

Connectivity Automation Objects

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.

Topics in this section

- [CAO objects, methods, and properties](#)
- [Migrate projects](#)

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CAO objects, methods, and properties

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

CAO objects and their methods and properties introduced in AutoCAD 2002		
<i>Object</i>	<i>Methods</i>	<i>Properties</i>
Label object	Hide , Refresh , Reload , Show	DbConnect , DisplayValues , Document , LabelTemplate , LeaderObjectId , Link , MTextObjectId
LabelTemplate	Hide , Refresh , Reload , Show	Catalog , Color , DataSource , DbConnect , DisplayableAttributes , Document , Format , LeaderAttachment , LeaderOffset , Linetype , Name , Rotation , Schema , Table , TextAttachment , TextHeight , TextStyle , TipOffset
LabelTemplates collection	Add , Delete , Item	Count , DbConnect , Document

Queries collection	Add , Delete , Item	Count , DbConnect , Document
Query object	None	Catalog , DataSource , DbConnect , Document , Name , Schema , Table , Text

Existing objects and their methods and properties introduced in AutoCAD 2002

<i>Object</i>	<i>New Methods</i>	<i>New Properties</i>
DbConnect object	Connect , GetLabelTemplates , GetLinksByKey , GetLinksByLabelTemplate , GetLinksBySQLCond , GetQueries , IsConnected	None
KeyDescriptions collection	Add	None
Link	None	Label
Links collection	Intersect , Subtract , Union	None
LinkTemplate	CreateLabel	None
LinkTemplates collection	Add , Delete	None

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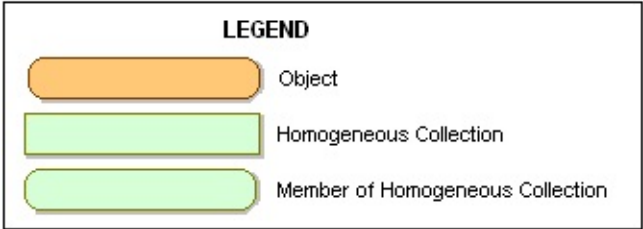
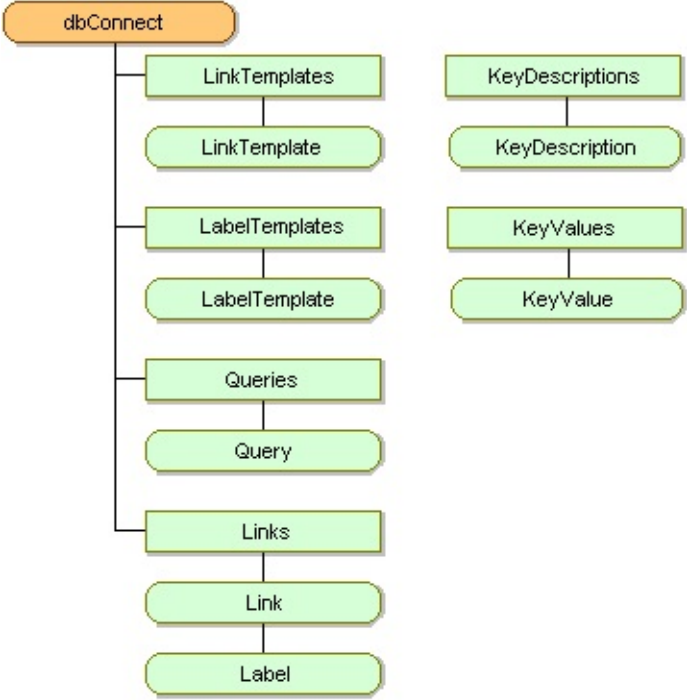
Migrate projects

In general, an AutoCAD 2008 automation project created in the VBA IDE or created with Visual Basic 6 should work with AutoCAD 2009.

