

# 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:

```
$ msixexec /q /i <Package name>.msi
```

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

```
$ msixexec /q /i <Package name>.msi MSIINSTALLPERUSER=1 ALLUSERS=2
```

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

```
$ msixexec /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 [Microsoft support topic](#)<sup>[1]</sup>.

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].

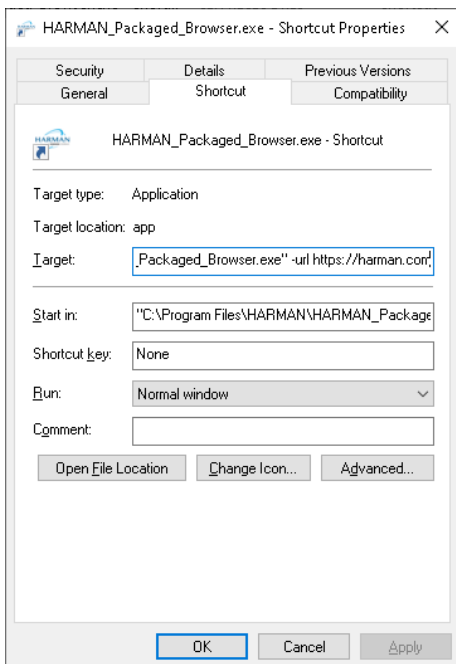
## 3 Features.

### 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 <https://harman.com> in a Packaged Browser application than a shortcut Target will look like this: "<Path to executable>" -url <https://harman.com>

See below screenshot for details.

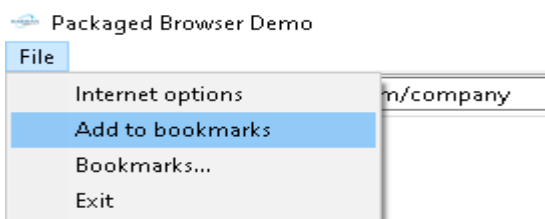


## 3.2 Bookmarks.

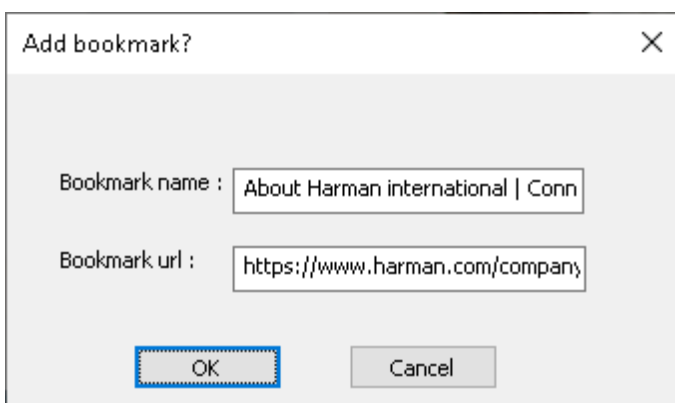
Both IE and Chromium based versions of HARMAN Packaged Browser solution support bookmark of pages

### 3.2.1 Bookmarks in IE-based application.

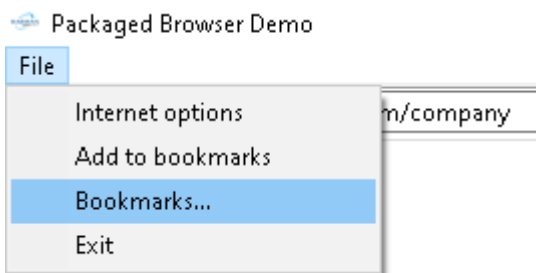
User can bookmark current page using a File menu item “Add to bookmarks”.



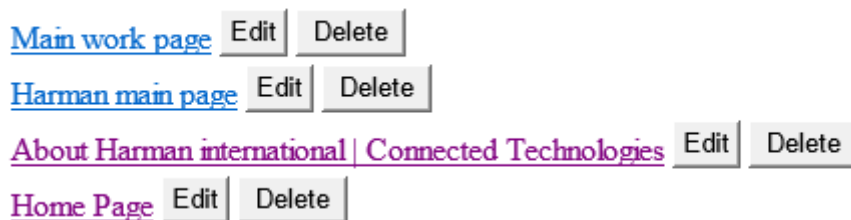
A popup dialog appears after that for the user to set a proper name for the bookmark or to modify the URL manually.



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

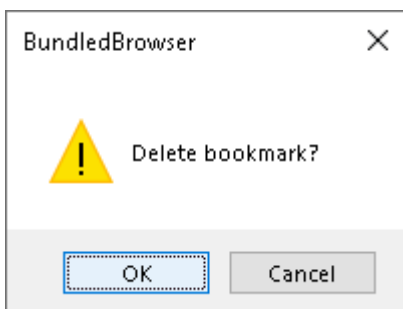


List of bookmarked pages contains all previously bookmarked pages.



