# GISClient Object Model

ESRI® ArcGIS® 9.2

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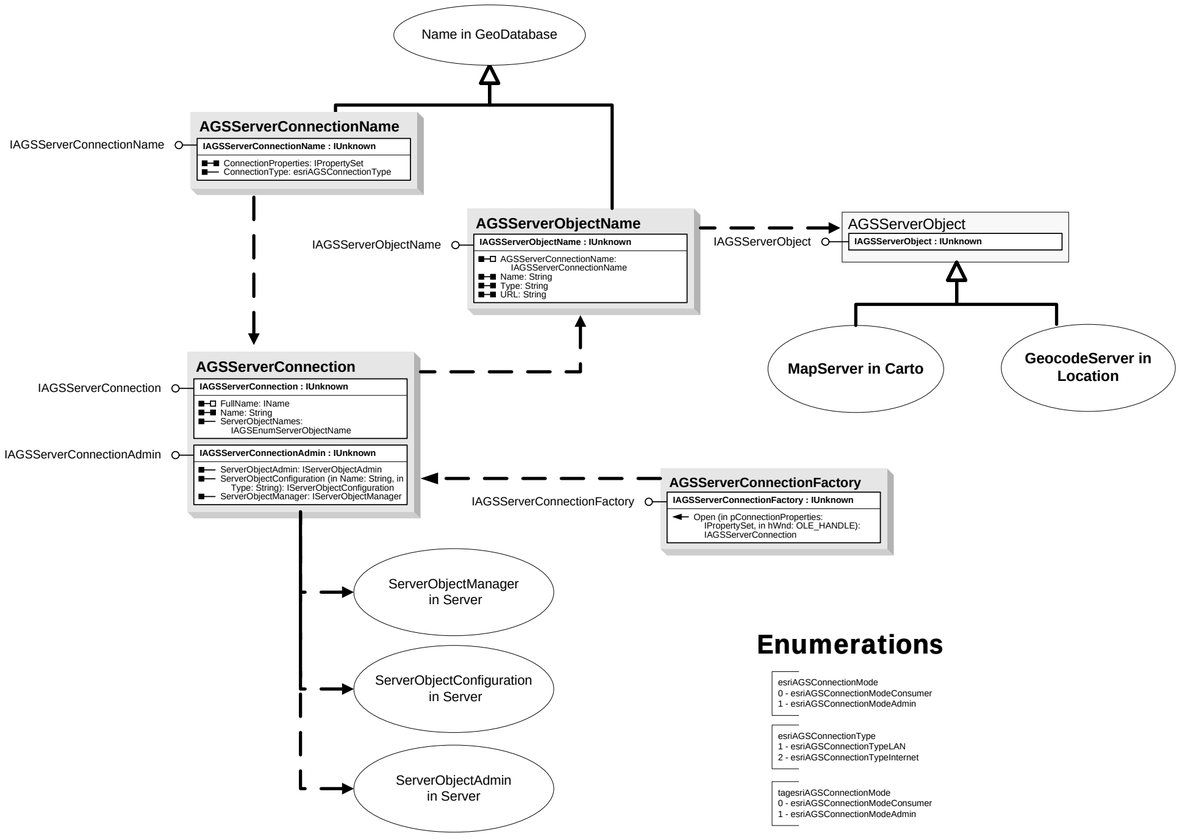
## ArcGIS Server Client Object Model



