



You.i Engine One

Video Experience Platform



Build high performance video apps for mobile, game consoles, streaming pucks, set top boxes, and smart TVs from a single codebase

You.i Engine One is a multi-screen app platform that delivers fluid user experiences from a single codebase. You.i Engine One was built with TV and media specific features in mind, including a common video player interface, reference application and 3rd party integrations.



CROSS-PLATFORM FRAMEWORK

Leverage a hardware accelerated rendering engine that delivers fluid UI across every screen.



FLEXIBLE DEVELOPER TOOLING

Tooling to consistently build, prototype, test and deploy on every platform.



POWERFUL DESIGN WORKFLOW

Designers build and export the UI directly to the codebase for a pixel perfect app.



PURPOSE BUILT FOR VIDEO

Access to playback, reference screens, monetization models, and custom integration adapters.





Cross Platform Framework

Code with React Native

Harness React Native and its quickly growing ecosystem to develop apps – by offering JS bindings on-top of the C++ foundation.

C++ 11 Based Framework

You.i Engine One is a complete application framework that offers maximum code reuse through the use of platform independent controls and libraries.

Hardware Accelerated Rendering

Achieve true native performance through abstracted rendering pipeline that supports OpenGL, OpenGL ES, DirectX, and Custom Graphics APIs to consistently deliver rich experiences across every screen.

Flexible Native Integrations

Ability to leverage native libraries and user interface controls within your cross-platform application including prebuilt access to common platform capabilities.

Flexible Developer Tooling

Debugging

A powerful application panel for accessing tools for analyzing rendering performance, resource consumption, focus navigation, and user interface behaviors.

Platform Tools

Use the native platform IDEs and tools of your choice for application development, profiling and testing.

Build Environments

A configurable cross-platform build system that integrates with native build tools and enables simple integration of 3rd party tools and libraries.

Automated Testing

Support for automated testing using a cross platform Appium solution.



Purpose Built for Video

OTT and TVE Ready

We've bundled in all the necessary business logic, monetization and functions to support VOD or live TV – meaning you can deploy your SVOD, AVOD, TVOD or TVE apps with unprecedented speed.

Video Players

Native player support including, AVPlayer, ExoPlayer CastLabs, UWP Media Player, AVPlay. Streaming support for MP4, HLS, Smooth and Dash.

Playback UI

Full support for VOD, and Live Linear streams including playback controls, scrubbing, state based play, volume, bookmarking, subtitles, closed captioning and player surface transformation.

App Accelerators

Leverage a complete reference application that includes screens you can customize including splash, sign-in, authentication, landers, movies, shows, PDP, Search screens, and settings and more.

Integrations

Leverage abstracted integration APIs so you can use pre-integrated services or connect custom back-end services including online video platforms, content management systems, authentication, entitlements, commerce, payment gateway and analytics.



Powerful Design Workflow

Build the UI in After Effects

We combine the power of Adobe with the You.i Engine AE exporter which allows designers compose layout, skin the screens, add interactivity and animate with ease and control.

Rich Motion Design

Elevate your app to a world class experience with branded animations, beautifully fluid loaders, page transitions, button sequences, swim lanes and promotions.

Responsive Layout

Create responsive screens by setting layout anchors and type breakpoints so your UI adapts perfectly to any device type including, mobile phones, tablets, streaming pucks and TVs.

Lossless Design to Development

All screens and UI elements are exported directly into the application code base creating a user experience without any loss or development effort in the handoff from designer to developer.

Prototype and Preview

No mountain of devices needed. Designers are enabled to simulate real world conditions and devices. Preview animations, layouts, and content without touching a line of code.

Iterate Remotely

Configure your app to retrieve and update UX elements, including layout, styling and motion, dynamically from the cloud.

Framework Specifications

Platform Support	iOS Android Amazon Fire tvOS Android TV Amazon FireTV Roku Samsung Tizen Playstation 4 xBox One
Playback Type	VOD and Live Linear Video
Video Player Support	VOD, Live and Live Linear streams with support for: State Based Play Bookmarking Subtitles Closed Captioning Player Surface Transformation* *Support varies by player
Video Formats	MP4 HLS Smooth* Dash* *Support varies by player
Graphics API	OpenGL OpenGL ES DirectX
Graphics Authoring and Export	Adobe After Effects with You.i Engine AE Plugin
Video Player	AVPlayer ExoPlayer CastLabs UWP Media Player AVPlay
Language Support	React Native C++ 11
Native Platform Interfaces	Objective-C Swift Java C++ JavaScript
Language Bindings	React Native (Beta) JS (Beta)
3rd party Integration	Connect to any 3rd party via REST, C++ or Native
IDE	Works with any IDE or editor, such as Xcode and App Code
Build Environment	CMake Gradle Ruby
Testing	Debug Panel Debug code using standard native tooling of the platform Unit Testing via Google Test Automated Testing via Appium



Solution Accelerator Specifications

Business Model Support	SVOD	AVOD	TVE
Sign-In and Authentication	Sign-In Sign-up Forgot Password	N/A	MVPD Selector Webview Catalog Preview
Configuration	JSON control is offered for: App Localization Authentication Navigation Labels URI Paths Error Message Strings Layout		
Notifications and Error Message	In-App notifications message for error handling (full screen and pop-up)		
Screens	Splash Sign-in Authentication Main Lander Movies Shows PDP Player Search Settings		
Search and Filtering	Search, and filter content by category through a supported back-end service		
Watch List and Watch History	User-generated Watch List Recently Watched		
Commerce	Transact purchases and subscription services via In-App purchasing		
Analytics	Acquire analytics for: Users Content Performance Quality of Service		
Casting	Apple AirPlay		
Ad Serving	Video ad playback for: Pre Mid Post roll queue points with support for Server Side Ad Insertion (SSAI) with native platform players		
Localization	Support for Latin, Asian (CJK) Languages		
Webviews	Display external content via embedded webviews on mobile devices		
OVP	Connect to any Online Video Platform (OVP) or 3rd party service through adapter architecture via REST		
Multi-screen Support	All screens and input optimized for: Phone Tablet TV Game Consoles		

