

Autodesk.Gis.Map.Platform Namespace

▣ Classes

AcMapFeatureService	Provides an abstraction layer for the storage and retrieval of feature data in a technology-independent way.
AcMapLayer	Gets and sets properties of a layer.
AcMapLayerGroup	Manipulates the properties of a layer group.
AcMapMap	Defines the runtime state of a map.
AcMapResourceService	Enables you to manipulate repositories and resources.
AcMapSelection	Provides methods for getting selected features.
AcMapServiceFactory	Factory class to obtain AutoCAD Map 3D specific services.

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Links

[Autodesk.Gis.Map.Platform Namespace](#), [Class Hierarchy](#)

AcMapFeatureService Class

[Autodesk.Gis.Map.Platform Namespace AcMapFeatureService Events](#)

Provides an abstraction layer for the storage and retrieval of feature data in a technology-independent way.

```
class AcMapFeatureService : public MgFeatureService;
```

Remarks

The API lets you determine what storage technologies are available and what capabilities they have. Access to the storage technology is modeled as a connection. For example, you can connect to a file and do simple insertions or connect to a relational database and do transaction-based operations.

☐ Methods

- ◆ [CreateFeatureSource](#) Creates a feature source in the repository identified by the specified resource identifier, using the given feature source parameters.
- ◆ [DescribeWfsFeatureType](#) Retrieves schema information about a set of feature classes for a given feature source.
- ◆ [DescribeSchema](#) Gets the definitions of one or more schema contained in the feature source.
- ◆ [DescribeSchemaAsXml](#) Gets the definition in XML format of a schema contained in the feature source.
- ◆ [EnumerateDataStores](#) This method enumerates all the providers and if they are FDO enabled for the specified provider and partial connection string.
- ◆ [ExecuteSqlNonQuery](#) Executes SQL statements NOT including SELECT statements.
- ◆ [GetFeatureProviders](#) Gets a list of the available FDO providers together with other information such as the names of the connection properties for each provider.
- ◆ [ExecuteSqlQuery](#) Executes the SQL SELECT statement on the specified feature source.
Gets the capabilities of an FDO Provider

- ⇒ [GetCapabilities](#) expressed in XML according to the FdoProviderCapabilities schema.
- ⇒ [GetLongTransactions](#) Gets all available long transactions for the provider.
- ⇒ [GetClassDefinition](#) Gets the class definition for the specified class.
- ⇒ [GetClasses](#) Gets a list of the names of all classes available within a specified schema .
- ⇒ [GetSchemas](#) Gets a list of the names of all of the schemas available in the feature source.
- ⇒ [GetConnectionPropertyValues](#) Gets a set of connection values that are used to make connections to an FDO provider that permits multiple connections.
- ⇒ [GetSpatialContexts](#) Gets all of the spatial contexts available in the feature source or just the active one.
- ⇒ [GetLockedFeatures](#) Gets the locked features.
- ⇒ [GetSchemaMapping](#) This method returns all of the logical to physical schema mappings for the specified provider and partial connection string.
Translates the FDO schema information in the provided MgFeatureSchemaCollection object into a string containing an XML representation of the schema definitions in the feature source.
- ⇒ [SchemaToXml](#)
- ⇒ [GetWfsFeature](#) Retrieves feature information based on the supplied criteria.
Selects groups of features from a feature source and applies filters to each of the groups according to the criteria set in the MgFeatureAggregateOptions argument.
- ⇒ [SelectAggregate](#) Selects features from a feature source according to the criteria set in the MgFeatureQueryOptions argument The criteria are applied to all of the features in the feature source.
- ⇒ [SelectFeatures](#) Selects features from a feature source according to the criteria set in the MgFeatureQueryOptions argument The criteria are applied to all of the features in the feature source.
- ⇒ [SelectFeatures](#)

⇒ [SetLongTransaction](#)

Set the active long transaction name for a feature source.

⇒ [TestConnection](#)

Connects to the feature source specified by the resource identifier and verifies that the feature source has been correctly configured and installed in the resource repository.

⇒ [TestConnection](#)

Connects to the Feature Provider specified in the connection string.

⇒ [UpdateFeatures](#)

Executes the MgDeleteFeatures, MgInsertFeatures, MgUpdateFeatures, MgLockFeatures or MgUnlockFeatures commands contained in the given MgFeatureCommandCollection object.

⇒ [XmlToSchema](#)

Creates an MgFeatureSchemaCollection object using the XML schema provided.

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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AcMapFeatureService Events
[AcMapFeatureService Class](#)

AcMapFeatureService detects the following events.

Events

FeatureDeleteCancelled	Occurs when a feature delete has been canceled.
FeatureDeleted	Occurs when a feature has been deleted.
FeatureInsertCancelled	Occurs when a feature insert has been canceled.
FeatureInserted	Occurs when a feature has been inserted.
FeatureToBeDeleted	Occurs when a feature is about to be deleted.
FeatureToBeInserted	Occurs when a feature is about to be inserted.
FeatureToBeUpdated	Occurs when a feature is about to be updated.
FeatureUpdateCancelled	Occurs when a feature update has been canceled.
FeatureUpdated	Occurs when a feature has been updated.
LongTransactionActivateCancelled	Occurs when a long transaction activate has been canceled.
LongTransactionActivated	Occurs when a long transaction has been activated.
LongTransactionToBeActivated	Occurs when a long transaction is about to be activated.

AcMapFeatureService:: FeatureDeleteCancelled Event
[AcMapFeatureService Class](#) [AcMapFeatureEventArgs Class](#)

Occurs when a feature delete has been canceled.

```
public event FeatureDeleteCancelledHandler FeatureDeleteCancelled  
Handler  
public delegate void  
FeatureDeleteCancelledHandler(  
    Object sender,  
    AcMapFeatureEventArgs e);
```

AcMapFeatureService:: FeatureDeleted Event

[AcMapFeatureService Class](#) [AcMapFeatureEventArgs Class](#)

Occurs when a feature has been deleted.

```
public event FeatureDeletedHandler FeatureDeleted  
Handler  
public delegate void  
FeatureDeletedHandler(  
    Object sender,  
    AcMapFeatureEventArgs e);
```

AcMapFeatureService:: FeatureInsertCancelled Event
[AcMapFeatureService Class](#) [AcMapFeatureEventArgs Class](#)

Occurs when a feature insert has been canceled.

```
public event FeatureInsertCancelledHandler FeatureInsertCancelled  
Handler  
public delegate void  
FeatureInsertCancelledHandler(  
    Object sender,  
    AcMapFeatureEventArgs e);
```


AcMapFeatureService:: FeatureInserted Event

[AcMapFeatureService Class](#) [AcMapFeatureEventArgs Class](#)

Occurs when a feature has been inserted.

```
public event FeatureInsertedHandler FeatureInserted  
Handler  
public delegate void  
FeatureInsertedHandler(  
    Object sender,  
    AcMapFeatureEventArgs e);
```

AcMapFeatureService:: FeatureToBeDeleted Event
[AcMapFeatureService Class](#) [AcMapFeatureToBeEventArgs Class](#)

Occurs when a feature is about to be deleted.

```
public event FeatureToBeDeletedHandler FeatureToBeDeleted  
Handler  
public delegate void  
FeatureToBeDeletedHandler(  
    Object sender,  
    AcMapFeatureToBeEventArgs e);
```

AcMapFeatureService:: FeatureToBeInserted Event
[AcMapFeatureService Class](#) [AcMapFeatureToBeEventArgs Class](#)

Occurs when a feature is about to be inserted.

```
public event FeatureToBeInsertedHandler FeatureToBeInserted  
Handler  
public delegate void  
FeatureToBeInsertedHandler(  
    Object sender,  
    AcMapFeatureToBeEventArgs e);
```

AcMapFeatureService:: FeatureToBeUpdated Event
[AcMapFeatureService Class](#) [AcMapFeatureToBeEventArgs Class](#)

Occurs when a feature is about to be updated.

```
public event FeatureToBeUpdatedHandler FeatureToBeUpdated  
Handler  
public delegate void  
FeatureToBeUpdatedHandler(  
    Object sender,  
    AcMapFeatureToBeEventArgs e);
```

AcMapFeatureService:: FeatureUpdateCancelled Event
[AcMapFeatureService Class](#) [AcMapFeatureEventArgs Class](#)

Occurs when a feature update has been canceled.

```
public event FeatureUpdateCancelledHandler FeatureUpdateCancelled  
Handler  
public delegate void  
FeatureUpdateCancelledHandler(  
    Object sender,  
    AcMapFeatureEventArgs e);
```

AcMapFeatureService:: FeatureUpdated Event
[AcMapFeatureService Class](#) [AcMapFeatureEventArgs Class](#)

Occurs when a feature has been updated.

```
public event FeatureUpdatedHandler FeatureUpdated  
Handler  
public delegate void  
FeatureUpdatedHandler(  
    Object sender,  
    AcMapFeatureEventArgs e);
```

AcMapFeatureService:: LongTransactionActivateCancelled Event
[AcMapFeatureService Class](#) [AcMapLongTransactionEventArgs Class](#)

Occurs when a long transaction activate has been canceled.

```
public event LongTransactionActivateCancelledHandler LongTransaction  
Handler  
public delegate void  
LongTransactionActivateCancelledHandler(  
    Object sender,  
    AcMapLongTransactionEventArgs e);
```

AcMapFeatureService:: LongTransactionActivated Event
[AcMapFeatureService Class](#) [AcMapLongTransactionEventArgs Class](#)

Occurs when a long transaction has been activated.

```
public event LongTransactionActivatedHandler LongTransactionActivate  
Handler  
public delegate void  
LongTransactionActivatedHandler(  
    Object sender,  
    AcMapLongTransactionEventArgs e);
```


AcMapFeatureService:: LongTransactionToBeActivated Event
[AcMapFeatureService Class](#) [AcMapLongTransactionToBeEventArgs Class](#)

Occurs when a long transaction is about to be activated.

```
public event LongTransactionToBeActivatedHandler LongTransactionToBe  
Handler  
public delegate void  
LongTransactionToBeActivatedHandler(  
    Object sender,  
    AcMapLongTransactionToBeEventArgs e);
```

Links

[AcMapFeatureService Class](#), [AcMapFeatureService Class](#)

AcMapFeatureService:: CreateFeatureSource Method

[AcMapFeatureService Class](#)

Creates a feature source in the repository identified by the specified resource identifier, using the given feature source parameters.

```
virtual void CreateFeatureSource(  
    MgResourceIdentifier* resource,  
    MgFeatureSourceParams* sourceParams  
);
```

Parameters	Description
resource	The resource identifier defining the location of the new feature source in the repository.
sourceParams	The feature source parameters (feature schema and spatial context definitions).

Remarks

This method is not supported in AutoCAD Map 3D and will always throw `MgNotImplementedException`.

`MgFeatureSourceParams` is an abstract class. Currently the only concrete class is `MgCreateSdfParams`, and the only feature source that can be created this way is an SDF file. You can use this method to create an SDF file with the same schema and spatial context definition as the provider that you are connected to.

`MgXX` classes belong to the `OsGeo.MapGuide` namespace and are described in the Geospatial Platform Reference.

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[AcMapFeatureService Class](#), [AcMapFeatureService Class](#)

[AcMapFeatureService:: DescribeWfsFeatureType Method](#)

[AcMapFeatureService Class](#)

Retrieves schema information about a set of feature classes for a given feature source.

```
virtual MgByteReader* DescribeWfsFeatureType(  
    MgResourceIdentifier* featureSourceId,  
    MgStringCollection* featureClasses  
);
```

Parameters	Description
featureClasses	A collection of strings identifying the feature classes for which to retrieve schema information. If this collection is null or empty, information is returned for all feature classes.
resource	The resource identifier defining the location of the feature source in the repository.

Remarks

This method is not supported in AutoCAD Map 3D and will always throw `MgNotImplementedException`.

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[AcMapFeatureService Class](#), [AcMapFeatureService Class](#)

AcMapFeatureService:: DescribeSchema Method

[AcMapFeatureService Class](#)

Gets the definitions of one or more schema contained in the feature source.

```
virtual MgFeatureSchemaCollection* DescribeSchema(  
    MgResourceIdentifier* resource,  
    string schemaNam  
);
```

Parameters

Description

resource

A resource identifier for the feature source.

schemaNam

The name of the schema definition to retrieve or an empty string to retrieve all available schema definitions.

Returns

Returns an MgFeatureSchemaCollection.

Remarks

MgXX classes belong to the OsGeo.MapGuide namespace and are descibed in the Geospatial Platform Reference.

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[AcMapFeatureService Class](#), [AcMapFeatureService Class](#)

AcMapFeatureService:: DescribeSchemaAsXml Method

[AcMapFeatureService Class](#)

Gets the definition in XML format of a schema contained in the feature source.

```
virtual string DescribeSchemaAsXml(  
    MgResourceIdentifier* resource,  
    string schemaNam  
);
```

Parameters

Description

resource

The resource identifier for the feature source

schemaNam

The name of the schema definition to retrieve or an empty string to retrieve all available schema definitions.

Returns

Returns a string containing the FDO schema in XML format.

