

## **Custom Rich Client, Multimedia Interfaces for the Web and Mobile for Fedora and Duracloud Using Adobe Open Source Solutions**

Hamer, Greg

Adobe supports several open source projects for creating custom rich client, multimedia interfaces for both the web and now mobile devices. This session will focus on using Fedora and Duracloud's web service and REST APIs in conjunction with the following open source frameworks and servers supported by Adobe: -- Flex SDK <http://opensource.adobe.com/wiki/display/flexsdk> -- Open Source Media Framework (aka OSMF) <http://opensource.adobe.com/wiki/display/osmf> -- BlazeDS <http://opensource.adobe.com/wiki/display/blazeds> Each of these open source projects offer unique solutions for creating custom user interfaces on Fedora and Duracloud repositories. Flex provides prebuilt UI components for building custom applications for the presentation of data and media assets stored in Fedora and Duracloud repositories. Flex components include both simple and complex prebuilt components. Flex applications compile to files that run in both Adobe Flash Player and Adobe AIR, both of which are full rich media runtimes supporting: video, audio, images, rich text and more. Open Source Media Framework (OSMF) is an open source ActionScript framework supporting creation of media players that support the definition and playback of complex multimedia compositions from playlists. OSMF also includes media player integration with content delivery networks (CDNs), analytics services, advertising servers and more. OSMF-based media players, like Flex applications, compile to files that run in both Adobe Flash Player and Adobe AIR. BlazeDS is an open source server that supports both messaging and network efficient transfer of large amounts of data between repositories and custom web based applications.

Greg Hamer has over two decades of experience building complex, data driven applications, and applications delivering multimedia on the web. Greg is both an Adobe Community Professional and an Adobe Certified Instructor.