Connectivity Automation Objects (CAO) support the following dbConnect features:

- Event Notifications
- Key Descriptions
- Key Values
- Label Templates
- Labels
- Link Templates
- Links
- Queries

You can also create dbConnect objects.

Beginning with AutoCAD 2002, CAO supports the following objects, methods, and properties:

- **Objects and methods**: CAO objects include the LabelTemplates collection, LabelTemplate object, Label object, Queries collection, and Query object, along with their corresponding methods. The KeyDescriptions and KeyValues collections are independent objects. KeyDescriptions no longer derives from the LinkTemplate object, and KeyValues no longer derives from the Link object. The KeyValues Add method accepts two arguments: field name and value, rather than a single object argument.
- **Properties**: The KeyDescription Type property is now a CAO data type, rather than an OLEDB data type.
- **Event notifications**: The DbConnect object uses event notifications.

You can find sample code demonstrating the use of CAO in the AutoCAD sample\Database Connectivity\CAO directory.
• CAO Objects, Methods and Properties
• Migrate Projects
CAO Objects, Methods, and Properties

Beginning with AutoCAD 2002, the following objects, methods and properties are supported by Connectivity Automation Objects (CAO).

<table>
<thead>
<tr>
<th>Object</th>
<th>Methods</th>
<th>Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>Label</td>
<td>Hide, Refresh,</td>
<td>DbConnect, DisplayValues, Document, LabelTemplate, LeaderObjectId, Link, MTextObjectId</td>
</tr>
<tr>
<td></td>
<td>Reload, Show</td>
<td></td>
</tr>
<tr>
<td>LabelTemplate</td>
<td>Hide, Refresh,</td>
<td>Catalog, Color, Datasource, DbConnect,</td>
</tr>
<tr>
<td></td>
<td>Reload, Show</td>
<td>DisplayableAttributes, Document, Format, LeaderAttachment, LeaderOffset, Linetype, Name, Rotation, Schema, Table, TextAttachment, TextHeight, TextStyle, TipOffset</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LabelTemplates</td>
<td>Add, Delete, Item</td>
<td>Count, DbConnect, Document</td>
</tr>
<tr>
<td>Collection</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Queries</td>
<td>Add, Delete, Item</td>
<td>Count, DbConnect, Document</td>
</tr>
<tr>
<td>Collection</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Query</td>
<td>None</td>
<td>Catalog, Datasource, DbConnect, Document, Name, Schema, Table, Text</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Existing objects and their methods and properties introduced in AutoCAD 2002

<table>
<thead>
<tr>
<th>Object</th>
<th>New Methods</th>
<th>New Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>DbConnect</td>
<td>Connect, GetLabelTemplates, GetLinksByKey, GetLinksBySQLCond, GetLinksByLabelTemplate, GetQueries, IsConnected</td>
<td>None</td>
</tr>
<tr>
<td>KeyDescriptions Collection</td>
<td>Add</td>
<td>None</td>
</tr>
<tr>
<td>Link</td>
<td>None</td>
<td>Label</td>
</tr>
<tr>
<td>Links Collection</td>
<td>Intersect, Subtract, Union</td>
<td>None</td>
</tr>
<tr>
<td>LinkTemplate</td>
<td>CreateLabel</td>
<td>None</td>
</tr>
<tr>
<td>LinkTemplates Collection</td>
<td>Add, Delete</td>
<td>None</td>
</tr>
</tbody>
</table>
Migrate Projects

In general, an AutoCAD 2007 automation project created in the VBA IDE or created with Visual Basic 6 should work with AutoCAD 2008.

AutoCAD 2008 automation projects use the type library `acax17enu.tlb`. The type library is located in the following folder: `C:\Program Files\Common Files\Autodesk Shared`.

AutoCAD 2008 automation projects use a different version-dependent ProgID than AutoCAD 2007 for the CreateObject, GetObject, and GetInterfaceObject methods. For example, if you are using the CreateObject function in an AutoCAD 2008 automation project, you use CreateObject ("AutoCAD.Application.17"). If an automation project uses version-independent ProgIDs, change the project to use version-dependent ProgIDs.
Object Model

Click an object to view the corresponding description.
Objects

DbConnect object

KeyDescription object

KeyDescriptions collection

KeyValue object

KeyValues collection

Label object

LabelTemplate object

LabelTemplates collection

Link object

Links collection

LinkTemplate object

LinkTemplates collection

Queries collection

Query object
DbConnect Object

An instance of the AutoCAD DbConnect object.

**VBA class name:** DbConnect

**Create using:** For VB and AutoCAD VBA:

AutoCAD.GetInterfaceObject("CAO.DbConnect.16")

**Access via:** N/A

<table>
<thead>
<tr>
<th>Methods</th>
<th>Events</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connect</td>
<td>OnConnect</td>
</tr>
<tr>
<td>DisConnect</td>
<td>OnDisconnect</td>
</tr>
<tr>
<td>GetLabelTemplates</td>
<td>OnLabelTemplateCreated</td>
</tr>
<tr>
<td>GetLinks</td>
<td>OnLabelTemplateDeleted</td>
</tr>
<tr>
<td>GetLinksByKey</td>
<td>OnLabelTemplateModified</td>
</tr>
<tr>
<td>GetLinksBySQLCond</td>
<td>OnLinkTemplateCreated</td>
</tr>
<tr>
<td>GetLinksByLabelTemplate</td>
<td>OnLinkTemplateDeleted</td>
</tr>
<tr>
<td>GetLinkTemplates</td>
<td>OnLinkTemplateModified</td>
</tr>
<tr>
<td>GetQueries</td>
<td>OnQueryCreated</td>
</tr>
<tr>
<td>IsConnected</td>
<td>OnQueryDeleted</td>
</tr>
<tr>
<td>ReloadLabels</td>
<td>OnQueryModified</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>Version</td>
</tr>
<tr>
<td>DataSourceLocation</td>
</tr>
</tbody>
</table>
KeyDescription Object

Defines a key field for a link template object.

**VBA class name:** KeyDescription

**Create using:** KeyDescriptions.Add

**Access via:** LinkTemplate.KeyDescriptions.Item

Key fields are used by a link template to uniquely identify a record from a database table.