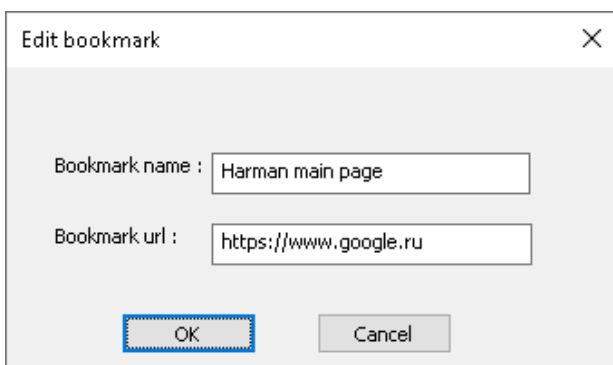
### 3.2.1.1 Delete bookmark in IE-based application.

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.



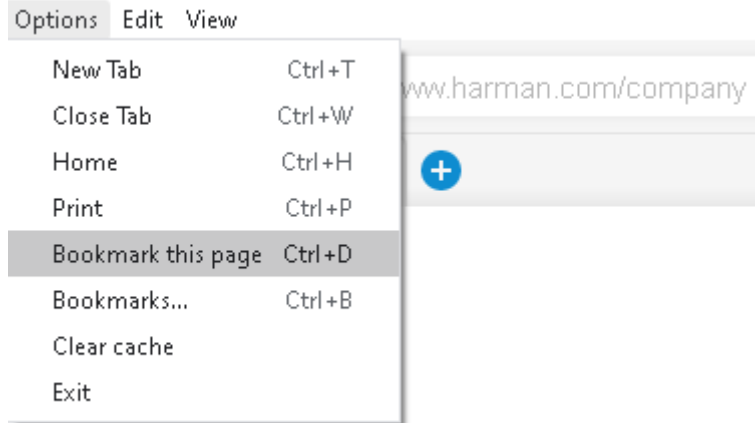
### 3.2.1.2 Edit bookmark in IE-based application.

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.

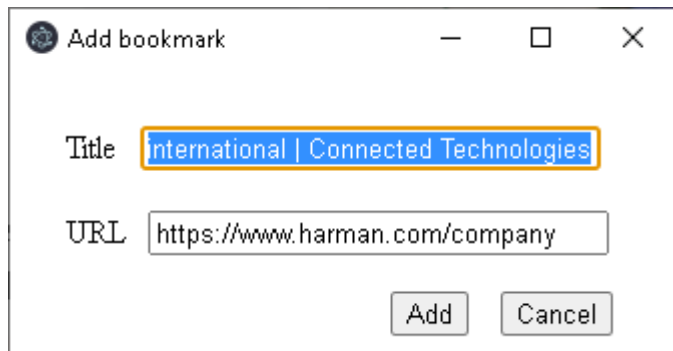


### 3.2.2 Bookmarks in Chromium-based version.

User can bookmark current page using the Options menu item “Bookmark this page” or by pressing the ‘Ctrl+D’ shortcut on a keyboard.

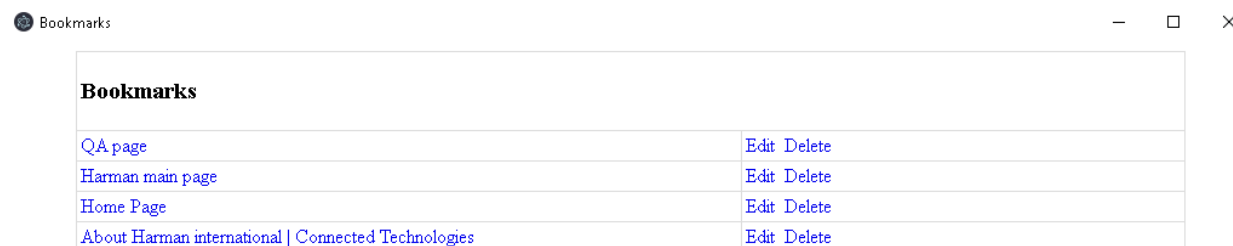


A popup dialog appears after that for a user convenience to set a proper name for a bookmark or to modify an URL manually.



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.





