

MBS REALbasic WinDragDrop Plugin Documentation

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0.1 Introduction

This is the PDF version of the documentation for the REALbasic Plug-in from Monkeybread Software Germany. Plugin part: MBS REALbasic WinDragDrop Plugin

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Chapter 1

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Chapter 2

Drag & Drop

2.1 class WindowsDragSourceMBS

class WindowsDragSourceMBS

class, Drag & Drop, MBS REALbasic WinDragDrop Plugin (WinDragDrop), Plugin version: 10.5, console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: The class for Drag and Drop on Windows to create a drag source.

Notes:

The WindowsDragSourceMBS class is one of the class you implement to provide drag-and-drop operations in your application. It contains methods used in any application used as a data source in a drag-and-drop operation. The data source application in a drag-and-drop operation is responsible for:

* Determining the data being dragged based on the user's selection.

Initiating the drag-and-drop operation based on the user's mouse actions.

Generating some of the visual feedback during the drag-and-drop operation, such as setting the cursor and highlighting the data selected for the drag-and-drop operation.

Canceling or completing the drag-and-drop operation based on the user's mouse actions.

Performing any action on the original data caused by the drop operation, such as deleting the data on a drag move.

WindowsDragSourceMBS contains the events for generating visual feedback to the end user and for canceling or completing the drag-and-drop operation.

When To Implement

Implement `WindowsDragSourceMBS` if you are developing a container or server application that can act as a data source for a drag-and-drop operation. The `WindowsDragSourceMBS` interface is only required during the drag-and-drop operation.

If you implement the `WindowsDragSourceMBS` class, you must also implement the `DataObjectMBS` class on the same object to represent the data being transferred.

You can use the same implementation of `DataObjectMBS` for drag-and-drop data as for the data object offered to the clipboard. After you have implemented clipboard operations in your application, you can add drag-and-drop operations with only a little extra work.

When To Use

You do not usually call the `WindowsDragSourceMBS` methods directly. Instead, your data source calls the `DoDragDrop` function when it detects that the user has initiated a drag-and-drop operation. Then, `DoDragDrop` calls the `WindowsDragSourceMBS` methods during the drag-and-drop operation.

For example, `DoDragDrop` calls `WindowsDragSourceMBS.GiveFeedback` when you need to change the cursor shape or when you need to provide some other visual feedback. `DoDragDrop` calls `WindowsDragSourceMBS.QueryContinueDrag` when there is a change in the mouse button state to determine if the drag-and-drop operation was canceled or completed.

2.1.1 Methods

DoDragDrop(dataObject as WinDataObjectMBS, OKEffect as integer, byref Effect as integer) as integer

method from class `WindowsDragSourceMBS`, Drag & Drop, MBS REALbasic WinDragDrop Plugin (WinDragDrop), Plugin version: 10.5, console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: Carries out an OLE drag and drop operation.

Notes:

Parameters:

`dataObject`: The `WinDataObjectMBS` data object that contains the data being dragged.

`OKEffects`: Effects the source allows in the OLE drag-and-drop operation. Most significant is whether it permits a move. The `OKEffect` and `Effect` parameters obtain values from the `DROPEFFECT*` constants.

`Effect`: Pointer to a value that indicates how the OLE drag-and-drop operation affected the source data. The `pdwEffect` parameter is set only if the operation is not canceled.

This function returns `S_ OK` on success. Other possible values include the following.

| Return code | Description |
|----------------------------------|---|
| <code>DRAGDROP_ S_ DROP</code> | The OLE drag-and-drop operation was successful. |
| <code>DRAGDROP_ S_ CANCEL</code> | The OLE drag-and-drop operation was canceled. |
| <code>E_ UNSPEC</code> | Unexpected error occurred. |

Remarks

If you are developing an application that can act as a data source for an OLE drag-and-drop operation, you must call `DoDragDrop` when you detect that the user has started an OLE drag-and-drop operation.

The `DoDragDrop` function enters a loop in which it calls various methods in the `WindowsDragSourceMBS` and `WindowsDropTargetMBS` interfaces. (For a successful drag-and-drop operation, the application acting as the data source must also implement `WindowsDragSourceMBS`, while the target application must implement `WindowsDropTargetMBS`.)

The `DoDragDrop` function determines the window under the current cursor location. It then checks to see if this window is a valid drop target.

If the window is a valid drop target, `DoDragDrop` calls `WindowsDropTargetMBS.DragEnter`. This method supplies an effect code indicating what would happen if the drop actually occurred. For a list of valid drop effects, see the `DROPEFFECT*` constants.

`DoDragDrop` calls `WindowsDragSourceMBS.GiveFeedback` with the effect code so that the drop source interface can provide appropriate visual feedback to the user.

DoDragDrop tracks mouse cursor movements and changes in the keyboard or mouse button state.

If the user moves out of a window, DoDragDrop calls `WindowsDropTargetMBS.DragLeave`.

If the mouse enters another window, DoDragDrop determines if that window is a valid drop target and then calls `WindowsDropTargetMBS.DragEnter` for that window.

If the mouse moves but stays within the same window, DoDragDrop calls `WindowsDropTargetMBS.DragOver`.