Remarks

The XML representation of the schema definitions conforms to FDO XML schema, which are based on OGC GML schema. How to specify a schema definition in XML is discussed in the Autodesk FDO API Developer's Guide.

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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[AcMapFeatureService Class](#), [AcMapFeatureService Class](#)

AcMapFeatureService::EnumerateDataStores Method

[AcMapFeatureService Class](#)

This method enumerates all the providers and if they are FDO enabled for the specified provider and partial connection string.

```
virtual MgByteReader* EnumerateDataStores(  
    string providerName,  
    string partialConnString  
);
```

Parameters	Description
providerName	The name of the Fdo feature provider.
partialConnString	The partial connection string to the Fdo provider.

Returns

Returns the list of data stores.

Remarks

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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[AcMapFeatureService Class](#), [AcMapFeatureService Class](#)

AcMapFeatureService::ExecuteSqlNonQuery Method

[AcMapFeatureService Class](#)

Executes SQL statements NOT including SELECT statements.

```
virtual long ExecuteSqlNonQuery(  
    MgResourceIdentifier* resource,  
    string sqlNonQueryStatement  
);
```

Parameters

Description

resource

A resource identifier for a feature source.

sqlNonQueryStatement

The SQL statement that is NOT a SELECT statement.

Returns

Returns a positive integer value indicating how many instances (rows) have been affected.

Remarks

The XML returned by [GetCapabilities](#) says whether a provider supports SQL commands.

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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Links

[AcMapFeatureService Class](#), [AcMapFeatureService Class](#)

AcMapFeatureService:: GetFeatureProviders Method

[AcMapFeatureService Class](#)

Gets a list of the available FDO providers together with other information such as the names of the connection properties for each provider.

```
virtual MgByteReader* GetFeatureProviders();
```

Returns

Returns an MgByteReader containing the provider registry in XML format.

Remarks

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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[AcMapFeatureService Class](#), [AcMapFeatureService Class](#)

AcMapFeatureService::ExecuteSqlQuery Method

[AcMapFeatureService Class](#)

Executes the SQL SELECT statement on the specified feature source.

```
virtual MgSqlDataReader* ExecuteSqlQuery(  
    MgResourceIdentifier* resource,  
    string sqlStamen  
);
```

Parameters	Description
resource	A resource identifier referring to a feature source.
sqlStamen	The SQL SELECT statement.

Returns

Returns an MgSqlDataReader instance (or NULL).

Remarks

The XML returned by [GetCapabilities](#) says whether a provider supports SQL commands.

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Links

[AcMapFeatureService Class](#), [AcMapFeatureService Class](#)

AcMapFeatureService:: GetCapabilities Method

[AcMapFeatureService Class](#)

Gets the capabilities of an FDO Provider expressed in XML according to the FdoProviderCapabilities schema.

```
virtual MgByteReader* GetCapabilities(  
    string providerName  
);
```

Parameters

Description

providerName

The name of the FDO provider. Get the exact form of the name from [GetFeatureProviders](#).

Returns

Returns an MgByteReader containing the capabilities in XML format (or NULL).

Remarks

[AcMapFeatureService](#) derives most of its capabilities from the FDO Provider to which it is connected. Capabilities vary among providers. For example, the FDO Provider for ArcSDE supports all of the spatial operators, and the FDO Provider for Oracle supports only a subset.

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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Links

[AcMapFeatureService Class](#), [AcMapFeatureService Class](#)

AcMapFeatureService:: GetLongTransactions Method

[AcMapFeatureService Class](#)

Gets all available long transactions for the provider.

```
virtual MgLongTransactionReader* GetLongTransactions(  
    MgResourceIdentifier* resource,  
    bool bActiveOnly = false  
);
```

Parameters	Description
resource	A resource identifier for feature source.
bActiveOnly	If true, returns the active long transaction; otherwise returns all long transactions.

Returns

Returns an MgLongTransactionReader instance or NULL.

Remarks

The XML returned by [GetCapabilities](#) says whether a provider supports long transactions.

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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Links

[AcMapFeatureService Class](#), [AcMapFeatureService Class](#)

AcMapFeatureService:: GetClassDefinition Method

[AcMapFeatureService Class](#)

Gets the class definition for the specified class.

```
virtual MgClassDefinition* GetClassDefinition(  
    MgResourceIdentifier* resource,  
    string schemaName,  
    string className  
);
```

Parameters	Description
resource	A resource identifier for the feature source.
schemaName	A schema name.
className	A class name.

Returns

Returns an MgClassDefinition instance for the specified class name.

Remarks

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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Links

[AcMapFeatureService Class](#), [AcMapFeatureService Class](#)

AcMapFeatureService:: GetClasses Method

[AcMapFeatureService Class](#)

Gets a list of the names of all classes available within a specified schema .

```
virtual MgStringCollection* GetClasses(  
    MgResourceIdentifier* resource,  
    string schemaNam  
);
```

Parameters	Description
resource	A resource identifier for a feature source.
schemaNam	A schema name.

Returns

Returns an MgStringCollection containing a list of class names.

Remarks

MgXX classes belong to the OsGeo.MapGuide namespace and are descibed in the Geospatial Platform Reference.

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Links

[AcMapFeatureService Class](#), [AcMapFeatureService Class](#)

AcMapFeatureService:: GetSchemas Method

[AcMapFeatureService Class](#)

Gets a list of the names of all of the schemas available in the feature source.

```
virtual MgStringCollection* GetSchemas(  
    MgResourceIdentifier* resourc  
);
```

Parameters	Description
resource	A resource identifier for the feature source,
Returns	

Returns an MgStringCollection object listing the schema names.

Remarks

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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[AcMapFeatureService Class](#), [AcMapFeatureService Class](#)

AcMapFeatureService:: GetConnectionPropertyValues Method

[AcMapFeatureService Class](#)

Gets a set of connection values that are used to make connections to an FDO provider that permits multiple connections.

```
virtual MgStringCollection* GetConnectionPropertyValues(  
    string providerName,  
    string propertyName,  
    string partialConnString  
);
```

Parameters	Description
providerName	The name of the Fdo feature provider. Permissible values are obtained by calling the GetFeatureProviders Method.
propertyName	Property name.
partialConnString	The partial connection string to the Fdo provider.

Returns

Returns an MgStringCollection or NULL, if nothing is found.

Remarks

You connect to the provider using a set of values that is one value short of addressing a source of feature data. This set of values is also known as a "partial connection string". The provider returns a set of values each of which represents a final value needed to connect to feature data. You can now construct a set of "full connection strings", and you can test the validity of each of these using the [TestConnection](#) Method. You make a fully functional connection using another variant of the [TestConnection](#) Method. Currently, the only use for this method is to list the datastores in an Oracle database. Feature data is stored in a datastore in an Oracle database. This is explained in the section on the Oracle provider in the Connection To Feature Source topic.

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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[AcMapFeatureService Class](#), [AcMapFeatureService Class](#)

AcMapFeatureService:: GetSpatialContexts Method

[AcMapFeatureService Class](#)

Gets all of the spatial contexts available in the feature source or just the active one.

```
virtual MgSpatialContextReader* GetSpatialContexts(  
    MgResourceIdentifier* resource,  
    bool bActiveOnly = false  
);
```

Parameters	Description
resource	A resource identifier identifying a feature source in the repository.
bActiveOnly	If true, the return value contains only the active spatial context. If false, the return value contains all of the available spatial contexts.

Returns

Returns an MgSpatialContextReader object.

Remarks

The FdoSpatialContextList XML schema contains a specification of the content of the spatial context information returned in the MgSpatialContextReader object.

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[AcMapFeatureService Class](#), [AcMapFeatureService Class](#)

AcMapFeatureService:: GetLockedFeatures Method

[AcMapFeatureService Class](#)

Gets the locked features.

```
virtual MgFeatureReader* GetLockedFeatures(  
    MgResourceIdentifier* resource,  
    string className,  
    MgFeatureQueryOptions* options  
);
```

Parameters	Description
resource	A resource identifier for the feature source.
className	The name of the feature class on which the select operation is performed.
options	An MgFeatureAggregateOptions instance containing all the criteria and filters required for this select operation.

Returns

Returns an MgFeatureReader containing the locked features.

Remarks

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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Links

[AcMapFeatureService Class](#), [AcMapFeatureService Class](#)

AcMapFeatureService:: GetSchemaMapping Method

[AcMapFeatureService Class](#)

This method returns all of the logical to physical schema mappings for the specified provider and partial connection string.

```
virtual MgByteReader* GetSchemaMapping(  
    string providerName,  
    string partialConnString  
);
```

Parameters	Description
providerName	The name of the Fdo feature provider.
partialConnString	The partial connection string to the Fdo provider.

Returns

Returns the schema mapping.

Remarks

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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[AcMapFeatureService Class](#), [AcMapFeatureService Class](#)

AcMapFeatureService:: SchemaToXml Method

[AcMapFeatureService Class](#)

Translates the FDO schema information in the provided MgFeatureSchemaCollection object into a string containing an XML representation of the schema definitions in the feature source.

```
virtual string SchemaToXml(  
    MgFeatureSchemaCollection* schema  
);
```

Parameters	Description
schema	A FeatureSchemaCollection object.
Returns	

Returns a string containiing a set of FDO schema definitions in XML format.

Remarks

The XML representation of the schema definitions conforms to FDO XML schema, which are based on OGC GML schema. How to specify a schema definition in XML is discussed in the Autodesk FDO API Developer's Guide.

MgXX classes belong to the OsGeo.MapGuide namespace and are descibed in the Geospatial Platform Reference.

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[AcMapFeatureService Class](#), [AcMapFeatureService Class](#)

AcMapFeatureService:: GetWfsFeature Method

[AcMapFeatureService Class](#)

Retrieves feature information based on the supplied criteria.

```
virtual MgByteReader* GetWfsFeature(  
    MgResourceIdentifier* featureSourceId,  
    string featureClass,  
    MgStringCollection* requiredProperties,  
    string srs,  
    string filter,  
    long maxFeatures  
);
```

Parameters	Description
featureSourceId	The resource identifier defining the location of the feature source in the repository.
featureClass	The feature class containing the features to retrieve.
requiredProperties	The collection of properties to retrieve for each feature. If the collection is null or empty, all properties will be retrieved.
srs	The spatial reference system in which to return feature geometries
filter	An XML string containing the definition for an OGC filter
maxFeatures	The maximum number of features to retrieve. If the value is less than or equal to zero, all features will be retrieved.

Remarks

This method is not supported in AutoCAD Map 3D and will always throw MgNotImplementedException.

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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[AcMapFeatureService Class](#), [AcMapFeatureService Class](#)

AcMapFeatureService:: SelectAggregate Method

[AcMapFeatureService Class](#)

Selects groups of features from a feature source and applies filters to each of the groups according to the criteria set in the MgFeatureAggregateOptions argument.

```
virtual MgDataReader* SelectAggregate(  
    MgResourceIdentifier* resource,  
    string className,  
    MgFeatureAggregateOptions* option  
);
```

Parameters	Description
resource	A resource identifier for the feature source.
className	The name of the feature class on which the select operation is performed.
option	An MgFeatureAggregateOptions instance containing all the criteria and filters required for this select operation.

Returns

Returns an MgDataReader containing the group values.

Remarks

If you want to apply the criteria to all features without grouping them, use the [SelectFeatures](#) Method.

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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[AcMapFeatureService Class](#), [AcMapFeatureService Class](#)

AcMapFeatureService:: SelectFeatures Method

(MgResourceIdentifier*, string, MgFeatureQueryOptions*)

[AcMapFeatureService Class](#)

Selects features from a feature source according to the criteria set in the MgFeatureQueryOptions argument The criteria are applied to all of the features in the feature source.

```
virtual MgFeatureReader* SelectFeatures(  
    MgResourceIdentifier* resource,  
    string className,  
    MgFeatureQueryOptions* option  
);
```

Parameters	Description
resource	A resource identifier for the feature source.
className	The name of the feature class from which the properties of interest are selected.
option	MgFeatureQueryOptions instance containing all required filters for this select operation.

Returns

Returns an MgFeatureReader containing the set of selected features.

Remarks

If you want to apply the criteria to a subset of the features, use the [SelectAggregate](#) Method.

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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Links

[AcMapFeatureService Class](#), [AcMapFeatureService Class](#)

AcMapFeatureService:: SelectFeatures Method

(MgResourceIdentifier*, string, MgFeatureQueryOptions*, string)

[AcMapFeatureService Class](#)

Selects features from a feature source according to the criteria set in the MgFeatureQueryOptions argument The criteria are applied to all of the features in the feature source.

```
virtual MgFeatureReader* SelectFeatures(  
    MgResourceIdentifier* resource,  
    string className,  
    MgFeatureQueryOptions* options,  
    string coordinateSystem  
);
```

Parameters	Description
resource	A resource identifier for the feature source.
className	The name of the feature class from which the properties of interest are selected.
options	MgFeatureQueryOptions instance containing all required filters for this select operation.
coordinateSystem	The name of the coordinate system to transform to.

Returns

Returns an MgFeatureReader containing the set of selected features.