AutoCAD 2009 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 2009 automation projects use the *AutoCAD.Application.17* ProgID for the *CreateObject*, *GetObject*, and *GetInterfaceObject* methods. For example, if you are using the *CreateObject* function in an AutoCAD 2009 automation project, you use *CreateObject ("AutoCAD.Application.17")*. If an automation project uses version-independent ProgIDs, change the project to use version-dependent ProgIDs.

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Objects

Topics in this section

- [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](#)

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DbConnect object

An instance of the AutoCAD DbConnect object.

VBA class name: DbConnect

Create using: For VB and AutoCAD VBA:

```
AutoCAD.GetInterfaceObject("CAO.DbConnect.17")
```

Access via: N/A

Methods	Properties	Events
Connect	Version	OnConnect
Disconnect	DataSourceLocation	OnDisconnect
GetLabelTemplates		OnLabelTemplateCreate
GetLinks		OnLabelTemplateDelete
GetLinksByKey		OnLabelTemplateModifi
GetLinksBySQLCond		OnLinkTemplateCreated
GetLinksByLabelTemplate		OnLinkTemplateDeleted
GetLinkTemplates		OnLinkTemplateModifie
GetQueries		OnQueryCreated
IsConnected		OnQueryDeleted
ReloadLabels		OnQueryModified

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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:

Methods	Properties
None	DefinedSize
	FieldName
	NumericScale
	Precision
	Type

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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	Properties
Add	Count
Item	

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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:

Methods	Properties
None	FieldName
	Value

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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	Properties
Add	Count
Item	

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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:

Methods	Properties
Hide	DbConnect
Refresh	DisplayValues
Reload	Document
Show	LabelTemplate
	LeaderObjectId
	Link
	MTextObjectId

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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 [LinkTemplates collection](#). To edit or query a label template, use the following methods and properties:

Methods

[Hide](#)

[Refresh](#)

[Reload](#)

[Show](#)

Properties

[Catalog](#)

[Color](#)

[Datasource](#)

[DbConnect](#)

[DisplayableAttributes](#)

[Document](#)

[Format](#)

[LeaderAttachment](#)

[LeaderOffset](#)

[Linetype](#)

[Name](#)

[Rotation](#)

[Schema](#)

[Table](#)

[TextAttachment](#)

[TextHeight](#)

[TextStyle](#)

[TipOffset](#)

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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:

Methods	Properties
Add	Count
Delete	DbConnect
Item	Document

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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 an 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:

Methods

[Delete](#)

Properties

[DbConnect](#)

[Document](#)

[KeyValues](#)

[Label](#)

[LinkTemplate](#)

[LinkType](#)

[ObjectId](#)

[Updatable](#)

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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](#) object. To select a specific Link, use the [Item](#) method. To edit or query the Links collection, use the following methods and properties:

Methods	Properties
Intersect	Count
Item	DbConnect
Subtract	Document
Union	

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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:

Methods	Properties
CreateLabel	Catalog
CreateLink	DataSource
	DbConnect
	Document
	KeyDescriptions
	Name
	Schema
	Table

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LinkTemplates collection

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:

Methods	Properties
Add	Count
Delete	DbConnect
Item	Document

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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:

Methods	Properties
Add	Count
Delete	DbConnect
Item	Document

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Query object

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:

Methods	Properties
None	Catalog
	Datasource
	DbConnect
	Document
	Name
	Schema
	Table
	Text

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Methods

Topics in this section

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- [Connect](#)
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- [GetLabelTemplates](#)
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- [GetLinksByKey](#)
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- [GetLinksBySQLCond](#)
- [GetLinkTemplates](#)
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- [IsConnected](#)
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- [Refresh](#)
- [Reload](#)
- [ReloadLabels](#)
- [Show](#)

- [Subtract](#)
- [Union](#)

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Add

Adds a new object to the specified collection.

```
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 object](#)

The newly added object.