### 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	
<a href="#">QA page</a>	Edit Delete
<a href="#">Harman main page</a>	Edit Delete
<a href="#">Home Page</a>	Edit Delete
<a href="#">About Harman international   Connected Technologies</a>	Edit <b>Delete</b>

### 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.



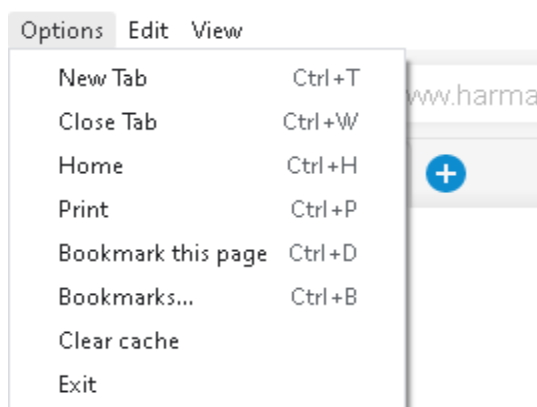
Edit bookmark

Title

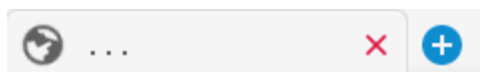
URL

## 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.

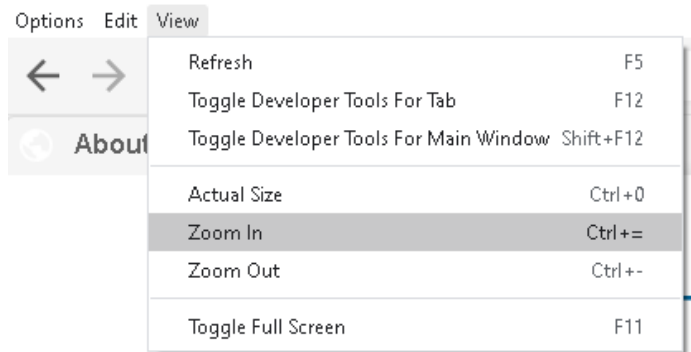


User Can close a tab either by pressing a 'Close Tab' item in an Options menu or by pressing a 'Ctrl+W' shortcut on a keyboard or by pressing a cross icon on a tab.



