Ocean Blue Software is the pioneer of open/shared source broadcast software
• Founding member of DTVKit (with Broadcom)
• Actively involved in Android / AndroidTV for 5+ years
• Working with RDK for 3 years on broadcast integration
• Providing HbbTV solutions since 2015 and developer of parts of the HbbTV Test Suite
• Creator of ORB (The Open Red Button Project).

• European Based (offices in Bristol UK & Athens Greece) and growing rapidly.
The Open Red Button Project

What Is ORB?

• Collaboratively developed by OBS and several large HbbTV members
• An HbbTV 2.0.3 browser solution leveraging the latest innovations in browser technology
• Majority implemented in JavaScript
• Facilitates the use of the default browser in the platform (Android WebView/RDK WPE)
• Royalty free with a route to full open source

The Benefits

• Lowers system costs
• Increases innovation rate
Cross Platform Reusable Core

- Injected JavaScript polyfill extending the browser frame for HbbTV
- Default JavaScript behaviour overridden where needed
- HbbTV video object polyfilled to use the browser's native HTML5 Video object for a fast start – can easily be replaced
- Other features fully in JavaScript include TTML subtitle decoder
- Small number of reusable C++ components (Application manager, parts of media synchroniser)
Reference Integrations

- Narrow integration interfaces for porting to platforms, browsers, DVB, DSM-CC, media players
- Android 11 and RDK reference integrations available
- Reference integrations use DTVKit components with binaries supplied

Android 11

RDK 4
Current Project Status

Status

- Functionally complete for HbbTV2.0.3
- MITExperts tests passed
- Android reference integration in full testing
- RDK reference in progress
- Bug fix complete in Q4 2021
- CI+ & DRM options in progress for Q1 2021
- Other options/extensions will be executed subject to Contributor support
- Will be commercially deployed in 2022
How To Get Involved

What Will The Project Cover
• Source code for reusable core & reference integrations
• Test reports for reference integration
• Option to purchase an STB running a reference integration for evaluation

ORB is a Collaborative Project
• Royalty free source code licence for Supporters and Contributors
• Supporters need only support the objectives of ORB
• Contributors must contribute to development and/or maintenance
• Ultimate objective is migrating to a full open source community
Visit our booth for more details and a demo