If there is a change in the keyboard or mouse button state, DoDragDrop calls `WindowsDragSourceMBS.QueryContinueDrag` and determines whether to continue the drag, to drop the data, or to cancel the operation based on the return value.

If the return value is `S_OK`, DoDragDrop first calls `WindowsDropTargetMBS.DragOver` to continue the operation. This method returns a new effect value and DoDragDrop then calls `WindowsDragSourceMBS.GiveFeedback` with the new effect so appropriate visual feedback can be set. For a list of valid drop effects, see the `DROP-EFFECT` constants. `WindowsDropTargetMBS.DragOver` and `WindowsDragSourceMBS.GiveFeedback` are paired so that as the mouse moves across the drop target, the user is given the most up-to-date feedback on the mouse's position.

If the return value is `DRAGDROP_S_DROP`, DoDragDrop calls `WindowsDropTargetMBS.Drop`. The DoDragDrop function returns the last effect code to the source, so the source application can perform the appropriate operation on the source data, for example, cut the data if the operation was a move.

If the return value is `DRAGDROP_S_CANCEL`, the DoDragDrop function calls `WindowsDropTargetMBS.DragLeave`.

PrintClasses

shared method from class `WindowsDragSourceMBS`, Drag & Drop, MBS REALbasic WinDragDrop Plugin (WinDragDrop), Plugin version: 10.5, console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: Writes the declarations of the plugin classes to the console.

Notes: Call in console applications.

2.1.2 Properties

Handle as Integer

property from class WindowsDragSourceMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (WinDragDrop), Plugin version: 10.5, console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: The internal handle.

Notes: (Read and Write property)

2.1.3 Events

GiveFeedback(Effect as integer) as integer

event from class WindowsDragSourceMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (WinDragDrop), Plugin version: 10.5, not console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: Enables a source application to give visual feedback to the end user during a drag-and-drop operation by providing the DoDragDrop function with an enumeration value specifying the visual effect.

Notes:

Effect: The drop effect value returned by the most recent call to WindowsDropTargetMBS.DragEnter, WindowsDropTargetMBS.DragOver, or WindowsDropTargetMBS.DragLeave.

Return S_OK on success. Return DRAGDROP_S_USEDEFAULTCURSORS to indicate successful completion of the method, and requests OLE to update the cursor using the OLE-provided default cursors.

When your application detects that the user has started a drag-and-drop operation, it should call the DoDragDrop function. DoDragDrop enters a loop, calling WindowsDropTargetMBS.DragEnter when the mouse first enters a drop target window, WindowsDropTargetMBS.DragOver when the mouse changes its position within the target window, and WindowsDropTargetMBS.DragLeave when the mouse leaves the target window.

For every call to either WindowsDropTargetMBS.DragEnter or WindowsDropTargetMBS.DragOver, DoDragDrop calls WindowsDropTargetMBS.GiveFeedback, passing it the drop effect value returned from the drop target call.

DoDragDrop calls `WindowsDropTargetMBS.DragLeave` when the mouse has left the target window. Then, DoDragDrop calls `WindowsDropTargetMBS.GiveFeedback` and passes the `DROPEFFECT_NONE` value in the `dwEffect` parameter.

The `Effect` parameter can include `DROPEFFECT_SCROLL`, indicating that the source should put up the drag-scrolling variation of the appropriate pointer.

Notes to Implementers

This function is called frequently during the DoDragDrop loop, so you can gain performance advantages if you optimize your implementation as much as possible.

`GiveFeedback` is responsible for changing the cursor shape or for changing the highlighted source based on the value of the `dwEffect` parameter. If you are using default cursors, you can return `DRAGDROP_USEDEFAULTCURSORS`, which causes OLE to update the cursor for you, using its defaults.

QueryContinueDrag(EscapePressed as boolean, KeyState as integer) as integer

event from class `WindowsDragSourceMBS`, Drag & Drop, MBS REALbasic WinDragDrop Plugin (Win-DragDrop), Plugin version: 10.5, not console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: Determines whether a drag-and-drop operation should be continued, canceled, or completed. You do not call this method directly.

Notes:

The OLE DoDragDrop function calls this method during a drag-and-drop operation.

`EscapePressed`: Indicates whether the Esc key has been pressed since the previous call to `QueryContinueDrag` or to `DoDragDrop` if this is the first call to `QueryContinueDrag`. A true value indicates the end user has pressed the escape key; a false value indicates it has not been pressed.

`KeyState`: The current state of the keyboard modifier keys on the keyboard. Possible values can be a combination of any of the flags `MK_CONTROL`, `MK_SHIFT`, `MK_ALT`, `MK_BUTTON`, `MK_LBUTTON`, `MK_MBUTTON`, and `MK_RBUTTON`.

This event can return the following values.

| Return code | Description |
|---------------------|---|
| S_ OK | The drag operation should continue. This result occurs if no errors are detected, the mouse button starting the drag-and-drop operation has not been released, and the Esc key has not been detected. |
| DRAGDROP_ S_ DROP | The drop operation should occur completing the drag operation. This result occurs if KeyState indicates that the key that started the drag-and-drop operation has been released. |
| DRAGDROP_ S_ CANCEL | The drag operation should be canceled with no drop operation occurring. This result occurs if EscapePressed is true, indicating the Esc key has been pressed. |

The DoDragDrop function calls QueryContinueDrag whenever it detects a change in the keyboard or mouse button state during a drag-and-drop operation. QueryContinueDrag must determine whether the drag-and-drop operation should be continued, canceled, or completed based on the contents of the parameters KeyState and EscapePressed.