```
RetVal = object.Add(FieldName, Value)
```

Object

[KeyValue object](#)

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 object 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:

- #(name)

Column names are converted to the following format

string:

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

RetVal

[LabelTemplate object](#)

The newly added object.

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

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 Link template name.
------	---

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

RetVal	LinkTemplate object 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 object The newly added object.

See Also

- [Delete](#)

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Clear

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.

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Connect

Connects to a data source.

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 <i>.udl</i> 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.

See Also

- [Disconnect](#)
 - [DataSource](#)
 - [DataSourceLocation](#)
-

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CreateLabel

Creates an attached or freestanding label.

Signature

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

Object	LinkTemplate object 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.

See Also

- [CreateLink](#)

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CreateLink

Creates a link to an AutoCAD entity.

Signature

```
RetVal = object.CreateLink(ObjectID, KeyValues)
```

Object	LinkTemplate object 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.

See Also

- [CreateLabel](#)

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Delete

Deletes a specified object.

Signature

`object.Delete(Index)`

Object	LabelTemplates collection , Link object , 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.

See Also

- [Add](#)
- [Count](#)

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Disconnect

Disconnects from a data source.

Signature

`object.Disconnect(Datasource)`

Object

DbConnect

The object or objects this method applies to.

Datasource

String; input-only

The name of a <i>.udl</i> file in the Data Links directory.

See Also

- [Connect](#)

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GetLabelTemplates

Gets a LabelTemplates collection from an AutoCAD document.

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.

See Also

- [GetLinksByLabelTemplate](#)

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GetLinks

Gets a Links collection.

Signature

```
RetVal = object.GetLinks([LinkTemplate] [, ObjectIDs]  
[, LinkTypes] [, Document])
```

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	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 for the specified link template.

Remarks

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

See Also

- [GetLinkTemplates](#)
- [GetLinksByKey](#)
- [GetLinksByLabelTemplate](#)
- [GetLinksBySQLCond](#)

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GetLinksByKey

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

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:

- `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 for the specified keys.

See Also

- [GetLinkTemplates](#)
- [GetLinks](#)
- [GetLinksByLabelTemplate](#)
- [GetLinksBySQLCond](#)

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GetLinksByLabelTemplate

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

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.

See Also

- [GetLabelTemplates](#)
- [GetLinks](#)
- [GetLinksByKey](#)
- [GetLinksBySQLCond](#)

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GetLinksBySQLCond

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

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.

See Also

- [GetLinkTemplates](#)
- [GetLinks](#)
- [GetLinksByKey](#)
- [GetLinksByLabelTemplate](#)

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GetLinkTemplates

Gets the LinkTemplates collection from an AutoCAD document.

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.

See Also

- [GetLinks](#)
- [GetLabelTemplates](#)

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GetQueries

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.

See Also

- [No related topics.](#)
-

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Hide

Makes the specified objects invisible in the AutoCAD drawing.

Signature

`object.Hide()`

Object

[LabelTemplate object](#),

[Label](#)

The object or objects this method applies to.

See Also

- [Show](#)

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Intersect

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

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.

See Also

- [Subtract](#)

- [Union](#)

[Please send us your comment about this page](#)

IsConnected

Indicates whether a connection to a data source exists.

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.

See Also

- [Connect](#)
- [Disconnect](#)

- [DbConnect](#)

[Please send us your comment about this page](#)

Item

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

Signature

```
RetVal = object.Item(Index)
```

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.

See Also

- [Count](#)

[Please send us your comment about this page](#)

Refresh

Refreshes the display of labels in the drawing area.

Signature

`object.Refresh()`

Object

[LabelTemplate object](#),

[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.

See Also

- [Reload](#)

[Please send us your comment about this page](#)

Reload

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

Signature

`object.Reload()`

Object

[LabelTemplate object](#),

[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.

See Also

- [Refresh](#)

[Please send us your comment about this page](#)

ReloadLabels

Reloads the labels in the specified AutoCAD drawing.

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.

See Also

- [No related topics.](#)

[Please send us your comment about this page](#)

Show

Makes the specified objects visible in the AutoCAD drawing.

Signature

`object.Show()`

Object

[LabelTemplate object](#),

[Label object](#)

The object or objects this method applies to.

See Also

- [Hide](#)

[Please send us your comment about this page](#)

Subtract

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

Signature

