

MBS Real Studio Main Plugin Documentation

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0.1 Introduction

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

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Chapter 2

Registration

2.1 Globals

LogoMBS(size as integer, WithAlphaChannel as boolean = false) as Picture

Plugin Version: 8.5 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Returns the MBS logo picture.

Example:

```
window1.Backdrop = LogoMBS(500)
```

Notes:

Best size is 500 pixel.

This function exists to provide a sample picture for examples.

If `WithAlphaChannel` is true and alpha channel pictures are supported, the plugin returns a picture with alpha channel. (Cocoa, Windows or Linux target on Real Studio 2011r4).

MBSPluginCompileDate as string

Plugin Version: 6.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Compilation date of the plugins.

Example:

MsgBox MBSPluginCompileDate

Notes:

e.g. "Aug 27 2006"

Actually the compilation date of the Version Plugin part which defines this function.

MBSPluginCompileTime as string

Plugin Version: 6.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Compilation Time of the plugins.

Example:

MsgBox MBSPluginCompileTime

Notes:

e.g. "19:40:16"

Actually the compilation date of the Version Plugin part which defines this function.

MBSPluginVersion as string

Plugin Version: 3.1 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Returns a version string from the plugin.

Example:

MsgBox "Build with Real Studio "+RBVersionString+" and "+MBSPluginVersion

Notes: You can show that in your about box so your users can tell you which plugin they use.

RegisterMBSPlugin(name as string, product as string, enddate as integer, serial as integer)
as boolean

Plugin Version: 6.5 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The function to register the plugins.

Example:

```
const name="Joe Smith"
const serialnumber=123456789
const enddate = 200710

if not RegisterMBSPlugin(name,"MBS2007", enddate, serialnumber) then
msgBox "something wrong with the serial number of the plugins!"
end if
```

Notes:

Returns true if name and serial number is accepted.

While you are running your project in Realbasic you don't need to register, but if you compile for any target, you should or nice popup windows will show that the app is not registered.

Register in an application subclass to make registering as early as possible.

In case you get this message: "RegisterMBSPlugin()", giving the message "This item conflicts with another item of the same name" you have something else in your plugins folder, e.g. a html file.

Possible reasons for this failing:

- The calculations you make on the strings or serial number do not create the same value on every machine (Intel vs. PPC, e.g. endian problems)
- You use MBS functions before calling registration function (e.g. you register in window.open event and use the plugin for a control.)
- You mix different plugin versions in your Realbasic folder.

This function works only for 2007 serial numbers.

See also:

- 2.1 RegisterMBSPlugin(name as string, product as string, serial as integer) as boolean 8

RegisterMBSPlugin(name as string, product as string, serial as integer) as boolean

Plugin Version: 3.0 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The function to register the plugins.

Example:

```
const name="Joe Smith"
const serialnumber=123456789
const enddate = 200710

if not RegisterMBSPlugin(name,"MBS2003", enddate, serialnumber) then
msgBox "something wrong with the serial number of the plugins!"
end if
```

Notes:

Returns true if name and serial number is accepted.

While you are running your project in Realbasic you don't need to register, but if you compile for any target, you should or nice popup windows will show that the app is not registered.

Register in an application subclass to make registering as early as possible.

In case you get this message: "RegisterMBSPlugin()", giving the message "This item conflicts with another item of the same name" you have something else in your plugins folder, e.g. a html file.

Possible reasons for this failing:

- The calculations you make on the strings or serial number do not create the same value on every machine (Intel vs. PPC, e.g. endian problems)
- You use MBS functions before calling registration function (e.g. you register in window.open event and use the plugin for a control.)
- You mix different plugin versions in your Realbasic folder.

See also:

- 2.1 RegisterMBSPlugin(name as string, product as string, enddate as integer, serial as integer) as

boolean

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2.2 module MBS

module MBS

Plugin Version: 9.5 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The module with version details.

2.2.1 Methods

Target as string

Plugin Version: 12.0 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Returns the target where the plugin was compiled for.

Example:

```
MsgBox mbs.Target
```

Notes: Can be Win32, Linux, Carbon, Carbon-PPC or Cocoa.

