

Project Overview

Description

The Kofax Capture Optimized Custom Module API is an easy-to-use custom module interface that allows fast retrieval and selective update of data. This API provides a mechanism that allows use of the Kofax Capture Document Access dynamic-link library (DBLite) to select and open a batch. However, once open, it is not necessary to export the data to XML.

Instead, the code can retrieve an API object that acts like an XML element, but without XML. The code can selectively extract and update Kofax Capture data through this API. Because the data is processed selectively, execution is faster than XML importing and exporting. The actual organization of Kofax Capture data (the element and attribute structure) is identical between the XML and this new API.

Kofax Capture continues to support XML, which may still be better for developers with applications that are well suited to an XML interface.

The Kofax Capture Optimized Custom Module API is implemented in the DBLiteOpt library (DBLiteOpt.DLL).

Classes

Class Module	Description
ACDataElement	The ACData Element object represents a specific element in the Kofax Capture data structure. A particular ACDataElement object corresponds to an XML element in the XML output. This class is exposed via DBLite.
ACDataElementAttributeColl	This is a class allowing specification of attribute sub-lists; refer to FindPartialChildElementsByName and FindPartialChildElementsByAttribute .
ACDataElementCollection	This is a class representing a collection of ACDataElements.

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Kofax Capture Optimized Custom Module API

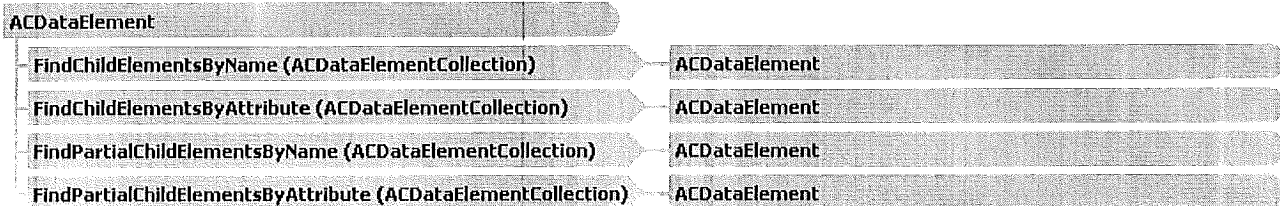
ACDataElement Object

Description

The ACData Element object represents a specific element in the Kofax Capture data structure. A particular ACDataElement object corresponds to an XML element in the XML output. This class is exposed via DBLite.

For a list of all members defined in this module, see [ACDataElement members](#).

Object Model



Remarks

Attribute Updates

Attributes within the setup data cannot be updated. Attempting to update them causes an error.

Attributes within the runtime data can usually be updated. Exceptions occur for translated attributes and some attributes with custom actions.

After an attribute is updated, attempting to re-read the attribute from the same ACDataElement reflects the modified value. If an attribute is updated and then the ACDataElement is re-extracted from the parent (see the child extraction methods below), then the updated attribute value is also reflected.

If an ACDataElement is extracted two or more times, and then an attribute is changed in one copy, then the other copy does not reflect the change. This is because attribute data is cached for a particular ACDataElement.

Note The client code is not able to update BatchHistoryEntry elements. This is done for consistency with the existing custom module XML interface.

Translated Attributes

Translated attributes (such as "BatchClassName" on the Batch element) define the structure of the data and changing them can cause issues with subsequent Kofax Capture modules.

With the exception of the FormTypeName attribute, attempting to change any translated attribute (even in the runtime) causes an error. The list of translated attributes can be determined via the new HTML file content.

Attributes Referencing Binary Data

Several attributes retrieve or modify binary information, such as an image file or OCR Full-Text output file.

Using these attributes (ImageFile and BitonalImageFile) through the ACDataElement API offers somewhat simpler and more robust behavior as compared to the XML interface.

Statistics Attributes

Several special attributes are utilized to allow a custom module or workflow agent to collect (user tracking) statistics.

Batch Priority Attribute

The priority attribute on the Batch element is checked to ensure that it is between 1 and 10 (inclusive) when this attribute is set. Failure to set the value within in this range causes an error.

Document FormTypeName Attribute

There is an attribute on the "Document" element called "FormTypeName" which indicates the current form type.

When using the ACDataElement API, translated items such as this usually cannot be updated. However, this attribute is an exception. Users can update this attribute with a different form type name (or an empty string to un-assign the form type).