To edit or query a KeyDescription, use the following methods and properties:

<table>
<thead>
<tr>
<th>Properties</th>
<th>Methods</th>
</tr>
</thead>
<tbody>
<tr>
<td>DefinedSize</td>
<td>None</td>
</tr>
<tr>
<td>FieldName</td>
<td>NumericScale</td>
</tr>
<tr>
<td>Precision</td>
<td>Type</td>
</tr>
</tbody>
</table>
KeyDescriptions Collection

Defines a set of key fields in a link template.

**VBA class name:** KeyDescriptions

**Create using:**
ACADApplication.GetInterfaceObject("CAO.KeyDescriptions.17")

**Access via:** LinkTemplate.KeyDescriptions

To select a specific KeyDescription, use the `Item` method. To edit or query the KeyDescriptions collection, use the following methods and properties:

- **Methods**
  - Add
  - Item

- **Properties**
  - Count
**KeyValue Object**

Specifies a single key value in a link.

**VBA class name:** KeyValue

**Create using:** KeyValues.Add

**Access via:** Link.KeyValues.Item

To edit or query a KeyValue, use the following methods and properties:

<table>
<thead>
<tr>
<th>Methods</th>
<th>Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>FieldName</td>
</tr>
<tr>
<td></td>
<td>Value</td>
</tr>
</tbody>
</table>
KeyValues Collection

A set of key values in a link.

**VBA class name:** KeyValues

**Create using:**
ACADApplication.GetInterfaceObject("CAO.KeyValues.17")

**Access via:** Link.KeyValues

To add a new member to the collection, use the `Add` method. To select a specific KeyValue, use the `Item` method. To edit or query the KeyValues collection, use the following methods and properties:

- **Methods:** Add, Item
- **Properties:** Count
Label Object

A multiline text object that displays data in an AutoCAD drawing from selected fields in an external database table.

**VBA class name:** Label

**Create using:** LinkTemplate.CreateLabel

**Access via:** Link.Label

A Label object can be obtained from a Link object if the link type is either an attached label or a freestanding label. You cannot update the properties of a label object.

To delete a label, delete its associated link. To edit or query a label, use the following methods and properties:

- **Properties**
  - DbConnect
  - DisplayValues
  - Document
  - LabelTemplate
  - LeaderObjectId
  - Link
  - MTextObjectId

- **Methods**
  - Hide
  - Refresh
  - Reload
  - Show
LabelTemplate Object

Defines what fields from the database table are displayed in the label, and how the label text is formatted.

**VBA class name:** LabelTemplate

**Create using:** LabelTemplates.Add

**Access via:** LabelTemplates.Item

A label template can be updated only if there are no links associated with it.

Label templates have database properties and graphical properties. Database properties correspond to table column references. Graphical properties control the appearance of label text in the drawing area. To update data retrieved from a database, use the **Reload** method. To update label text, use the **Refresh** method.

To create a label template, use the **Add** method of the **LabelTemplates** collection. To edit or query a label template, use the following methods and properties:

```
<table>
<thead>
<tr>
<th>Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>Catalog</td>
</tr>
<tr>
<td>Color</td>
</tr>
<tr>
<td>Datasource</td>
</tr>
<tr>
<td>DbConnect</td>
</tr>
<tr>
<td>DisplayableAttributes</td>
</tr>
<tr>
<td>Document</td>
</tr>
</tbody>
</table>
```
<table>
<thead>
<tr>
<th>Methods</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hide</td>
<td>LeaderAttachment</td>
</tr>
<tr>
<td>Refresh</td>
<td>LeaderOffset</td>
</tr>
<tr>
<td>Reload</td>
<td>Linetype</td>
</tr>
<tr>
<td>Show</td>
<td>Name</td>
</tr>
<tr>
<td></td>
<td>Rotation</td>
</tr>
<tr>
<td></td>
<td>Schema</td>
</tr>
<tr>
<td></td>
<td>Table</td>
</tr>
<tr>
<td></td>
<td>TextAttachment</td>
</tr>
<tr>
<td></td>
<td>TextHeight</td>
</tr>
<tr>
<td></td>
<td>TextStyle</td>
</tr>
<tr>
<td></td>
<td>TipOffset</td>
</tr>
</tbody>
</table>
LabelTemplates Collection

The collection of label templates from an AutoCAD drawing.

**VBA class name:** LabelTemplates

**Create using:** N/A

**Access via:** DbConnect.GetLabelTemplates

To add a new member to the collection, use the **Add** method. To select a specific label template, use the **Item** method. To edit or query the LabelTemplates collection, use the following methods and properties:

<table>
<thead>
<tr>
<th>Methods</th>
<th>Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>Add</td>
<td>Count</td>
</tr>
<tr>
<td>Delete</td>
<td>DbConnect</td>
</tr>
<tr>
<td>Item</td>
<td>Document</td>
</tr>
</tbody>
</table>
Link Object

A link between a database table record and an AutoCAD graphical object.

**VBA class name:** Link

**Create using:** LinkTemplate.CreateLink

**Access via:** Links.Item

A link establishes a dynamic relationship between an AutoCAD graphical object and an external database table. In order to create links, you must first create a link template that specifies the database table and key fields used by all links based on that template. There are three types of AutoCAD links:

- *Entity links* associate link information with an AutoCAD graphical object.
- *Attached labels* associate link information with an AutoCAD graphical object and create a corresponding multiline text label object.
- *Freestanding labels* associate link information with a multiline text label object.

To create an entity link, use the `CreateLink` method of the `LinkTemplate` object. To create labels, use the `CreateLabel` method of the `LinkTemplate` object. To edit or query a link, use the following methods and properties:

- **Properties**
  - DbConnect
  - Document
  - KeyValues
**Links Collection**

A collection of links and labels from an AutoCAD drawing.

**VBA class name:** Links

**Create using:** N/A

**Access via:** DbConnect.GetLinks

To add a new member to the collection, use the `CreateLink` method of the `LinkTemplate` object. To select a specific Link, use the `Item` method. To edit or query the Links collection, use the following methods and properties:

<table>
<thead>
<tr>
<th>Methods</th>
<th>Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intersect</td>
<td>Count</td>
</tr>
<tr>
<td>Item</td>
<td>DbConnect</td>
</tr>
<tr>
<td>Subtract</td>
<td>Document</td>
</tr>
<tr>
<td>Union</td>
<td></td>
</tr>
</tbody>
</table>


**LinkTemplate Object**

Specifies the external database table and key fields that are used by links based on this template.