```
RetVal = object.Subtract(LinkSelection)
```

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.

See Also

- [Intersect](#)
- [Union](#)

[Please send us your comment about this page](#)

Union

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.

See Also

- [Intersect](#)
- [Subtract](#)

[Please send us your comment about this page](#)

Properties

Topics in this section

- [Catalog](#)
- [Color](#)
- [Count](#)
- [DataSource](#)
- [DataSourceLocation](#)
- [DbConnect](#)
- [DefinedSize](#)
- [DisplayableAttributes](#)
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- [LinkType](#)
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- [Value](#)
- [Version](#)

[Please send us your comment about this page](#)

Catalog

Holds the catalog name value.

Signature

`object.Catalog`

<code>object</code>	LabelTemplate object , LinkTemplate object , Query object The object or objects this property applies to.
<code>Catalog</code>	String The name of the table catalog.

See Also

- [DataSource](#)
- [Schema](#)
- [Table](#)

[Please send us your comment about this page](#)

Color

Specifies the color of label text.

Signature

`object.Color`

`object`

[LabelTemplate object](#)

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)
-

[Please send us your comment about this page](#)

Count

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.

See Also

- [Item](#)

[Please send us your comment about this page](#)

DataSource

Holds the data source name value.

Signature

`object.DataSource`

<code>object</code>	LabelTemplate object , LinkTemplate object , Query object The object or objects this property applies to.
<code>DataSource</code>	String Specifies the name of the data source.

See Also

- [DatasourceLocation property](#)
- [Catalog](#)
- [Schema](#)
- [Table](#)

[Please send us your comment about this page](#)

DataSourceLocation

Specifies the default storage location of data source configuration files.

Signature

`object.DataSourceLocation`

<code>object</code>

DbConnect object

The object or objects this property applies to.

<code>DataSourceLocation</code>

String; read-only

Specifies the path of data source configuration files.
--

See Also

- [DataSource](#)

[Please send us your comment about this page](#)

DbConnect

Gets the DbConnect object.

Signature

`object.DbConnect`

<code>object</code>	LabelTemplate object , LabelTemplates collection , Link object , Links collection , LinkTemplate object , LinkTemplates Collection , Queries collection , Query object The object or objects this property applies to.
<code>DbConnect</code>	Object; read-only The DbConnect object object.

See Also

- [Connect](#)
- [Disconnect](#)

[Please send us your comment about this page](#)

DefinedSize

Specifies the maximum field width of the specified object.

Signature

`object.DefinedSize`

<code>object</code>

KeyDescription object

The object or objects this property applies to.

<code>DefinedSize</code>

Long

The maximum field width allowed for the KeyDescription object.
--

See Also

- [FieldName](#)

[Please send us your comment about this page](#)

DisplayableAttributes

Specifies the database table columns to be displayed in labels.

Signature

`object.DisplayableAttributes`

`object`

[LabelTemplate object](#)

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.

See Also

- [Format](#)

[Please send us your comment about this page](#)

DisplayValues

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

Signature

`object.DisplayValues`

<code>object</code>

Label object

The object or objects this property applies to.

<code>DisplayValues</code>

Variant (array of Variants); read-only
--

The label values obtained from the database table.
--

See Also

- [CreateLabel](#)

[Please send us your comment about this page](#)

Document

Gets the AcadDocument object.

Signature

object.Document

object	LabelTemplate object , LabelTemplates collection , Link object , Links collection , LinkTemplate object , LinkTemplates Collection , Queries collection , Query object The object or objects this property applies to.
Document	Object; read-only The AcadDocument object.

See Also

- [No related topics.](#)

[Please send us your comment about this page](#)



FieldName

Indicates the field name of the specified object.

Signature

`object.FieldName`

<code>object</code>

KeyDescription object , KeyValue object

The object or objects this property applies to.

<code>FieldName</code>

String

Specifies the field name of the object.

See Also

- [DefinedSize](#)