When the form name is assigned (or assigned to nothing), the child IndexField objects are updated as appropriate to match the selected form type. Any existing information in the child IndexField objects is lost. If assigning the form type name to an empty string, then all child IndexField objects are removed.

Document Unique ID Generation

As with the XML interface, there is a DocumentUniqueID attribute off the Document element that represents a globally unique ID for that document.

However, this value is not necessarily generated by default. Kofax Capture generates unique document IDs on demand. If the value has not been generated, then reading this attribute produces a result of an empty string.

As with the XML interface, client code can request a new, Unique ID using Batch.GenerateDocumentUniqueID2(). This value can then be assigned to the DocumentUniqueID attribute.

It is not possible to generate unique IDs in a workflow agent since the object is not available there.

Note It is up to the client code to obtain and set a valid unique document ID. Setting some other number into this attribute may have unforeseen consequences. Although Kofax Capture is not likely to fail, the back-end may throw an error at release time if there is already a document in the back end with that ID.

Structural Editing Methods

It is possible to perform limited structural editing with this API. If more substantial modifications are required, then it may be better to use the XML interface.

Only the structural updates specified in the referenced methods can be performed to the runtime tree. Attempting any other sort of structural update causes an error.

Warning Affected ACDataElement collection elements are in an undefined state after a structural update and that they must be re-extracted, if it is necessary to re-use such collections.

Example

The following fragment shows some sample Visual Basic code that moves all loose pages in a batch with the note "Put In document" into a new document.

It is included here to help you understand how you might use ACDataElement. It is not intended as an official program, and you use this code at your own risk.

[Sample ACDataElement (Visual Basic)]

```
Set oBatch = '*** Select And Open a batch using existing DELite API's
Dim oRootElement As ACDataElement
Dim oRootSetupElement As ACDataElement
Set oRootElement = oBatch.GetRuntimeDataElement()
Set oRootSetupElement = oBatch.GetSetupDataElement()
Dim oBatchElement As ACDataElement
Set oBatchElement = oRootSetupElement.FindChildElementByName("Batch")
Dim oPagesElement As ACDataElement
Set oPagesElement = oBatchElement.FindChildElementByName("Pages")
Dim oPagesCollection As ACDataElementCollection
Set oPagesCollection = oPagesElement.FindChildElementsByName("Page")
'*** Find all pages that have a special note
Dim oPageElement As ACDataElement
Dim oNewPages As Collection
For Each oPageElement In oPagesCollection
    If oPageElement.Attribute("Note") = "Put In Document" Then
        '*** We found a page - Save a reference to it
        oNewPages.Add oPageElement
    End If
Next
'*** If we found at least one page, Then create a New document And Put the pages into it.
If oNewPages.Count > 0 Then
    Dim oDocumentsElement As ACDataElement
    Set oDocumentsElement = oBatchElement.FindChildElementByName("Documents")
    Dim oNewDocument As Document
    Set oNewDocument = oDocumentsElement.CreateChildElement("Document")
    oNewDocument.Attribute("Note") = "Automatic Pages Added:" & CnvStr(oNewPages.Count)
    For Each oPageElement In oNewPages
        oPageElement.MoveToBack(oNewDocument)
    Next
Next
end
```

See Also














[ACDataElement Members](#)

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Kofax Capture Optimized Custom Module API

ACDataElement Object Members

Public Methods

 AttributeExists	Checks if an attribute exists in the selected attribute list for this element.
 CreateChildElement	Creates a child element of the specified type.
 CreatePageChildElement	This method is functionally equivalent to calling the following sequence of existing calls: <pre>Set oElement = oParentElement.CreatePage("Page") oElement.Attribute("ImageFile") = strPageFileName</pre> Essentially, this call creates a new "Page" element and assigns the file name associated with that page in a single operation. The only difference is in licensing rules.
 Delete	Deletes the current element.
 FindChildElementByAttribute	Extracts a particular child element based on the name of that child element and the value of one of its attributes.
 FindChildElementByName	Extracts a particular child element based on the name of that child element.
 FindChildElementsByAttribute	Extracts a collection of child elements based on the name of that child element and the value of one of its attributes.
 FindChildElementsByName	Extracts a collection of child elements based on the name of the child element.
 FindPartialChildElementsByAttribute	Extracts all child elements based on the name of that child element type and an attribute value. Also, only a sub-list of possible attributes are extracted.
 FindPartialChildElementsByName	Extracts all child elements based on the name of that child element type. Also, only a sub-list of possible attributes are extracted.
 MoveElementBefore	Moves an Element to be immediately before the passed child.
 MoveToBack	Moves an element to be the last child of the parent.
 MoveToFront	Moves an element to be the first child of the parent.