**VBA class name:** LinkTemplate

**Create using:** LinkTemplates.Add

**Access via:** LinkTemplates.Item

Link templates are used to establish relationships between AutoCAD graphical objects and a particular database table. Link templates specify the table and key fields that are used by all links based on that template.

To edit or query a link template, use the following methods and properties:

<table>
<thead>
<tr>
<th>Properties</th>
<th>Methods</th>
</tr>
</thead>
<tbody>
<tr>
<td>Catalog</td>
<td>CreateLabel</td>
</tr>
<tr>
<td>DataSource</td>
<td>Document</td>
</tr>
<tr>
<td>DbConnect</td>
<td>CreateLink</td>
</tr>
<tr>
<td>KeyDescriptions</td>
<td>Name</td>
</tr>
<tr>
<td>Name</td>
<td>Schema</td>
</tr>
<tr>
<td>Schema</td>
<td>Table</td>
</tr>
</tbody>
</table>
The collection of link templates from an AutoCAD drawing.

**VBA class name:** LinkTemplates

**Create using:** N/A

**Access via:** DbConnect.GetLinkTemplates

To select a specific LinkTemplate, use the `Item` method. To edit or query the LinkTemplates collection, use the following methods and properties:

<table>
<thead>
<tr>
<th>Methods</th>
<th>Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>Add</td>
<td>Count</td>
</tr>
<tr>
<td>Delete</td>
<td>DbConnect</td>
</tr>
<tr>
<td>Item</td>
<td>Document</td>
</tr>
</tbody>
</table>
Queries Collection

The collection of queries from an AutoCAD drawing.

**VBA class name:** Queries

**Create using:** N/A

**Access via:** DbConnect.GetQueries

To add a new member to the collection, use the Add method. To select a specific query, use the Item method. To edit or examine the Queries collection, use the following methods and properties:

<table>
<thead>
<tr>
<th>Methods</th>
<th>Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>Add</td>
<td>Count</td>
</tr>
<tr>
<td>Delete</td>
<td>DbConnect</td>
</tr>
<tr>
<td>Item</td>
<td>Document</td>
</tr>
</tbody>
</table>
A stored database query.

**VBA class name:** Query

**Create using:** Queries.Add

**Access via:** Queries.Item

To create a query, use the Add method of the Queries collection. To edit or examine a query, use the following properties:

<table>
<thead>
<tr>
<th>Properties</th>
<th>Methods</th>
</tr>
</thead>
<tbody>
<tr>
<td>Catalog</td>
<td>Document</td>
</tr>
<tr>
<td>Datasource</td>
<td>Name</td>
</tr>
<tr>
<td>DbConnect</td>
<td>Schema</td>
</tr>
<tr>
<td></td>
<td>Table</td>
</tr>
<tr>
<td></td>
<td>Text</td>
</tr>
</tbody>
</table>
Methods

Add
Clear
Connect
CreateLabel
CreateLink
Delete
Disconnect
GetLabelTemplates
GetLinks
GetLinksByKey
GetLinksByLabelTemplate
GetLinksBySQLCond
GetLinkTemplates
GetQueries
Hide
Intersect
IsConnected
Item
Add Method

Adds a new object to the specified collection.

See Also

Signatures: Overview

KeyDescriptions

RetVal = object.Add(Name, DataType [, Precision] [, Scale])

KeyValues

RetVal = object.Add(FieldName, Value)

LabelTemplates

RetVal = object.Add(DataSource, Catalog, Schema, Table, Name, DisplayAttributes)

LinkTemplates

RetVal = object.Add(DataSource, Catalog, Schema, Table, Name, KeyDescriptions)

Queries

RetVal = object.Add(DataSource, Catalog, Schema, Table, Name, SQLText)

Signatures: Detail
RetVal = object.Add(Name, DataType [, Precision] [, Scale])

Object

*KeyDescriptions Collection* The object or objects this method applies to.

Name

String; input-only
The name of the column to be added.

DataType

*CaoDataType* enum; input-only
The data type of the column being added. Specify one of the following constants:

- kCaoTypeText
- kCaoTypeNumeric
- kCaoTypeInteger
- kCaoTypeDouble
- kCaoTypeDate
- kCaoTypeTime
- kCaoTypeTimestamp
- kCaoTypeBit
- kCaoTypeBlob

Precision

Integer; input-only; optional
The meaning of Precision depends on the DataType specified, as follows:

- kCaoTypeNumeric: Precision of numeric data.
kCaoTypeText: Length of data in symbols.

kCaoTypeBlob: Length of data in bits.

Precision is ignored for all other data types.

Scale

Integer; input-only; optional
Numeric scale for kCaoTypeNumeric. Ignored for all other data types.

RetVal

**KeyDescription**
The newly added object.

---

RetVal = object.Add(FieldName, Value)

Object

**KeyValues Collection**
The object or objects this method applies to.

FieldName

String; input-only
The name of the field to be added.

Value

Variant; input-only
The value of the field being added.

RetVal

**KeyValue**
The newly added object.

---

RetVal = object.Add(DataSource, Catalog, Schema, Table, Name, DisplayAttributes)
Object

LabelTemplates Collection
The object or objects this method applies to.

DataSource

String; input-only
Data source name.

Catalog

String; input-only
Catalog name.

Schema

String; input-only
Schema name.

Table

String; input-only
Table name.

Name

String; input-only
Label template name.

DisplayAttributes

Variant (String or array of strings); input-only
Column names to be displayed as label or format strings. Where a single string is specified, CAO assumes the string is a format string. An array of strings is interpreted as a list of column names.

Format strings are compatible with MTEXT format strings. Refer to database table columns in format strings using the following syntax:

#(<column name>)

For example:
Column names are converted to the following format string:

```
#(<column name 1>\P#(<column name 2>)
```

RetVal

```
LabelTemplate
```

The newly added object.

RetVal = object.Add(DataSource, Catalog, Schema, Table, Name, KeyDescriptions)

Object

```
LinkTemplates Collection
```

The object or objects this method applies to.

DataSource

String; input-only
Data source name.

Catalog

String; input-only
Catalog name.

Schema

String; input-only
Schema name.

Table

String; input-only
Table name.

Name

String; input-only
Link template name.
KeyDescriptions

**KeyDescriptions collection**; input-only
Key descriptions for the link template.

RetVal

**LinkTemplate**
The newly added object.

RetVal = object.Add(DataSource, Catalog, Schema, Table, Name, SQLText)

Object

**Queries Collection**
The object or objects this method applies to.

DataSource

String; input-only
Data source name.