2.1.4 Constants

DRAGDROP_ S_ CANCEL = & H00040101

const from class WindowsDragSourceMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (Win-DragDrop), Plugin version: 10.5, not console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: One of the OLE error codes.

Notes: Drag and Drop was cancelled.

DRAGDROP_ S_ DROP = & h00040100

const from class WindowsDragSourceMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (Win-DragDrop), Plugin version: 10.5, not console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: One of the OLE error codes.

Notes: Do the drop operation.

DRAGDROP_S_USEDEFAULTCURSORS = & h00040102

const from class WindowsDragSourceMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (WinDragDrop), Plugin version: 10.5, not console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: One of the OLE error codes.

DROPEFFECT_COPY = 1

const from class WindowsDragSourceMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (WinDragDrop), Plugin version: 10.5, not console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: One of the drop effect constants.

Notes:

Drop results in a copy. The original data is untouched by the drag source.

Your application should always mask drop effect constants to ensure compatibility with future implementations. Presently, only some of the bit positions in a drop effect value have meaning. In the future, more interpretations for the bits will be added. Drag sources and drop targets should carefully mask these values appropriately before comparing. They should never compare a drop effect value against, say, DROPEFFECT_COPY by doing the following:

```
if DropEffect = DROPEFFECT_COPY then
```

Instead, the application should always mask for the value or values being sought as using one of the following techniques:

```
if bitwiseAnd(DropEffect, DROPEFFECT_COPY) = DROPEFFECT_COPY then
```

This allows for the definition of new drop effects, while preserving backwards compatibility with existing code.

DROPEFFECT_LINK = 4

const from class WindowsDragSourceMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (Win-DragDrop), Plugin version: 10.5, not console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: One of the drop effect constants.

Notes: Drag source should create a link to the original data.

DROPEFFECT_MOVE = 2

const from class WindowsDragSourceMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (Win-DragDrop), Plugin version: 10.5, not console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: One of the drop effect constants.

Notes: Drag source should remove the data.

DROPEFFECT_NONE = 0

const from class WindowsDragSourceMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (Win-DragDrop), Plugin version: 10.5, not console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: One of the drop effect constants.

Notes: Drop target cannot accept the data.

DROPEFFECT_SCROLL = & h80000000

const from class WindowsDragSourceMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (Win-DragDrop), Plugin version: 10.5, not console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: One of the drop effect constants.

Notes: Scrolling is about to start or is currently occurring in the target. This value is used in addition to the other values.

MK_CONTROL = 8

const from class WindowsDragSourceMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (Win-DragDrop), Plugin version: 10.5, not console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: One of the key state constants.

Notes: The CTRL key is down.

MK_LBUTTON = 1

const from class WindowsDragSourceMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (Win-DragDrop), Plugin version: 10.5, not console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: One of the key state constants.

Notes: The left mouse button is down.

MK_MBUTTON = & h10

const from class WindowsDragSourceMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (Win-DragDrop), Plugin version: 10.5, not console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: One of the key state constants.

Notes: The middle mouse button is down.

MK_RBUTTON = 2

const from class WindowsDragSourceMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (Win-DragDrop), Plugin version: 10.5, not console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: One of the key state constants.

Notes: The right mouse button is down.

MK_ SHIFT = 4

const from class WindowsDragSourceMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (Win-DragDrop), Plugin version: 10.5, not console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: One of the key state constants.

Notes: The SHIFT key is down.

MK_ XBUTTON1 = & h20

const from class WindowsDragSourceMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (Win-DragDrop), Plugin version: 10.5, not console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: One of the key state constants.

Notes: The first X button is down.

MK_ XBUTTON2 = & h40

const from class WindowsDragSourceMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (Win-DragDrop), Plugin version: 10.5, not console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: One of the key state constants.

Notes: The second X button is down.

S_ FALSE = 1

const from class WindowsDragSourceMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (Win-DragDrop), Plugin version: 10.5, not console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: One of the OLE error codes.

S_ OK = 0

const from class WindowsDragSourceMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (WinDragDrop), Plugin version: 10.5, not console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: One of the OLE error codes.

2.2 class WinDataObjectMBS

class WinDataObjectMBS

class, Drag & Drop, MBS REALbasic WinDragDrop Plugin (WinDragDrop), Plugin version: 10.5, console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: Not yet documented.

2.2.1 Methods

AddDragImage(pic as picture, width as integer, height as integer, x as integer, y as integer)

method from class WinDataObjectMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (WinDragDrop), Plugin version: 11.0, not console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: Adds a drag image to the data object.

Notes:

pic: the picture to use.

width and height: The size of the picture.

x and y: The location of the cursor within the drag image. The point should contain the offset from the upper-left corner of the drag image to the location of the cursor.

Requires Windows 2000 Professional with SP3, Windows XP.

On success the HelperHandle property is not zero.