Remarks

Use the coordinateSystem argument to set the target coordinate system if you want to transform. If you want to apply the criteria to a subset of the features, use the [SelectAggregate](#) Method.

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Links

[AcMapFeatureService Class](#), [AcMapFeatureService Class](#)

[AcMapFeatureService:: SetLongTransaction Method](#)

[AcMapFeatureService Class](#)

Set the active long transaction name for a feature source.

Description

A resource identifier identifying a feature source in the repository.

```
virtual bool SetLongTransaction(  
    MgResourceIdentifier* featureSourceId,  
    string longTransactionName  
);
```

Parameters	Description
featureSourceId	Resource identifier of feature source.
longTransactionName	The long transaction name to set.

Returns

Returns true if the name was successfully set; otherwise returns false.

Remarks

The long transaction name is associated with the caller's session. If no session is set then the method throws an MgSessionNotFoundException.

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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Links

[AcMapFeatureService Class](#), [AcMapFeatureService Class](#)

AcMapFeatureService:: TestConnection Method

(MgResourceIdentifier*)

[AcMapFeatureService Class](#)

Connects to the feature source specified by the resource identifier and verifies that the feature source has been correctly configured and installed in the resource repository.

```
virtual bool TestConnection(  
    MgResourceIdentifier* resource  
);
```

Parameters

Description

resource

The resource identifier for the feature source.

Returns

Returns true if connection was successful; otherwise returns false.

Remarks

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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Links

[AcMapFeatureService Class](#), [AcMapFeatureService Class](#)

AcMapFeatureService:: TestConnection Method

(string, string)

[AcMapFeatureService Class](#)

Connects to the Feature Provider specified in the connection string.

```
virtual bool TestConnection(  
    string providerName,  
    string connectionString  
);
```

Parameters	Description
providerName	The name of the Fdo feature provider.
connectionString	Connection string for Feature Provider. Connection property names that appear in the connection string as keys can be obtained from the output of GetFeatureProviders method.

Returns

Returns true if the connection was successful; otherwise returns false.

Remarks

This method is not implemented for AutoCAD Map 3D.

You use this method to verify that the connection property values are valid. You then use these values to construct a feature source file that you will install in the repository.

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Links

[AcMapFeatureService Class](#), [AcMapFeatureService Class](#)

AcMapFeatureService::UpdateFeatures Method

[AcMapFeatureService Class](#)

Executes the MgDeleteFeatures, MgInsertFeatures, MgUpdateFeatures, MgLockFeatures or MgUnlockFeatures commands contained in the given MgFeatureCommandCollection object.

Description

The XML returned by [GetCapabilities](#) says whether a provider supports SQL commands.

```
virtual MgPropertyCollection* UpdateFeatures(  
    MgResourceIdentifier* resource,  
    MgFeatureCommandCollection* commands,  
    bool useTransaction  
);
```

Parameters	Description
resource	A resource identifier for the feature source.
commands	A collection of feature commands to be executed.
useTransaction	If true and transactions are supported by the Fdo provider, execute all commands inside a transaction. If false, do not use a transaction.

Returns

Returns an MgPropertyCollection object. Each property in the collection corresponds to a command in the MgFeatureCommandCollection argument. The property name is the index of the command in the feature command collection.

Remarks

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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Links

[AcMapFeatureService Class](#), [AcMapFeatureService Class](#)

AcMapFeatureService:: XmlToSchema Method

[AcMapFeatureService Class](#)

Creates an MgFeatureSchemaCollection object using the XML schema provided.

```
virtual MgFeatureSchemaCollection* XmlToSchema(  
    string xml  
);
```

Parameters

Description

xml

A string containing schema definitions in XML format.

Returns

Returns an MgFeatureSchemaCollection object.

Remarks

The XML representation of the schema definitions conforms to FDO XML schema, which are based on OGC GML schema. How to specify a schema definition in XML is discussed in the Autodesk FDO API Developer's Guide.

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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Links

[Autodesk.Gis.Map.Platform Namespace](#), [Class Hierarchy](#)

AcMapLayer Class

[Autodesk.Gis.Map.Platform Namespace](#)

Gets and sets properties of a layer.

```
class AcMapLayer : public MgLayerBase;
```

☐ Methods

- ⇒ [Create](#) Creates a AcMaLayer object from a layer definition.
- ⇒ [CreateCache](#) Creates the cache.
- ⇒ [DiscardFeatureChanges](#) Discards the modifications to the features.
- ⇒ [ForceRefresh](#) Forces the data for this layer to be refreshed during the next map update.
- ⇒ [GetClassDefinition](#) Gets the class definition for the feature class of the layer.
- ⇒ [GetEditMode](#) Gets the edit mode for the layer.
- ⇒ [GetExtents](#) Gets the extents of the layer.
- ⇒ [GetFeatures](#) Gets the features for the given set of feature ids.
- ⇒ [GetFeatureSourceId](#) Gets the feature source associated with this layer.
- ⇒ [GetGroupName](#) Get group name of the layer belongs to.
- ⇒ [GetIdsOfEditSetFeatures](#) Returns a collection of feature ids of the edit set features.
- ⇒ [GetLockedFeatures](#) Gets all the locked features.
- ⇒ [GetVisible](#) Determines whether the layer is potentially visible.
- ⇒ [IsCached](#) Returns true if the layer is cached.
- ⇒ [IsVisible](#) Returns the actual visibility of the layer.
- ⇒ [SaveFeatureChanges](#) Commits changes made to the local edit set cache to the underlying feature source.
- ⇒ [SelectAggregate](#) Selects groups of features from a feature source and applies filters to each of the groups according to the criteria set in the MgFeatureAggregateOptions argument.
- ⇒ [SelectFeatures](#) Selects features from a feature source according to the criteria set in the MgFeatureQueryOptions

- argument The criteria are applied to all of the features in the feature source.
- ⇒ [SetEditMode](#) Sets the edit mode for the layer.
 - ⇒ [SetFeatureClassName](#) Set the feature class name for layer.
 - ⇒ [SetName](#) Sets the name of the layer.
 - ⇒ [SetVisible](#) Sets the layer's potential visibility.
 - ⇒ [UpdateFeatures](#) Executes the MgDeleteFeatures, MgInsertFeatures, MgUpdateFeatures, MgLockFeatures or MgUnlockFeatures commands contained in the given MgFeatureCommandCollection object.
 - ⇒ [ZoomToLayer](#) Zoom to layer's extent.

Remarks

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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Links

[AcMapLayer Class](#), [AcMapLayer Class](#)

AcMapLayer:: Create Method

[AcMapLayer Class](#)

Creates a AcMaLayer object from a layer definition.

```
static AcMapLayer* Create(  
    MgResourceIdentifier* layerDefinition,  
    MgResourceService* resourceService  
);
```

Parameters

Description

resourceService

An MgResourceService that can be used to retrieve the layer definition.

layerDefinition'

Identifier of the layer definition in a repository.

Remarks

MgXX classes belong to the OsGeo.MapGuide namespace and are descibed in the Geospatial Platform Reference.

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Links

[AcMapLayer Class](#), [AcMapLayer Class](#)

AcMapLayer:: CreateCache Method

[AcMapLayer Class](#)

Creates the cache.

virtual void CreateCache();

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Links

[AcMapLayer Class](#), [AcMapLayer Class](#)

AcMapLayer:: DiscardFeatureChanges Method

[AcMapLayer Class](#)

Discards the modifications to the features.

```
virtual void DiscardFeatureChanges();
```

Remarks

Applicable only in edit set mode.

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Links

[AcMapLayer Class](#), [AcMapLayer Class](#)

AcMapLayer:: ForceRefresh Method

[AcMapLayer Class](#)

Forces the data for this layer to be refreshed during the next map update.

virtual void ForceRefresh();

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Links

[AcMapLayer Class](#), [AcMapLayer Class](#)

AcMapLayer:: GetClassDefinition Method

[AcMapLayer Class](#)

Gets the class definition for the feature class of the layer.

```
MgClassDefinition* GetClassDefinition();
```

Returns

Returns an MgClassDefinition instance for the specified / class name.

Remarks

If the feature class of the layer is extended with properties from other feature classes, then all those properties are also contained in the returned class definition.

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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Links

[AcMapLayer Class](#), [AcMapLayer Class](#)

AcMapLayer:: GetEditMode Method

[AcMapLayer Class](#)

Gets the edit mode for the layer.

```
virtual long GetEditMode();
```

Returns

Return the Edit mode value.

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Links

[AcMapLayer Class](#), [AcMapLayer Class](#)

AcMapLayer:: GetExtents Method

[AcMapLayer Class](#)

Gets the extents of the layer.

```
virtual MgEnvelope* GetExtents();
```

Returns

Returns an envelope containing the extents.

Remarks

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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Links

[AcMapLayer Class](#), [AcMapLayer Class](#)

AcMapLayer:: GetFeatures Method

[AcMapLayer Class](#)

Gets the features for the given set of feature ids.

```
virtual MgFeatureReader* GetFeatures(  
    MgBatchPropertyCollection * pFeatureIds  
);
```

Parameters	Description
pFeatureIds	Collection of feature ids.

Returns

A feature reader containing feature data.

Remarks

This method is provided to obtain feedback from customers. In future releases it may change in functionality or be deprecated.

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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Links

[AcMapLayer Class](#), [AcMapLayer Class](#)

AcMapLayer:: GetFeatureSourceId Method

[AcMapLayer Class](#)

Gets the feature source associated with this layer.

```
virtual string GetFeatureSourceId();
```

Returns

Returns the feature source or an empty string if this layer is not a feature layer.

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Links

[AcMapLayer Class](#), [AcMapLayer Class](#)

AcMapLayer:: GetGroupName Method

[AcMapLayer Class](#)

Get group name of the layer belongs to.

```
virtual string GetGroupName();
```

Returns

Return the name of group that the layer belongs to as string.

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Links

[AcMapLayer Class](#), [AcMapLayer Class](#)

AcMapLayer:: GetIdsOfEditSetFeatures Method

[AcMapLayer Class](#)

Returns a collection of feature ids of the edit set features.

```
virtual MgBatchPropertyCollection* GetIdsOfEditSetFeatures();
```

Returns

A collection of identity properties of edited features

Remarks

This method returns 3 collections. The first are the ids of new features, the second is of modified features, and the third is of deleted features.

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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Links

[AcMapLayer Class](#), [AcMapLayer Class](#)

AcMapLayer:: GetLockedFeatures Method

[AcMapLayer Class](#)

Gets all the locked features.

virtual MgFeatureReader* GetLockedFeatures();

Returns

Returns an MgFeatureReader containing the locked features.

Remarks

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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Links

[AcMapLayer Class](#), [AcMapLayer Class](#)

AcMapLayer:: GetVisible Method

[AcMapLayer Class](#)

Determines whether the layer is potentially visible.

```
virtual bool GetVisible();
```

Returns

Returns true if the layer is potentially visible, or false otherwise.

Remarks

Note that this method may return true even though the layer is not visible. This will occur if the visible flag of one of the groups this layer is organized within is not visible or when the current viewScale property of the map is outside the scale ranges defined for this layer.

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Links

[AcMapLayer Class](#), [AcMapLayer Class](#)

AcMapLayer:: IsCached Method

[AcMapLayer Class](#)

Returns true if the layer is cached.

```
virtual bool IsCached();
```

Returns

True if layer is cached and false if not.

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Links

[AcMapLayer Class](#), [AcMapLayer Class](#)

AcMapLayer:: isVisible Method

[AcMapLayer Class](#)

Returns the actual visibility of the layer.

```
virtual bool isVisible();
```

Returns

Returns true if the layer is actually visible, or false otherwise.

Remarks

The visibility depends on the visible property of the layer, the visible property of each group this layer is organized within, and the current viewScale of the map.

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Links

[AcMapLayer Class](#), [AcMapLayer Class](#)

AcMapLayer:: SaveFeatureChanges Method

[AcMapLayer Class](#)

Commits changes made to the local edit set cache to the underlying feature source.

```
virtual void SaveFeatureChanges(  
    MgFeatureQueryOptions * options  
);
```

Parameters

Description

options

An option containing info on features to be saved. It might contain a filter or spatial condition.

Remarks

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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Links

[AcMapLayer Class](#), [AcMapLayer Class](#)

AcMapLayer::SelectAggregate Method

[AcMapLayer Class](#)

Selects groups of features from a feature source and applies filters to each of the groups according to the criteria set in the MgFeatureAggregateOptions argument.

```
MgDataReader* SelectAggregate(  
    MgFeatureAggregateOptions* options  
);
```

Parameters

Description

options

An MgFeatureAggregateOptions instance containing all the criteria and filters required for this select operation.

Returns

Returns an MgDataReader containing the group values.

Remarks

If you want to apply the criteria to all features without grouping them, use the MgLayerBase::SelectFeatures Method.

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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Links

[AcMapLayer Class](#), [AcMapLayer Class](#)

AcMapLayer::SelectFeatures Method

[AcMapLayer Class](#)

Selects features from a feature source according to the criteria set in the MgFeatureQueryOptions argument. The criteria are applied to all of the features in the feature source.

```
MgFeatureReader* SelectFeatures(  
    MgFeatureQueryOptions* options  
);
```

Parameters

Description

options

MgFeatureQueryOptions instance containing all required filters for this select operation.