[Please send us your comment about this page](#)

Format

Identifies the data to appear in the label.

Signature

`object.Format`

`object`

[LabelTemplate object](#)

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:

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

You can use the [DisplayableAttributes](#) property of the LabelTemplate object to obtain a list of table columns associated with the label template.

See Also

- [DisplayableAttributes](#)

[Please send us your comment about this page](#)

KeyDescriptions

Gets the KeyDescriptions collection of the specified object.

Signature

`object.KeyDescriptions`

<code>object</code>

LinkTemplate object

The object or objects this property applies to.

<code>KeyDescriptions</code>

Object

The KeyDescriptions collection of the specified object.

See Also

- [KeyValues](#)

[Please send us your comment about this page](#)

KeyValues

Returns the KeyValues collection for the specified object.

Signature

`object.KeyValues`

<code>object</code>

Link object

The object or objects this property applies to.

<code>KeyValues</code>

Object

The key values of the specified object.

See Also

- [KeyDescriptions](#)

[Please send us your comment about this page](#)

Label

Gets the label associated with the link.

Signature

`object.Label`

<code>object</code>

Link object

The object or objects this property applies to.

<code>Label</code>

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.

See Also

- [Link](#)
- [GetLinks](#)

[Please send us your comment about this page](#)

LabelTemplate

Specifies the label template for the label.

Signature

`object.LabelTemplate`

<code>object</code>

Label object

The object or objects this property applies to.

<code>LabelTemplate</code>

LabelTemplate object ; read-only
--

The label template on which the label is based.

See Also

- [Label](#)
- [GetLabelTemplates](#)

[Please send us your comment about this page](#)

LeaderAttachment

Specifies the leader attachment point for labels.

Signature

`object.LeaderAttachment`

`object`

[LabelTemplate object](#)

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
-

See Also

- [GetLabelTemplates](#)
 - [LeaderObjectId](#)
 - [LeaderOffset](#)
-

[Please send us your comment about this page](#)

LeaderObjectId

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

Signature

`object.LeaderObjectId`

<code>object</code>

Label object

The object or objects this property applies to.

<code>LeaderObjectId</code>

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.

See Also

- [Label](#)
- [LeaderAttachment](#)
- [LeaderOffset](#)
- [MTextObjectId](#)

[Please send us your comment about this page](#)

LeaderOffset

Specifies the leader offset point for labels.

Signature

`object.LeadersOffset`

<code>object</code>

LabelTemplate object

The object or objects this property applies to.

<code>LeadersOffset</code>

Variant (array of Doubles)

The 3D WCS coordinates specifying the offset point for leaders in labels based on the specified label template.

See Also

- [GetLabelTemplates](#)
- [LeaderAttachment](#)
- [LeaderObjectId](#)

[Please send us your comment about this page](#)

Linetype

Specifies the linetype for labels.

Signature

`object.Linetype`

<code>object</code>

LabelTemplate object

The object or objects this property applies to.

<code>Linetype</code>

<code>String</code>

The linetype for labels.

See Also

- [No related topics.](#)

[Please send us your comment about this page](#)

Link

Gets the link associated with the label.

Signature

`object.Link`

<code>object</code>

Label object

The object or objects this property applies to.

<code>Link</code>

Link object ; read-only

The link associated with the label.

See Also

- [Label](#)

[Please send us your comment about this page](#)

LinkTemplate

Indicates the link template used by the specified object.

Signature

`object.LinkTemplate`

<code>object</code>	Link object The object or objects this property applies to.
<code>LinkTemplate</code>	Object; read-only Indicates the link template used by the specified link.

See Also

- [GetLinkTemplates](#)

[Please send us your comment about this page](#)

LinkType

Indicates the link type of the specified object.

Signature

`object.LinkType`

`object`

[Link object](#)

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:

- `kEntityType`
- `kFSLabelType`
- `kAttachedLabelType`

- kUnkownLinkType

See Also

- [Link](#)

[Please send us your comment about this page](#)

MTextObjectId