Public Properties

 AttributeNames	Returns a collection of strings corresponding to the valid attribute names for this element type.
 AttributeValue	Retrieve or modify an attribute value.
 ChildElementNames	Returns a collection of strings corresponding to the valid child element type names.
 ElementName	Returns the name of this element type.

See Also

[ACDataElement Overview](#)

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AttributeExists Method

Description

Checks if an attribute exists in the selected attribute list for this element.

Syntax

```
Public Function AttributeExists( _
    ByVal strAttributeName As String _
) As Boolean
```

Parameters

strAttributeName
The attribute name.

Return Type

Boolean

See Also

[ACDataElement Object](#)

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CreateChildElement Method

Description

Creates a child element of the specified type.

Syntax

```
Public Function CreateChildElement( _
    ByVal strElementName As String _
) As ACDataElement
```

Parameters

strElementName
The name of the specified child element type.

Return Type

ACDataElement

Remarks

The type name must match one of the possible child element types defined for the current element or an error is thrown.

The created element type must be one of the following:

Page

The current element must be a "Pages" type whose parent is a "Batch" element type. It is not possible to directly create a document page. To accomplish this, create the page as "loose" and then move it into a document.

Document

The current element must be a "Documents" type whose parent is a "Batch" element type. It is not possible to directly create a document as a child of a folder. To accomplish this, create the document under the batch and then move it into a folder.

Folder

The current element must be a "Folders" type whose parent is a "Batch" element type. It is not possible to directly create a folder as a child of another folder. To accomplish this, create the folder under the batch and then move it into a folder.

TableRow

The current element must be a "TableRows" type.

PageCustomStorageString

The current element must be a "PageCustomStorageStrings" type.

DocumentCustomStorageString

The current element must be a "DocumentCustomStorageStrings" type.

FolderCustomStorageString

The current element must be a "FolderCustomStorageStrings" type.

Failure to meet these constraints causes an error.

This method no longer causes an error if a hint has been used. Hints are deprecated and are now ignored.

See Also

[ACDataElement Object](#)

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CreatePageChildElement Method

Description

This method is functionally equivalent to calling the following sequence of existing calls:

```
Set oElement = oParentElement.CreatePage("Page")
oElement.Attribute("ImageFile") = strPageFileName
```

Essentially, this call creates a new "Page" element and assigns the file name associated with that page in a single operation. The only difference is in licensing rules.

Syntax

```
Public Function CreatePageChildElement( _
    ByVal strPageFileName As String _
) As ACDataElement
```

Parameters*strPageFileName*

The Image or eDocument file to use.

Return Type

ACDataElement

Remarks

When CreatePageChildElement is called, and a PageFileName is passed representing an eDocument (the extension is other than ".tif"), then the system attempts to use an Import eDocument count license (if present and available), instead of a Scanned/Imported page count license.

Note As with the existing CreateChildElement("Page"), the first attempt to create a page requests a Full Station License.

The attribute name "ImageFile" is misleading because it is also used to assign eDocument file names. The naming is for historical reasons and was exposed prior to the existence of eDocuments in Kofax Capture.

See Also[ACDataElement Object](#)

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Delete Method**Description**

Deletes the current element.

Syntax

```
Public Sub Delete()
```

Return Type

Nothing

Remarks

The deleted element type must be one of the following:

- Page
- Document
- PageCustomStorageString
- DocumentCustomStorageString
- TableRow

Failure to meet these constraints causes an error.

This method causes an error if a hint has been used.

See Also[ACDataElement Object](#)

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Kofax Capture Optimized Custom Module API

FindChildElementByAttribute Method**Description**

Extracts a particular child element based on the name of that child element and the value of one of its attributes.

Syntax

```
Public Function FindChildElementByAttribute( _
    ByVal strChildElementName As String, _
    ByVal strAttributeName As String, _
    ByVal strAttributeValue As String _
) As ACDataElement
```

Parameters*strChildElementName*

The name of the child element.

strAttributeName

The attribute name.

strAttributeValue
The attribute value.

Return Type

ACDataElement

Remarks

This method is particularly useful for looking up setup objects by name. For instance, a particular Document element might have the FormTypeName as an attribute.

The client code might then look up the corresponding FormType element by name.

This method can be used to extract a particular child element.

All child extractions work on the immediate children of the current element. No facility is provided for doing "deep extraction" of all elements in a hierarchy meeting a certain criteria.