2.2.2 Constants

BuildNumber = 17421

Plugin Version: 9.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The build number of the plugins.

Example:

```
# if mbs.BuildNumber>15000 then
```

```
// use some new MBS feature
```

```
MsgBox "OK"
```

```
# endif
```

Notes: The constant value is not in this documentation as it changes too often.

CompileDate = "May 15 2012"

Plugin Version: 9.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The compilation date of the plugin.

Notes: The constant value is not in this documentation as it changes too often.

CompileTime = "07:27:44"

Plugin Version: 9.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The compilation time of the plugin.

Example:

```
MsgBox mbs.CompileTime
```

Notes: The constant value is not in this documentation as it changes too often.

Copyright = " 2009 by Monkeybread Software"

Plugin Version: 9.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The plugin copyright string.

Example:

```
MsgBox mbs.Copyright
```

Version = "MBS Realbasic Plugin 12.2 (build 17421) Tue May 15 05:27:04 2012 (GMT)"

Plugin Version: 9.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The plugin version string.

Example:

```
MsgBox mbs.Version
```

VersionString = "12.2"

Plugin Version: 11.1 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The plugin version string (only, the number part).

Example:

```
MsgBox mbs.VersionString
```

Notes: e.g. "11.1"

Website = "http://www.monkeybreadsoftware.de"

Plugin Version: 9.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The URL for the Monkeybread Software website.

Notes: ShowURL mbs.Website

Year = 2012

Plugin Version: 9.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The year of the plugin.

Example:

```
MsgBox str(mbs.Year)
```


Chapter 3

System

3.1 class GlobalExceptionHandlerMBS

class GlobalExceptionHandlerMBS

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Installs an exception handler to show a message dialog with custom message before the app crashes.

Notes:

The plugin allocates some memory which we release later to make sure there is free memory for the message box.

On Windows this method does not work as currently we use static runtime on Windows which does not allow the plugin to access the runtime inside the RB framework.

3.1.1 Events

GotException

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Called when an unhandled C++ exception was raised.

Notes: Your application is in a very instable state when this event is called. Don't do much here and quit soon with ExitMBS/AbortMBS.

3.2 Globals

```
InstallSystemExceptionHandlerMBS(Message as string = "")
```

Plugin Version: 10.4 Console & Web: Yes Mac: Yes, Win: No, Linux: Yes, . **Function:** Installs an exception handler to show a message dialog with custom message before the app crashes.

Example:

```
InstallSystemExceptionHandlerMBS "My message"
```

Notes:

If message is empty, the default message is "An unhandled C++ exception occurred. The application will now quit. A common reason for this is simply running out of memory."

The plugin allocates some memory which we release later to make sure there is free memory for the message box.

On Windows this method does not work as currently we use static runtime on Windows which does not allow the plugin to access the runtime inside the RB framework.

3.3 module BuildConstantsMBS

```
module BuildConstantsMBS
```

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** A module with build constants for you.

Example:

```
MsgBox BuildConstantsMBS.DateTime
```

3.3.1 Constants

Date = "15. 5.2012"

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The constant for the date.

Example:

```
MsgBox BuildConstantsMBS.Date
```

Notes:

Format is dd.mm.yyyy like 24.12.2010.

This is the date when the plugin was loaded to the Real Studio IDE. You can use this constant to know in your application when it was built. Not exactly, but within a few hours exact.

DateTime = "Tue May 15 16:36:59 2012"

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The constant for the date and time.

Example:

```
MsgBox BuildConstantsMBS.DateTime
```

Notes: This is the time when the plugin was loaded to the Real Studio IDE. You can use this constant to know in your application when it was built. Not exactly, but within a few hours exact.

Day = 15

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The day.

Hour = 16

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The hour.

Minute = 36

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The minute.

Month = 5

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The month.

Second = 59

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The second.

Time = "16:36:59"

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The constant for the time.

Example:

```
MsgBox BuildConstantsMBS.Time
```

Notes:

Format is like hh:mm:ss like 11:22:33.

This is the time when the plugin was loaded to the Real Studio IDE. You can use this constant to know in your application when it was built. Not exactly, but within a few hours exact.

Year = 2012

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The year.

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