Catalog

String; input-only
Catalog name.

Schema

String; input-only
Schema name.

Table

String; input-only
Table name.

Name

String; input-only
Link template name.

SQLText

String; input-only
The SQL statement.
RetVal

Query
The newly added object.
Clear Method

Empties the specified collection.

Signature

object.Clear()

Object

KeyValues Collection The object or objects this method applies to.

Remarks

This method is obsolete and is being maintained for backward-compatibility.
Connect Method

Connects to a data source.

See Also

Signature

object.Connect(Datasource [, Username] [, Password] [, Prompt])

Object

DbConnect The object or objects this method applies to.

Datasource

String; input-only
The name of a .udl file in the Data Links directory.

Username

String; input-only; optional
User name with which you are connecting.

Password

String; input-only; optional
Password for connecting.

Prompt

Boolean; input-only; optional
Specifies whether users are prompted to specify
connection properties.

TRUE: Prompts users to specify required connection properties, if some are missing.

FALSE: Does not prompt users to specify connection properties.

Remarks

If the data source is already connected, nothing happens.
CreateLabel Method

Creates an attached or freestanding label.

**Signature**

RetVal = object.CreateLabel(Arg1, KeyValues, LabelTemplate [, DisplayValues])

**Object**

*LinkTemplate* The object or objects this method applies to.

**Arg1**

Long for object ID, or Variant (three-element array of Doubles); input-only
The graphical object to attach the label to, or the insertion point for a freestanding label.

**KeyValues**

*KeyValues* collection; input-only
The key field values for the label.

**LabelTemplate**

*LabelTemplate* object, or String naming a label template; input-only
The label template for the label object.
DisplayValues

Variant (array of Variants); input-only; optional
Values to be displayed in the label if no matching
key field is found in the database table.

RetVal

The new label object.

Remarks

The values displayed in the created label depend on which arguments are passed to CreateLabel. Those values may be affected by a subsequent call to the Reload method. CreateLabel behaves as follows:

- If a DisplayValues argument is supplied, the argument values are displayed in the label.
- If DisplayValues is not specified, CAO attempts to retrieve a linked row from the database. If successful, values from the row are displayed in the label. If a linked row cannot be obtained (for example, no connection exists or key values have no match in the database), an error occurs.
- If a DisplayValues argument is supplied, but you follow CreateLabel with a call to the Reload method, CAO attempts to retrieve a linked row from the database. If successful, database values are displayed in the label; if a linked row cannot be obtained, an error occurs.
CreateLink Method

Creates a link to an AutoCAD entity.

See Also

Signature

RetVal = object.CreateLink(ObjectID, KeyValues)

Object

LinkTemplate The object or objects this method applies to.

ObjectID

Long; input-only
The entity ID of the object to link to.

KeyValues

KeyValues collection; input-only
The key field values for the link.

RetVal

The new link object.
**Delete Method**

Deletes a specified object.

**Signature**

object.Delete(Index)

Object

*LabelTemplates Collection, Link, LinkTemplates Collection, Queries Collection*

The object or objects this method applies to.

Index

Variant; input-only

The index location in the collection. The index must be either an integer or a string. If an integer, the index must be between 0 and \( N-1 \), where \( N \) is the number of objects in the collection or selection set.

**Remarks**

When you delete an object in a collection, all remaining items in the collection are reassigned a new index based on the current count.
Disconnect Method

Disconnects from a data source.

See Also

Signature

object.Disconnect(Datasource)

Object

DbConnect The object or objects this method applies to.

Datasource

String; input-only
The name of a .udl file in the Data Links directory.
GetLabelTemplates Method

Gets a LabelTemplates collection from an AutoCAD document.

See Also

Signature

RetVal = object.GetLabelTemplates([Document])

Object

DbConnect The object or objects this method applies to.

Document

AcadDocument; input-only, optional
The AutoCAD document from which to obtain the label templates collection. If no value is specified, the collection is obtained from the active document.

RetVal

LabelTemplates collection;
The label templates collection.
GetLinks Method

Gets a Links collection.

**Signature**


**Object**

*DbConnect* The object or objects this method applies to.

**LinkTemplate**

*LinkTemplate* object, or a string identifying a link template; input-only; optional
If specified, indicates the link template whose links are returned.

**ObjectIDs**

Variant (array of Longs); input-only; optional
If specified, each long is the object ID of an AutoCAD entity whose links are to be returned.

**LinkTypes**

Variant; input-only; optional
Specifies the type of links to return. Any
A combination of the following link types can be specified:

- kEntityLinkType returns entity links.
- kFSLabelType returns freestanding labels.
- kAttachedLabelType returns attached labels.

If no value is specified, only entity links are returned.

**Document**

Document object; input-only; optional
This argument is ignored if a LinkTemplate object is passed as the first argument. If neither a LinkTemplate or a Document argument is specified, the document object is identified as follows:

- If the LinkTemplate argument is a string naming a link template, the current document is used.
- If the LinkTemplate argument is a LinkTemplate object, the link template document is used.
- If no LinkTemplate argument is supplied, the current document is used.

**RetVal**

Links collection;
The Links collection for the specified link template.

**Remarks**

If no arguments are specified, GetLinks returns all entity links associated with the current document.
GetLinksByKey Method

Gets a Links collection based on link template, link key values, and (optionally) link type.

See Also

Signature

RetVal = object.GetLinksByKey(LinkTemplate, KeyValues [, LinkTypes] [, Document])

Object

DbConnect The object or objects this method applies to.

LinkTemplate

LinkTemplate object, or a string identifying a link template; input-only
Specifies the link template whose links are returned.

KeyValues

KeyValues collection; input-only
The KeyValues collection containing the key values to search for.

LinkTypes

Integer; input-only; optional
Specifies the type of links to return. You can specify
any combination of the following link types:

kEntityLinkType: Entity links

kFSLabelType: Freestanding labels

kAttachedLabelType: Attached labels

If no value is specified, only entity links are returned.

Document

Document object; input-only; optional
This argument is ignored if a LinkTemplate object is passed as the first argument. If this argument is not specified, the document object is identified as follows:

- If the LinkTemplate argument is a string naming a link template, the current document is used.
- If the LinkTemplate argument is a LinkTemplate object, the link template document is used.