If such facilities are necessary, the client code may opt to use the XML Interface Instead. Some XML parsers (such as DOM) provide deep extraction methods. Keep in mind that deep extraction (and using XML in general) involves a great deal of additional overhead.

If the parameters specified by this method matches multiple child elements, then only the first is returned. If the function does not find a suitable child element, then it returns the "nothing" object. In this case, an exception is not generated.

There is a slight difference in the way this library handles empty sub-collections as compared to the XML. Assume that a batch has no loose pages. The XML output of this batch does not include a "Pages" node since there are no pages.

However, attempting to retrieve the "Pages" node from this API does yield a "Pages" node. This empty node is necessary in order to be able to support various structural editing capabilities (such as creating and moving pages).

See Also

[ACDataElement Object](#)

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Kofax Capture Optimized Custom Module API

FindChildElementByName Method**Description**

Extracts a particular child element based on the name of that child element.

Syntax

```
Public Function FindChildElementByName ( _
    ByVal strChildElementName As String _
) As ACDataElement
```

Parameters

strChildElementName
The name of the child element.

Return Type

ACDataElement

Remarks

This method can be used to extract a particular child element.

All child extractions work on the immediate children of the current element. No facility is provided for doing "deep extraction" of all elements in a hierarchy meeting a certain criteria.

If such facilities are necessary, the client code may opt to use the XML Interface Instead. Some XML parsers (such as DOM) provide deep extraction methods. Keep in mind that deep extraction (and using XML in general) involves a great deal of additional overhead.

If the parameters specified by this method matches multiple child elements, then only the first is returned. If the function does not find a suitable child element, then it returns the "nothing" object. In this case, an exception is not generated.

There is a slight difference in the way this library handles empty sub-collections as compared to the XML. Assume that a batch has no loose pages. The XML output of this batch does not include a "Pages" node since there are no pages.

However, attempting to retrieve the "Pages" node from this API does yield a "Pages" node. This empty node is necessary in order to be able to support various structural editing capabilities (such as creating and moving pages).

See Also

[ACDataElement Object](#)

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Kofax Capture Optimized Custom Module API

FindChildElementsByAttribute Method

Description

Extracts a collection of child elements based on the name of that child element and the value of one of its attributes.

Syntax

```
Public Function FindChildElementsByAttribute( _
    ByVal strChildElementName As String, _
    ByVal strAttributeName As String, _
    ByVal strAttributeValue As String _
) As ACDataElementCollection
```

Parameters

strChildElementName
The name of the child element.

strAttributeName
The attribute name.

strAttributeValue
The attribute value.

Return Type

ACDataElementCollection

See Also

[ACDataElement Object](#)

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Kofax Capture Optimized Custom Module API

FindChildElementsByName Method**Description**

Extracts a collection of child elements based on the name of the child element.

Syntax

```
Public Function FindChildElementsByName( _
    ByVal strChildElementName As String _
) As ACDataElementCollection
```

Parameters

strChildElementName
The name of the child element.

Return Type

ACDataElementCollection

See Also

[ACDataElement Object](#)

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Kofax Capture Optimized Custom Module API

FindPartialChildElementsByAttribute Method**Description**

Extracts all child elements based on the name of that child element type and an attribute value. Also, only a sub-list of possible attributes are extracted.

Syntax

```
Public Function FindPartialChildElementsByAttribute( _
    ByRef oAttributeList As ACDataElementAttributeColl, _
    ByVal strChildElementName As String, _
    ByVal strAttributeName As String, _
    ByVal strAttributeValue As String _
) As ACDataElementCollection
```

Parameters

oAttributeList
A collection of selected attribute names.

strChildElementName

The name of the child element.

strAttributeName

The attribute name.

strAttributeValue

The attribute value.

Return Type

ACDataElementCollection

Remarks

When extracting collections, it may sometimes be optimal to extract only some of the attributes of a sub-element list. For example, to determine if there are any rejected loose pages, it may only be necessary to extract the "Rejected" attribute of those pages.

Attribute sub-lists impose some extra overhead that actually slows down query generation. The benefits of the optimization are only felt when many sub-elements are extracted. Therefore, it is better to use attribute sub-lists only when processing large collections of elements (a hundred or more) where only one or two attributes are needed.

See Also

[ACDataElement Object](#)

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Kofax Capture Optimized Custom Module API

FindPartialChildElementsByName Method

Description

Extracts all child elements based on the name of that child element type. Also, only a sub-list of possible attributes are extracted.