Returns

Returns an MgFeatureReader containing the set of selected features.

Remarks

If you want to apply the criteria to a subset of the features, use the MgLayerBase::[SelectAggregate](#) Method.

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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Links

[AcMapLayer Class](#), [AcMapLayer Class](#)

AcMapLayer:: SetEditMode Method

[AcMapLayer Class](#)

Sets the edit mode for the layer.

```
virtual void SetEditMode(  
    long editMode  
);
```

Parameters	Description
editMode	Edit mode value

Remarks

Layer can be either in direct update mode, where [UpdateFeatures\(\)](#) modifications are committed immediatly to the feature source, or edit set mode, where [UpdateFeatures\(\)](#) modifications are made to a local cache and can then be saved or discarded via [SaveFeatureChanges\(\)](#) or [DiscardFeatureChanges\(\)](#). EditSet mode is the default for newly created layers.

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Links

[AcMapLayer Class](#), [AcMapLayer Class](#)

AcMapLayer:: SetFeatureClassName Method

[AcMapLayer Class](#)

Set the feature class name for layer.

```
virtual void SetFeatureClassName(  
    string featureClass  
);
```

Parameters

Description

featureClass

The name of feature class.

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Links

[AcMapLayer Class](#), [AcMapLayer Class](#)

AcMapLayer::SetName Method

[AcMapLayer Class](#)

Sets the name of the layer.

```
virtual void SetName(  
    string layerName  
);
```

Parameters	Description
name	Layer name.

Remarks

The name must be unique in Map DisplayManager. An exception will be thrown when this layer is added to Map DisplayManager if the name already exists.

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Links

[AcMapLayer Class](#), [AcMapLayer Class](#)

AcMapLayer:: SetVisible Method

[AcMapLayer Class](#)

Sets the layer's potential visibility.

```
virtual void SetVisible(  
    bool bVisible  
);
```

Parameters

Description

visible

True if the layer should be visible, false otherwise.

Remarks

Note that setting this property to true will not necessarily guarantee the layer will be visible. The layer will be visible only when this property is true, all groups this layer is organized within are visible, and the current viewScale property of the map is within the scale ranges defined for this layer. Note also that the visibility of base map layers (those of type MgLayerType::BaseMap) cannot be changed. Attempting to do so will throw an MgInvalidOperationException.

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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Links

[AcMapLayer Class](#), [AcMapLayer Class](#)

AcMapLayer:: UpdateFeatures Method

[AcMapLayer Class](#)

Executes the MgDeleteFeatures, MgInsertFeatures, MgUpdateFeatures, MgLockFeatures or MgUnlockFeatures commands contained in the given MgFeatureCommandCollection object.

```
MgPropertyCollection* UpdateFeatures(  
    MgFeatureCommandCollection* commands  
);
```

Parameters	Description
commands	A collection of feature commands to be executed.

Returns

Returns an MgPropertyCollection object. Each property in the collection corresponds to a command in the MgFeatureCommandCollection argument. The property name is the index of the command in the feature command collection.

Remarks

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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Links

[AcMapLayer Class](#), [AcMapLayer Class](#)

AcMapLayer:: ZoomToLayer Method

[AcMapLayer Class](#)

Zoom to layer's extent.

virtual void ZoomToLayer();

Remarks

This method is provided to obtain feedback from customers. In future releases it may change in functionality or be deprecated.

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Links

[Autodesk.Gis.Map.Platform Namespace](#), [Class Hierarchy](#)

AcMapLayerGroup Class

[Autodesk.Gis.Map.Platform Namespace](#)

Manipulates the properties of a layer group.

```
class AcMapLayerGroup : public MgLayerGroup;
```

☐ Methods

- ◆ [GetName](#) Gets the name of the group.
- ◆ [AcMapLayerGroup](#) Creates a AcMaLayerGroup object, using a specified group name.
- ◆ [SetName](#) Sets the name of the group.
- ◆ [SetVisible](#) Alters the group potential visibility.

Remarks

MgXX classes belong to the OsGeo.MapGuide namespace and are descibed in the Geospatial Platform Reference.

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Links

[AcMapLayerGroup Class](#), [AcMapLayerGroup Class](#)

AcMapLayerGroup::GetName Method

[AcMapLayerGroup Class](#)

Gets the name of the group.

```
string GetName();
```

Returns

Returns the name of the group.

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Links

[AcMapLayerGroup Class](#), [AcMapLayerGroup Class](#)

AcMapLayerGroup:: AcMapLayerGroup Constructor

[AcMapLayerGroup Class](#)

Creates a AcMaLayerGroup object, using a specified group name.

```
AcMapLayerGroup(  
    string groupName  
);
```

Parameters	Description
groupName'	Name of layer group

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Links

[AcMapLayerGroup Class](#), [AcMapLayerGroup Class](#)

AcMapLayerGroup::SetName Method

[AcMapLayerGroup Class](#)

Sets the name of the group.

```
void SetName(  
    string groupName  
);
```

Parameters	Description
groupName	Name of the layer group

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Links

[AcMapLayerGroup Class](#), [AcMapLayerGroup Class](#)

AcMapLayerGroup:: SetVisible Method

[AcMapLayerGroup Class](#)

Alters the group potential visibility.

```
void SetVisible(  
    bool visible  
);
```

Parameters

Description

True if the group should be visible, or false otherwise.

Returns

Returns nothing.

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Links

[Autodesk.Gis.Map.Platform Namespace](#), [Class Hierarchy](#)

AcMapMap Class

[Autodesk.Gis.Map.Platform Namespace](#) [AcMapMap Events](#)

Defines the runtime state of a map.

```
class AcMapMap : public MgMapBase;
```

☐ Methods

- ⇒ [Create](#) Initializes a new Map object given a resource service, map definition, and a name for the map.
- ⇒ [Create](#) Initializes a new Map object given a spatial reference system, spatial extent of the map, and a name for the map.
- ⇒ [ForceScreenRefresh](#) Forces the editor window to repaint its contents.
- ⇒ [GetBackgroundColor](#) Returns the background color for the map.
- ⇒ [GetCurrentMap](#) Gets this interface for the current Map DisplayManager.
- ⇒ [GetDataExtent](#) Returns the extent of the data to be generated for the map in the spatial reference system of the map.
- ⇒ [GetDisplayDpi](#) Returns the number of dots per inch of the map display.
- ⇒ [GetDisplayHeight](#) Returns the current height of the map display in pixels.
- ⇒ [GetDisplayWidth](#) Returns the current width of the map display in pixels.
- ⇒ [GetFiniteDisplayScaleAt](#) Gets the finite display scale at the specified index.
- ⇒ [GetFiniteDisplayScaleCount](#) Gets the number of finite display scales in the map.
- ⇒ [GetLayerGroups](#) Returns this maps layer groups.
- ⇒ [GetLayers](#) Returns this maps layers.
- ⇒ [GetMapDefinition](#) Returns the resource identifier that specifies the location of the map definition that was used to create this map.
- ⇒ [GetMapExtent](#) Returns the the overall extent of the map.

⇒ GetMapSRS	Gets the spatial reference system used to display this map.
⇒ GetName	Gets the name of this map.
⇒ GetObjectId	Gets an identifier that can be used to uniquely identify this map.
⇒ GetSessionId	Gets the identifier of the session associated with this map.
⇒ GetViewCenter	Gets the current center point of the map, in the spatial reference system of the map.
⇒ GetViewScale	Gets the current scale of the map.
⇒ LoadLayer	Load a .layer file into this map.
⇒ Open	Loads the map object from a session repository.
⇒ SaveLayer	Saves a layer to a .layer file.
⇒ SetViewCenter	Sets the current center point of the map, in the spatial reference system of the map.
⇒ SetViewScale	Sets the scale of the map.
⇒ ZoomToExtent	Zomm the current map to the specified extent.

Remarks

MgXX classes belong to the `OsGeo.MapGuide` namespace and are descibed in the Geospatial Platform Reference.

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AcMapMap Events

[AcMapMap Class](#)

AcMapMap detects the following events.

Events

FeatureInstanceAdded	Occurs when a feature instance has been added.
FeatureInstanceModified	Occurs when a feature instance has been modified.
FeatureInstanceRemoved	Occurs when a feature instance has been removed.
FeatureInstanceToBeAdded	Occurs when a feature instance is about to be added.
FeatureInstanceToBeModified	Occurs when a feature instance is about to be modified.
FeatureInstanceToBeRemoved	Occurs when a feature instance is about to be removed.
GroupAdded	Occurs when a group has been added.
GroupModified	Occurs when a group has been modified.
GroupRemoved	Occurs when a group has been removed.
LayerAdded	Occurs when a layer has been added.
LayerModified	Occurs when a layer has been modified.
LayerRemoved	Occurs when a layer has been removed.

AcMapMap:: FeatureInstanceAdded Event

[AcMapMap Class](#) [FeatureInstanceAddedEventArgs Class](#)

Occurs when a feature instance has been added.

```
public event FeatureInstanceAddedHandler FeatureInstanceAdded  
Handler  
public delegate void  
FeatureInstanceAddedHandler(  
    Object sender,  
    FeatureInstanceAddedEventArgs e);
```


AcMapMap:: FeatureInstanceModified Event

[AcMapMap Class](#) [FeatureInstanceToBeModifiedEventArgs Class](#)

Occurs when a feature instance has been modified.

```
public event FeatureInstanceModifiedHandler FeatureInstanceModified
Handler
public delegate void
FeatureInstanceModifiedHandler(
    Object sender,
    FeatureInstanceToBeModifiedEventArgs e);
```

AcMapMap:: FeatureInstanceRemoved Event

[AcMapMap Class](#) [FeatureInstanceRemovedEventArgs Class](#)

Occurs when a feature instance has been removed.

```
public event FeatureInstanceRemovedHandler FeatureInstanceRemoved  
Handler  
public delegate void  
FeatureInstanceRemovedHandler(  
    Object sender,  
    FeatureInstanceRemovedEventArgs e);
```

AcMapMap:: FeatureInstanceToBeAdded Event
[AcMapMap Class](#) [FeatureInstanceToBeAddedEventArgs Class](#)

Occurs when a feature instance is about to be added.

```
public event FeatureInstanceToBeAddedHandler FeatureInstanceToBeAdde  
Handler  
public delegate void  
FeatureInstanceToBeAddedHandler(  
    Object sender,  
    FeatureInstanceToBeAddedEventArgs e);
```

AcMapMap:: FeatureInstanceToBeModified Event

[AcMapMap Class](#) [FeatureInstanceToBeModifiedEventArgs Class](#)

Occurs when a feature instance is about to be modified.

```
public event FeatureInstanceToBeModifiedHandler FeatureInstanceToBeM
Handler
public delegate void
FeatureInstanceToBeModifiedHandler(
    Object sender,
    FeatureInstanceToBeModifiedEventArgs e);
```

AcMapMap:: FeatureInstanceToBeRemoved Event
[AcMapMap Class](#) [FeatureInstanceToBeRemovedEventArgs Class](#)

Occurs when a feature instance is about to be removed.

```
public event FeatureInstanceToBeRemovedHandler FeatureInstanceToBeRe  
Handler  
public delegate void  
FeatureInstanceToBeRemovedHandler(  
    Object sender,  
    FeatureInstanceToBeRemovedEventArgs e);
```

AcMapMap:: GroupAdded Event

[AcMapMap Class](#) [AcMapMappingEventArgs Class](#)

Occurs when a group has been added.

```
public event GroupAddedHandler GroupAdded  
Handler  
public delegate void  
GroupAddedHandler(  
    Object sender,  
    AcMapMappingEventArgs e);
```

AcMapMap:: GroupModified Event

[AcMapMap Class](#) [AcMapMappingEventArgs Class](#)

Occurs when a group has been modified.

```
public event GroupModifiedHandler GroupModified
Handler
public delegate void
GroupModifiedHandler(
    Object sender,
    AcMapMappingEventArgs e);
```

AcMapMap:: GroupRemoved Event

[AcMapMap Class](#) [AcMapMappingEventArgs Class](#)

Occurs when a group has been removed.

```
public event GroupRemovedHandler GroupRemoved  
Handler  
public delegate void  
GroupRemovedHandler(  
    Object sender,  
    AcMapMappingEventArgs e);
```


AcMapMap:: LayerAdded Event

[AcMapMap Class](#) [AcMapMappingEventArgs Class](#)

Occurs when a layer has been added.

```
public event LayerAddedHandler LayerAdded  
Handler  
public delegate void  
LayerAddedHandler(  
    Object sender,  
    AcMapMappingEventArgs e);
```

AcMapMap:: LayerModified Event

[AcMapMap Class](#) [AcMapMappingEventArgs Class](#)

Occurs when a layer has been modified.

```
public event LayerModifiedHandler LayerModified
Handler
public delegate void
LayerModifiedHandler(
    Object sender,
    AcMapMappingEventArgs e);
```

AcMapMap:: LayerRemoved Event

[AcMapMap Class](#) [AcMapMappingEventArgs Class](#)

Occurs when a layer has been removed.

```
public event LayerRemovedHandler LayerRemoved  
Handler  
public delegate void  
LayerRemovedHandler(  
    Object sender,  
    AcMapMappingEventArgs e);
```

Links

[AcMapMap Class](#), [AcMapMap Class](#)

AcMapMap:: Create Method

(MgResourceService*, MgResourceIdentifier*, string)

[AcMapMap Class](#)

Initializes a new Map object given a resource service, map definition, and a name for the map.

```
virtual void Create(  
    MgResourceService* resourceService,  
    MgResourceIdentifier* mapDefinition,  
    string mapName  
);
```

Parameters

Description

resourceService

An MgResourceService that can be used to retrieve the map definition.

mapDefinition

An MgResourceIdentifier that specifies the location of the map definition in a resource repository.

mapName

A string that specifies the name of the map.