Turn off antialiasing when drawing text. Otherwise, artifacts could occur at the edges, between the text color and the color key.

This function takes the picture (and its mask) and turns it in a nice drag picture. This includes applying the mask and passing black for the background color. Dark colors which should be transparent will be made lighter.

See also:

- 2.2.1 AddDragImage(pic as picture, width as integer, height as integer, x as integer, y as integer, ImageBackgroundColor as color) 19

AddDragImage(pic as picture, width as integer, height as integer, x as integer, y as integer, ImageBackgroundColor as color)

method from class WinDataObjectMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (WinDragDrop), Plugin version: 10.5, not console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: Adds a drag image to the data object.

Notes:

pic: the picture to use.

width and height: The size of the picture.

x and y: The location of the cursor within the drag image. The point should contain the offset from the upper-left corner of the drag image to the location of the cursor.

ImageBackgroundColor: The color used by the control to fill the background of the drag image.

Requires Windows 2000 Professional with SP3, Windows XP.

On success the HelperHandle property is not zero.

Turn off antialiasing when drawing text. Otherwise, artifacts could occur at the edges, between the text color and the color key.

See also:

- 2.2.1 AddDragImage(pic as picture, width as integer, height as integer, x as integer, y as integer) 18

AddFiles(files() as folderitem)

method from class WinDataObjectMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (WinDragDrop), Plugin version: 10.5, console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: Adds file references in the format the explorer can understand them.
See also:

- 2.2.1 AddFiles(pathes() as string) 20

AddFiles(pathes() as string)

method from class WinDataObjectMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (WinDragDrop), Plugin version: 11.0, console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: Adds file pathes in the format the explorer can understand them.
Notes: Folder pathes should have no backslash on the end.
See also:

- 2.2.1 AddFiles(files() as folderitem) 20

AddPicture(pic as picture)

method from class WinDataObjectMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (WinDragDrop), Plugin version: 10.5, not console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: Adds a picture to the data object.

AddRaw(format as integer, data as string)

method from class WinDataObjectMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (WinDragDrop), Plugin version: 10.5, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Adds raw data to the data object.
Notes: Depending of the format you may need to add chr(0) on the end.

AddText(text as string)

method from class WinDataObjectMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (WinDragDrop), Plugin version: 10.5, console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: Adds the text to the data object.

Constructor

method from class WinDataObjectMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (WinDragDrop), Plugin version: 10.5, console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: Creates an empty data object.

See also:

- 2.2.1 Constructor(files() as folderitem) 21
- 2.2.1 Constructor(pic as picture) 22
- 2.2.1 Constructor(text as string) 22

Constructor(files() as folderitem)

method from class WinDataObjectMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (WinDragDrop), Plugin version: 10.5, console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: Creates a data object and adds the files.

See also:

- 2.2.1 Constructor 21
- 2.2.1 Constructor(pic as picture) 22
- 2.2.1 Constructor(text as string) 22

Constructor(pic as picture)

method from class WinDataObjectMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (WinDragDrop), Plugin version: 10.5, not console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: Creates a new data object and adds the given picture.
See also:

- 2.2.1 Constructor 21
- 2.2.1 Constructor(files() as folderitem) 21
- 2.2.1 Constructor(text as string) 22

Constructor(text as string)

method from class WinDataObjectMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (WinDragDrop), Plugin version: 10.5, console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: Creates a new data object and adds the given text.
See also:

- 2.2.1 Constructor 21
- 2.2.1 Constructor(files() as folderitem) 21
- 2.2.1 Constructor(pic as picture) 22

GetPaths as folderitem()

method from class WinDataObjectMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (WinDragDrop), Plugin version: 10.5, console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: Queries the paths in the data object.

Notes: Checks for a CF_HDROP type. May return one or more folderitems.

GetPathStrings as string()

method from class WinDataObjectMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (WinDragDrop), Plugin version: 11.0, console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: Queries the paths in the data object.

Notes: Checks for a CF_HDROP type. May return one or more folderitems.

GetPicture as picture

method from class WinDataObjectMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (WinDragDrop), Plugin version: 10.5, not console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: Queries the picture from the data object.

Notes: Supports CF_BITMAP/TYMED_GDI.

GetRaw(format as integer) as string

method from class WinDataObjectMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (WinDragDrop), Plugin version: 10.5, console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: Queries the raw data for the given type.

GetText as string

method from class WinDataObjectMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (WinDragDrop), Plugin version: 10.5, console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: Queries the text from the data object.

Notes: Returns unicode or ANSI text depending on what is available. Unicode is preferred.

HasPaths as boolean

method from class WinDataObjectMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (WinDragDrop), Plugin version: 10.5, console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: Checks whether this data object contains file paths.

Notes:

Returns true if a path is found.

Checks for CF_HDROP.

HasPicture as boolean

method from class WinDataObjectMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (WinDragDrop), Plugin version: 10.5, console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: Checks if a picture is part of this data object.

Notes:

Returns true if a picture is found.

Checks for CF_BITMAP.

HasRaw(format as integer) as boolean

method from class WinDataObjectMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (WinDragDrop), Plugin version: 10.5, console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: Checks whether this data object contains data in the given format.

