

Packaged Browser User Guide



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1 Introduction

1.1 Purpose

This document is created to introduce users to HARMAN Packaged Browser solution for an Adobe Flash Player End of Life case. This document describes installation process and general usage guidelines for Packaged Browser solutions.

1.2 Glossary

Term	Definition
IE-based	Solution based on a standard Microsoft Web Control.
Chromium- based	Solution based on an Electron.js framework which is using Chromium engine.
IE plugin	Plugin used with Microsoft Internet Explorer browser.

2 Installation process.

In order to install a package, user need to run provided <Package name>.msi file and follow instructions provided in an installer. Default installation of a package is system wide (for all users on a machine), so it requires administration rights.

2.1 IE-based Packaged Browser installation.

2.1.1 IE-based silent installation.

For using silent installation user need to open a command line as administrator and run installation command:

\$ msiexec /q /i <Package name>.msi

If user wants to install only for a current user than user need to execute below command:

\$ msiexec /q /i <Package name>.msi MSIINSTALLPERUSER=1 ALLUSERS=2

User can also specify a TARGETDIR parameter to install in a specified directory:

\$ msiexec /q /i <Package name>.msi TARGETDIR="<Installation path> "



2.2 Chromium-based Packaged Browser installation.

2.2.1 Chromium-based solution silent installation.

For using silent installation user need to open a command line as administrator and run installation command:

\$ msiexec /q /I <Package name>.msi

If user wants to install only for a current user than user need to execute below command:

\$ msiexec /q /i <Package name>.msi MSIINSTALLPERUSER=1 ALLUSERS=2

User can also specify an INSTALLFOLDER parameter to install in a specified directory:

\$ msiexec /q /i <Package name>.msi INSTALLFOLDER="<Installation path>" MSIINSTALLPERUSER=1 ALLUSERS=2

2.3 IE plugin solution installation.

Before installation of a HARMAN IE plugin the user must remove any existing Flash Player on the machine. For Windows 7, Adobe provide an uninstaller, but for Windows 8 and later, this means installing a Microsoft update KB4577586. For more details, please refer to a <u>Microsoft support</u> topic^[1].

This will ensure that Flash Player installation from HARMAN is not affected in the future by this update.

IMPORTANT NOTE: for a testing purposes during an evaluation phase, we recommend to use 'non-main' machines or virtual machines, because KB4577586 cannot be easily uninstalled as mentioned in a Microsoft support topic [1].

3 Features.

3.1 Supported command line arguments.

3.1.1 Specific launching URL.

User can specify a launch URL by using the '-url' argument in a command line or in a 'Target' of a shortcut. For example, if user wants to launch a <u>https://harman.com</u> in a Packaged Browser application than a shortcut Target will look like this: "<Path to executable>" -url <u>https://harman.com</u>



See below screenshot for details.

Security) etails	Previ	ous Versions
General		Shortcut		Compatibility
H	ARMAN_P	ackaged_Brow	iser.exe - S	Shortcut
Target type:	Applicatio	n		
Target location	арр			
<u>T</u> arget:	Package	ed_Browser.ex	e'' -url http	s://harman.com
<u>S</u> tart in:	"C:\Prog	"C:\Program Files\HARMAN\HARMAN_Package		
Shortcut <u>k</u> ey:	None			
<u>R</u> un:	Normal window \sim			
C <u>o</u> mment:				
Open <u>F</u> ile L	ocation	<u>C</u> hange loo	n	A <u>d</u> vanced
				_

3.2 Bookmarks.

Both IE and Chromium based versions of HARMAN Packaged Browser solution support bookmark of pages

3.2.1 Bookmarks in IE-based application.

User can bookmark current page using a File menu item "Add to bookmarks".



A popup dialog appears after that for the userto set a proper name for the bookmark or to modify the URL manually.

1



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User can open a list of bookmarked pages by clicking on a "Bookmarks..." item in a File menu of an application.

🧀 P	ackaged Browser Demo	
File		
	Internet options	m/company
	Add to bookmarks	
	Bookmarks	
	Exit	

List of bookmarked pages contains all previously bookmarked pages.

Main work page Edit Delete
Harman main page Edit Delete
About Harman international Connected Technologies Edit Delete
Home Page Edit Delete

3.2.1.1 Delete bookmark in IE-based application.

If user clicks on a 'Delete' button for a specific bookmark on a page with bookmarks a popup dialog would appear where user can press "OK" to delete a bookmark.

BundledBrowser $ imes$	
Delete bookmark?	
OK Cancel	

3.2.1.2 Edit bookmark in IE-based application.

User can click on 'Edit' button for a specific bookmark on a page with bookmarks which would bring up a popup dialog to edit a bookmark.

Edit bookmark		×
Bookmark name :	Harman main page	
Bookmark url :	https://www.google.ru	
ОК	Cancel	

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3.2.2 Bookmarks in Chromium-based version.

User can bookmark current page using the Options menu item "Bookmark this page" or by pressing the 'Ctrl+D' shortcut on a keyboard.



