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 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.
- **SchemaToXml**: 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.
- **GetWfsFeature**: Retrieves feature information based on the supplied criteria.
- **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.
SetLongTransaction  Set the active long transaction name for a
feature source.

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.

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

UpdateFeatures  Creates an MgFeatureSchemaCollection object
using the XML schema provided.

XmlToSchema

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.

```csharp
public event FeatureDeleteCancelledHandler FeatureDeleteCancelledHandler
public delegate void FeatureDeleteCancelledHandler(
    Object sender,
    AcMapFeatureEventArgs e);
```
AcMapFeatureService:: FeatureDeleted Event

AcMapFeatureService Class AcMapFeatureEventArgs Class

Occurs when a feature has been deleted.

```csharp
public event FeatureDeletedHandler FeatureDeletedHandler

public delegate void FeatureDeletedHandler(
    Object sender,
    AcMapFeatureEventArgs e);
```
AcMapFeatureService:: FeatureInsertCancelled Event

AcMapFeatureService Class AcMapFeatureEventArgs Class

Occurs when a feature insert has been canceled.

```csharp
public event FeatureInsertCancelledHandler FeatureInsertCancelledHandler;
public delegate void FeatureInsertCancelledHandler(
    Object sender,
    AcMapFeatureEventArgs e);
```
AcMapFeatureService:: FeatureInserted Event

AcMapFeatureService Class AcMapFeatureEventArgs Class

Occurs when a feature has been inserted.

```csharp
public event FeatureInsertedHandler FeatureInsertedHandler
public delegate void FeatureInsertedHandler(
    Object sender,
    AcMapFeatureEventArgs e);
```
AcMapFeatureService:: FeatureToBeDeleted Event

**AcMapFeatureService Class**  **AcMapFeatureToBeEventArgs Class**

Occurs when a feature is about to be deleted.

```csharp
public event FeatureToBeDeletedHandler FeatureToBeDeletedHandler

public delegate void FeatureToBeDeletedHandler(
    Object sender,
    AcMapFeatureToBeEventArgs e);
```
AcMapFeatureService:: FeatureToBeInserted Event

**AcMapFeatureService Class** **AcMapFeatureToBeEventArgs Class**

Occurs when a feature is about to be inserted.

```csharp
public event FeatureToBeInsertedHandler FeatureToBeInsertedHandler
public delegate void FeatureToBeInsertedHandler(
    Object sender,
    AcMapFeatureToBeEventArgs e);
```
AcMapFeatureService:: FeatureToBeUpdated Event

**AcMapFeatureService Class**  **AcMapFeatureToBeEventArgs Class**

Occurs when a feature is about to be updated.

```csharp
public event FeatureToBeUpdatedHandler FeatureToBeUpdatedHandler

public delegate void FeatureToBeUpdatedHandler(
    Object sender,
    AcMapFeatureToBeEventArgs e);
```
Occurs when a feature update has been canceled.

```csharp
public event FeatureUpdateCancelledHandler FeatureUpdateCancelledHandler
public delegate void FeatureUpdateCancelledHandler(
    Object sender,
    AcMapFeatureEventArgs e);
```
AcMapFeatureService:: FeatureUpdated Event

Occurs when a feature has been updated.

```csharp
public event FeatureUpdatedHandler FeatureUpdatedHandler;
public delegate void FeatureUpdatedHandler(
    Object sender,
    AcMapFeatureEventArgs e);
```
AcMapFeatureService:: LongTransactionActivateCancelled Event

AcMapFeatureService Class  AcMapLongTransactionEventArgs Class

Occurs when a long transaction activate has been canceled.

```csharp
public event LongTransactionActivateCancelledHandler LongTransactionActivateCancelledHandler
public delegate void
LongTransactionActivateCancelledHandler(
    Object sender,
    AcMapLongTransactionEventArgs e);
```
AcMapFeatureService:: LongTransactionActivated Event

AcMapFeatureService Class AcMapLongTransactionEventArgs Class

Occurs when a long transaction has been activated.

```csharp
public event LongTransactionActivatedHandler LongTransactionActivatedHandler

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.