Returns

Returns nothing.

Remarks

This method is not supported in AutoCAD Map 3D and will always throw MgNotImplementedException.

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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Links

[AcMapMap Class](#), [AcMapMap Class](#)

AcMapMap:: Create Method

(string, MgEnvelope*, string)

[AcMapMap Class](#)

Initializes a new Map object given a spatial reference system, spatial extent of the map, and a name for the map.

```
virtual void Create(  
    string mapSRS,  
    MgEnvelope* mapExtent,  
    string mapName  
);
```

Parameters

Description

mapSRS

A string specifying the spatial reference system in OpenGIS WKT format.

mapExtent

An MgEnvelope defining the overall extent of the map.

mapName

A string that specifies the name of the map.

Returns

Returns nothing.

Remarks

This method is not supported in AutoCAD Map 3D and will always throw MgNotImplementedException.

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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Links

[AcMapMap Class](#), [AcMapMap Class](#)

AcMapMap:: ForceScreenRefresh Method

[AcMapMap Class](#)

Forces the editor window to repaint its contents.

```
static void ForceScreenRefresh();
```

Returns

Nothing

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Links

[AcMapMap Class](#), [AcMapMap Class](#)

[AcMapMap:: GetBackgroundColor Method](#)

[AcMapMap Class](#)

Returns the background color for the map.

```
virtual string GetBackgroundColor();
```

Returns

Background color

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Links

[AcMapMap Class](#), [AcMapMap Class](#)

AcMapMap:: GetCurrentMap Method

[AcMapMap Class](#)

Gets this interface for the current Map DisplayManager.

```
static AcMapMap* GetCurrentMap();
```

Returns

Returns an [AcMapMap](#) that presents the current map DisplayManager.

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Links

[AcMapMap Class](#), [AcMapMap Class](#)

[AcMapMap:: GetDataExtent Method](#)

[AcMapMap Class](#)

Returns the extent of the data to be generated for the map in the spatial reference system of the map.

```
virtual MgEnvelope* GetDataExtent();
```

Returns

Returns an MgEnvelope that defines the current data extent.

Remarks

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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Links

[AcMapMap Class](#), [AcMapMap Class](#)

[AcMapMap:: GetDisplayDpi Method](#)

[AcMapMap Class](#)

Returns the number of dots per inch of the map display.

```
virtual long GetDisplayDpi();
```

Returns

Returns the number of dots per inch of the map display.

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Links

[AcMapMap Class](#), [AcMapMap Class](#)

AcMapMap:: GetDisplayHeight Method

[AcMapMap Class](#)

Returns the current height of the map display in pixels.

```
virtual long GetDisplayHeight();
```

Returns

Returns the height of the map display in pixels.

Remarks

This method is meaningless in Map.

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Links

[AcMapMap Class](#), [AcMapMap Class](#)

AcMapMap:: GetDisplayWidth Method

[AcMapMap Class](#)

Returns the current width of the map display in pixels.

```
virtual long GetDisplayWidth();
```

Returns

Returns the width of the map display in pixels.

Remarks

This method is meaningless in Map.

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Links

[AcMapMap Class](#), [AcMapMap Class](#)

AcMapMap:: GetFiniteDisplayScaleAt Method

[AcMapMap Class](#)

Gets the finite display scale at the specified index.

```
virtual double GetFiniteDisplayScaleAt(  
    long index  
);
```

Parameters

Description

index

Index of the finite display scale to get.

Returns

Returns the finite display scale.

Remarks

This method is not supported in AutoCAD Map 3D and will always throw `MgNotImplementedException`.

MgXX classes belong to the `OsGeo.MapGuide` namespace and are described in the Geospatial Platform Reference.

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Links

[AcMapMap Class](#), [AcMapMap Class](#)

AcMapMap:: GetFiniteDisplayScaleCount Method

[AcMapMap Class](#)

Gets the number of finite display scales in the map.

```
virtual long GetFiniteDisplayScaleCount();
```

Returns

Returns the number of finite display scales in the map.

Remarks

This method is not supported in AutoCAD Map 3D and will always throw MgNotImplementedException.

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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Links

[AcMapMap Class](#), [AcMapMap Class](#)

[AcMapMap:: GetLayerGroups Method](#)

[AcMapMap Class](#)

Returns this maps layer groups.

```
virtual MgLayerGroupCollection* GetLayerGroups();
```

Returns

Returns an MgLayerGroupCollection that contains the map layer groups.

Remarks

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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Links

[AcMapMap Class](#), [AcMapMap Class](#)

[AcMapMap:: GetLayers Method](#)

[AcMapMap Class](#)

Returns this maps layers.

```
virtual MgLayerCollection* GetLayers();
```

Returns

Returns an MgLayerCollection that contains the map layers.

Remarks

MgXX classes belong to the OsGeo.MapGuide namespace and are descibed in the Geospatial Platform Reference.

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Links

[AcMapMap Class](#), [AcMapMap Class](#)

AcMapMap:: GetMapDefinition Method

[AcMapMap Class](#)

Returns the resource identifier that specifies the location of the map definition that was used to create this map.

```
virtual MgResourceIdentifier* GetMapDefinition();
```

Returns

Returns an MgResourceIdentifier that specifies the location of the map definition.

Remarks

This method is not supported in AutoCAD Map 3D and will always throw MgNotImplementedException.

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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Links

[AcMapMap Class](#), [AcMapMap Class](#)

[AcMapMap:: GetMapExtent Method](#)

[AcMapMap Class](#)

Returns the the overall extent of the map.

```
virtual MgEnvelope* GetMapExtent();
```

Returns

Returns an MgEnvelope that defines the overall extent of the map.

Remarks

MgXX classes belong to the OsGeo.MapGuide namespace and are descibed in the Geospatial Platform Reference.

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Links

[AcMapMap Class](#), [AcMapMap Class](#)

AcMapMap:: GetMapSRS Method

[AcMapMap Class](#)

Gets the spatial reference system used to display this map.

```
virtual string GetMapSRS();
```

Returns

Returns the spatial reference system in the OpenGIS WKT (Well Known Text) format as a string.

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Links

[AcMapMap Class](#), [AcMapMap Class](#)

AcMapMap::GetName Method

[AcMapMap Class](#)

Gets the name of this map.

```
virtual string GetName();
```

Returns

Returns the name of the map as a string.

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Links

[AcMapMap Class](#), [AcMapMap Class](#)

AcMapMap:: GetObjectId Method

[AcMapMap Class](#)

Gets an identifier that can be used to uniquely identify this map.

```
virtual string GetObjectId();
```

Returns

Returns the unique identifier of this map as a string.

Remarks

This method is not supported in AutoCAD Map 3D and will always throw MgNotImplementedException.

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Links

[AcMapMap Class](#), [AcMapMap Class](#)

AcMapMap:: GetSessionId Method

[AcMapMap Class](#)

Gets the identifier of the session associated with this map.

```
string GetSessionId();
```

Returns

Returns the session id of the map as a string.

Remarks

This method is not supported in AutoCAD Map 3D and will always throw `MgNotImplementedException`.

MgXX classes belong to the `OsGeo.MapGuide` namespace and are described in the Geospatial Platform Reference.

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Links

[AcMapMap Class](#), [AcMapMap Class](#)

AcMapMap:: GetViewCenter Method

[AcMapMap Class](#)

Gets the current center point of the map, in the spatial reference system of the map.

```
virtual MgPoint* GetViewCenter();
```

Returns

Returns an MgPoint that specifies the center of the map.

Remarks

This method is not supported in AutoCAD Map 3D and will always throw MgNotImplementedException.

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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Links

[AcMapMap Class](#), [AcMapMap Class](#)

[AcMapMap:: GetViewScale Method](#)

[AcMapMap Class](#)

Gets the current scale of the map.

```
virtual double GetViewScale();
```

Returns

Returns a double that specifies the scale of the map.

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Links

[AcMapMap Class](#), [AcMapMap Class](#)

AcMapMap:: LoadLayer Method

[AcMapMap Class](#)

Load a .layer file into this map.

```
virtual void LoadLayer(  
    string layerFile  
);
```

Parameters

Description

layerFile

The path of the .layer file.

Returns

Returns nothing.

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Links

[AcMapMap Class](#), [AcMapMap Class](#)

AcMapMap:: Open Method

[AcMapMap Class](#)

Loads the map object from a session repository.

```
virtual void Open(  
    MgResourceService* resourceService,  
    string mapName  
);
```

Parameters

Description

resourceService

An MgResourceService that can be used to retrieve the map.

mapName

A string that specifies the name of the map. This is the name that was specified when "Create" was called to create the map object.

Returns

Returns nothing.

Remarks

This method is not supported in AutoCAD Map 3D and will always throw MgNotImplementedException.

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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Links

[AcMapMap Class](#), [AcMapMap Class](#)

AcMapMap:: SaveLayer Method

[AcMapMap Class](#)

Saves a layer to a .layer file.

```
virtual void SaveLayer(  
    MgLayerBase * layer,  
    string layerFile  
) const;
```

Parameters

Description

layer

The layer to be saved.

layerFile

The path to save the .layer file.

Returns

Returns nothing.

Remarks

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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Links

[AcMapMap Class](#), [AcMapMap Class](#)

AcMapMap:: SetViewCenter Method

[AcMapMap Class](#)

Sets the current center point of the map, in the spatial reference system of the map.

```
virtual void SetViewCenter(  
    MgPoint* center  
);
```

Parameters	Description
center	Center of the map.

Returns

Nothing

Remarks

This method is not supported in AutoCAD Map 3D and will always throw MgNotImplementedException.

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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Links

[AcMapMap Class](#), [AcMapMap Class](#)

AcMapMap:: SetViewScale Method

[AcMapMap Class](#)

Sets the scale of the map.

```
virtual void SetViewScale(  
    double scale  
);
```

Parameters	Description
scale	Scale of the map.

Returns

Nothing.

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Links

[AcMapMap Class](#), [AcMapMap Class](#)

[AcMapMap:: ZoomToExtent Method](#)

[AcMapMap Class](#)

Zomm the current map to the specified extent.

```
virtual void ZoomToExtent(  
    MgEnvelope* envelope  
);
```

Remarks

This method is provided to obtain feedback from customers. In future releases it may change in functionality or be deprecated.

MgXX classes belong to the OsGeo.MapGuide namespace and are descibed in the Geospatial Platform Reference.

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Links

[Autodesk.Gis.Map.Platform Namespace](#), [Class Hierarchy](#)

AcMapResourceService Class

[Autodesk.Gis.Map.Platform Namespace AcMapResourceService Events](#)

Enables you to manipulate repositories and resources.

```
class AcMapResourceService : public MgResourceService;
```

☐ Methods

- ◆ [ApplyResourcePackage](#) Applies a package of resource changes to the repository.
- ◆ [CopyResource](#) Copies an existing resource to another location.
- ◆ [DeleteResource](#) Deletes an existing resource and its associated data from AutoCAD Map 3D.
- ◆ [ChangeResourceOwner](#) Changes the owner of a resource.
- ◆ [EnumerateReferences](#) Enumerates all the resources which reference the specified resource.
- ◆ [DeleteResourceData](#) Deletes resource data from the specified resource.
- ◆ [EnumerateResourceData](#) Enumerates the resource data for the specified resource.
- ◆ [GetLatestResourceContent](#) Gets the content of the specified resource in the latest supported version.
- ◆ [GetRepositoryContent](#) Get the content for the specified repository.
- ◆ [GetRepositoryHeader](#) Gets the header of the specified repository.
- ◆ [GetResourceData](#) Returns named data for the specified resource.
- ◆ [GetResourceHeader](#) Gets the header associated with the specified resource.
- ◆ [GetResourceMetadata](#) Gets the Metadata content of a resource.
- ◆ [InheritPermissionsFrom](#) Sets the permissions for all descendants of a specified folder to be inherited from the folder.
- ◆ [MoveResource](#) Moves an existing resource to another location.
- ◆ [RenameResourceData](#) Renames resource data for the specified resource.
- ◆ [ResourceExists](#) Checks to see if the specified resource exists in AutoCAD Map 3D.
- ◆ [SetResource](#) Adds a new resource into AutoCAD Map 3D, or updates an existing resource.