Syntax

```
Public Function FindPartialChildElementsByName( _
    ByRef oAttributeList As ACDataElementAttributeColl, _
    ByVal strChildElementName As String _
) As ACDataElementCollection
```

Parameters

oAttributeList

A collection of selected attribute names.

strChildElementName

The name of the child element.

Return Type

ACDataElementCollection

Remarks

When extracting collections, it may sometimes be optimal to extract only some of the attributes of a sub-element list. For example, to determine if there are any rejected loose pages, it may only be necessary to extract the "Rejected" attribute of those pages.

Attribute sub-lists impose some extra overhead that actually slows down query generation. The benefits of the optimization are only felt when many sub-elements are extracted. Therefore, it is better to use attribute sub-lists only when processing large collections of elements (a hundred or more) where only one or two attributes are needed.

See Also

[ACDataElement Object](#)

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Kofax Capture Optimized Custom Module API

MoveElementBefore Method

Description

Moves an Element to be immediately before the passed child.

Syntax

```
Public Sub MoveElementBefore( _
    ByRef oAfterSib As ACDataElement _
)
```

Parameters

oAfterSib

The child object.

Return Type

Nothing

Remarks

The following rules are allowed:

- Move a Page element before another Page element
- Move a Document element before another Document element
- Move a Folder element before another Folder element

Failure to meet these constraints causes an error.

See Also

[ACDataElement Object](#)

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Kofax Capture Optimized Custom Module API

MoveToBack Method**Description**

Moves an element to be the last child of the parent.

Syntax

```
Public Sub MoveToBack ( _  
    ByRef oParent As ACDataElement _  
)
```

Parameters

oParent

The parent object.

Return Type

Nothing

Remarks

The following rules are allowed:

- If the current element is a Page element, then the oParent element must be a Pages element whose parent is either a Document or a Batch element.
- If the current element is a Document element, then the oParent element must be a Documents element whose parent is either a Folder or a Batch element.
- If the current element is a Folder element, then the oParent element must be a Folders element whose parent is either a Folder or a Batch element.

Failure to meet these constraints causes an error.

See Also

[ACDataElement Object](#)

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Kofax Capture Optimized Custom Module API

MoveToFront Method**Description**

Moves an element to be the first child of the parent.

Syntax

```
Public Sub MoveToFront ( _  
    ByRef oParent As ACDataElement _  
)
```

Parameters

oParent

The parent object.

Return Type

Nothing

Remarks

The following rules are allowed:

- If the current element is a Page element, then the oParent element must be a Pages element whose parent is either a Document or a Batch element.
- If the current element is a Document element, then the oParent element must be a Documents element whose parent is either a Folder or a Batch element.
- If the current element is a Folder element, then the oParent element must be a Folders element whose parent is either a Folder or a Batch element.

See Also

[ACDataElement Object](#)

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Kofax Capture Optimized Custom Module API

AttributeNames Property

Description

Returns a collection of strings corresponding to the valid attribute names for this element type.

Property type

Read-only property

Syntax (Visual Basic)

```
Public Property AttributeNames() As Collection
```

Return Type

Collection

Remarks

This property returns standard Visual Basic collections of strings.

Normally, Visual Basic collections include objects rather than strings, so you may or may not be used to handling string collections. When iterating over a string collection (using the "for..each" syntax), it is necessary to use a Variant instead of an "object" or "string" type as the iteration variable.

Example

For example, to display the list of attribute names for a particular element, you might use the following code snippet:

```
[[New Example] (Visual Basic)
Dim oElement As ACDataElement
Set oElement = '"" Get an ACDataElement
Dim vName As Variant '"" Note how variant is used, not object or string
For Each vName In oElement.AttributeNames
MsgBox CStr( vName )
Next
```

See Also

[ACDataElement Object](#)

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Kofax Capture Optimized Custom Module API

AttributeValue Property

Description

Retrieve or modify an attribute value.

Property type

Read-write property

Syntax (Visual Basic)

```
Public Property AttributeValue( _
    ByVal strAttributeName As String _
) As String
```

Parameters

strAttributeName
The attribute name to retrieve or modify.

Return Type

String

See Also[ACDataElement Object](#)

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Kofax Capture Optimized Custom Module API

ChildElementNames Property**Description**

Returns a collection of strings corresponding to the valid child element type names.

Property type

Read-only property

Syntax (Visual Basic)

```
Public Property ChildElementNames() As Collection
```

Return Type

Collection

Remarks

This property returns standard Visual Basic collections of strings.