RetVal

Links collection
The Links collection for the specified keys.
GetLinksByLabelTemplate Method

Gets a Links collection containing the label links associated with the specified label template.

See Also

Signature

RetVal = object.GetLinksByLabelTemplate(LabelTemplate, [, LinkTypes] [, Document])

Object

**DbConnect** The object or objects this method applies to.

LabelTemplate

**LabelTemplate** object, or a string identifying a label template; input-only
Specifies the label template whose links are returned.

LinkTypes

Integer; input-only; optional
Specifies the type of links to return. You can specify any combination of the following link types:

kFSLabelType: Freestanding labels
kAttachedLabelType: Attached labels

If no value is specified, all label links are returned.

Document

Document object; input-only; optional
This argument is ignored if a LabelTemplate object is passed as the first argument. If this argument is not specified, the document object is identified as follows:

- If the LabelTemplate argument is a string naming a label template, the current document is used.
- If the LabelTemplate argument is a LabelTemplate object, the label template document is used.

RetVal

Links collection;
The Links collection meeting the specified conditions.
GetLinksBySQLCond Method

Gets a Links collection based on link template, SQL condition, and (optionally) link type.

See Also

Signature

RetVal = object.GetLinksBySQLCond(LinkTemplate, Condition [, LinkTypes] [, Document])

Object

DbConnect The object or objects this method applies to.

LinkTemplate

LinkTemplate object, or a string identifying a link template; input-only
Specifies the link template whose links are returned.

Condition

String; input-only
The WHERE clause of the SQL statement, identifying the conditions to be met.

LinkTypes

Integer; input-only; optional
Specifies the type of links to return. You can specify
any combination of the following link types:

kEntityLinkType: Entity links

kFSLabelType: Freestanding labels

kAttachedLabelType: Attached labels

If no value is specified, only entity links are returned.

Document

Document object; input-only; optional
This argument is ignored if a LinkTemplate object is passed as the first argument. If this argument is not specified, the document object is identified as follows:

- If the LinkTemplate argument is a string naming a link template, the current document is used.
- If the LinkTemplate argument is a LinkTemplate object, the link template document is used.

RetVal

Links collection;
The Links collection meeting the specified conditions.

Remarks

You must connect to the data source identified by LinkTemplate before issuing GetLinksBySQLCond.

The SQL conditions are applied to every linked row in the database, and the corresponding link object is returned if the conditions are met.
**GetLinkTemplates Method**

Gets the LinkTemplates collection from an AutoCAD document.

### See Also

### Signature

RetVal = object.GetLinkTemplates([Document])

**Object**

*DbConnect* The object or objects this method applies to.

**Document**

*AcadDocument*; input-only; optional

The AutoCAD document to get the link templates collection from. If no value is specified, gets the collection from the active document.

**RetVal**

*LinkTemplates* collection;

The link templates collection.
GetQueries Method

Gets a Queries collection from an AutoCAD document.

Signature

RetVal = object.GetQueries([Document])

Object

DbConnect The object or objects this method applies to.

Document

AcadDocument; input-only, optional
The AutoCAD document from which to obtain the Queries collection. If no value is specified, the collection is obtained from the active document.

RetVal

Queries collection;
The queries collection.
Hide Method

Makes the specified objects invisible in the AutoCAD drawing.

Signature

object.Hide()

Object

LabelTemplate, Label

The object or objects this method applies to.
Intersect Method

Returns the set of Link objects that are members of each of the specified Links collections.

See Also

Signature

Retval = object.Intersect(LinkSelection)

Object

Links collection
The current object or objects this method applies to.

LinkSelection

Links collection
The Links collection with which to intersect the current object.

RetVal

Links collection
The Link objects that were found in both of the specified Links collections.

Remarks

Intersect returns only those Links that appear in both of the specified collections.
IsConnected Method

Indicates whether a connection to a data source exists.

See Also

Signature

RetVal = object.IsConnected(DataSource)

Object

DbConnect The object or objects this method applies to.

DataSource

String; input-only
The name of a UDL file in the Data Links directory.

RetVal

Boolean
Identifies whether or not a connection to a data source exists.

TRUE: A connection to the data source exists.

FALSE: No connection exists.
**Item Method**

Gets the member object at a given index from a collection.

**Signature**

RetVal = object.Item(Index)

**Object**

Object

- LinkTemplates Collection, KeyDescriptions Collection, KeyValues Collection, Links Collection, Queries Collection

The object or objects this method applies to.

**Index**

Variant; input-only

The index location in the collection for the member item to query. The index must be either an integer or a string. If an integer, the index must be between 0 and \( N-1 \), where \( N \) is the number of objects in the collection or selection set.

**RetVal**

The object at the given index location in the specified collection.
Refresh Method

Refreshes the display of labels in the drawing area.

See Also

Signature

object.Refresh()

Object

_LabelTemplate, Label_

The object or objects this method applies to.

Remarks

Refresh does not affect label values, only their appearance (for example, text height and color). Use Reload to update label values from their data source.

Refresh does not require a connection to the data source.

Specifying a LabelTemplate object causes all labels associated with that label template to be refreshed.
Reload Method

Reloads from the database any objects you specify that are connected to their data source.

See Also

Signature

object.Reload()

Object

LabelTemplate, Label

The object or objects this method applies to.

Remarks

Specifying a LabelTemplate object causes all labels associated with that label template to be reloaded.

Reloading does not affect label attributes such as text height or color. Use Refresh to update label attributes in the drawing area.
ReloadLabels Method

Reloads the labels in the specified AutoCAD drawing.

See Also

Signature

object.ReloadLabels([ObjectIDs] [, Document])

Object

DbConnect The object or objects this method applies to.

ObjectIDs

Variant; input-only; optional
Array of longs. Each long specifies an AutoCAD entity object ID. If not specified, reloads all labels in the specified document.

Document

AcadDocument; input-only; optional
The AutoCAD document to reload the labels in. If not specified, reloads the labels in the active document.
Show Method

Makes the specified objects visible in the AutoCAD drawing.

**Signature**

object.Show()

**Object**

*LabelTemplate, Label*

The object or objects this method applies to.
## Subtract Method

Returns the set of Link objects resulting from the subtraction of one Links collection from another.