- ⇒ [SetResourceData](#) Adds resource data to the specified resource.
- ⇒ [SetResourceMetadata](#) Adds resource data to the specified resource.
- ⇒ [UpdateRepository](#) Updates the header and content of the specified repository.

Remarks

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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AcMapResourceService Events
[AcMapResourceService Class](#)

AcMapResourceService detects the following events.

Events

ResourceAdded	Occurs when a resource has been added.
ResourceAdditionCancelled	Occurs when a resource addition has been canceled.
ResourceModificationCancelled	Occurs when a resource modification has been canceled.
ResourceModified	Occurs when a resource has been modified.
ResourceRemovalCancelled	Occurs when a resource removal has been canceled.
ResourceRemoved	Occurs when a resource has been removed.
ResourceToBeAdded	Occurs when a resource is about to be added.
ResourceToBeModified	Occurs when a resource is about to be modified.
ResourceToBeRemoved	Occurs when a resource is about to be removed.

AcMapResourceService:: ResourceAdded Event

[AcMapResourceService Class](#) [AcMapResourceEventArgs Class](#)

Occurs when a resource has been added.

```
public event ResourceAddedHandler ResourceAdded  
Handler  
public delegate void  
ResourceAddedHandler(  
    Object sender,  
    AcMapResourceEventArgs e);
```

AcMapResourceService:: ResourceAdditionCancelled Event
[AcMapResourceService Class](#) [AcMapResourceEventArgs Class](#)

Occurs when a resource addition has been canceled.

```
public event ResourceAdditionCancelledHandler ResourceAdditionCancel  
Handler  
public delegate void  
ResourceAdditionCancelledHandler(  
    Object sender,  
    AcMapResourceEventArgs e);
```

AcMapResourceService:: ResourceModificationCancelled Event
[AcMapResourceService Class](#) [AcMapResourceEventArgs Class](#)

Occurs when a resource modification has been canceled.

```
public event ResourceModificationCancelledHandler ResourceModificati  
Handler  
public delegate void  
ResourceModificationCancelledHandler(  
    Object sender,  
    AcMapResourceEventArgs e);
```

AcMapResourceService:: ResourceModified Event
[AcMapResourceService Class](#) [AcMapResourceEventArgs Class](#)

Occurs when a resource has been modified.

```
public event ResourceModifiedHandler ResourceModified  
Handler  
public delegate void  
ResourceModifiedHandler(  
    Object sender,  
    AcMapResourceEventArgs e);
```

AcMapResourceService:: ResourceRemovalCancelled Event
[AcMapResourceService Class](#) [AcMapResourceEventArgs Class](#)

Occurs when a resource removal has been canceled.

```
public event ResourceRemovalCancelledHandler ResourceRemovalCancelled  
Handler  
public delegate void  
ResourceRemovalCancelledHandler(  
    Object sender,  
    AcMapResourceEventArgs e);
```

AcMapResourceService:: ResourceRemoved Event
[AcMapResourceService Class](#) [AcMapResourceEventArgs Class](#)

Occurs when a resource has been removed.

```
public event ResourceRemovedHandler ResourceRemoved  
Handler  
public delegate void  
ResourceRemovedHandler(  
    Object sender,  
    AcMapResourceEventArgs e);
```

AcMapResourceService:: ResourceToBeAdded Event
[AcMapResourceService Class](#) [AcMapResourceEventArgs Class](#)

Occurs when a resource is about to be added.

```
public event ResourceToBeAddedHandler ResourceToBeAdded  
Handler  
public delegate void  
ResourceToBeAddedHandler(  
    Object sender,  
    AcMapResourceEventArgs e);
```


AcMapResourceService:: ResourceToBeModified Event
[AcMapResourceService Class](#) [AcMapResourceEventArgs Class](#)

Occurs when a resource is about to be modified.

```
public event ResourceToBeModifiedHandler ResourceToBeModified  
Handler  
public delegate void  
ResourceToBeModifiedHandler(  
    Object sender,  
    AcMapResourceEventArgs e);
```

AcMapResourceService:: ResourceToBeRemoved Event
[AcMapResourceService Class](#) [AcMapResourceEventArgs Class](#)

Occurs when a resource is about to be removed.

```
public event ResourceToBeRemovedHandler ResourceToBeRemoved  
Handler  
public delegate void  
ResourceToBeRemovedHandler(  
    Object sender,  
    AcMapResourceEventArgs e);
```

Links

[AcMapResourceService Class](#), [AcMapResourceService Class](#)

AcMapResourceService:: ApplyResourcePackage Method

[AcMapResourceService Class](#)

Applies a package of resource changes to the repository.

```
virtual void ApplyResourcePackage(  
    MgByteReader* resourcePackage  
);
```

Parameters

Description

resourcePackage

The package containing resources to update.

Remarks

This method is not supported in AutoCAD Map 3D and will always throw MgNotImplementedException.

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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Links

[AcMapResourceService Class](#), [AcMapResourceService Class](#)

AcMapResourceService::CopyResource Method

[AcMapResourceService Class](#)

Copies an existing resource to another location.

```
virtual void CopyResource(  
    MgResourceIdentifier* sourceResource,  
    MgResourceIdentifier* destResource,  
    bool overwrite  
);
```

Parameters	Description
overwrite	Flag to determine whether or not the destination resource should be overwritten if it exists.
sourceResourceId	The identifier of the resource to be copied.
destResourceId	
Remarks	

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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Links

[AcMapResourceService Class](#), [AcMapResourceService Class](#)

AcMapResourceService:: DeleteResource Method

[AcMapResourceService Class](#)

Deletes an existing resource and its associated data from AutoCAD Map 3D.

```
virtual void DeleteResource(  
    MgResourceIdentifier* resource  
);
```

Parameters

Description

resource

The identifier of the resource to be deleted.

Remarks

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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Links

[AcMapResourceService Class](#), [AcMapResourceService Class](#)

AcMapResourceService:: ChangeResourceOwner Method

[AcMapResourceService Class](#)

Changes the owner of a resource.

```
virtual void ChangeResourceOwner(  
    MgResourceIdentifier* resource,  
    string owner,  
    bool includeDescendants  
);
```

Parameters	Description
resource	The identifier of the resource to be changed owner.
owner	The User ID of the new owner.
includeDescendants	Flag to determine whether or not the owners of descendant resources should be also be changed.

Remarks

This method is not supported in AutoCAD Map 3D and will always throw MgNotImplementedException.

MgXX classes belong to the OsGeo.MapGuide namespace and are descibed in the Geospatial Platform Reference.

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Links

[AcMapResourceService Class](#), [AcMapResourceService Class](#)

AcMapResourceService::EnumerateReferences Method

[AcMapResourceService Class](#)

Enumerates all the resources which reference the specified resource.

```
virtual MgByteReader* EnumerateReferences(  
    MgResourceIdentifier* resource  
);
```

Parameters

Description

resource

The identifier of resource to get references for.

Returns

Returns an MgByteReader object containing the list of all resources which reference the specified resource. The list is in XML format using the ResourceReferenceList schema.

Remarks

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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Links

[AcMapResourceService Class](#), [AcMapResourceService Class](#)

AcMapResourceService:: DeleteResourceData Method

[AcMapResourceService Class](#)

Deletes resource data from the specified resource.

```
virtual void DeleteResourceData(  
    MgResourceIdentifier* resource,  
    string dataName  
);
```

Parameters

Description

resource

The identifier of the Resource to which this data is to be associated.

dataName

Name for the data.

Remarks

This method is not supported in AutoCAD Map 3D and will always throw MgNotImplementedException.

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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Links

[AcMapResourceService Class](#), [AcMapResourceService Class](#)

AcMapResourceService::EnumerateResourceData Method

[AcMapResourceService Class](#)

Enumerates the resource data for the specified resource.

```
virtual MgByteReader* EnumerateResourceData(  
    MgResourceIdentifier* resource  
);
```

Parameters

Description

resource

The identifier of resource for which the resource data will be listed.

Returns

Returns an MgByteReader object representing the description of the resource data in XML format using the ResourceDataList schema.

Remarks

This method is not supported in AutoCAD Map 3D and will always throw MgNotImplementedException.

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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Links

[AcMapResourceService Class](#), [AcMapResourceService Class](#)

AcMapResourceService:: GetLatestResourceContent Method

[AcMapResourceService Class](#)

Gets the content of the specified resource in the latest supported version.

```
virtual MgByteReader* GetLatestResourceContent(  
    MgResourceIdentifier* resource,  
    string preProcessTags  
);
```

Parameters

Description

resource

Resource identifier describing the resource.

preProcessTags

Pre-processing to apply to resource before returning content. An empty string indicate no pre-processing.

Returns

MgByteReader object representing the resource content in the latest supported version.

Remarks

MgXX classes belong to the OsGeo.MapGuide namespace and are descibed in the Geospatial Platform Reference.

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Links

[AcMapResourceService Class](#), [AcMapResourceService Class](#)

AcMapResourceService:: GetRepositoryContent Method

[AcMapResourceService Class](#)

Get the content for the specified repository.

```
virtual MgByteReader* GetRepositoryContent(  
    MgResourceIdentifier* resource  
);
```

Parameters

Description

resource

The identifier of Repository to get content for.

Returns

Returns an MgByteReader object representing the description of the resource data in XML format using the ResourceDataList schema.

Remarks

This method is not supported in AutoCAD Map 3D and will always throw MgNotImplementedException.

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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Links

[AcMapResourceService Class](#), [AcMapResourceService Class](#)

AcMapResourceService:: GetRepositoryHeader Method

[AcMapResourceService Class](#)

Gets the header of the specified repository.

```
virtual MgByteReader* GetRepositoryHeader(  
    MgResourceIdentifier* resource  
);
```

Parameters

Description

resource

The identifier of Repository to get header for.

Returns

Returns an MgByteReader object representing the description of the resource data in XML format using the ResourceDataList schema.

Remarks

This method is not supported in AutoCAD Map 3D and will always throw MgNotImplementedException.

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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Links

[AcMapResourceService Class](#), [AcMapResourceService Class](#)

AcMapResourceService:: GetResourceData Method

[AcMapResourceService Class](#)

Returns named data for the specified resource.

```
virtual MgByteReader* GetResourceData(  
    MgResourceIdentifier* resource,  
    string dataName  
);
```

Parameters

Description

resource

The resource for which the Raster resource data will be obtained.

dataName

Name for data (as specified when the data was set via [SetResourceData](#))

Returns

Returns an MgByteReader object containing the Raster resource data.

Remarks

This method works for raster layers only in Map.

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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Links

[AcMapResourceService Class](#), [AcMapResourceService Class](#)

AcMapResourceService:: GetResourceHeader Method

[AcMapResourceService Class](#)

Gets the header associated with the specified resource.

```
virtual MgByteReader* GetResourceHeader(  
    MgResourceIdentifier* resource  
);
```

Parameters

Description

resource

The identifier of the resource to get header for.

Returns

Returns an MgByteReader object containing the resource header in XML format using the ResourceDocumentHeader schema.

Remarks

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Links

[AcMapResourceService Class](#), [AcMapResourceService Class](#)

AcMapResourceService:: GetResourceMetadata Method

[AcMapResourceService Class](#)

Gets the Metadata content of a resource.

```
virtual MgByteReader* GetResourceMetadata(  
    MgResourceIdentifier* resource  
);
```

Parameters

resource

Description

The identifier of resource in the repository has metadata attached to. Note the resource has to exist else this method fails.

Returns

The metadata content in XML format. This can null in which case the resource has no metadata attached. The schema of the Content is user driven and not given. Most people will use it for FGDC or ISO Metadata

Remarks

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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Links

[AcMapResourceService Class](#), [AcMapResourceService Class](#)

AcMapResourceService:: InheritPermissionsFrom Method

[AcMapResourceService Class](#)

Sets the permissions for all descendants of a specified folder to be inherited from the folder.

```
virtual void InheritPermissionsFrom(  
    MgResourceIdentifier* resource  
);
```

Parameters

Description

resource

The identifier of the resource to be changed owner.

Remarks

This method is not supported in AutoCAD Map 3D and will always throw MgNotImplementedException.

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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Links

[AcMapResourceService Class](#), [AcMapResourceService Class](#)

AcMapResourceService:: MoveResource Method

[AcMapResourceService Class](#)

Moves an existing resource to another location.

```
virtual void MoveResource(  
    MgResourceIdentifier* sourceResource,  
    MgResourceIdentifier* destResource,  
    bool overwrite  
);
```

Parameters	Description
overwrite	Flag to determine whether or not the destination resource should be overwritten if it exists.
sourceResourceId	The identifier of the resource to be moved.
destResourceId	The identifier of the destination of resource should be moved to.

Remarks

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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Links

[AcMapResourceService Class](#), [AcMapResourceService Class](#)

AcMapResourceService::RenameResourceData Method

[AcMapResourceService Class](#)

Renames resource data for the specified resource.

```
virtual void RenameResourceData(  
    MgResourceIdentifier* resource,  
    string oldDataName,  
    string newDataName,  
    bool overwrite  
);
```

Parameters	Description
resource	The identifier of resource for which the resource data will be renamed.
oldDataName	Old data name.
newDataName	New data name.
overwrite	Flag to determine whether or not the destination resource data should be overwritten if it exists.

