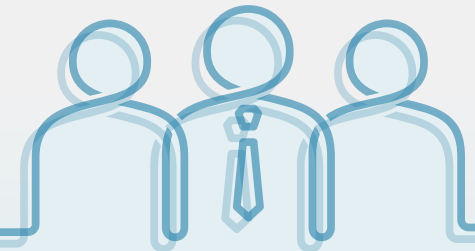




# HARMAN'S **FLASH PLAYER** **SUPPORT** PROGRAM



Flash Player is installed on hundreds of millions of systems. In 2017, Adobe announced that the end of life for Flash Player would be effective end of 2020, after which Flash Player will not be available for download from their website and most browser vendors will update their browsers to remove support for loading native plug-ins.

However, several companies have significant Flex and Flash-based applications currently in use, either for internal access by employees or as customer-facing applications. HARMAN's exclusive agreement with Adobe to provide extended licensing and support agreements for enterprise Flash Player means that companies can be offered a longer time for migrating their Flash-based application to HTML/JavaScript solutions. HARMAN will offer support and security updates to Adobe Flash Player and can provide solutions till the end of 2023 and beyond.

## HARMAN's Value Proposition

HARMAN's expertise in software services powers billions of mobile devices and systems that are connected, integrated and secured across multiple platforms.

We have a long-standing history as an Adobe partner, with deep knowledge of the Flash runtime and ecosystem and are well-positioned to support Flash enterprise customers moving forward given more than a decade of experience.

HARMAN's exclusive agreement and long history of collaboration with Adobe will support enterprises via the following offerings:

- Adobe AIR SDK – being actively maintained and developed as a cross-platform framework.
- Transitioning Flash content to alternate technologies.
- Creating custom applications that will continue to load content with embedded copies of Flash Player, including a “packaged browser” application that contains both a web browser engine and the Flash Player.
- Providing enterprise-enabled Flash Player installers that will allow Flash Player to run with compatible browsers in a licensee's intranet environment.



# OUR SOLUTIONS

## Adobe AIR - Provided by HARMAN

Adobe® AIR® - Provided by HARMAN is an application runtime that uses a similar engine as the Flash Player browser plug-in and can often open and run web-based Flash content with only minor modification. This can be an option where the applications are purely Flash-based i.e. do not have much interaction with the surrounding HTML or JavaScript content in the website that hosts them. As of June 2019, Adobe has transitioned ongoing platform support and feature development of AIR to HARMAN.

HARMAN's offerings also include consultancy, support and migration services for companies looking to move their applications away from Flash technologies over to HTML5 via solutions such as Angular, Apache Royale and other JavaScript based frameworks.

For AIR SDK, please visit our dedicated webpage at <https://airsdk.harman.com>

## Packaged Browser Solution

Where enterprise applications are a mixture of web (HTML/JavaScript) and Flash (or Flex) content, AIR is unlikely to provide full capabilities and so HARMAN is offering the "Packaged Browser" solution as a customised software product that can be licensed for use beyond end of 2020 and allows an existing Flash-based web application to continue working like before.

The "Packaged Browser" is essentially an application that wraps up a browser engine along with the Flash Player and is locked to your web-based Flash application taking on appropriate branding. It is deployed as a separate application, so it needs to be installed by an end user and accessed as a desktop application. It is like a browser tab without the navigational UI and with a Flash Player isolated from the rest of the system.

This application works by loading in the appropriate browser engine and directing this to the predefined URL that hosts the web-based application. The browser engine then loads the custom version of the Flash Player as provided under license by HARMAN. The web-based application is then displayed as if it were running in a normal web page.





## Enterprise-Enabled Flash Player deployment

For companies who deploy the Flash Player across their intranet and who need their employees to access Flash-based content, it will be possible to continue using the Flash Player within Internet Explorer. Microsoft will update Internet Explorer such that it would only support new builds of the Flash Player that include a new "enterprise enablement" feature. HARMAN will support the Flash Player with continued security patches and updates so that this can be installed by enterprise customers' IT departments. It will then allow the employees to continue accessing their Flash-based applications directly within the browser with a minimal business impact or risk.

If a customer needs to have continued Flash Player support for their own employees then this is a simple solution; if a Flash-based application needs to be accessed by external parties then it would be more appropriate to wrap this application into the "Packaged Browser" solution. In both of these options, little or no changes would be required to the actual online application itself. These solutions are intended to provide additional timescales during which a customer should be migrating their applications away from the Flash Player technology and into an alternative mechanism such as Adobe AIR, Apache Royale, or an HTML/JavaScript framework.

Partner with HARMAN for your Adobe Flash and AIR landscape strategy for a secure and smooth implementation and support experience, that is reliable and extends your user experience beyond a browser.

To know more visit <https://services.harman.com/partners/adobe>

### ABOUT HARMAN

HARMAN (harman.com) designs and engineers connected products and solutions for automakers, consumers, and enterprises worldwide, including connected car systems, audio and visual products, enterprise automation solutions; and services supporting the Internet of Things. With leading brands including AKG®, Harman Kardon®, Infinity®, JBL®, Lexicon®, Mark Levinson® and Revel®, HARMAN is admired by audiophiles, musicians and the entertainment venues where they perform around the world. More than 50 million automobiles on the road today are equipped with HARMAN audio and connected car systems. Our software services power billions of mobile devices and systems that are connected, integrated and secure across all platforms, from work and home to car and mobile. HARMAN has a workforce of approximately 30,000 people across the Americas, Europe, and Asia. In 2017, HARMAN became a wholly-owned subsidiary of Samsung Electronics Co., Ltd.



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