```csharp
public event LongTransactionToBeActivatedHandler LongTransactionToBeActivatedHandler;
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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Links

AcMapFeatureService Class, AcMapFeatureService Class
AcMapFeatureService:: DescribeWfsFeatureType Method
AcMapFeatureService Class

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

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

**Parameters**

<table>
<thead>
<tr>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>featureClasses</strong></td>
</tr>
<tr>
<td><strong>resource</strong></td>
</tr>
</tbody>
</table>

**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:: DescribeSchema Method

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

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

**Parameters**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>resource</td>
<td>A resource identifier for the feature source.</td>
</tr>
<tr>
<td>schemaNam</td>
<td>The name of the schema definition to retrieve or an empty string to retrieve all available schema definitions.</td>
</tr>
</tbody>
</table>

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

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

**Parameters**

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

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

Parameters

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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Executes SQL statements NOT including SELECT statements.

```c++
virtual long ExecuteSqlNonQuery(
    MgResourceIdentifier* resource,
    string sqlNonSelectStatement
);
```

### Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>resource</td>
<td>A resource identifier for a feature source.</td>
</tr>
<tr>
<td>sqlNonSelectStatement</td>
<td>The SQL statement that is NOT a SELECT statement.</td>
</tr>
</tbody>
</table>

### 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 descibed in the Geospatial Platform Reference.

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Executes the SQL SELECT statement on the specified feature source.

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

**Parameters**

- **resource**: A resource identifier referring to a feature source.
- **sqlStatement**: The SQL SELECT statement.

**Returns**

Returns an MgSqlDataReader instance (or NULL).

**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:: GetCapabilities Method
AcMapFeatureService Class

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

```cpp
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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Gets all available long transactions for the provider.

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

Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>resource</td>
<td>A resource identifier for feature source.</td>
</tr>
<tr>
<td>bActiveOnly</td>
<td>If true, returns the active long transaction; otherwise returns all long transactions.</td>
</tr>
</tbody>
</table>

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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Gets the class definition for the specified class.

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

### Parameters

**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 described 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
);

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>resource</td>
<td>A resource identifier for the feature source,</td>
</tr>
</tbody>
</table>

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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Links
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.

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

Parameters

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>providerName</td>
<td>The name of the Fdo feature provider. Permissible values are obtained by calling the GetFeatureProviders Method.</td>
</tr>
<tr>
<td>propertyName</td>
<td>Property name.</td>
</tr>
<tr>
<td>partialConnString</td>
<td>The partial connection string to the Fdo provider.</td>
</tr>
</tbody>
</table>

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 descibed in the Geospatial Platform Reference.

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

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

**Parameters**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>resource</td>
<td>A resource identifier identifying a feature source in the repository.</td>
</tr>
<tr>
<td>bActiveOnly</td>
<td>If true, the return value contains only the active spatial context. If false, the return value contains all of the available spatial contexts.</td>
</tr>
</tbody>
</table>

**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.

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

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Gets the locked features.

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

**Parameters**

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

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

**Parameters**

- `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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Links
 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
 schema A FeatureSchemaCollection object.

Returns

Returns a string containing 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 described in
the Geospatial Platform Reference.

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Links
AcMapFeatureService Class, AcMapFeatureService Class
AcMapFeatureService:: GetWfsFeature Method
AcMapFeatureService Class

Retrieves feature information based on the supplied criteria.

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

Parameters

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

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
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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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.

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

**Parameters**

<table>
<thead>
<tr>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>resource</td>
</tr>
<tr>
<td>className</td>
</tr>
<tr>
<td>option</td>
</tr>
</tbody>
</table>

**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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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**
<table>
<thead>
<tr>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>resource</td>
</tr>
<tr>
<td>className</td>
</tr>
<tr>
<td>options</td>
</tr>
<tr>
<td>coordinateSystem</td>
</tr>
</tbody>
</table>

**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.

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

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Set the active long transaction name for a feature source.

Description

A resource identifier identifying a feature source in the repository.

```cpp
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 descibed 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.