HasText as boolean

method from class WinDataObjectMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (WinDragDrop), Plugin version: 10.5, console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: Checks whether this data object contains Text or UnicodeText.

Notes:

Returns true if text is found.

Checks for CF_UNICODETEXT and CF_TEXT.

2.2.2 Properties

Handle as Integer

property from class WinDataObjectMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (WinDragDrop), Plugin version: 10.5, console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: The internal handle.

Notes: (Read and Write property)

HelperHandle as Integer

property from class WinDataObjectMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (WinDragDrop), Plugin version: 10.5, console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: The internal helper object to handle the drag image.

Notes:

This value is not zero if the AddDragImage call was successful.

(Read and Write property)

2.2.3 Constants

CF_BITMAP = 2

const from class WinDataObjectMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (WinDragDrop), Plugin version: 10.5, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the constants for the data types.

CF_DIB = 8

const from class WinDataObjectMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (WinDragDrop), Plugin version: 10.5, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the constants for the data types.

CF_DIBV5 = 17

const from class WinDataObjectMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (WinDragDrop), Plugin version: 10.5, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the constants for the data types.

CF_DIF = 5

const from class WinDataObjectMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (WinDragDrop), Plugin version: 10.5, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the constants for the data types.

CF_ENHMETAFILE = 14

const from class WinDataObjectMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (WinDragDrop), Plugin version: 10.5, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the constants for the data types.

CF_HDROP = 15

const from class WinDataObjectMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (WinDragDrop), Plugin version: 10.5, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the constants for the data types.

CF_LOCALE = 16

const from class WinDataObjectMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (WinDragDrop), Plugin version: 10.5, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the constants for the data types.

CF_METAFILEPICT = 3

const from class WinDataObjectMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (WinDragDrop), Plugin version: 10.5, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the constants for the data types.

CF_OEMTEXT = 7

const from class WinDataObjectMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (WinDragDrop), Plugin version: 10.5, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the constants for the data types.

CF_PALETTE = 9

const from class WinDataObjectMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (WinDragDrop), Plugin version: 10.5, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the constants for the data types.

CF_PENDATA = 10

const from class WinDataObjectMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (WinDragDrop), Plugin version: 10.5, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the constants for the data types.

CF_RIFF = 11

const from class WinDataObjectMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (WinDragDrop), Plugin version: 10.5, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the constants for the data types.

CF_SYLK = 4

const from class WinDataObjectMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (WinDragDrop), Plugin version: 10.5, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the constants for the data types.

CF_TEXT = 1

const from class WinDataObjectMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (WinDragDrop), Plugin version: 10.5, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the constants for the data types.

CF_TIFF = 6

const from class WinDataObjectMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (WinDragDrop), Plugin version: 10.5, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the constants for the data types.

CF_UNICODETEXT = 13

const from class WinDataObjectMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (WinDragDrop), Plugin version: 10.5, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the constants for the data types.

CF_WAVE = 12

const from class WinDataObjectMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (WinDragDrop), Plugin version: 10.5, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the constants for the data types.

2.3 class WindowsDropTargetMBS

class WindowsDropTargetMBS

class, Drag & Drop, MBS REALbasic WinDragDrop Plugin (WinDragDrop), Plugin version: 10.5, console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: The WindowsDropTargetMBS interface is one of the interfaces you implement to provide drag-and-drop operations in your application.

Notes:

It contains methods used in any application that can be a target for data during a drag-and-drop operation. A drop-target application is responsible for:

- * Determining the effect of the drop on the target application.
- Incorporating any valid dropped data when the drop occurs.
- Communicating target feedback to the source so the source application can provide appropriate visual feedback such as setting the cursor.
- Implementing drag scrolling.
- Registering and revoking its application windows as drop targets.

The `WindowsDropTargetMBS` class contains methods that handle all these responsibilities except registering and revoking the application window as a drop target, for which you must call the `AttachToWindow` functions.

When To Implement

Implement the `WindowsDropTargetMBS` interface if you are developing an application that can act as a target for a drag-and-drop operation. The `WindowsDropTargetMBS` interface is associated with your application windows and is implemented on your window objects. Call the `AttachToWindow` function to register your window objects as drop targets.

When To Use

You do not call the methods of `WindowsDropTargetMBS` directly. The `DoDragDrop` function calls the `WindowsDropTargetMBS` methods during the drag-and-drop operation.

For example, `DoDragDrop` calls `WindowsDropTargetMBS.DragEnter` when it detects the mouse has moved over a window that is registered as a drag target. After the mouse has entered a drag-target window, `DoDragDrop` calls `WindowsDropTargetMBS.DragOver` as the mouse moves through the window and calls `WindowsDropTargetMBS.DragLeave` if the mouse leaves the target window or if the user cancels or completes the drag-and-drop operation. `DoDragDrop` calls `WindowsDropTargetMBS.Drop` if the drop finally occurs.

2.3.1 Methods

`AttachToWindow(win as window, showDragImage as boolean = true) as integer`

method from class `WindowsDropTargetMBS`, Drag & Drop, MBS REALbasic WinDragDrop Plugin (WinDragDrop), Plugin version: 10.5, not console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: Attached the drop target to the window.

Notes:

This method unregistered any existing drop target on the window (including the one from REAL Studio).