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

Signature

`object.MTextObjectId`

<code>object</code>

Label object

The object or objects this property applies to.

<code>MTextObjectId</code>

Long; read-only

The object ID of a label's MText object.
--

See Also

- [LeaderObjectId](#)

[Please send us your comment about this page](#)

Name

Stores the name of the specified object.

Signature

`object.Name`

`object`

[LabelTemplate object](#),
[LinkTemplate object](#),
[Query object](#)

The object or objects this property applies to.

`Name`

String

Indicates the name of the specified object.

See Also

- [No related topics.](#)

[Please send us your comment about this page](#)

NumericScale

Indicates the numeric scale of the specified object.

Signature

`object.NumericScale`

<code>object</code>

KeyDescription object

The object or objects this property applies to.

<code>NumericScale</code>

Integer

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

See Also

- [Precision](#)
- [Type](#)

[Please send us your comment about this page](#)

ObjectId

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

Signature

`object.ObjectId`

<code>object</code>

Link object

The object or objects this property applies to.

<code>ObjectId</code>

Long; read-only

The object ID of the entity the specified object is associated with.
--

See Also

- [Link](#)

[Please send us your comment about this page](#)

Precision

Indicates the numeric precision of the specified object.

Signature

`object.Precision`

<code>object</code>

KeyDescription object

The object or objects this property applies to.

<code>Precision</code>

Integer

Indicates the maximum number of digits allowable for a KeyDescription object.

See Also

- [NumericScale](#)
- [Type](#)

[Please send us your comment about this page](#)

Rotation

Specifies the rotation angle for labels.

Signature

`object.Rotation`

<code>object</code>

LabelTemplate object

The object or objects this property applies to.

<code>Rotation</code>

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.

See Also

- [No related topics.](#)

[Please send us your comment about this page](#)

Schema

Holds the schema name value.

Signature

object.Schema

object	LabelTemplate object , LinkTemplate object , Query object The object or objects this property applies to.
Schema	String The name of the database schema of the specified object.

See Also

- [Catalog](#)
- [DataSource](#)
- [Table](#)

[Please send us your comment about this page](#)

Table

Holds the table name value.

Signature

`object.Table`

<code>object</code>	LabelTemplate object , LinkTemplate object , Query object The object or objects this property applies to.
<code>Table</code>	String The name of the database table for the specified object.

See Also

- [Catalog](#)
- [DataSource](#)
- [Schema](#)

[Please send us your comment about this page](#)

Text

Specifies the SQL text of the query.

Signature

`object.Text`

<code>object</code>

Query object

The object or objects this property applies to.

<code>Text</code>

<code>String</code>

The SQL statement of the query.

See Also

- [GetQueries](#)

[Please send us your comment about this page](#)

TextAttachment

Specifies the text attachment point for labels.

Signature

`object.TextAttachment`

`object`

[LabelTemplate 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

- acAttachmentPointBottomLeft - Bottom Left
 - acAttachmentPointBottomCenter - Bottom Center
 - acAttachmentPointBottomRight - Bottom Right
-

See Also

- [LabelTemplate](#)
 - [TextHeight](#)
 - [TextStyle](#)
 - [TipOffset](#)
-

[Please send us your comment about this page](#)

TextHeight

Specifies the text height for label text.

Signature

`object.TextHeight`

<code>object</code>

LabelTemplate object

The object or objects this property applies to.

<code>TextHeight</code>

Double

The height for label text.

See Also

- [LabelTemplate](#)
- [TextAttachment](#)
- [TextStyle](#)
- [TipOffset](#)

[Please send us your comment about this page](#)

TextStyle

Specifies the text style for label text.

Signature

`object.TextStyle`

<code>object</code>

LabelTemplate object

The object or objects this property applies to.

<code>TextStyle</code>

String

The name of the style used for label text.
--

See Also

- [LabelTemplate](#)
- [TextAttachment](#)
- [TextHeight](#)
- [TipOffset](#)

[Please send us your comment about this page](#)

TipOffset

Specifies the tip offset for label text.

Signature

`object.TipOffset`

<code>object</code>

LabelTemplate object

