

## Geodatabase Object Model Definition

ESRI® ArcGIS® Pro SDK 2.8

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Definition GetDefinition Dataset DatasetType : DatasetType ← GetName(): string elationshipClassDefinition ableDefinition eatureDatasetDefinition TopologyDefinition JnknownDefinition | FindField(fieldName : string) : int GetAliasName(): string UtilityNetworkDefinition GetExtent(): Envelope ← GetClusterTolerance() : double GetAliasName(): string GetCardinality(): RelationshipCardinality GetSpatialReference(): SpatialReference GetFeatureClassNames() : IReadOnlyList<string> in Utility Network OMD GetCreatedAtField(): string GetDestinationClass(): string GetRules(): IReadOnlyList<TopologyRule> GetCreatorField(): string GetOriginClass(): string ← GetZClusterTolerance() : double GetDefaultSubtypeCode():int GetOriginForeignKeyField(): string ← GetEditedAtField(): string GetOriginKeyField(): string GetRelationshipSplitPolicy(): RelationshipSplitPolicy ← GetEditorField(): string ← IsAttachmentRelationship(): bool GetFields(): IReadOnlyList<Field> GetGlobalIDField(): string ← IsComposite(): bool GetIndexes(): IReadOnlyList<Index> ← GetModelName(): string GetObjectIDField(): string GetSubtypeField(): string GetSubtypes(): IReadOnlyList<Subtype> GetValidationStatusField(): string ← HasGlobalID(): bool ← HasObjectID(): bool ← IsEditorTrackingEnabled(): bool ← IsTimeInUTC(): bool RasterBandDefinition MosaicDatasetDefinition Raster Dataset Definition ← GetReferenced(): bool GetExtent(): Envelope GetBandCount(): int GetHeight(): int GetCompressionType(): string GetMeanCellSize() : Tuple < double, double > ← GetExtent() : Envelope GetNoDataValue() : object GetFormat(): string GetSpatialReference(): SpatialReference GetPixelType() : RasterPixelType GetSpatialReference(): SpatialReference GetWidth(): int RealtimeTableDefinition IsInteger(): bool Attributed Relationship Class Definition GetSupportedFilterFields(): IReadOnlyList<string> FindField(fieldName : string) : int GetTrackIDField(): string GetDestinationForeignKeyField(): string GetTrackType(): TrackType GetDestinationKeyField(): string HasTrackIDField(): bool GetFields(): IReadOnlyList<Field> GetObjectIDField(): string Feature Class Definition StreamServiceTableDefinition ← GetAreaField(): string GetArchiveFeatureServiceLayerURL(): Uri GetArchiveMaximumFeatureAge(): TimeSpan ← GetExtent() : Envelope GetArchiveUpdateInterval(): TimeSpan GetLengthField(): string GetShapeField(): string GetRelatedFeatureServiceLayerURL(): Uri GetShapeType(): GeometryType GetRelatedJoinField(): string GetSpatialReference(): SpatialReference GetSplitModel(): SplitModel ← HasM(): bool HasZ(): bool ← IsCOGOEnabled(): bool Types of Classes Abstract Class Instantiation An **Abstract Class** is a specification for instances of subclasses (through type Property: [Type] Method: [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 classes cannot be instantiated. RealtimeFeatureClassDefinition Annotation Feature Class Definition Dimension Feature Class Definition Inheritance Types of Relationships GetSupportedFilterFields(): IReadOnlyList<string> AreSymbolOverridesAllowed(): bool GetDimensionStyles(): **Inheritance** is a relationship in which objects from subclasses share properties GetTrackIDField(): string GetGeneralPlacementProperties(): IReadOnlyList<CIMDimensionStyle> and methods with objects from the base class, but also may contain additional GetTrackType() : TrackType CIMGeneralPlacementProperties GetReferenceScale(): double Aggregation GetReferenceScaleUnits(): Unit HasTrackIDField() GetLabelClassCollection(): IReadOnlyList<CIMLabelClass> **Instantiation** is a relationship in which one object from one class has a method GetReferenceScale(): double that creates an object from another class. Multiplicity Class GetReferenceScaleUnits(): Unit GetSymbolCollection(): **Association** is a relationship between objects of classes in which neither object Composition IReadOnlyList<CIMSymbolIdentifier> has ownership over the other. Property: [Type] GetVersion(): short Method: [Type] **Composition** is a relationship in which objects from the 'whole' class own the ← IsAutoCreate() : bool Method: T as [Type] 'part' class, and the 'part' class cannot meaningfully exist without the 'whole' IsSymbolIDRequired(): bool StreamServiceFeatureClassDefinition Method: IEnumerable<T> as [Type] ← IsUpdatedOnShapeChange(): bool Association GetArchiveFeatureServiceLayerURL(): Uri **Aggregation** is a relationship in which objects from the 'whole' class own the GetArchiveMaximumFeatureAge(): TimeSpan 'part' class, but the 'part' class can exist independently of the 'whole' class. GetArchiveUpdateInterval(): TimeSpan A **Multiplicity** is a constraint on the number of objects that can be associated GetRelatedFeatureServiceLayerURL(): Uri with another object. Association, composition, and aggregation relationships GetRelatedJoinField(): string have multiplicities on both sides. This is the notation for multiplicities: Property Get 1 - One and only one Property Set 0..\* - Zero or many ■■ Property Get/Set 1..\* - One to many Enumeration ▲ Constructor FirstValue = FirstEnumeration Method SecondValue = SecondEnumeration ← Static Method **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.







