4D Live Window

Web Browser Plug-In Windows®/Mac OS®



4D Live Window For Windows® and Mac OS®

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4D Live Window

local documents, like an online help or live internet feeds, like Google 4D form, similar to a 4D Write area. The area can be used to display functionality. Maps. The plugin is a very light browser, providing basic HTML The Web Browser plug-in allows embedding an internet browser into

Requirements

minimum requirements: You need 4th Dimension Version 2004.5 or newer and the following

	Windows	Mac OS
Operating system	Windows 2000, Windows XP Service Version 10.4 (Tiger) or newer	Version 10.4 (Tiger) or newer
	2 or newer	
Browser	MS Internet Explorer 6 or newer	Safari 2 or newer

duct, you can optain a royality free license here: To redistribute the MS Internet Explorer on your CD with your pro-

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functionality depend on the version of Internet Explorer installed which is based on Microsoft Internet Explorer. The look, feel, and On Windows the plug-in uses the Microsoft Web Browser control,

the plug-in on systems older than Mac OS X 10.4. technology developed for Safari 2.0. Therefore, it is not possible to use On Mac OS the plug-in uses Apple's Webkit framework and the same

tures are supported respectively as well. ves differently on both Windows and Mac OS X, and so different fea-Because the plug-in uses native operating system functionality it beha-

installed Acrobat Reader to support PDF viewing. plays PDF documents using the Preview tool, while Windows needs an images (JPEG, GIF, PNG) and PDF documents. The Mac OS System disvalid HTTP content some documents can be displayed directly, like Both platforms support documents in http:// format. In addition to

ported. MS Office XML format is also supported. Word, Excel and PowerPoint documents such as .doc, .xls, .ppt are sup-Office documents (if Microsoft Office is installed). More specifically On Windows it also supports the displaying and editing of Microsoft

 $(\ \ myserver\ myvolume).$ and external folders via ftp:// or via network folders On Windows 4D Live Window also supports the display of local folders

drag&drop a supported document from the Finder/Explorer into the "my%20document.pdf"). 4D Live Windows also allows you to decoded as a URL (ie. from "my document.pdf" to Documents must start with file://. Also note that the filename must be 4D Live Window area.

Examples for different behavior on Mac/ Windows

or using the context menu Open in New Window will open another MS Internet Explorer Window outside of 4D. from Javascript. On Windows, however, using the Javascript command On Mac OS the browser window ignores an Open Window command

played page does not contain resize dependent Javascript code, such as resize operations using the command Web_SetPreferences if the disthat point resize operations are not allowed. The developer can enable online documentation or email display. limited. The area size is determined upon opening the form only. After To avoid unexpected crashes resizing functionality on the Mac OS is while resizing the window. This is especially true for maps.google.com. On the Mac a web site with Javascript code may produce problems

QuickTime cannot request additional codecs. errors. Plug-ins may have problems opening windows. For example, On Windows, browser plug-ins like Flash may produce Javascript

and copy and paste operations via the right-click context menu. as <CTRL> + C). What is supported, however, are the <Backspace> key area, such as the <Tab> and keys and command shortcuts (such On Windows some keystrokes are not supported inside the browser

access a web server run from 4D Server, but not on its own web server. of the 4D application hosting the plug-in. Of course 4D Client can will take place. This also makes it impossible to access the web server page, for example, you will not be able to see how long the download 4D while downloading a single resource. So while downloading a web On Windows the MS Internet Explorer plug-in does not return time to

browser area, it will always opens a new window. Office 2007 does not support displaying documents embedded in a

ween Mac and Windows. The content/features of the right-click context menu are different bet-

Plug-in Installation

several browser windows as each runs independently. structure file. The plug-in area is placed on a form similar to a plug-in variable names even if they display the same URL. This is similar to same form (even on different form pages), they must use different like 4D Write. Note that if you want to use several plug-in areas in the The plug-in is to be installed into the "Plug-in" folder next to your