Normally, Visual Basic collections include objects rather than strings, so you may or may not be used to handling string collections. When iterating over a string collection (using the "for..each" syntax), it is necessary to use a Variant instead of an "object" or "string" type as the iteration variable.

Example

For example, to display the list of attribute names for a particular element, you might use the following code snippet:

[[New Example] (Visual Basic)]

```
Dim oElement As ACDataElement
Set oElement = '** Get an ACDataElement
Dim vName As Variant '*** Note how variant is used, not object or string
For Each vName In oElement.AttributeNames
MsgBox CStr( vName )
Next
```

See Also[ACDataElement Object](#)

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Kofax Capture Optimized Custom Module API

ElementName Property**Description**

Returns the name of this element type.

Property type

Read-only property

Syntax (Visual Basic)

```
Public Property ElementName() As String
```

Return Type

String

See Also[ACDataElement Object](#)

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Kofax Capture Optimized Custom Module API

ACDataElementAttributeColl Collection**Description**

This is a class allowing specification of attribute sub-lists; refer to [FindPartialChildElementsByName](#) and [FindPartialChildElementsByAttribute](#).

For a list of all members defined in this module, see [ACDataElementAttributeColl members](#).

See Also

[ACDataElementAttributeColl Members](#)

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Kofax Capture Optimized Custom Module API

ACDataElementAttributeColl Collection Members**Public Methods**

◆ Add	Adds the attribute to the collection.
◆ Count	The number of attributes in the collection.
◆ Item	Returns an attribute based on its 1-based numeric index, or by name.
◆ Remove	Removes an attribute from the collection, based on its 1-based numeric index, or by name.

See Also

[ACDataElementAttributeColl Overview](#)

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Kofax Capture Optimized Custom Module API

Add Method**Description**

Adds the attribute to the collection.

Syntax

```
Public Sub Add( _
    ByRef strItem As String _
)
```

Parameters

strItem
The attribute to add.

Return Type

String

See Also

[ACDataElementAttributeColl Collection](#)

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Kofax Capture Optimized Custom Module API

Count Method**Description**

The number of attributes in the collection.

Syntax

```
Public Function Count() As Long
```

Return Type

Long

See Also

[ACDataElementAttributeColl Collection](#)

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Kofax Capture Optimized Custom Module API

Item Method

Description

Returns an attribute based on its 1-based numeric index, or by name.

Syntax

```
Public Function Item( _
    ByRef vIndex As Variant _
) As Variant
```

Parameters

vIndex
The index of the item to be retrieved.

Return Type

Variant

See Also

[ACDataElementAttributeColl Collection](#)

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Kofax Capture Optimized Custom Module API

Remove Method

Description

Removes an attribute from the collection, based on its 1-based numeric index, or by name.

Syntax

```
Public Sub Remove( _
    ByRef vIndex As Variant _
)
```

Parameters

vIndex
The key or value of the attribute to remove.

Return Type

Variant

See Also

[ACDataElementAttributeColl Collection](#)

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Kofax Capture Optimized Custom Module API

ACDataElementCollection Collection

Description

This is a class representing a collection of ACDataElements.

For a list of all members defined in this module, see [ACDataElementCollection members](#).

Object Model

ACDataElementCollection **ACDataElement**

See Also



[ACDataElementCollection Members](#)

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Kofax Capture Optimized Custom Module API

ACDataElementCollection Collection Members

Public Properties

 Count	Returns the number of elements in the collection.
 Item	Returns a collection item based on its 1-based numeric index.

See Also[ACDataElementCollection Overview](#)

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 *Kofax Capture Optimized Custom Module API***Count Property**

Description

Returns the number of elements in the collection.

Property type

Read-only property

Syntax (Visual Basic)

```
Public Property Count() As Long
```

Return Type

Long

See Also[ACDataElementCollection Collection](#)

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 *Kofax Capture Optimized Custom Module API***Item Property**

Description

Returns a collection item based on its 1-based numeric index.

Property type

Read-only property

Syntax (Visual Basic)

```
Public Property Item( _  
    ByVal Index As Long _  
) As ACDataElement
```

Parameters*Index*

The index of the item to be retrieved.

Return Type

ACDataElement

Remarks

There is no support for looking up a sub-element by a key value.

To extract a sub-element by key value, use the method "FindChildElementByAttribute" on the collection parent.

See Also[ACDataElementCollection Collection](#)

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