A popup dialog appears after that for a user convinience to set a proper name for a bookmark or to modify an URL manually.

🔕 Add bookmark	_		×
Title internat	onal Connected Te	chnologies	
URL https://	www.harman.com/c	ompany]
	Add	Cancel	

ø

User can open a list of bookmarked pages by clicking on a "Bookmarks..." item in an Option menu of an application or by pressing a 'Ctrl+B' shortcut on a keyboard.

List of bookmarked pages contains all previously bookmarked pages.

Booki	narks	- 0	×
	Bookmarks		
	QA page	Edit Delete	
	Harman main page	Edit Delete	
	Home Page	Edit Delete	
	About Harman international Connected Technologies	Edit Delete	



3.2.2.1 Delete bookmark in Chromium-based application.

User can delete a bookmark by clicking on a 'Delete' button near a bookmark.

Bookmarks	
QA page	Edit Delete
Harman main page	Edit Delete
Home Page	Edit Delete
About Harman international Connected Technologies	Edi Delete

3.2.2.2 Edit bookmark in Chromium-based application.

User can click on 'Edit' button for a specific bookmark on a page with bookmarks which would bring up a popup dialog to edit a bookmark.

🎯 Edit bookma	к —		×
Title Harr	an main page		
URL http	s://www.harman.com]
	Update	Cancel]

3.3 Multiple tabs in Chromium-based application.

User can open new tab by pressing on a '+' sign on a tabs bar, by clicking on a 'New Tab' Options menu item or by pressing a 'Ctrl+T' shortcut on a keyboard.



User Can close a tab either by pressing a 'Close Tab' item in an Options menu or by pressing a 'Ctrl+W' shortcut on a keyboard or by pressing a cross icon on a tab.



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3.4 Chromium-based Zoom-in and Zoom-out feature.

User can use either appropriate shortcuts or View menu items to zoom-in or zoom-out in a current tab.



3.5 IE-based application document mode (IE 7 mode by default).

By default, IE-based application is running in an IE 7 mode. To change this setting user can update a registry entry like shown on an image below. For more details on what this registry key does please refer to the Microsoft documentation^[2].

🖹 Registy Editor –						×	
File <u>E</u> dit ⊻iew F <u>a</u> vorites <u>H</u> elp							
Computer\HKEY_CURRENT_USER\Software\Microsoft\Internet Explorer\Main\FeatureControl\FEA	ATUR	RE_BROWSER_EMULATION					
V Internet Explorer	~	Name	Type	Data			
- Approved Extensions		ab (Default)	REG SZ	(value not set)			
- AutoComplete		AcroBd32.exe	REG_DW/ORD	0x00002af8 (11000)			
> BrowserEmulation		atmar eve	REG DWORD	0-00002+68 (11000)			
- CaretBrowsing		Blend eve	REG DWORD	0:0000270£(9999)			
- CodeIntegrity		W Capr eve	REG DWORD	0-0002-69 (11001)			
ContinuousBrowsing		W Cisco Collab Host ave	REG DWORD	0-00002-69 (11000)			
Control Panel		de apu eve	REG_DWORD	0x 00002 305 (0000)			
> Desktop		en devenuexe	REG_DWORD	0.00002-69 (11001)			
- Document Windows		ecupse-inscexe	REG_DWORD	0.00002319((11001)			
> DomainSuggestion		eoimicrosoft.vsHub.server.HttpHost.exe j	REG_DWORD	0:0000270F(9999)			
> DOMStorage		ee one one or or	REG_DWORD	0:00002478 (11000)			
Download		M OUTLOOK,EXE	REG_DWORD	0:00002711(10001)			
EdgehtmlStorage lelemetry		Policy Central.exe	REG_DWORD	0:00011000 (69532)			
> Explorer Bars		ptoneclk.exe	REG_DW/ORD	0x00002af9 (11001)			
FlipAnead		ptsrv.exe	REG_DWORD	0×00002a#9 (11001)			
GPU		ptWb×ONI.exe	REG_DWORD	0x00002af9 (11001)			
Help_Menu_UKLS		👯 RealPresenceDesktop.exe	REG_DWORD	0×00002af8 (11000)			
		👯 SCClient.exe	REG_DWORD	0x00002af9 (11001)			
		🗱 SparkWindowsDirect.exe	REG_DWORD	0x00002af8 (11000)			
Intelliforms		👪 PackagedBrowser.exe	REG_DWORD	0x00002af8 (11000)			
> International							
Licks Dec							
Lunksbar							
b Low Rights							
> Lowregistry							
Easture Control							
FEATURE SCRIPTURE MITIGATION							
Windows Search							
MAO Settings							
MenuExt							
MINIE							
>							

During evaluation phase it would be helpful if you can check what mode is used in an IE browser using a developer tools in a browser. Open an application URL in an IE browser and then press F12. Check 'Emulation' tab and a 'Document mode' value.