Registers the specified window as one that can be the target of an OLE drag-and-drop operation and specifies the `WindowsDropTargetMBS` instance to use for drop operations.

Win: The window that can be a target for an OLE drag-and-drop operation.

showDragImage: Whether we should support the drag image methods in the newer Windows versions.

This function returns `S_OK` on success. Other possible values include the following.

| Return code | Description |
|---|--|
| <code>DRAGDROP_E_INVALIDHWND</code> | Invalid handle returned in the <code>hwnd</code> parameter. |
| <code>DRAGDROP_E_ALREADYREGISTERED</code> | The specified window has already been registered as a drop target. |
| <code>E_OUTOFMEMORY</code> | Insufficient memory for the operation. |

If your application can accept dropped objects during OLE drag-and-drop operations, you must call the `AttachToWindow` function. Do this whenever one of your application windows is available as a potential drop target, i.e., when the window appears unobscured on the screen.

`AttachToWindow` must be called on the main thread of your application.

The `AttachToWindow` function only registers one window at a time, so you must call it for each application window capable of accepting dropped objects. For each window, you need your own instance of the `WindowsDropTargetMBS` class.

As the mouse passes over unobscured portions of the target window during an OLE drag-and-drop operation, the `DoDragDrop` function calls the specified `WindowsDropTargetMBS.DragOver` method for the current window. When a drop operation actually occurs in a given window, the `DoDragDrop` function calls `WindowsDropTargetMBS.Drop`.

PrintClasses

shared method from class `WindowsDropTargetMBS`, Drag & Drop, MBS REALbasic WinDragDrop Plugin (`WinDragDrop`), Plugin version: 10.5, console safe, Mac OS X: Does nothing, Windows: Works, Linux x86:

Does nothing.

Function: Writes the declarations of the plugin classes to the console.

Notes: Call in console applications.

2.3.2 Properties

Handle as Integer

property from class WindowsDropTargetMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (Win-DragDrop), Plugin version: 10.5, console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: The internal handle.

Notes: (Read and Write property)

Helper as Integer

property from class WindowsDropTargetMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (Win-DragDrop), Plugin version: 10.5, console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: The internal reference to the helper object.

Notes: (Read and Write property)

2.3.3 Events

DragEnter(dataObject as WinDataObjectMBS, keystate as integer, x as integer, y as integer, byref effect as integer) as integer

event from class WindowsDropTargetMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (Win-DragDrop), Plugin version: 10.5, not console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: Indicates whether a drop can be accepted, and, if so, the effect of the drop.

Notes:

`dataObject`: This data object contains the data being transferred in the drag-and-drop operation. If the drop occurs, this data object will be incorporated into the target.

`KeyState`: The current state of the keyboard modifier keys on the keyboard. Possible values can be a combination of any of the flags `MK_CONTROL`, `MK_SHIFT`, `MK_ALT`, `MK_BUTTON`, `MK_LBUTTON`, `MK_MBUTTON`, and `MK_RBUTTON`.

`x` and `y`: A point containing the current cursor coordinates in screen coordinates.

`effect`: The value of the `Effect` parameter of the `DoDragDrop` function. On return, must contain one of the `DROPEFFECT` flags, which indicates what the result of the drop operation would be.

Return `S_OK` on success. Other possible values include the following.

| Return code | Description |
|----------------------------|--|
| <code>E_UNEXPECTED</code> | An unexpected error has occurred. |
| <code>E_INVALIDARG</code> | The <code>Effect</code> parameter is <code>NULL</code> on input. |
| <code>E_OUTOFMEMORY</code> | There was insufficient memory available for this operation. |

You do not call `DragEnter` directly; instead the `DoDragDrop` function calls it to determine the effect of a drop the first time the user drags the mouse into the registered window of a drop target.

To implement `DragEnter`, you must determine whether the target can use the data in the source data object by checking three things:

- * The format and medium specified by the data object
- The input value of `Effect`
- The state of the modifier keys

To check the format and medium, use the `WinDataObjectMBS` object.

On entry to `WindowsDropTargetMBS.DragEnter`, the `Effect` parameter is set to the effects given to the `OkEffect` parameter of the `DoDragDrop` function. The `WindowsDropTargetMBS.DragEnter` method must choose one of these effects or disable the drop.

The following modifier keys affect the result of the drop.

| Key Combination | User-Visible Feedback | Drop Effect |
|------------------|-----------------------|-----------------|
| CTRL + SHIFT | = | DROPEFFECT_LINK |
| CTRL | + | DROPEFFECT_COPY |
| No keys or SHIFT | None | DROPEFFECT_MOVE |

On return, the method must write the effect, one of the DROPEFFECT flags, to the Effect parameter. DoDragDrop then takes this parameter and writes it to its Effect parameter. You communicate the effect of the drop back to the source through DoDragDrop in the Effect parameter. The DoDragDrop function then calls WindowsDragSourceMBS.GiveFeedback so that the source application can display the appropriate visual feedback to the user through the target window.

DragLeave as integer

event from class WindowsDropTargetMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (Win-DragDrop), Plugin version: 10.5, not console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: Removes target feedback and releases the data object.