Command Description

Web_SETURL WB_SETURL (Area; URL; MacOSPath) → error code

Type		Description
Longint	\downarrow	4D Live Window area
Text	\downarrow	Full URL (http://www.4d.com)
Longint	\downarrow	0 for URL, 1 for path,
		unused on Windows
Longint	1	← Hror code (0 = No error)
	nt nt	

it specifies the URL (or document) to be opened. Web_SetURL is usually the first command you need to apply to an area,

http://www.4D.com or file:///C:/my %20Document.pdf). The URL must be passed as fully qualified URL (i.e

file://localhost/Users/thomas/Documents/image%C3.jpg On Mac OS a file name must be valid Unix path name, in the form:

In valid encoded characters may crash the application. 8-bit characters and special character like blanks must be encoded.

to use an HFS path like The parameter MacOSPath allows automatic file path encoding. Pass 1

"MyDisk:Users:thom as:Documents:im ageö.jpg".

or "Straße.jpg" with no encoded special characters. Also simple URL's On Windows real file names are accepted, like "C:\ my Document.pdf" fully qualified names. like "www.4D.com" are accepted as well. Still, it is recommended to use

Function result

If the call was successful it returns 0. Otherwise it was an error.

Web_GetURL Web_GetURL (Area; URL) \rightarrow error code

Function result Longint ← Error code (0 =	URL Text → Current URL	Area Longint → 4D Live Windo	Parameter Type Description
← Error code (0 = No error)	Current URL	4D Live Window area	Description

The command Web_SetURL returns the current displayed URL.

Function result

If the call was successful it returns 0. Otherwise it was an error

Web_Back (Area) → error code

Function result	Area	Parameter
Longint ←	Longint →	Туре
Error code (0 = No error)	4D Live Window area	Description

going to the previously displayed URL. The command Web_Back Back calls the Back function of the browser,

Function result

If the call was successful it returns 0. Otherwise it was an error.

Web_Forward

Web_Forward (Area) → error code

Function result	Area	Parameter
Longint	Longint	Туре
← Error code (0 = No error)	→ 4D Live Window area	Description

not used before, the call has no result. ser, reverting the usage of the Back function. If the Back function was The command Web_Forward calls the Forward function of the brow-

Web_GetContent

Web_GetContent (Area; content) → error code

Function result	Content	Area	Parameter
Longint	Blob	Longint	Type
← Error code (0 = No error)	→ Page content as blob	→ 4D Live Window area	Description

as blob. The command Web_GetContent returns the content of the main frame

Function result

If the call was successful it returns 0. Otherwise it was an error.

Web_Set Preferences

Web_SetPreferences (Area; Selector; NumValue, StringValue) → error code

Parameter	Туре	Description
Area	Longint →	→ 4D Live Window area
Selector	Longint →	→ Preferences Selector
NumValue	Longint →	Numerical value to set
StringValue	Alpha →	→ String value to set
Function result	Longint ←	← Error code (0 = No error)

the 4D Live Window plug-in. The command Web_SetPreferences allows to change the behavior of

Note:In Release 1.0 the 4th parameter String Value is not used, always pass "" for future compatibility.

Selector	Code Usage	Usage
Web_kResize	1	0=disable resizing; 1=enable resizing (1)
Web_kVisible	2	0=hide the browser; 1=show the browser (2)

Notes: (1) Web_kResize

the browser area to a fixed size (not resizeable). already displayed. To avoid this crash the developer is supposed to set position of some elements. This may lead to a crash if the site was maps.google.com) acts on the resize by using Javascript to change the Mac OS only: if the plugin area is resized, some web sites (specially

case you should not allow the end user to manually enter a URL. you may enable the resize functionality by using this option. In that site). If you display HTML content (or PDF images) without Javascript, except for the first display (opening a window before loading a web Using this option has no result on Windows. (2) In any case the browser area is not automatically resized on Mac

(3) Web_kVisible

ser area by using both SET VISIBLE and Web_SetPreferences. Javascript triggered redraws. So it is necessary to hide/show the browbecause the browser responds directly to events such as mouse-over or The 4D Command SET VISIBLE does not fully hide the browser

Function result

If the call was successful it returns 0. Otherwise it was an error.

Exam ple

\$err:=Web_SetPreferences(mybrowser; 1; 1; "") to enable resizing

Error Codes

successful. Possible error codes are: All commands of the 4D Live Window plug-in return 0, if the call was

-15003	-15002	-15001
Internal error	In valid param eter passed	The specified area is not a 4D Live Window area