

## Controls

The *Controls* collection describes instances of all **controls** present either

tags:

**Collections**

- in an open **form**
- in a **subform** of an open form or of another subform
- in a started **dialog**
- in a **GridControl** part of an open form or one of its subforms
- or in an **OptionGroup** (i.e. a set of **radio buttons**)

The *Controls* collection may also refer (as a synonym) to the collection of **CommandBarControl** objects of a **CommandBar**. To know more about this option, read the page about the **CommandBarControls** collection.

### Syntax

*form*.Controls

*form*.Controls(*index*)

*form*.Controls(*controlname*)

*subform*.Controls

*subform*.Controls(*index*)

*subform*.Controls(*controlname*)

*dialog*.Controls

*dialog*.Controls(*index*)

*dialog*.Controls(*controlname*)

*gridcontrol*.Controls

*gridcontrol*.Controls(*index*)

*gridcontrol*.Controls(*controlname*)

*optiongroup*.Controls

*optiongroup*.Controls(*index*)

Object	Type	Argument	Type	Returned value
form	<b>Form object</b>		absent	A <b>Collection</b> of the controls of the form
		index	integer long	A <b>control object</b>
		controlname	string	
subform	<b>Subform object</b>		absent	A <b>Collection</b> of the controls of the subform
		index	integer long	A <b>control object</b>
		controlname	string	
dialog	<b>Dialog object</b>		absent	A <b>Collection</b> of the controls of the dialog
		index	integer long	A <b>control object</b>
		controlname	string	
gridcontrol	<b>Gridcontrol object</b>		absent	A <b>Collection</b> of the controls of the gridcontrol
		index	integer long	A <b>control object</b>
		controlname	string	

optiongroup	Optiongroup object		absent	A <b>Collection</b> of the controls of the optiongroup
		index	integer long	A <b>control object</b> of <b>SubType = RadioButton</b> .

## Remarks

- Control **collections** are numbered from 0 to `Controls(...).Count - 1`
- The *controlname* argument is not case sensitive.
- A form must be opened, either manually by the user or **programmatically** to give access to its controls.
- A dialog must be **started** to give access to its controls.
- The *index* of an **OptionGroup** is determined by its position (X-Y coordinates) on the screen: 1) top to bottom 2) left to right.

## Error messages

Argument nr. ... [Value = '...'] is invalid
Out of array range or incorrect array size for collection Controls()
Form '...' is currently not open
Dialog '...' not active
Control '...' not found in parent (form, grid or dialog) '...'

## Examples

To identify the last control of an open form

```
Dim ofForm As Object, iCount As Integer
Set ofForm = Forms("myForm")
iCount = ofForm.Controls.Count
MsgBox "The form " & ofForm.Name & " has " & iCount & " controls." _
    & "The last one is " & ofForm.Controls(iCount - 1).Name
```

To know the controls present in a gridcontrol (datagrid)

```
Dim ocGrid As Object, i As Integer, iCountGrid As Integer
Set ocGrid = Forms("myForm").Controls("myGridControl")
iCountGrid = ocGrid.Controls.Count
For i = 0 To iCountGrid - 1
    Print ocGrid.Controls(i).Name
Next i
Print
```

To know the number of controls in a dialog

```
Dim oDialog As Object, iCount As Integer
Set oDialog = Dialogs("myDialog")
oDialog.Start
iCount = oDialog.Controls.Count
oDialog.Terminate
MsgBox "Number of controls in " & oDialog.Name & " = " & iCount
```

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