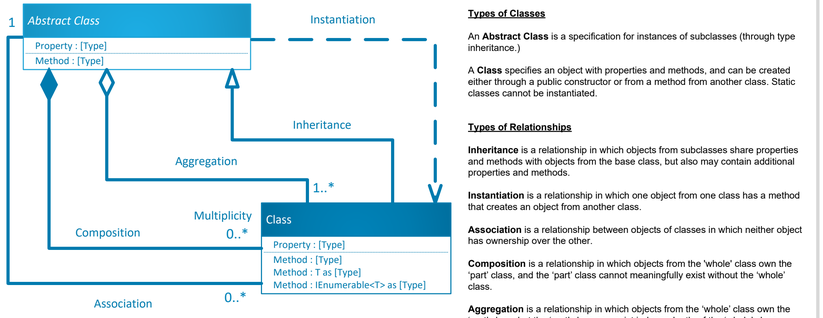

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Geodatabase Object Model
Linear Referencing
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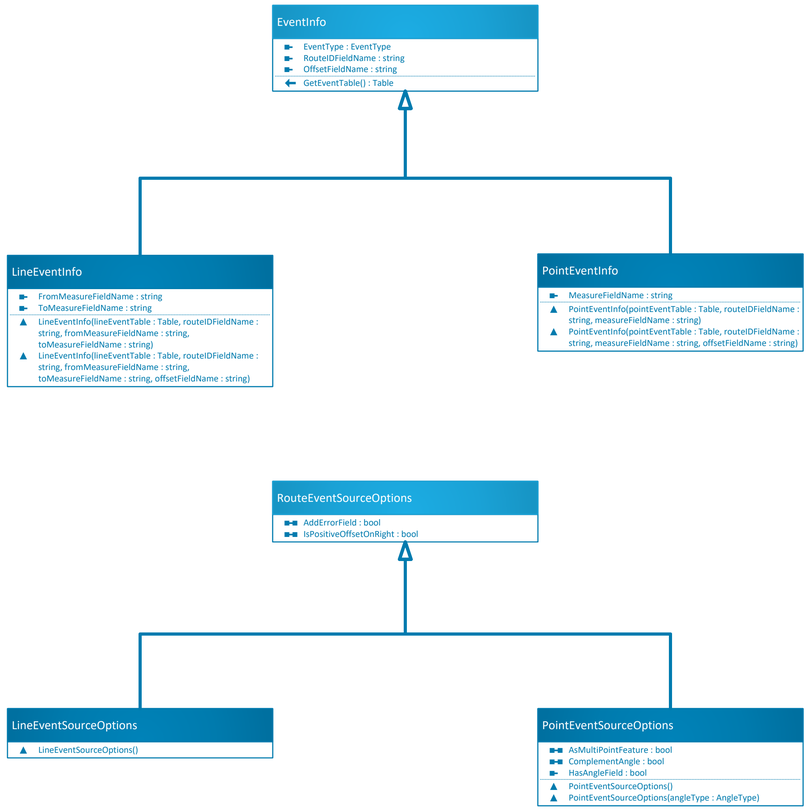
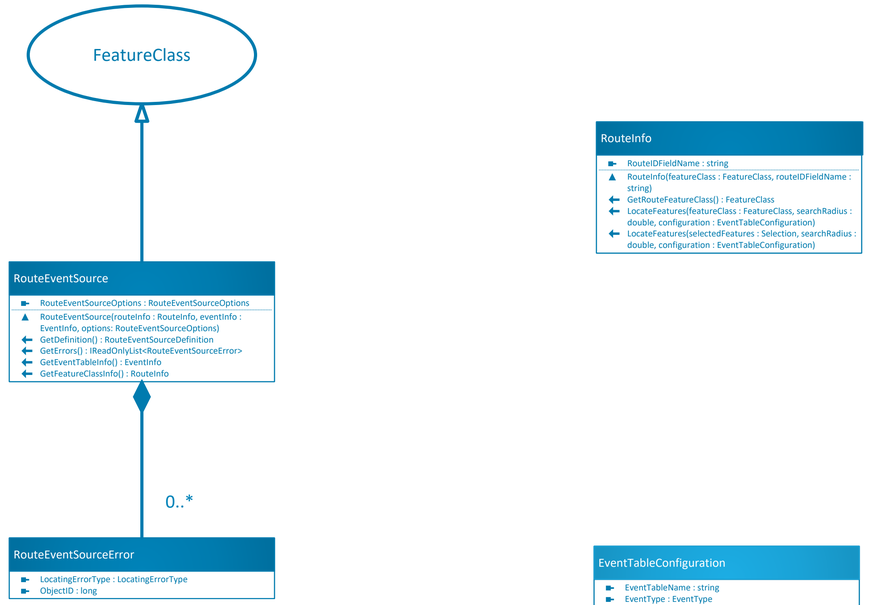
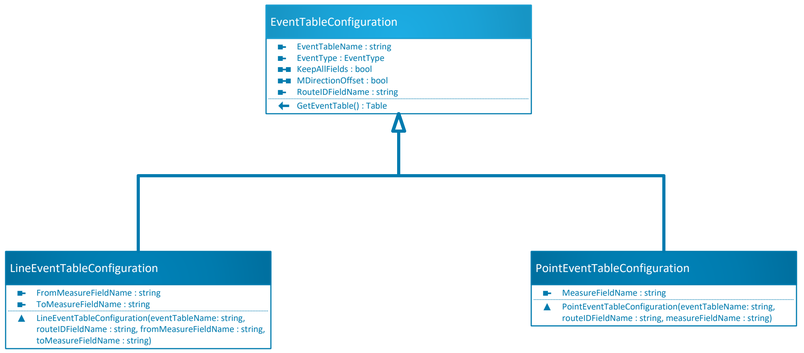
Enumerations

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