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

Parameters

<table>
<thead>
<tr>
<th>Description</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>resource</td>
<td>The resource identifier for the feature source.</td>
</tr>
</tbody>
</table>

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.

```cpp
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 descibed in
the Geospatial Platform Reference.

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registering this software please contact us at support@toolsfactory.com.
AcMapFeatureService:: XmlToSchema Method

Creates an MgFeatureSchemaCollection object using the XML schema provided.

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

**Parameters**

- `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.
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.

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

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>resourceService</td>
<td>An MgResourceService that can be used to retrieve the layer definition.</td>
</tr>
<tr>
<td>layerDefinition'</td>
<td>Identifier of the layer definition in a repository.</td>
</tr>
</tbody>
</table>

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:: CreateCache Method
AcMapLayer Class

Creates the cache.

**virtual void** CreateCache();
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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 descibed 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.

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

Returns

Returns an envelope containing the extents.

Remarks

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

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AcMapLayer Class, AcMapLayer Class

AcMapLayer:: GetFeatures Method

AcMapLayer Class

Gets the features for the given set of feature ids.

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

Parameters

- `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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Get group name of the layer belongs to.

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

Returns 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.

```c++
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 descibed in the Geospatial Platform Reference.

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Links
AcMapLayer Class, AcMapLayer Class
AcMapLayer:: GetLockedFeatures Method
AcMapLayer Class

Gets all the locked features.

```cpp
virtual MgFeatureReader* GetLockedFeatures();
```

Returns

Returns an MgFeatureReader containing the locked features.

Remarks

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

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Determines whether the layer is potentially visible.

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

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.

```cpp
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
);

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>options</td>
<td>An option containing info on features to be saved. It might contain a filter or spatial condition.</td>
</tr>
</tbody>
</table>

Remarks

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

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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.

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

### Parameters
- **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
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.

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

**Parameters**

<table>
<thead>
<tr>
<th>Description</th>
<th>Edit mode value</th>
</tr>
</thead>
<tbody>
<tr>
<td>editMode</td>
<td></td>
</tr>
</tbody>
</table>

**Remarks**

Layer can be either in direct update mode, where `UpdateFeatures()` modifications are committed immediately 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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Set the feature class name for layer.

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

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>featureClass</td>
<td>The name of feature class.</td>
</tr>
</tbody>
</table>

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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
name Description
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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Sets the layer's potential visibility.

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

**Parameters**

- **visible**
  - Description: 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 descibed 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

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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Manipulates the properties of a layer group.

```csharp
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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Creates a AcMaLayerGroup object, using a specified group name.

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

**Parameters**

- `groupName`

  **Description**
  
  Name of layer group

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Sets the name of the group.

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

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>groupName</td>
<td>Name of the layer group</td>
</tr>
</tbody>
</table>

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AcMapLayerGroup Class, AcMapLayerGroup Class

AcMapLayerGroup:: SetVisible Method

AcMapLayerGroup Class

Alters the group potential visibility.

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

Parameters

<table>
<thead>
<tr>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>True if the group should be visible, or false otherwise.</td>
</tr>
</tbody>
</table>

Returns

Returns nothing.

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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.
  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.
  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 described 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.

```csharp
public event FeatureInstanceAddedHandler FeatureInstanceAddedHandler;
public delegate void FeatureInstanceAddedHandler(
    Object sender,
    FeatureInstanceAddedEventArgs e);
```
AcMapMap:: FeatureInstanceModified Event

Occurs when a feature instance has been modified.

```csharp
public event FeatureInstanceModifiedEventHandler FeatureInstanceModified
    Handler
public delegate void
    FeatureInstanceModifiedEventHandler(
    Object sender,
    FeatureInstanceToBeModifiedEventArgs e);
```
AcMapMap:: FeatureInstanceRemoved Event

AcMapMap Class FeatureInstanceRemovedEventArgs Class

Occurs when a feature instance has been removed.

```csharp
public event FeatureInstanceRemovedHandler FeatureInstanceRemovedHandler
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 FeatureInstanceToBeAddedHandler
public delegate void FeatureInstanceToBeAddedHandler(
    Object sender,
    FeatureInstanceToBeAddedEventArgs e);
Occurs when a feature instance is about to be modified.