Remarks

This method is not supported in AutoCAD Map 3D and will always throw `MgNotImplementedException`.

MgXX classes belong to the `OsGeo.MapGuide` namespace and are described in the Geospatial Platform Reference.

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Links

[AcMapResourceService Class](#), [AcMapResourceService Class](#)

AcMapResourceService:: ResourceExists Method

[AcMapResourceService Class](#)

Checks to see if the specified resource exists in AutoCAD Map 3D.

```
virtual bool ResourceExists(  
    MgResourceIdentifier* resource  
);
```

Parameters

Description

resource

The identifier of the resource to be verified.

Returns

Returns true if the specific resource exists.

Remarks

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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Links

[AcMapResourceService Class](#), [AcMapResourceService Class](#)

AcMapResourceService:: SetResource Method

[AcMapResourceService Class](#)

Adds a new resource into AutoCAD Map 3D, or updates an existing resource.

```
virtual void SetResource(  
    MgResourceIdentifier* resource,  
    MgByteReader* content,  
    MgByteReader* header  
);
```

Parameters	Description
resource	The identifier of the resource to be set.
content	The resource content in XML format using the schema appropriate for the resource type. Or when updating an existing resource, this can be set to null, in which case the content is not changed.
header	The resource header in XML format. This uses ResourceFolderHeader_schema for folder resources and ResourceDocumentHeader for all other resources. Or, if you are updating an existing resource in the library, this can be set to null, in which case the permissions are set to be inherited from the parent folder.

Remarks

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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Links

[AcMapResourceService Class](#), [AcMapResourceService Class](#)

AcMapResourceService:: SetResourceData Method

[AcMapResourceService Class](#)

Adds resource data to the specified resource.

```
virtual void SetResourceData(  
    MgResourceIdentifier* resource,  
    string dataName,  
    string dataType,  
    MgByteReader* data  
);
```

Parameters	Description
resource	The identifier of the Resource to which this data is to be associated.
dataName	Name for the data.
dataType	Data type for the resource data. It must match one of the types defined in MgResourceDataType and is case sensitive.
data	Data to set.

Remarks

In Map, this method is used for adding the configuration for raster layers only. Won't work for vector layers.

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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Links

[AcMapResourceService Class](#), [AcMapResourceService Class](#)

AcMapResourceService:: SetResourceMetadata Method

[AcMapResourceService Class](#)

Adds resource data to the specified resource.

```
virtual void SetResourceMetadata(  
    MgResourceIdentifier* resource,  
    MgByteReader* content  
);
```

Parameters

Description

resource

The identifier of resource to which this data is to be associated. Note the resource has to exist else this method fails.

content

The metadata content in XML format. This can be set to null, in which case the content is cleared.

The schema of the Content is user driven and not given. Most people will use it for FGDC or ISO Metadata

Remarks

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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Links

[AcMapResourceService Class](#), [AcMapResourceService Class](#)

AcMapResourceService:: UpdateRepository Method

[AcMapResourceService Class](#)

Updates the header and content of the specified repository.

```
virtual void UpdateRepository(  
    MgResourceIdentifier* resource,  
    MgByteReader* content,  
    MgByteReader* header  
);
```

Parameters	Description
resource	The identifier of the Repository to update.
content	Repository content in XML format using the RepositoryContent schema. Or, if the repository is the library, this can be set to null in which case the content is not changed.
header	If the repository is the library, this is the repository header in XML format using the ResourceFolderHeader_schema schema. Or, this can be set to null in which case the header is not changed. If the repository is a session repository, this must be null.

Remarks

This method is not supported in AutoCAD Map 3D and will always throw MgNotImplementedException.

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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Links

[Autodesk.Gis.Map.Platform Namespace](#), [Class Hierarchy](#)

AcMapSelection Class

[Autodesk.Gis.Map.Platform Namespace](#)

Provides methods for getting selected features.

```
class AcMapSelection : public MgSelectionBase;
```

☐ Methods

[AcMapSelection](#) Initialize selection generation from a map.

[AcMapSelection](#) Initialize selection generation from a map.

⇒ [GetSelectedFeatures](#) Returns the data of selected features.

⇒ [GetSelectedFeatures](#) Returns the data of selected features.

Remarks

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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Links

[AcMapSelection Class](#), [AcMapSelection Class](#)

AcMapSelection:: AcMapSelection Constructor

(AcMapMap*, string)

[AcMapSelection Class](#)

Initialize selection generation from a map.

```
AcMapSelection(  
    AcMapMap* map,  
    string xmlSelectionString  
);
```

Parameters	Description
map'	specific map to apply selection
xmlSelectionString'	xml format representation of selection

Remarks

This method is provided to obtain feedback from customers. In future releases it may change in functionality or be deprecated.

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Links

[AcMapSelection Class](#), [AcMapSelection Class](#)

AcMapSelection:: GetSelectedFeatures Method

(MgLayerBase*, string, MgStringCollection*)

[AcMapSelection Class](#)

Returns the data of selected features.

```
virtual MgFeatureReader* GetSelectedFeatures(  
    MgLayerBase* layer,  
    string featureClass,  
    MgStringCollection* propertyNames  
);
```

Parameters	Description
featureClass	Input feature class name.
propertyNames	properties to return for selected features.
layer'	Input layer.

Returns

Returns a feature reader over all the features of the given feature class in this selection.

Remarks

The returned feature reader can contain features of different types.

This method is provided to obtain feedback from customers. In future releases it may change in functionality or be deprecated.

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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Links

[AcMapSelection Class](#), [AcMapSelection Class](#)

AcMapSelection:: GetSelectedFeatures Method

(MgLayerBase*, string, bool)

[AcMapSelection Class](#)

Returns the data of selected features.

```
virtual MgFeatureReader* GetSelectedFeatures(  
    MgLayerBase* layer,  
    string featureClass,  
    bool mappedOnly  
);
```

Parameters	Description
featureClass	Input feature class name.
mappedOnly	return mapped (true) or all (false) properties for selected features
layer'	Input layer.

Returns

Returns a feature reader over all the features of the given feature class in this selection.

Remarks

The returned feature reader can contain features of different types.

This method is provided to obtain feedback from customers. In future releases it may change in functionality or be deprecated.

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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Links

[Autodesk.Gis.Map.Platform Namespace](#), [Class Hierarchy](#)

AcMapServiceFactory Class

[Autodesk.Gis.Map.Platform Namespace](#)

Factory class to obtain AutoCAD Map 3D specific services.

class AcMapServiceFactory;

▣ Methods

◆ [GetService](#) Gets the service object in the application given a service type.

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Links

[AcMapServiceFactory Class](#), [AcMapServiceFactory Class](#)

AcMapServiceFactory:: GetService Method

[AcMapServiceFactory Class](#)

Gets the service object in the application given a service type.

```
static MgService* GetService(  
    long serviceType  
);
```

Parameters

Description

serviceType	Type of service; valid values are MgServiceType::ResourceService and MgServiceType::FeatureService. The other types in MgServiceType are not supported in AutoCAD Map 3D.
-------------	---

Returns

Return Service object, which is MgResourceService if serviceType is MgServiceType::ResourceService MgFeatureService if serviceType is MgServiceType::FeatureService

Remarks

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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Links

[Autodesk.Gis.Map.Platform Namespace](#)

Constants

[Autodesk.Gis.Map.Platform Namespace](#)

The following classes define constants.

▣ Classes

ClassSystemProperties	Defines three system properties (properties that are not part of the feature class), plus an enumeration of values for the FeatureStatus property.
EditMode	An enumeration of edit modes.
EntityType	An enumeration of entity types.

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Links

[Constants](#), [Class Hierarchy](#)

ClassSystemProperties Class

[Constants](#)

Defines three system properties (properties that are not part of the feature class), plus an enumeration of values for the [FeatureStatus](#) property.

```
class ClassSystemProperties;
```

Remarks

The three system properties are [FeatureLockStatus](#), [FeatureStatus](#), and [SessionId](#). The values for the [FeatureStatus](#) property are [FeatureStatusNew](#), [FeatureStatusModified](#), and [FeatureStatusDeleted](#). The system properties can be used in methods of `OSGeo.MapGuide.MgFeatureQueryOptions` that take a filter string.

▣ Data Members

FeatureLockStatus	Feature lock status.
FeatureStatus	Feature status, a string value, one of FeatureStatusNew , FeatureStatusModified , or FeatureStatusDeleted .
FeatureStatusDeleted	4: The feature has been deleted.
FeatureStatusModified	2: The feature has been modified.
FeatureStatusNew	1: The feature is new.
SessionId	A property that identifies a feature in a cached layer.

MgXX classes belong to the `OsGeo.MapGuide` namespace and are described in the Geospatial Platform Reference.

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Links

[ClassSystemProperties Class](#), [ClassSystemProperties Class](#)

ClassSystemProperties:: FeatureLockStatus Data Member

[ClassSystemProperties Class](#)

Feature lock status.

```
const string FeatureLockStatus;
```

Remarks

FeatureLockStatus values:

- > NotLocked = 0.
- > LockedPersistently = 1 (locked in the cache and locked in the database).
- > LockedOffline = 2 (locked in the cache but not locked in the database). This status is assigned to a feature when a user checks it out from the cache while not connected to the database, a status which becomes LockedPersistently with the first check in that the user performs after reconnecting.

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Links

[ClassSystemProperties Class](#), [ClassSystemProperties Class](#)

ClassSystemProperties:: FeatureStatus Data Member

[ClassSystemProperties Class](#)

Feature status, a string value, one of [FeatureStatusNew](#), [FeatureStatusModified](#), or [FeatureStatusDeleted](#).

```
const string FeatureStatus;
```

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Links

[ClassSystemProperties Class](#), [ClassSystemProperties Class](#)

ClassSystemProperties:: FeatureStatusDeleted Data Member

[ClassSystemProperties Class](#)

4: The feature has been deleted.

```
const int FeatureStatusDeleted;
```

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Links

[ClassSystemProperties Class](#), [ClassSystemProperties Class](#)

ClassSystemProperties:: FeatureStatusModified Data Member

[ClassSystemProperties Class](#)

2: The feature has been modified.

const int FeatureStatusModified;

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Links

[ClassSystemProperties Class](#), [ClassSystemProperties Class](#)

ClassSystemProperties:: FeatureStatusNew Data Member

[ClassSystemProperties Class](#)

1: The feature is new.

const int FeatureStatusNew;

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Links

[ClassSystemProperties Class](#), [ClassSystemProperties Class](#)

ClassSystemProperties:: SessionId Data Member

[ClassSystemProperties Class](#)

A property that identifies a feature in a cached layer.

```
const string SessionId;
```

Remarks

This property can be used in the query filters against the layer.

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Links

[Constants](#), [Class Hierarchy](#)

EditMode Class

[Constants](#)

An enumeration of edit modes.

class EditMode;

▣ Data Members

[DirectUpdate](#)

1: Edits are committed immediately.

[EditSet](#)

0: Edits are committed when the user wants
(transactional mode).

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Links

[EditMode Class](#), [EditMode Class](#)

EditMode:: DirectUpdate Data Member

[EditMode Class](#)

1: Edits are committed immediately.

```
const long DirectUpdate = 1;
```

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Links

[EditMode Class](#), [EditMode Class](#)

EditMode:: EditSet Data Member

[EditMode Class](#)

0: Edits are committed when the user wants (transactional mode).

```
const long EditSet = 0;
```

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Links

[Constants](#), [Class Hierarchy](#)

EntityType Class

[Constants](#)

An enumeration of entity types.

```
class EntityType;
```

▣ Data Members

[AutoCADEntity](#)

0: An AutoCAD entity, such as line, point, or arc.

[BulkEntity](#)

2: An AutoCAD entity representing everything contained in a cached layer, serving as a visual guide to selecting a feature for editing.

[FeatureEntity](#)

1: An AutoCAD entity representing a checked-out feature.

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Links

[EntityType Class](#), [EntityType Class](#)

EntityType:: AutoCADEntity Data Member

[EntityType Class](#)

0: An AutoCAD entity, such as line, point, or arc.

```
const long AutoCADEntity = 0;
```

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Links

[EntityType Class](#), [EntityType Class](#)

EntityType:: BulkEntity Data Member

[EntityType Class](#)

2: An AutoCAD entity representing everything contained in a cached layer, serving as a visual guide to selecting a feature for editing.

```
const long BulkEntity = 2;
```

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Links

[EntityType Class](#), [EntityType Class](#)

EntityType:: FeatureEntity Data Member

[EntityType Class](#)

1: An AutoCAD entity representing a checked-out feature.

```
const long FeatureEntity = 1;
```

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Links

[Autodesk.Gis.Map.Platform Namespace](#)

EventArgs Classes

[Autodesk.Gis.Map.Platform Namespace](#)

The following classes are used by handlers of Autodesk.Gis.Map.Platform events.