F12	DOM Explo	rer Console	Debugger	Network 🖻	Performance	Memory	Emulation
¢_	5						
Mod	e			Displa	ау		
Docu	ment mode	11 (Default)	✓ ()	Orient	ation Lan	dscape	\checkmark
Brow	ser profile	Desktop	\checkmark	Resolu	ution Def	ault	\checkmark
User	agent string	Internet Explorer 11	l (De 🗸				
10 0	2024 114 214 41						
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If in IE you can see that Decument mode is set to 11 than registry entry for a PackagedBroswer application should be a decimal 11000.

This setting takes an effect on the Packaged Browser only after restart of an application.

3.6 Chromium-based application – printing of a Popup window.

User can print a Popup window by pressing a "Ctrl+P" shortcut on a keyboard.

4 FAQ

4.1 Packaged Browser doesn't work properly in Citrix environment

If Packaged Browser doesn't work properly in Citrix environment than <u>disabling of Citrix hooks</u> ^[3] can resolve an issue.

4.2 IE-based Packaged Browser unable to find the Flash Player

The packaged browser solutions come with a version of the Flash Player, but the IE-based solution also needs some registry entries to be present so that the IE engine can advertise a particular version number of the Flash Player to the HTML/JavaScript content that it's running. If the user has removed the system Flash Player, then this will remove the registry entries and the packaged browser solution may stop working. To restore the settings HARMAN have developed a simple "Flash Player Utility" that restores the registry during installation.

Note also that the Flash Player needs to be enabled. If there are administrative policies set up on the computer that disable the use of Flash Player, then these would prevent any IE-based application from accessing Flash content.

4.3 How to tell what version of the IE plugin is installed

To check what version of Flash Player is available in IE, visit the <u>Flash Player Help (adobe.com)</u> website and click on" Check Now". Adobe's versions of Flash Player go up to version 32, HARMAN's versions start at version 50.

4.4 Flash content is replaced by a Flash/Information logo

If a Flash/Information logo is displayed on the screen, this indicates that content is blocked by the URL filtering (or, for evaluation licensees, the evaluation period may have expired). For evaluation versions, a file should be generated called "flashurlfilter.log" – in the 'temp' folder for IE-based solutions, and in an application-specific folder under 'appdata' for Chromium-based solutions.



4.5 IE plugin installation doesn't work

Please install IE plugin as an administrator. It is required to properly register for an IE browser.

Also please make sure that Shockwave plugin is enabled in IE browser like shown on a picture below.

Manage Add-ons							×
View and manage your Internet Explor	er add-ons						
Add-on Types	Name Microsoft Corporation	Publisher	Status	Architecture	Load time	Navigation	^
🚳 Toolbars and Extensions	lync Click to Call	Microsoft Cornoration	Enabled	32-hit and	0.00 <	0.00 <	
Search Providers	Skype for Business Browser Hel	Microsoft Corporation	Enabled	32-bit and	0.00 s	0.00 s	
Accelerators	IEToEdge BHO	Microsoft Corporation	Enabled	32-bit and	0,01 s	0,00 s	
Tracking Protection	NameCtrl Class	Microsoft Corporation	Enabled	32-bit			
• • • •	WizCombo Class	Microsoft Corporation	Enabled	32-bit			
	XML DOM Document	Microsoft Corporation	Enabled	32-bit and			
	Windows Media Player	Microsoft Corporation	Enabled	32-bit and			
	Microsoft Silverlight	Microsoft Corporation	Enabled	32-bit and			
	Microsoft Windows Third Party App	lication Component					
	Shockwave Flash Object	Microsoft Windows Thir	Enabled	32-bit and			
	Not Available						
Show:	OneNote Linked Notes	Not Available	Enabled	32-bit and			
All add-ons V	Send to OneNote	Not Available	Enabled	32-bit and			~
Shockwave Flash Object Microsoft Windows Third Party Applica	ation Component						
Version: 32.0.0.445 File date: боктября 2020 г. Mo <u>r</u> e information	, 3:13	Type: Sear <u>c</u> h for this add-	ActiveX Cont on via default :	rol search provider			
Eind more toolbars and extensions Learn more about toolbars and extensi	ons						Disa <u>b</u> le C <u>l</u> ose

References

[1]	Update for the removal of Adobe Flash Player: October 27, 2020: https://support.microsoft.com/en-us/help/4577586/update-for-removal-of-adobe- flash-player
[2]	https://docs.microsoft.com/en-us/previous-versions/windows/internet-explorer/ie- developer/general-info/ee330730(v=vs.85)?redirectedfrom=MSDN
[3]	https://support.citrix.com/article/CTX107825



5 Change History

Version	Date	Change from Previous	Name	Status
1	07.12.2020	Document created	Sergey Kashin	Draft
2	14.12.2020	Added silent installation instructions and IE document mode	Sergey Kashin	Draft
3	21.12.2020	Added FAQ	Sergey Kashin	Draft
4	22.12.2020	Enhanced the FAQ	Andrew Frost	Draft