### Signature

Retval = object.Subtract(LinksSelection)

Object

**Links** collection
The current object or objects this method applies to.

LinkSelection

**Links** collection
The Links collection to subtract from the current object.

RetVal

**Links** collection
The Link objects remaining after subtracting LinkSelection from Object.

### Remarks

The resulting collection contains all members of the current object that do not appear in the LinkSelection collection.
**Union Method**

Returns the set of Link objects that are members of either of the specified Links collections.

**Signature**

Retval = object.Union(LinkSelection)

**Object**

Links collection
The current object or objects this method applies to.

**LinkSelection**

Links collection
The Links collection to merge with the current object.

**RetVal**

Links collection
The Link objects that were found in either of the specified Links collections.

**Remarks**

Union adds the members of both Links collections and returns the result. Links that appear in both collections are included only once in the
resulting collection.
Properties

Catalog

Color

Count

DataSource

DataSourceLocation

DbConnect

DefinedSize

DisplayableAttributes

DisplayValues

Document

FieldName

Format

KeyDescriptions

KeyValues

Label

LabelTemplate

LeaderAttachment

LeaderObjectId
LeaderOffset
Linetype
Link
LinkTemplate
LinkType
MTextObjectId
Name
NumericScale
ObjectId
Precision
Rotation
Schema
Table
Text
TextAttachment
TextHeight
TextStyle
TipOffset
Type
Updatable
Value
Catalog Property

Holds the catalog name value.

See Also

Signature

object.Catalog

object

LabelTemplate, LinkTemplate, Query
The object or objects this property applies to.

Catalog

String
The name of the table catalog.
Color Property

Specifies the color of label text.

See Also

Signature

object.Color

    object

        LabelTemplate The object or objects this property applies to.

    Color

        acColor enum
        Indicates the label text color. The value returned is a color index number from 0 to 256. When setting Color, you can specify one of the constants listed here:

        • acRed (1)
        • acYellow (2)
        • acGreen (3)
        • acCyan (4)
        • acBlue (5)
- acMagenta (6)
- acWhite (7)
Count Property

Holds the number of objects in the specified collection.

**Signature**

object.Count

object

[KeyDescriptions Collection, KeyValues Collection, LabelTemplates Collection, Links Collection, LinkTemplates Collection, Queries Collection]

The object or objects this property applies to.

**Count**

Long; read-only
The number of objects in the collection.
DataSource Property

Holds the data source name value.

Signature

object.DataSource

object

LabelTemplate, LinkTemplate, Query
The object or objects this property applies to.

DataSource

String
Specifies the name of the data source.

See Also
DataSourceLocation Property

Specifies the default storage location of data source configuration files.

See Also

Signature

object.DataSourceLocation

object

**DbConnect** The object or objects this property applies to.

DataSourceLocation

String; read-only

Specifies the path of data source configuration files.
DbConnect Property

Gets the DbConnect object.

**Signature**

object.DbConnect

object

```
LabelTemplate, LabelTemplates Collection, Link, Links Collection, LinkTemplate, LinkTemplates Collection, Queries Collection, Query
```

The object or objects this property applies to.

DbConnect

Object; read-only
The **DbConnect** object.
DefinedSize Property

Specifies the maximum field width of the specified object.

**Signature**

object.DefinedSize

- object
  - [KeyDescription](#) The object or objects this property applies to.
- DefinedSize
  - Long
  - The maximum field width allowed for the KeyDescription object.
DisplayableAttributes Property

Specifies the database table columns to be displayed in labels.

See Also

**Signature**

object.DisplayableAttributes

object

[LabelTemplate](#) The object or objects this property applies to.

DisplayableAttributes

Variant (array of Strings); read-only
Indicates the table columns to be displayed in labels based on the specified LabelTemplate object.

**Remarks**

Displayable attributes can be set using the [Format](#) property of the LabelTemplate object.
DisplayValues Property

Contains the label values derived from data in an external database table that you want displayed.

See Also

Signature

object.DisplayValues

object

Label The object or objects this property applies to.

DisplayValues

Variant (array of Variants); read-only
The label values obtained from the database table.
Document Property

Gets the AcadDocument object.

**Signature**

object.Document

object

[LabelTemplate], [LabelTemplates Collection], [Link],
[Links Collection], [LinkTemplate], [LinkTemplates Collection],
[Queries Collection], [Query]

The object or objects this property applies to.

Document

Object; read-only

The AcadDocument object.

See Also
FieldName Property

Indicates the field name of the specified object.

See Also

Signature

object.FieldName

object

KeyDescription, KeyValue
The object or objects this property applies to.

FieldName

String
Specifies the field name of the object.
**Format Property**

Identifies the data to appear in the label.

**Signature**

object.Format

object

- **LabelTemplate** The object or objects this property applies to.

**Format**

- **String**
  
  Indicates the text and table columns to be displayed in labels based on the specified LabelTemplate object. Specify columns using the following notation:

  `#(<column name>)`

  For example:

  "#(Tag_Number)\P#(Manufacturer)\P#(Equipment_Description)"

**Remarks**

The following example specifies a label that includes the Tag_Number
and Equipment_Description columns from a database table:

```csharp
object.Format = "Details are as follows:\n\n#(Tag_Number)\n(Equipment_Description)"
```

You can use the `DisplayableAttributes` property of the LabelTemplate object to obtain a list of table columns associated with the label template.
KeyDescriptions Property

Gets the KeyDescriptions collection of the specified object.

**Signature**

object.KeyDescriptions

object

[LinkTemplate](#) The object or objects this property applies to.

KeyDescriptions

Object

The KeyDescriptions collection of the specified object.
KeyValues Property

Returns the KeyValues collection for the specified object.

**Signature**

object.KeyValues

- **object**
  - Link The object or objects this property applies to.

- **KeyValues**
  - Object
    - The key values of the specified object.
Label Property

Gets the label associated with the link.

See Also

Signature

objectNewLabel

object

Link The object or objects this property applies to.

Label

Label object; read-only

The label associated with the link.

Remarks

A Label object is returned only if the link type is either a freestanding label or an attached label.
LabelTemplate Property

Specifies the label template for the label.

See Also

Signature

object(LabelTemplate

  object

    Label The object or objects this property applies to.

  LabelTemplate

    LabelTemplate object; read-only
    The label template on which the label is based.
LeaderAttachment Property

Specifies the leader attachment point for labels.