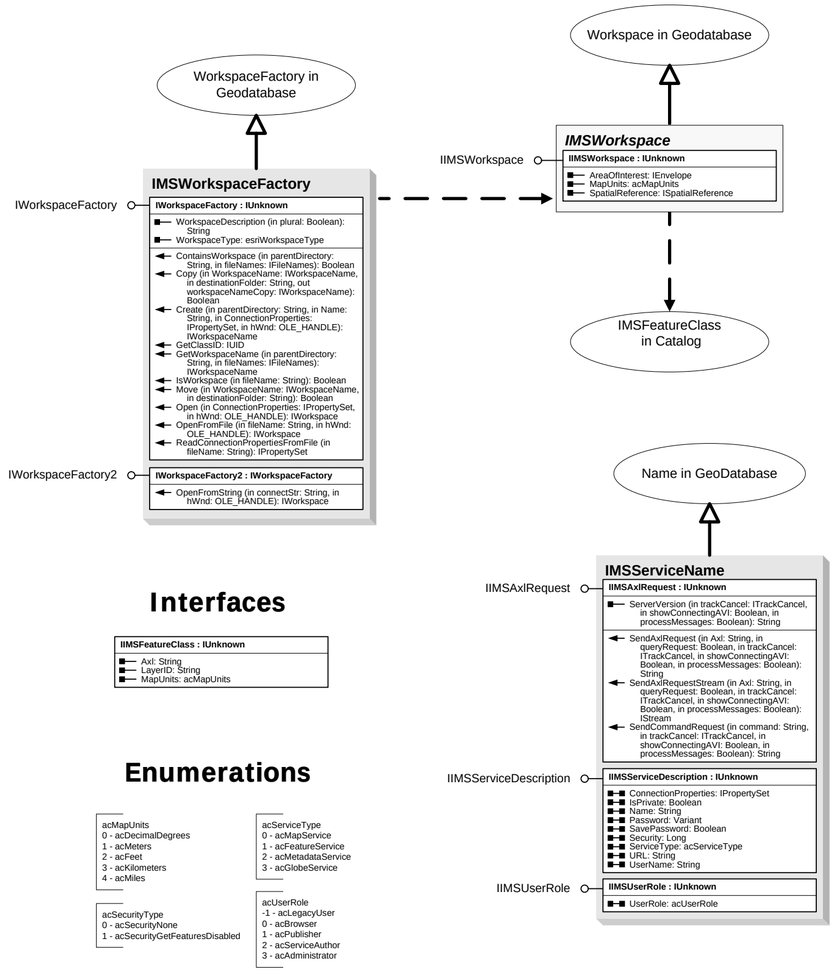

### Enumerations

esriAGSConnectionMode
0 - esriAGSConnectionModeConsumer
1 - esriAGSConnectionModeAdmin

esriAGSConnectionType
1 - esriAGSConnectionTypeLAN
2 - esriAGSConnectionTypeInternet

tagesriAGSConnectionMode
0 - esriAGSConnectionModeConsumer
1 - esriAGSConnectionModeAdmin

## ArcIMS Client Object Model




### Interfaces

IIMSFeatureClass : IUnknown
Axl: String
LayerID: String
MapUnits: acMapUnits

### Enumerations

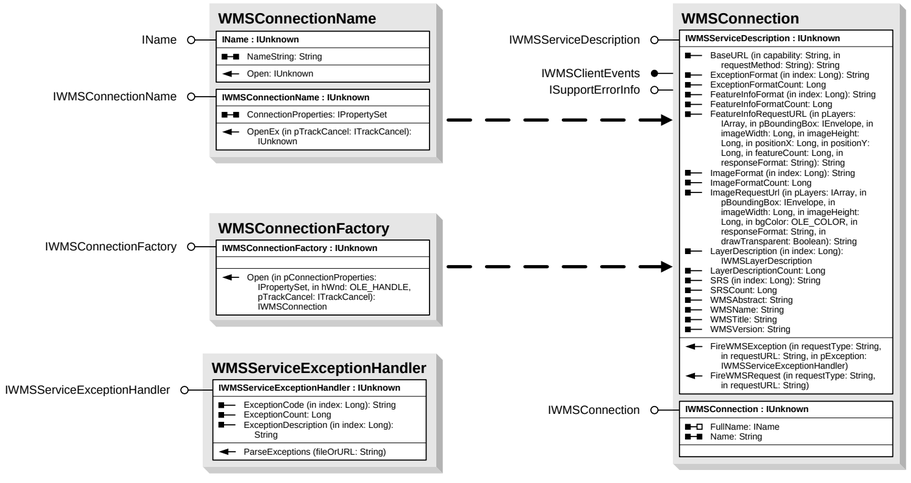
acMapUnits
0 - acDecimalDegrees
1 - acMeters
2 - acFeet
3 - acKilometers
4 - acMiles

acServiceType
0 - acMapService
1 - acFeatureService
2 - acMetadataService
3 - acGlobeService

acSecurityType
0 - acSecurityNone
1 - acSecurityGetFeaturesDisabled

acUserRole
-1 - acLegacyUser
0 - acBrowser
1 - acPublisher
2 - acServiceAuthor
3 - acAdministrator