```csharp
public event FeatureInstanceToBeModifiedHandler FeatureInstanceToBeModifiedHandler;
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 FeatureInstanceToBeRemovedEventHandler FeatureInstanceToBeRemoved
    public delegate void
    FeatureInstanceToBeRemovedEventHandler(
        Object sender,
        FeatureInstanceToBeRemovedEventArgs e);
AcMapMap:: GroupAdded Event

**AcMapMap Class** **AcMapMappingEventArgs Class**

Occurs when a group has been added.

```csharp
public event GroupAddedHandler GroupAddedHandler
public delegate void GroupAddedHandler(
    Object sender,
    AcMapMappingEventArgs e);
```
AcMapMap:: GroupModified Event

Occurs when a group has been modified.

group event GroupModifiedHandler GroupModified
Handler

group 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

Occurs when a layer has been added.

```csharp
public event LayerAddedHandler LayerAddedHandler

public delegate void LayerAddedHandler(
    Object sender,
    AcMapMappingEventArgs e);
```
AcMapMap:: LayerModified Event

Occurs when a layer has been modified.

```csharp
public event LayerModifiedEventHandler LayerModifiedHandler
public delegate void LayerModifiedEventHandler(
    Object sender,
    AcMapMappingEventArgs e);
```
AcMapMap:: LayerRemoved Event

Occurs when a layer has been removed.

```csharp
public event LayerRemovedHandler LayerRemovedHandler;
public delegate void LayerRemovedHandler(
    Object sender,
    AcMapMappingEventArgs e);
```
Initializes a new Map object given a resource service, map definition, and a name for the map.

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

**Parameters**

- **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.

\textbf{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.

```c++
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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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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**AcMapMap Class, AcMapMap Class**

**AcMapMap:: GetDisplayHeight Method**

**AcMapMap Class**

Returns the current height of the map display in pixels.

```cpp
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.

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

Parameters

- **index**
  - Description: 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 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 describ 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 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 descibed in the Geospatial Platform Reference.

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Links
AcMapMap Class, AcMapMap Class
AcMapMap:: GetMapExtent Method

AcMapMap Class

Returns the overall extent of the map.

virtual MgEnvelope* GetMapExtent();

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

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:: GetMapSRS Method
AcMapMap Class

Gets the spatial reference system used to display this map.

```cpp
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.

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:: 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 descibed 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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Load a .layer file into this map.

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

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>layerFile</td>
<td>The path of the .layer file.</td>
</tr>
</tbody>
</table>

Returns nothing.

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Loads the map object from a session repository.

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

**Parameters**

<table>
<thead>
<tr>
<th>ResourceService</th>
</tr>
</thead>
<tbody>
<tr>
<td>resourceService</td>
</tr>
<tr>
<td>An MgResourceService that can be used to retrieve the map.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MapName</th>
</tr>
</thead>
<tbody>
<tr>
<td>mapName</td>
</tr>
<tr>
<td>A string that specifies the name of the map. This is the name that was specified when &quot;Create&quot; was called to create the map object.</td>
</tr>
</tbody>
</table>

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

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

**Parameters**

- `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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Sets the scale of the map.

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

**Parameters**

- `scale` : Scale of the map.

**Returns**

- Nothing.

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Links

AcMapMap Class, AcMapMap Class

AcMapMap:: ZoomToExtent Method

AcMapMap Class

Zoom the current map to the specified extent.

```cpp
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 described in the Geospatial Platform Reference.

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Enables you to manipulate repositories and resources.

```csharp
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.

```csharp
public event ResourceAddedHandler ResourceAddedHandler

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 ResourceAdditionCancelledHandler
public delegate void ResourceAdditionCancelledHandler(
    Object sender,
    AcMapResourceEventArgs e);
AcMapResourceService:: ResourceModificationCancelled Event

Occurs when a resource modification has been canceled.

    public event ResourceModificationCancelledHandler ResourceModificationCancelledHandler;
    public delegate void ResourceModificationCancelledHandler(
        Object sender,
        AcMapResourceEventArgs e);
AcMapResourceService:: ResourceModified Event

**AcMapResourceService Class** [AcMapResourceEventArgs Class]

Occurs when a resource has been modified.

```csharp
public event ResourceModifiedHandler ResourceModified

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 ResourceRemovalCancelledEventHandler ResourceRemovalCancelledHandler
public delegate void
ResourceRemovalCancelledEventHandler(
    Object sender,
    AcMapResourceEventArgs e);
AcMapResourceService:: ResourceRemoved Event

**AcMapResourceService Class  AcMapResourceEventArgs Class**

Occurs when a resource has been removed.