Notes:

Return S_OK on success. Other possible values include the following.

| Return code | Description |
|---------------|--|
| E_OUTOFMEMORY | There is insufficient memory available for this operation. |

You do not call this method directly. The DoDragDrop function calls this method in either of the following cases:

- * When the user drags the cursor out of a given target window.
- When the user cancels the current drag-and-drop operation.

To implement WindowsDropTargetMBS.DragLeave, you must remove any target feedback that is currently displayed. You must also release any references you hold to the data transfer object.

DragOver(keystate as integer, x as integer, y as integer, byref effect as integer) as integer

event from class WindowsDropTargetMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (Win-DragDrop), Plugin version: 10.5, not console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: Provides target feedback to the user and communicates the drop's effect to the DoDragDrop function so it can communicate the effect of the drop back to the source.

Notes:

KeyState: The current state of the keyboard modifier keys on the keyboard. Valid values can be a combination of any of the flags MK_ CONTROL, MK_ SHIFT, MK_ ALT, MK_ BUTTON, MK_ LBUTTON, MK_ MBUTTON, and MK_ RBUTTON.

x and y: The point containing the current cursor coordinates in screen coordinates.

Effect: On input, pointer to the value of the Effect parameter of the DoDragDrop function. On return, must contain one of the DROPEFFECT flags, which indicates what the result of the drop operation would be.

Return S_ OK on success. Other possible values include the following.

| Return code | Description |
|----------------|---|
| E_ UNEXPECTED | An unexpected error has occurred. |
| E_ INVALIDARG | The Effect value is not valid. |
| E_ OUTOFMEMORY | There was insufficient memory available for this operation. |

You do not call DragOver directly. The DoDragDrop function calls this method each time the user moves the mouse across a given target window. DoDragDrop exits the loop if the drag-and-drop operation is canceled, if the user drags the mouse out of the target window, or if the drop is completed.

In implementing WindowsDropTargetMBS.DragOver, you must provide features similar to those in WindowsDropTargetMBS.DragEnter. You must determine the effect of dropping the data on the target by examining the FORMATETC defining the data object's formats and medium, along with the state of the modifier keys. The mouse position may also play a role in determining the effect of a drop. The following modifier keys affect the result of the drop.

| Key Combination | User-Visible Feedback | Drop Effect |
|------------------|-----------------------|------------------|
| CTRL + SHIFT | = | DROPEFFECT_ LINK |
| CTRL | + | DROPEFFECT_ COPY |
| No keys or SHIFT | None | DROPEFFECT_ MOVE |

You communicate the effect of the drop back to the source through DoDragDrop in Effect. The DoDragDrop function then calls WindowsDragSourceMBS.GiveFeedback so the source application can display the appropriate visual feedback to the user.

On entry to `WindowsDropTargetMBS.DragOver`, the `Effect` parameter must be set to the allowed effects passed to the `OkEffect` parameter of the `DoDragDrop` function. The `WindowsDropTargetMBS.DragOver` method must be able to choose one of these effects or disable the drop.

Upon return, `Effect` is set to one of the `DROPEFFECT` flags. This value is then passed to the `Effect` parameter of `DoDragDrop`. Reasonable values are `DROPEFFECT_COPY` to copy the dragged data to the target, `DROPEFFECT_LINK` to create a link to the source data, or `DROPEFFECT_MOVE` to allow the dragged data to be permanently moved from the source application to the target.

You may also wish to provide appropriate visual feedback in the target window. There may be some target feedback already displayed from a previous call to `WindowsDropTargetMBS.DragOver` or from the initial `WindowsDropTargetMBS.DragEnter`. If this feedback is no longer appropriate, you should remove it.

For efficiency reasons, a data object is not passed in `WindowsDropTargetMBS.DragOver`. The data object passed in the most recent call to `WindowsDropTargetMBS.DragEnter` is available and can be used.

When `WindowsDropTargetMBS.DragOver` has completed its operation, the `DoDragDrop` function calls `WindowsDragSourceMBS.GiveFeedback` so the source application can display the appropriate visual feedback to the user.

Notes to Implementers

This function is called frequently during the `DoDragDrop` loop so it makes sense to optimize your implementation of the `DragOver` method as much as possible.

Drop(dataObject as WinDataObjectMBS, keystate as integer, x as integer, y as integer, byref effect as integer) as integer

event from class `WindowsDropTargetMBS`, Drag & Drop, MBS REALbasic WinDragDrop Plugin (Win-DragDrop), Plugin version: 10.5, not console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: Incorporates the source data into the target window, removes target feedback, and releases the data object.

Notes:

`dataObject`: The data object being transferred in the drag-and-drop operation.

KeyState: The current state of the keyboard modifier keys on the keyboard. Possible values can be a combination of any of the flags MK_ CONTROL, MK_ SHIFT, MK_ ALT, MK_ BUTTON, MK_ LBUTTON, MK_ MBUTTON, and MK_ RBUTTON.

x and y: The point containing the current cursor coordinates in screen coordinates.

Effect: On input, the value of the Effect parameter of the DoDragDrop function. On return, must contain one of the DROPEFFECT flags, which indicates what the result of the drop operation would be.