▣ Classes

AcMapEventArgs	Base class for EventArgs classes in Autodesk.Gis.Map.Platform.
AcMapFeatureEventArgs	Used by handlers of AcMapFeatureService events.
AcMapFeatureToBeEventArgs	Used by handlers of AcMapFeatureService events.
AcMapLongTransactionEventArgs	Used by handlers of AcMapFeatureService events.
AcMapLongTransactionToBeEventArgs	Used by handlers of AcMapFeatureService events.
AcMapMappingEventArgs	Used by handlers of AcMapMap events.
AcMapResourceEventArgs	Used by handlers of AcMapResourceService events.
FeatureInstanceAddedEventArgs	Used by handlers of AcMapMap events.
FeatureInstanceModifiedEventArgs	Used by handlers of AcMapMap events.
FeatureInstanceRemovedEventArgs	Used by handlers of AcMapMap events.
FeatureInstanceToBeAddedEventArgs	Used by handlers of AcMapMap events.
FeatureInstanceToBeModifiedEventArgs	Used by handlers of AcMapMap events.
FeatureInstanceToBeRemovedEventArgs	Used by handlers of AcMapMap events.

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AcMapEventArgs Class

[EventArgs Classes](#)

Base class for EventArgs classes in Autodesk.Gis.Map.Platform..

```
class AcMapEventArgs : OSGeo.MapGuide.ManagedEventArgs
```

Members

```
void Dispose();
```

```
Int32 GetClassId();
```

AcMapFeatureEventArgs Class

[EventArgs Classes](#)

Used by handlers of AcMapFeatureService events..

```
class AcMapFeatureEventArgs : AcMapEventArgs
```

Members

```
void Dispose();
```

```
Int32 GetClassId();
```

```
AcMapFeature GetFeature();
```

```
MgResourceIdentifier GetResourceIdentifier();
```


AcMapFeatureToBeEventArgs Class

[EventArgs Classes](#)

Used by handlers of AcMapFeatureService events..

```
class AcMapFeatureToBeEventArgs : AcMapEventArgs
```

Members

```
void Dispose();
```

```
Int32 GetClassId();
```

```
bool GetHandled();
```

```
void SetHandled();
```

AcMapLongTransactionEventArgs Class

[EventArgs Classes](#)

Used by handlers of AcMapFeatureService events..

```
class AcMapLongTransactionEventArgs : AcMapEventArgs
```

Members

```
void Dispose();
```

```
Int32 GetClassId();
```

```
string GetLtName();
```

```
MgResourceIdentifier GetResourceIdentifier();
```

AcMapLongTransactionToBeEventArgs Class

[EventArgs Classes](#)

Used by handlers of AcMapFeatureService events..

```
class AcMapLongTransactionToBeEventArgs : AcMapEventArgs
```

Members

```
void Dispose();
```

```
Int32 GetClassId();
```

```
bool GetHandled();
```

```
void SetHandled();
```

AcMapMappingEventArgs Class

[EventArgs Classes](#)

Used by handlers of AcMapMap events..

```
class AcMapMappingEventArgs : AcMapEventArgs
```

Members

```
void Dispose();
```

```
Int32 GetClassId();
```

```
string GetName();
```

```
string Name property
```

AcMapResourceEventArgs Class

[EventArgs Classes](#)

Used by handlers of AcMapResourceService events..

```
class AcMapResourceEventArgs : AcMapEventArgs
```

Members

```
void Dispose();
```

```
Int32 GetClassId();
```

```
MgResourceIdentifier GetResourceIdentifier();
```

```
MgResourceIdentifier ResourceIdentifier property
```

FeatureInstanceAddedEventArgs Class

[EventArgs Classes](#)

Used by handlers of AcMapMap events..

```
class FeatureInstanceAddedEventArgs : AcMapEventArgs
```

Members

```
void Dispose();
```

```
Int32 GetClassId();
```

```
int GetSessionId();
```

```
int SessionId { get; }
```

FeatureInstanceModifiedEventArgs Class

[EventArgs Classes](#)

Used by handlers of AcMapMap events..

```
class FeatureInstanceModifiedEventArgs : AcMapEventArgs
```

Members

```
void Dispose();
```

```
Int32 GetClassId();
```

```
int GetSessionId();
```

```
int SessionId { get; }
```

FeatureInstanceRemovedEventArgs Class

[EventArgs Classes](#)

Used by handlers of AcMapMap events..

```
class FeatureInstanceRemovedEventArgs : AcMapEventArgs
```

Members

```
void Dispose();
```

```
Int32 GetClassId();
```

```
int GetSessionId();
```

```
int SessionId { get; }
```


FeatureInstanceToBeAddedEventArgs Class

[EventArgs Classes](#)

Used by handlers of AcMapMap events..

```
class FeatureInstanceToBeAddedEventArgs : AcMapEventArgs
```

Members

```
void Dispose();
```

```
Int32 GetClassId();
```

```
int GetSessionId();
```

```
int SessionId { get; }
```

FeatureInstanceToBeModifiedEventArgs Class

[EventArgs Classes](#)

Used by handlers of AcMapMap events..

```
class FeatureInstanceToBeModifiedEventArgs : AcMapEventArgs
```

Members

```
void Dispose();
```

```
Int32 GetClassId();
```

```
int GetSessionId();
```

```
int SessionId { get; }
```

FeatureInstanceToBeRemovedEventArgs Class

[EventArgs Classes](#)

Used by handlers of AcMapMap events..

```
class FeatureInstanceToBeRemovedEventArgs : AcMapEventArgs
```

Members

```
void Dispose();
```

```
Int32 GetClassId();
```

```
int GetSessionId();
```

```
int SessionId { get; }
```

Autodesk.Gis.Map.Platform.Interop Namespace

▣ Classes

[AcMapFeatureEntityService](#) Provides ways to work with AutoCAD selections involving FDO features and accessing feature data from edited entities (feature entities).

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Links

[Autodesk.Gis.Map.Platform.Interop Namespace](#), [Class Hierarchy](#)

AcMapFeatureEntityService Class

[Autodesk.Gis.Map.Platform.Interop Namespace](#)

Provides ways to work with AutoCAD selections involving FDO features and accessing feature data from edited entities (feature entities).

class AcMapFeatureEntityService;

☐ Methods

- ☞ [AddFeaturesToSelectionSet](#) Adds features in the selection to the given AutoCAD selection set and returns a new selection set.
- ☞ [GetBulkEntity](#) Gets the object id of bulk entity of a layer.
- ☞ [GetEntityType](#) Gets the entity type of a given entity id.
- ☞ [GetFeatures](#) Gets the feature ids of features for each entity in the given collection of entity ids.
- ☞ [GetFeatures](#) Gets features corresponding to a given collection of sub objects of an AutoCAD selection set.
- ☞ [GetFilteredSelection](#) Gets a filtered selection containing the feature ids of all the features in the given AutoCAD selection set.
- ☞ [GetLayer](#) Gets the layer for a feature entity or a bulk entity.
- ☞ [GetSelection](#) Gets a selection containing the feature ids of all the features in the given AutoCAD selection set.
- ☞ [HighlightFeatures](#) Highlights the features part of the selection.
- ☞ [UnhighlightFeatures](#) Removes the highlighting of features part of the selection.

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Links

[AcMapFeatureEntityService Class](#), [AcMapFeatureEntityService Class](#)

AcMapFeatureEntityService:: AddFeaturesToSelectionSet Method

[AcMapFeatureEntityService Class](#)

Adds features in the selection to the given AutoCAD selection set and returns a new selection set.

```
Autodesk.AutoCAD.EditorInput.SelectionSet AddFeaturesToSelectionSet(  
    Autodesk.AutoCAD.EditorInput.SelectionSet acadSel,  
    MgSelectionBase selectionBase  
);
```

Parameters	Description
acadSel	Input AutoCAD selection set to be used for adding features from platform selectionBase.
selectionBase	Input platform selection object from which the AutoCAD selection set is to be populated.

Returns

A new AutoCAD selection set containing the contents of both acadSel and selectionBase.

Remarks

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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Links

[AcMapFeatureEntityService Class](#), [AcMapFeatureEntityService Class](#)

AcMapFeatureEntityService:: GetBulkEntity Method

[AcMapFeatureEntityService Class](#)

Gets the object id of bulk entity of a layer.

```
Autodesk.AutoCAD.DatabaseServices.ObjectId GetBulkEntity(  
    AcMapLayer layer  
);
```

Parameters	Description
layer	Input vector layer.

Returns

Object id of bulk entity for the layer.

Remarks

Applies to only vector layers.

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Links

[AcMapFeatureEntityService Class](#), [AcMapFeatureEntityService Class](#)

AcMapFeatureEntityService:: GetEntityType Method

[AcMapFeatureEntityService Class](#)

Gets the entity type of a given entity id.

```
int GetEntityType(  
    Autodesk.AutoCAD.DatabaseServices.ObjectId entityId  
);
```

Parameters	Description
entityId	Input entity Id.

Returns

The entity type from [EntityType](#) enumeration.

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Links

[AcMapFeatureEntityService Class](#), [AcMapFeatureEntityService Class](#)

AcMapFeatureEntityService:: GetFeatures Method

(Autodesk.AutoCAD.DatabaseServices.ObjectIdCollection)

[AcMapFeatureEntityService Class](#)

Gets the feature ids of features for each entity in the given collection of entity ids.

```
MgSelectionBase GetFeatures(  
    Autodesk.AutoCAD.DatabaseServices.ObjectIdCollection entities  
);
```

Parameters	Description
entities	Input collection of entity ids.
Returns	

A selection containing the feature ids corresponding to each entity in the input collection.

Remarks

The collection should not contain bulk entity ids.

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Links

[AcMapFeatureEntityService Class](#), [AcMapFeatureEntityService Class](#)

AcMapFeatureEntityService:: GetFeatures Method

(Autodesk.AutoCAD.EditorInput.SelectedSubObject[])

[AcMapFeatureEntityService Class](#)

Gets features corresponding to a given collection of sub objects of an AutoCAD selection set.

```
MgSelectionBase GetFeatures(  
    Autodesk.AutoCAD.EditorInput.SelectedSubObject[] subObjects  
);
```

Parameters

Description

subObjects

Input collection of sub objects.

Returns

A selection object containing the feature ids of all features in the selection sub objects.

Remarks

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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Links

[AcMapFeatureEntityService Class](#), [AcMapFeatureEntityService Class](#)

AcMapFeatureEntityService:: GetFilteredSelection Method

[AcMapFeatureEntityService Class](#)

Gets a filtered selection containing the feature ids of all the features in the given AutoCAD selection set.

```
MgSelectionBase GetFilteredSelection(  
    Autodesk.AutoCAD.EditorInput.SelectionSet acadSel,  
    MgFeatureQueryOptions options  
);
```

Parameters	Description
acadSel	Input AutoCAD selection set.
options	Input options to filter out features in the selection set.
Returns	

A platform selection containing all the feature ids in acadSel.

Remarks

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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Links

[AcMapFeatureEntityService Class](#), [AcMapFeatureEntityService Class](#)

AcMapFeatureEntityService:: GetLayer Method

[AcMapFeatureEntityService Class](#)

Gets the layer for a feature entity or a bulk entity.

```
AcMapLayer GetLayer(  
    Autodesk.AutoCAD.DatabaseServices.ObjectId entityId  
);
```

Parameters	Description
featureEntityId	Object id of the feature entity or a bulk entity.

Returns

The layer corresponding to the feature entity or bulk entity.

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Links

[AcMapFeatureEntityService Class](#), [AcMapFeatureEntityService Class](#)

AcMapFeatureEntityService:: GetSelection Method

[AcMapFeatureEntityService Class](#)

Gets a selection containing the feature ids of all the features in the given AutoCAD selection set.

```
MgSelectionBase GetSelection(  
    Autodesk.AutoCAD.EditorInput.SelectionSet acadSel  
);
```

Parameters	Description
acadSel	Input AutoCAD selection set.

Returns

A platform selection containing all the feature ids in acadSel.

Remarks

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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Links

[AcMapFeatureEntityService Class](#), [AcMapFeatureEntityService Class](#)

[AcMapFeatureEntityService:: HighlightFeatures Method](#)

[AcMapFeatureEntityService Class](#)

Highlights the features part of the selection.

```
void HighlightFeatures(  
    MgSelectionBase selection  
);
```

Parameters

Description

selection

Input selection containing features to be highlighted.

Remarks

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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Links

[AcMapFeatureEntityService Class](#), [AcMapFeatureEntityService Class](#)

[AcMapFeatureEntityService:: UnhighlightFeatures Method](#)

[AcMapFeatureEntityService Class](#)

Removes the highlighting of features part of the selection.

```
void UnhighlightFeatures(  
    MgSelectionBase selection  
);
```

Parameters

Description

selection

Input selection containing features to be unhighlighted.

Remarks

MgXX classes belong to the OsGeo.MapGuide namespace and are described in the Geospatial Platform Reference.

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Links

[AcMapSelection Class](#), [AcMapSelection Class](#)

AcMapSelection:: AcMapSelection Constructor

(AcMapMap*)

[AcMapSelection Class](#)

Initialize selection generation from a map.

```
AcMapSelection(  
    AcMapMap* map  
);
```

Parameters	Description
map'	specific map to apply selection
Remarks	

This method is provided to obtain feedback from customers. In future releases it may change in functionality or be deprecated.

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