The object or objects this property applies to.

<code>TipOffset</code>

Variant (three-element array of Doubles)
--

The tip offset for label text.

See Also

- [LabelTemplate](#)
- [TextAttachment](#)
- [TextHeight](#)
- [TextStyle](#)

[Please send us your comment about this page](#)

Type

Specifies the data type of the current object.

Signature

`object.Type`

`object`

[KeyDescription object](#)

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`
-

See Also

- [NumericScale](#)
- [Precision](#)

[Please send us your comment about this page](#)

Updatable

Indicates whether a particular link can be updated.

Signature

`object.Updatable`

<code>object</code>

Link object

The object or objects this property applies to.

<code>Updatable</code>

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.
--

See Also

- [No related topics.](#)

[Please send us your comment about this page](#)

Value

Holds the value for the specified object.

Signature

`object.Value`

<code>object</code>

KeyValue object

The object or objects this property applies to.

<code>Value</code>

Variant

Stores the value for the KeyValue object.

See Also

- [No related topics.](#)

[Please send us your comment about this page](#)

Version

Identifies the ASE version of the DbConnect object.

Signature

`object.Version`

<code>object</code>

DbConnect object

The object or objects this property applies to.

<code>Version</code>

String; read-only

Indicates the version of the DbConnect object.
--

See Also

- [No related topics.](#)

[Please send us your comment about this page](#)

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.

Topics in this section

- [OnConnect](#)
- [OnDisconnect](#)
- [OnLabelTemplateCreated](#)
- [OnLabelTemplateDeleted](#)

- [OnLabelTemplateModified](#)
- [OnLinkTemplateCreated](#)
- [OnLinkTemplateDeleted](#)
- [OnLinkTemplateModified](#)
- [OnQueryCreated](#)
- [OnQueryDeleted](#)
- [OnQueryModified](#)

[Please send us your comment about this page](#)

OnConnect

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.

See Also

- [OnDisconnect](#)

[Please send us your comment about this page](#)

OnDisconnect

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

- [OnConnect](#)

[Please send us your comment about this page](#)

OnLabelTemplateCreated

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

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.

See Also

- [OnLabelTemplateModified](#)
- [OnLabelTemplateDeleted](#)

[Please send us your comment about this page](#)

OnLabelTemplateDeleted

Triggered when a label template is deleted from a drawing.

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.

See Also

- [OnLabelTemplateCreated](#)
- [OnLabelTemplateModified](#)

[Please send us your comment about this page](#)

OnLabelTemplateModified

Triggered when label template changes are saved in a drawing.

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>

See Also

- [OnLabelTemplateCreated](#)
- [OnLabelTemplateDeleted](#)

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OnLinkTemplateCreated

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

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.

See Also

- [OnLinkTemplateModified](#)
- [OnLinkTemplateDeleted](#)

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OnLinkTemplateDeleted

Triggered when a link template is deleted from a drawing.

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.

See Also

- [OnLinkTemplateCreated](#)
 - [OnLinkTemplateModified](#)
-

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OnLinkTemplateModified

Triggered when link template changes are saved in a drawing.

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>

See Also

- [OnLinkTemplateCreated](#)
- [OnLinkTemplateDeleted](#)

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OnQueryCreated

Triggered when a new query is saved in a drawing.

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.

See Also

- [OnQueryModified](#)
- [OnQueryDeleted](#)

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OnQueryDeleted

Triggered when a query is deleted from a drawing.

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.

See Also

- [OnQueryCreated](#)
- [OnQueryModified](#)

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OnQueryModified

Triggered when query changes are saved in a drawing.

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

See Also

- [OnQueryCreated](#)
- [OnQueryModified](#)

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