```csharp
public event ResourceRemovedHandler ResourceRemovedHandler
public delegate void ResourceRemovedHandler(
    Object sender,
    AcMapResourceEventArgs e);
```
AcMapResourceService:: ResourceToBeAdded Event

**AcMapResourceService Class**  **AcMapResourceEventArgs Class**

Occurs when a resource is about to be added.

```csharp
public event ResourceToBeAddedHandler ResourceToBeAddedHandler

public delegate void ResourceToBeAddedHandler(
    Object sender,
    AcMapResourceEventArgs e);
```
AcMapResourceService:: ResourceToBeModified Event
AcMapResourceService Class AcMapResourceEventArgs Class

Occurs when a resource is about to be modified.

```csharp
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.

```csharp
public event ResourceToBeRemovedHandler ResourceToBeRemovedHandler;
public delegate void ResourceToBeRemovedHandler(
    Object sender,
    AcMapResourceEventArgs e);
```
Applies a package of resource changes to the repository.

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

**Parameters**

<table>
<thead>
<tr>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>resourcePackage</td>
</tr>
</tbody>
</table>

**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.

```cpp
virtual void CopyResource(
    MgResourceId* sourceResourceId,
    MgResourceId* destResourceId,
    bool overwrite
);
```

Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>overwrite</td>
<td>Flag to determine whether or not the destination resource should be overwritten if it exists.</td>
</tr>
<tr>
<td>sourceResourceId</td>
<td>The identifier of the resource to be copied.</td>
</tr>
<tr>
<td>destResourceId</td>
<td></td>
</tr>
</tbody>
</table>

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:: DeleteResource Method
AcMapResourceService Class

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

```cpp
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.

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

Parameters

- **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 described in the Geospatial Platform Reference.

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Enumerates all the resources which reference the specified resource.

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

**Parameters**
- `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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Deletes resource data from the specified resource.

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

**Parameters**

- `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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Enumerates the resource data for the specified resource.

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

**Parameters**

<table>
<thead>
<tr>
<th>Description</th>
<th>Parameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>The identifier of resource for which the resource data will be listed.</td>
<td>resource</td>
</tr>
</tbody>
</table>

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

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

**Parameters**

- **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 described in the Geospatial Platform Reference.

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Get the content for the specified repository.

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

**Parameters**
- `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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AcMapResourceService Class, AcMapResourceService Class
AcMapResourceService:: GetRepositoryHeader Method
AcMapResourceService Class

Gets the header of the specified repository.

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

Parameters

- **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.

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

Parameters

<table>
<thead>
<tr>
<th>resource</th>
<th>Description</th>
</tr>
</thead>
</table>
| The resource for which the Raster resource data will be obtained.

<table>
<thead>
<tr>
<th>dataName</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name for data (as specified when the data was set via SetResourceData)</td>
<td></td>
</tr>
</tbody>
</table>

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.

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

Parameters

<table>
<thead>
<tr>
<th>resource</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>resource</td>
<td>The identifier of the resource to get header for.</td>
</tr>
</tbody>
</table>

Returns

Returns an MgByteReader object containing the resource header in XML format using the ResourceDocumentHeader 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:: GetResourceMetadata Method
AcMapResourceService Class

Gets the Metadata content of a resource.

virtual MgByteReader* GetResourceMetadata(
         MgResourceIdentifier* resource
);

Parameters

<table>
<thead>
<tr>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>resource</td>
</tr>
</tbody>
</table>

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 descibed in the Geospatial Platform Reference.

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

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

**Parameters**
- **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.

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

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>overwrite</td>
<td>Flag to determine whether or not the destination resource should be overwritten if it exists.</td>
</tr>
<tr>
<td>sourceResourceId</td>
<td>The identifier of the resource to be moved.</td>
</tr>
<tr>
<td>destResourceId</td>
<td>The identifier of the destination of resource should be moved to.</td>
</tr>
</tbody>
</table>

**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:: RenameResourceData Method
AcMapResourceService Class

Renames resource data for the specified resource.

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

Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>resource</td>
<td>The identifier of resource for which the resource data will be renamed.</td>
</tr>
<tr>
<td>oldDataName</td>
<td>Old data name.</td>
</tr>
<tr>
<td>newDataName</td>
<td>New data name.</td>
</tr>
<tr>
<td>overwrite</td>
<td>Flag to determine whether or not the destination resource data should be overwritten if it exists.</td>
</tr>
</tbody>
</table>

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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AcMapResourceService:: SetResource Method

**AcMapResourceService Class**

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

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

**Parameters**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>resource</td>
<td>The identifier of the resource to be set. 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.</td>
</tr>
<tr>
<td>content</td>
<td>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.</td>
</tr>
<tr>
<td>header</td>
<td>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.</td>
</tr>
</tbody>
</table>

**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
);

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>resource</td>
<td>The identifier of the Resource to which this data is to be associated.</td>
</tr>
<tr>
<td>dataName</td>
<td>Name for the data.</td>
</tr>
<tr>
<td>dataType</td>
<td>Data type for the resource data. It must match one of the types defined in MgResourceDataType and is case sensitive.</td>
</tr>
<tr>
<td>data</td>
<td>Data to set.</td>
</tr>
</tbody>
</table>

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.

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

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>resource</td>
<td>The identifier of resource to which this data is to be associated. Note the resource has to exist else this method fails.</td>
</tr>
<tr>
<td>content</td>
<td>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</td>
</tr>
</tbody>
</table>

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.

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

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>resource</td>
<td>The identifier of the Repository to update. 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. 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.</td>
</tr>
<tr>
<td>content</td>
<td></td>
</tr>
<tr>
<td>header</td>
<td></td>
</tr>
</tbody>
</table>

Remarks

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

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
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.

一碗饭 SelectedFeatures Returns the data of selected features.
一碗饭 SelectedFeatures 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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Initialize selection generation from a map.

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

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>`map'</td>
<td>specific map to apply selection</td>
</tr>
<tr>
<td>`xmlSelectionString'</td>
<td>xml format representation of selection</td>
</tr>
</tbody>
</table>

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.