## WMS Client Object Model

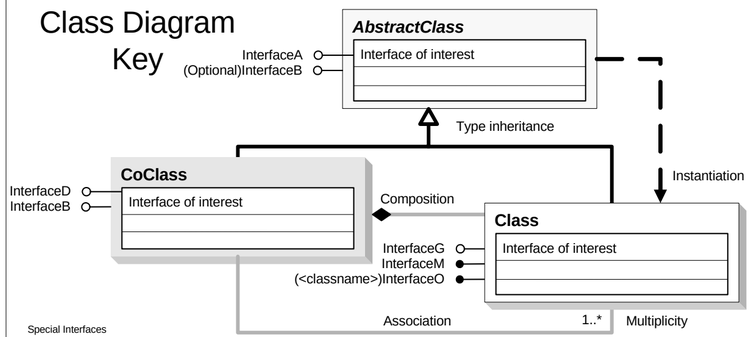



### Interfaces

IWMSLayerDescription : IUnknown
Abstract: String
BoundingBox (in index: Long, out envelope: IEnvelope): String
BoundingBoxCount: Long
ExceptionFormat (in index: Long): String
ExceptionFormatCount: Long
FeatureInfoFormat (in index: Long): String
FeatureInfoFormatCount: Long
FixedHeight: Double
FixedWidth: Double
ImageFormat (in index: Long): String
ImageFormatCount: Long
IsCascaded: Long
IsOpaque: Boolean
IsQueryable: Boolean
IsSubsettable: Boolean
LatLongBoundingBox: IEnvelope
LayerDescription (in index: Long): IWMSLayerDescription
LayerDescriptionCount: Long
Name: String
ScaleHintMax: Double
ScaleHintMin: Double
SRS (in index: Long): String
SRSCount: Long
StyleDescription (in index: Long): IWMSLayerStyleDescription
StyleDescriptionCount: Long
Title: String
WMSVersion: String

IWMSLayerStyleDescription : IUnknown
Abstract: String
Height: Double
ImageFormat (in index: Long): String
ImageFormatCount: Long
Name: String
Title: String
URL: String
Width: Double

## Class Diagram Key




Special Interfaces

(Optional) represents interfaces that are inherited by some subclasses but not all. The subclasses list the optional interfaces they implement.

(Instance) represents interfaces that are only on specific instances of the class.

(<classname>) indicates the name of the helper class required to support this event interface in Visual Basic.

Inbound Interface

Outbound Interface

**Interface key**

Property Get
Property Put
Property Get/Put
Property Put by Reference
Method

enumeration
firstValue - firstEnumeration
secondValue - secondEnumeration

**Structure key** *<<Struct>>*

firstMember: Type
secondMember: Type

Types of Classes

An abstract class cannot be used to create new objects but is a specification for instances of subclasses (through type inheritance.)

A CoClass can directly create objects by declaring a new object.

A Class cannot directly create objects, but objects of this class can be created as a property of another class or instantiated by objects from another class.

Types of Relationships

Associations represent relationships between classes. They have defined multiplicities at both ends.

Type inheritance defines specialized classes of objects which share properties and methods with the superclass and have additional properties and methods. Note that interfaces in superclasses are not duplicated in subclasses.

Instantiation specifies that one object from one class has a method with which it creates an object from another class.

Composition is a relationship in which objects from the 'whole' class control the lifetime of objects from the 'part' class.

An N-ary association specifies that more than two classes are associated. A diamond is placed at the intersection of the association branches.

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

1 - One and only one (if none shown, '1' is implied)

0..1 - Zero or one

M..N - From M to N (positive integers)

* or 0..* - From zero to any positive integer

1..* - From one to any positive integer