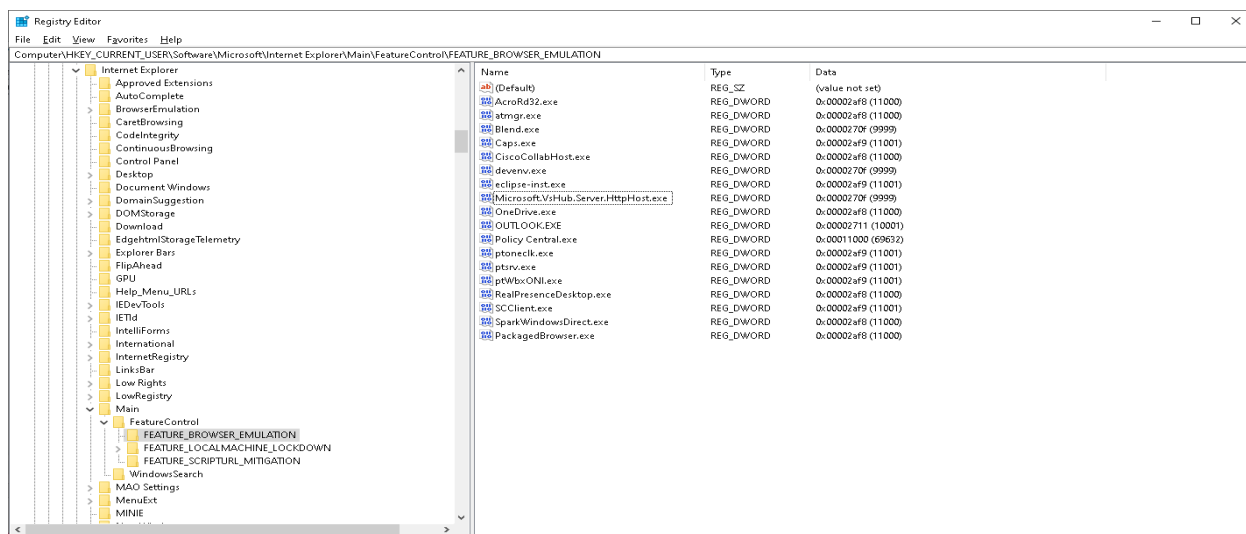
### 3.4 Chromium-based Zoom-in and Zoom-out feature.

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

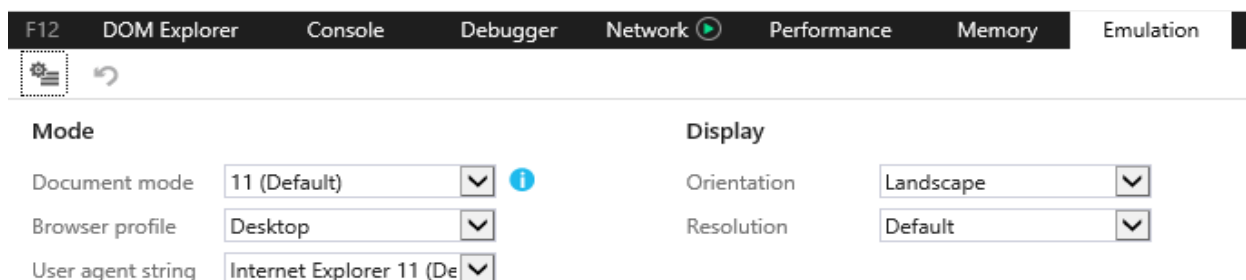


### 3.5 IE-based application document mode (IE 7 mode by default).

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](#)<sup>[2]</sup>.



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.



If in IE you can see that Document mode is set to 11 than registry entry for a PackagedBrowser 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 [disabling of Citrix hooks](#) <sup>[3]</sup> 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 [Flash Player Help \(adobe.com\)](#) website and click on” Check Now”. Adobe’s versions of Flash Player go up to version 32, HARMAN’s versions start at version 50.

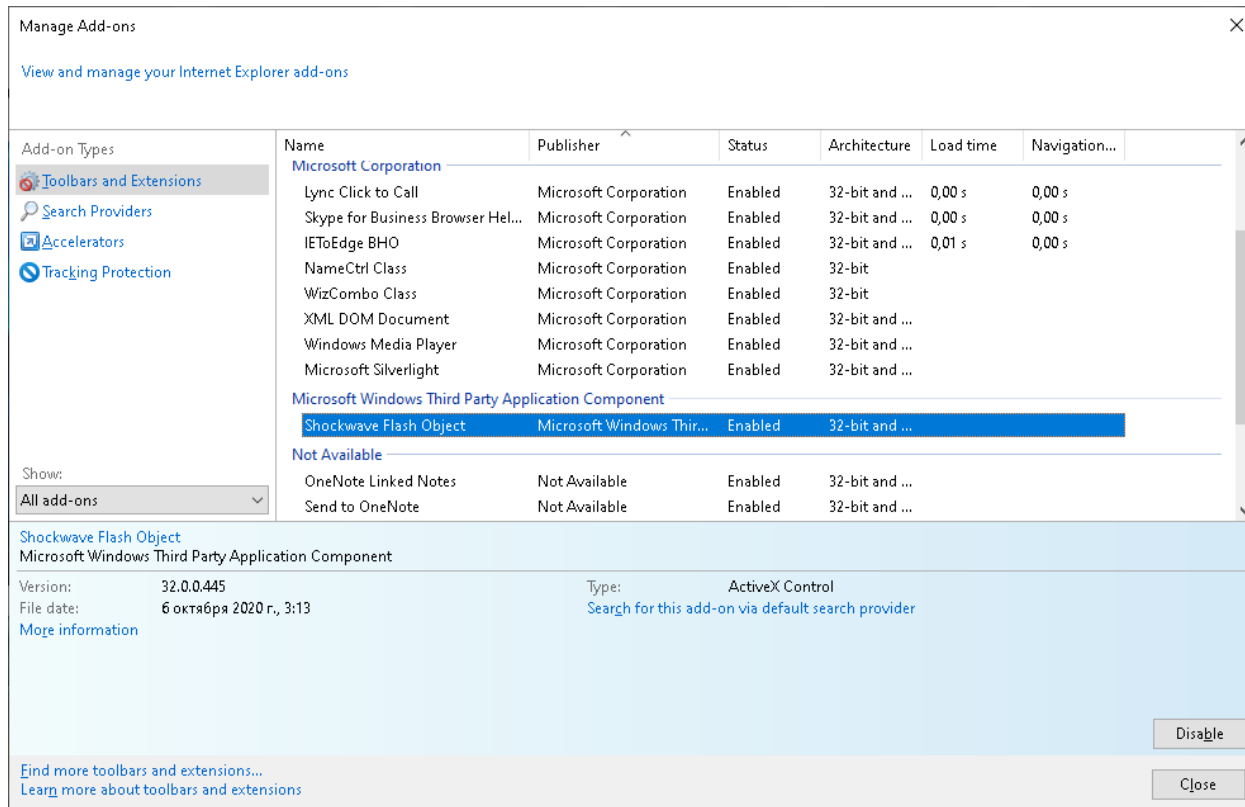
### **4.4 Flash content is replaced by a Flash/Information logo**

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.



## References

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

## 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