```c++
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 descibed in the Geospatial Platform Reference.

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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.

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

Parameters

<table>
<thead>
<tr>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of service; valid values are MgServiceType::ResourceService and MgServiceType::FeatureService. The other types in MgServiceType are not supported in AutoCAD Map 3D.</td>
</tr>
</tbody>
</table>

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 descibed in the Geospatial Platform Reference.

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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

Class SystemProperties 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.

```cpp
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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4: The feature has been deleted.

```cpp
const int FeatureStatusDeleted;
```

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2: The feature has been modified.

```cpp
const int FeatureStatusModified;
```

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1: The feature is new.

```cpp
const int FeatureStatusNew;
```

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A property that identifies a feature in a cached layer.

```cpp
const string SessionId;
```

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.

```java
class EditMode;
```

square Data Members

- **DirectUpdate**: 1: Edits are committed immediately.
- **EditSet**: 0: Edits are committed when the user wants (transactional mode).

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1: Edits are committed immediately.

```cpp
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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An enumeration of entity types.

class EntityType;

Data Members

<table>
<thead>
<tr>
<th>AutoCADEntity</th>
<th>0: An AutoCAD entity, such as line, point, or arc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BulkEntity</td>
<td>2: An AutoCAD entity representing everything</td>
</tr>
<tr>
<td></td>
<td>contained in a cached layer, serving as a visual</td>
</tr>
<tr>
<td></td>
<td>guide to selecting a feature for editing.</td>
</tr>
<tr>
<td>FeatureEntity</td>
<td>1: An AutoCAD entity representing a checked-out</td>
</tr>
<tr>
<td></td>
<td>feature.</td>
</tr>
</tbody>
</table>

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

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

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

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

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

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

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

- **AcMapEventArgs**
- **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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registering this software please contact us at support@toolsfactory.com.
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();

MgResourceId 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 GetResourceId();

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; }

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

```csharp
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.
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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Gets the entity type of a given entity id.

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

**Parameters**

- `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.

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:: 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
subObjects
    Description
    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 descibed 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
acadSel
options

Description
Input AutoCAD selection set.
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 descibed 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
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 descibed 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.

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

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>selection</td>
<td>Input selection containing features to be highlighted.</td>
</tr>
</tbody>
</table>

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.

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

Parameters

- **selection**
  - Description: 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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