**Signature**

object.LeaderAttachment

object

[LabelTemplate](#) The object or objects this property applies to.

LeaderAttachment

AcAttachmentPoint enum

A number indicating the attachment point. Specify one of the following constants:

- acAttachmentPointTopLeft - Top Left
- acAttachmentPointTopCenter - Top Center
- acAttachmentPointTopRight - Top Right
- acAttachmentPointMiddleLeft - Middle Left
- acAttachmentPointMiddleCenter - Middle Center
- acAttachmentPointMiddleRight - Middle Right
acAttachmentPointBottomLeft - Bottom Left
acAttachmentPointBottomCenter - Bottom Center
acAttachmentPointBottomRight - Bottom Right
LeaderObjectId Property

Gets the object ID of the object attached to a label leader.

**Signature**

object.LeaderObjectId

object

**Label** The object or objects this property applies to.

LeaderObjectId

Long; read-only
The object ID of the object attached to the leader. If the specified label object is a freestanding label, 0 is returned.
LeaderOffset Property

Specifies the leader offset point for labels.

See Also

Signature

object.LeaderOffset

object

LabelTemplate The object or objects this property applies to.

LeaderOffset

Variant (array of Doubles)
The 3D WCS coordinates specifying the offset point for leaders in labels based on the specified label template.
Linetype Property

Specifies the linetype for labels.

**Signature**

`object.Linetype`

- `object`  
  - `LabelTemplate` The object or objects this property applies to.

- Linetype
  - `String`  
    - The linetype for labels.
Link Property

Gets the link associated with the label.

See Also

Signature

object.Link

object

Label

The object or objects this property applies to.

Link

Link object; read-only

The link associated with the label.
**LinkTemplate Property**

Indicates the link template used by the specified object.

**Signature**

object.LinkTemplate

object

[Link](#) The object or objects this property applies to.

LinkTemplate

Object; read-only
Indicates the link template used by the specified link.
LinkType Property

Indicates the link type of the specified object.

See Also

Signature

object.LinkType

object

<Link> The object or objects this property applies to.

LinkType

LinkType enum; read-only
Specifies whether the link is an entity link, a freestanding label, or an attached label. LinkType values are as follows:

2 - Entity link
4 - Freestanding label
8 - Attached label
1 - Unknown

Remarks

When referring to a LinkType value, you can use the following constants:
- kEntityLinkType
- kFSLabelType
- kAttachedLabelType
- kUnknownLinkType
MTextObjectId Property

Gets the object ID of the multiline text for the label.

Signature

object.MTextObjectId

object

Label The object or objects this property applies to.

MTextObjectId

Long; read-only
The object ID of a label's MText object.

See Also
Name Property

Stores the name of the specified object.

**Signature**

```plaintext
object.Name
```

`object`

**LabelTemplate, LinkTemplate, Query**

The object or objects this property applies to.

**Name**

```plaintext
String
```

Indicates the name of the specified object.
NumericScale Property

Indicates the numeric scale of the specified object.

**Signature**

object.NumericScale

  object

    KeyDescription The object or objects this property applies to.

   NumericScale

    Integer

    Specifies the number of decimal places of accuracy for the KeyDescription object.

See Also
ObjectId Property

Stores the object identification of the AutoCAD entity that the specified object is associated with.

See Also

Signature

object.ObjectId

object

ObjectId

Long; read-only
The object ID of the entity the specified object is associated with.

Link The object or objects this property applies to.
**Precision Property**

Indicates the numeric precision of the specified object.

**Signature**

`object.Precision`

- `object`  
  KeyDescription The object or objects this property applies to.

- Precision  
  Integer  
  Indicates the maximum number of digits allowable for a KeyDescription object.
Rotation Property

Specifies the rotation angle for labels.

**Signature**

object.Rotation

object

LabelTemplate The object or objects this property applies to.

Rotation

Double

The rotation angle in radians.

**Remarks**

The rotation angle is relative to the X axis of the object's WCS, with positive angles going counterclockwise when looking down from the Z axis toward the origin.
Schema Property

Holds the schema name value.

See Also

Signature

object.Schema

object

LabelTemplate, LinkTemplate, Query
The object or objects this property applies to.

Schema

String
The name of the database schema of the specified object.
Table Property

Holds the table name value.

**Signature**

object.Table

object

LabelTemplate, LinkTemplate, Query

The object or objects this property applies to.

Table

String

The name of the database table for the specified object.
Text Property

Specifies the SQL text of the query.

**Signature**

`object.Text`

**object**

*Query* The object or objects this property applies to.

**Text**

*String*

The SQL statement of the query.
TextAttachment Property

Specifies the text attachment point for labels.

**Signature**

`object.TextAttachment`

- `object` - The object or objects this property applies to.

- `TextAttachment` - 
  
  AcAttachmentPoint enum
  
  A number indicating the attachment point. Specify one of the following constants:

  - `acAttachmentPointTopLeft` - Top Left
  - `acAttachmentPointTopCenter` - Top Center
  - `acAttachmentPointTopRight` - Top Right
  - `acAttachmentPointMiddleLeft` - Middle Left
  - `acAttachmentPointMiddleCenter` - Middle Center
  - `acAttachmentPointMiddleRight` - Middle Right

See Also
acAttachmentPointBottomLeft - Bottom Left
acAttachmentPointBottomCenter - Bottom Center
acAttachmentPointBottomRight - Bottom Right
TextHeight Property

Specifies the text height for label text.

**Signature**

object.TextHeight

  object

  LabelTemplate The object or objects this property applies to.

  TextHeight

  Double
  The height for label text.

See Also
**TextStyle Property**

Specifies the text style for label text.

**Signature**

objectTextStyle

object

```plaintext
LabelTemplate
```
The object or objects this property applies to.

TextStyle

String

The name of the style used for label text.
TipOffset Property

Specifies the tip offset for label text.

See Also

Signature

object. TipOffset

object

LabelTemplate The object or objects this property applies to.

TipOffset

Variant (three-element array of Doubles)
The tip offset for label text.
Type Property

Specifies the data type of the current object.

Signature

object.Type

object

KeyDescription The object or objects this property applies to.

Type

CaoDataType enum
The data type of the object. Can be one of the following constants:

kCaoTypeText

kCaoTypeNumeric

kCaoTypeInteger

kCaoTypeDouble

kCaoTypeDate

kCaoTypeTime
kCaoTypeTimestamp

kCaoTypeBit

kCaoTypeBlob
Updatable Property

Indicates whether a particular link can be updated.