Return S_ OK on success. Other possible values include the following.

| Return code | Description |
|----------------|--|
| E_ UNEXPECTED | An unexpected error has occurred. |
| E_ INVALIDARG | The pdwEffect parameter is not valid. |
| E_ OUTFOMEMORY | There is insufficient memory available for this operation. |

You do not call this method directly. The DoDragDrop function calls this method when the user completes the drag-and-drop operation.

In implementing Drop, you must incorporate the data object into the target. Use the formats available in WinDataObjectMBS, available through dataObject, along with the current state of the modifier keys to determine how the data is to be incorporated, such as linking or embedding.

In addition to incorporating the data, you must also clean up as you do in the WindowsDropTargetMBS.DragLeave method:

Remove any target feedback that is currently displayed.

Release any references to the data object.

You also pass the effect of this operation back to the source application through DoDragDrop, so the source application can clean up after the drag-and-drop operation is complete:

Remove any source feedback that is being displayed.

Make any necessary changes to the data, such as removing the data if the operation was a move.

2.3.4 Constants

DROPEFFECT_COPY = 1

const from class WindowsDropTargetMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (Win-DragDrop), Plugin version: 10.5, not console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: One of the drop effect constants.

Notes:

Drop results in a copy. The original data is untouched by the drag source.

Your application should always mask drop effect constants to ensure compatibility with future implementations. Presently, only some of the bit positions in a drop effect value have meaning. In the future, more interpretations for the bits will be added. Drag sources and drop targets should carefully mask these values appropriately before comparing. They should never compare a drop effect value against, say, DROPEFFECT_COPY by doing the following:

```
if DropEffect = DROPEFFECT_COPY then
```

Instead, the application should always mask for the value or values being sought as using one of the following techniques:

```
if bitwiseAnd(DropEffect, DROPEFFECT_COPY) = DROPEFFECT_COPY then
```

This allows for the definition of new drop effects, while preserving backwards compatibility with existing code.

DROPEFFECT_LINK = 4

const from class WindowsDropTargetMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (Win-DragDrop), Plugin version: 10.5, not console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: One of the drop effect constants.

Notes: Drag source should create a link to the original data.

DROPEFFECT_MOVE = 2

const from class WindowsDropTargetMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (Win-DragDrop), Plugin version: 10.5, not console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: One of the drop effect constants.

Notes: Drag source should remove the data.

DROPEFFECT_NONE = 0

const from class WindowsDropTargetMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (Win-DragDrop), Plugin version: 10.5, not console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: One of the drop effect constants.

Notes: Drop target cannot accept the data.

DROPEFFECT_SCROLL = & h80000000

const from class WindowsDropTargetMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (Win-DragDrop), Plugin version: 10.5, not console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: One of the drop effect constants.

Notes: Scrolling is about to start or is currently occurring in the target. This value is used in addition to the other values.

E_INVALIDARG = & h80070057

const from class WindowsDropTargetMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (Win-DragDrop), Plugin version: 10.5, not console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: One of the OLE error codes.

Notes: An invalid argument was passed.

E_ OUTFMEMORY = & h80000002

const from class WindowsDropTargetMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (Win-DragDrop), Plugin version: 10.5, not console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: One of the OLE error codes.

Notes: There was insufficient memory available for this operation.

E_ UNEXPECTED = & h8000FFFF

const from class WindowsDropTargetMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (Win-DragDrop), Plugin version: 10.5, not console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: One of the OLE error codes.

Notes: An unexpected error has occurred.

MK_ CONTROL = 8

const from class WindowsDropTargetMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (Win-DragDrop), Plugin version: 10.5, not console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: One of the key state constants.

Notes: The CTRL key is down.

MK_ LBUTTON = 1

const from class WindowsDropTargetMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (Win-DragDrop), Plugin version: 10.5, not console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: One of the key state constants.

Notes: The left mouse button is down.

MK_ MBUTTON = & h10

const from class WindowsDropTargetMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (Win-DragDrop), Plugin version: 10.5, not console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: One of the key state constants.

Notes: The middle mouse button is down.

MK_ RBUTTON = 2

const from class WindowsDropTargetMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (Win-DragDrop), Plugin version: 10.5, not console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: One of the key state constants.

Notes: The right mouse button is down.

MK_ SHIFT = 4

const from class WindowsDropTargetMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (Win-DragDrop), Plugin version: 10.5, not console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: One of the key state constants.

Notes: The SHIFT key is down.

MK_ XBUTTON1 = & h20

const from class WindowsDropTargetMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (Win-DragDrop), Plugin version: 10.5, not console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: One of the key state constants.

Notes: The first X button is down.

MK_ XBUTTON2 = & h40

const from class WindowsDropTargetMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (Win-DragDrop), Plugin version: 10.5, not console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: One of the key state constants.

Notes: The second X button is down.

S_ FALSE = 1

const from class WindowsDropTargetMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (Win-DragDrop), Plugin version: 10.5, not console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: One of the OLE error codes.

S_ OK = 0

const from class WindowsDropTargetMBS, Drag & Drop, MBS REALbasic WinDragDrop Plugin (Win-DragDrop), Plugin version: 10.5, not console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

Function: One of the OLE error codes.

Chapter 3

List of all classes

- WinDataObjectMBS 18
- WindowsDragSourceMBS 7
- WindowsDropTargetMBS 29