See Also

Signature

object..Updatable

object

Link The object or objects this property applies to.

Updatable

Boolean; read-only
Specifies whether the link can be updated. If, for example, a link is on a locked layer, it cannot be updated until the layer is unlocked.
**Value Property**

Holds the value for the specified object.

**Signature**

```
object.Value

object

KeyValue
```

芡 Key

Value

```
Variant
Stores the value for the KeyValue object.
```

See Also
Version Property

Identifies the ASE version of the DbConnect object.

See Also

**Signature**

`object.Version`

- **object**: `DbConnect` The object or objects this property applies to.

- **Version**: String; read-only
  Indicates the version of the DbConnect object.
Events

OnConnect  Triggered when a connection to the data source is established.

OnDisconnect  Triggered when the connection to the data source is closed.

OnLabelTemplateCreated  Triggered when a new LabelTemplate is saved in the drawing.

OnLabelTemplateDeleted  Triggered when a LabelTemplate is deleted from the drawing.

OnLabelTemplateModified  Triggered when LabelTemplate changes are saved in the drawing.

OnLinkTemplateCreated  Triggered when a new LinkTemplate is saved in the drawing.

OnLinkTemplateDeleted  Triggered when a LinkTemplate is deleted from the drawing.

OnLinkTemplateModified  Triggered when LinkTemplate changes are saved in the drawing.

OnQueryCreated  Triggered when a Query is saved in the drawing.

OnQueryDeleted  Triggered when a Query is deleted from the drawing.

OnQueryModified  Triggered when Query changes are saved in the drawing.
**OnConnect Event**

Triggered when a connection to a data source is established.

**Signature**

object.OnConnect(Datasource)

Object

*DbConnect* object
An object expression that evaluates to a DbConnect container object.

Datasource

String; input to the handler
The name of the data source.
OnDisconnect Event

Triggered when a connection to a data source is closed.

**Signature**

```object.OnDisconnect(Datasource)```

**Object**

- **DbConnect** object
  An object expression that evaluates to a DbConnect container object.

**Datasource**

- String; input to the handler
  The name of the data source.

See Also
OnLabelTemplateCreated Event

Triggered when a new label template is saved in a drawing.

See Also

Signature

object.OnLabelTemplateCreated(Document, LabelTemplateName)

Object

DbConnect object
An object expression that evaluates to a DbConnect container object.

Document

String; input to the handler
The name of the document in which the label template was created.

LabelTemplateName

String; input to the handler
The name of the label template that was created.

Remarks

This event may be triggered when a drawing containing label templates is opened.
OnLabelTemplateDeleted Event

Triggered when a label template is deleted from a drawing.

See Also

Signature

object.OnLabelTemplateDeleted(Document, LabelTemplateName)

Object

DbConnect object
An object expression that evaluates to a DbConnect container object.

Document

String; input to the handler
The name of the document from which the label template was deleted.

LabelTemplateName

String; input to the handler
The name of the label template that was deleted.
OnLabelTemplateModified Event

Triggered when label template changes are saved in a drawing.

See Also

Signature

object.OnLabelTemplateModified(Document, LabelTemplateName)

Object

DbConnect object
An object expression that evaluates to a DbConnect container object.

Document

String; input to the handler
The name of the document containing the label template that was modified.

LabelTemplateName

String; input to the handler
The name of the label template that was modified.

Remarks

In some instances when a label template is modified, dbConnect triggers the following sequence of events:
1. OnLabelTemplateCreate <temporary name starting from ASE>
2. OnLabelTemplateDelete <label template name being modified>
3. OnLabelTemplateCreate <label template name being modified>
4. OnLabelTemplateDeleted <temporary name from 1>
OnLinkTemplateCreated Event

Triggered when a new link template is saved in a drawing.

See Also

Signature

object.OnLinkTemplateCreated(Document, LinkTemplateName)

Object

DbConnect object
An object expression that evaluates to a DbConnect container object.

Document

String; input to the handler
The name of the document in which the link template was created.

LinkTemplateName

String; input to the handler
The name of the link template that was created.

Remarks

This event may be triggered when a drawing containing link templates is opened.
OnLinkTemplateDeleted Event

Triggered when a link template is deleted from a drawing.

See Also

Signature

object.OnLinkTemplateDeleted(Document, LinkTemplateName)

Object

DbConnect object
An object expression that evaluates to a DbConnect container object.

Document

String; input to the handler
The name of the document from which the link template was deleted.

LinkTemplateName

String; input to the handler
The name of the link template that was deleted.
OnLinkTemplateModified Event

Triggered when link template changes are saved in a drawing.

See Also

Signature

object.OnLinkTemplateModified(Document, LinkTemplateName)

Object

DbConnect object
An object expression that evaluates to a DbConnect container object.

Document

String; input to the handler
The name of the document containing the link template that was modified.

LinkTemplateName

String; input to the handler
The name of the link template that was modified.

Remarks

In some instances when a link template is modified, dbConnect triggers the following sequence of events:
1. OnLinkTemplateCreate <temporary name starting from ASE>
2. OnLinkTemplateDelete <link template name being modified>
3. OnLinkTemplateCreate <link template name being modified>
4. OnLinkTemplateDeleted <temporary name from 1>
OnQueryCreated Event

Triggered when a new query is saved in a drawing.

See Also

Signature

object.OnQueryCreated(Document, QueryName)

Object

DbConnect object
An object expression that evaluates to a DbConnect container object.

Document

String; input to the handler
The name of the document in which the query was created.

QueryName

String; input to the handler
The name of the query that was created.
OnQueryDeleted Event

Triggered when a query is deleted from a drawing.

See Also

Signature

object.OnQueryDeleted(Document, QueryName)

Object

DbConnect object
An object expression that evaluates to a DbConnect container object.

Document

String; input to the handler
The name of the document from which the query was deleted.

QueryName

String; input to the handler
The name of the query that was deleted.
OnQueryModified Event

Triggered when query changes are saved in a drawing.

See Also

Signature

object.OnQueryModified(Document, QueryName)

Object

DbConnect object
An object expression that evaluates to a DbConnect container object.

Document

String; input to the handler
The name of the document containing the query that was modified.

QueryName

String; input to the handler
The name of the query that was modified.