

Sraf[®] HTML5 Browser Premium Web App Edition

The one-stop browser solution to support global premium web based applications for DTV/STB devices

Sraf HTML5 Browser Premium Web App Edition Overview

Web based application development has been gaining momentum in recent years. Cross platform availability, extended media playback features and the evolution of highly optimized web engines, are all contributing to embedded devices adopting with the industry web technologies.

TV/STB products are built on embedded systems with strict resource limitation and conventional user input. Except the well system resource management capability, it also requires specific technologies, e.g. CE-HTML, HbbTV, DRM and etc. Even more, some web based applications have their own proprietary technical requirements, which ask Browser SDK vendors to develop new runtime interfaces beyond the common industry standards.

Most of PWA(Premium Web App) applications require to sign the commercial agreements or contracts between manufacturers and content service providers. Even more, some specific valuable PWA applications require manufacturers to pass their own certification verification, which shall be clearly defined in the agreement or contract. It is highly recommended that manufacturers shall settle down or at least have plan to deal with the necessary commercial agreement or contract before products with Sraf HTML5 Premium Web App Edition are launched.

SERAPHIC, the leading digital TV browser technology provider, is the pioneer to bring the most advanced Chromium/Blink onto Linux embedded platform. By leveraging the powerful HTML5 browser core and co-working with mainstream TV SoC vendors, SERAPHIC offers the highly optimized PWA application runtime environment with support of the industry standards, e.g. HTML5, HbbTV, CE-HTML and etc.

Sraf Premium Web App solution has well-designed architecture, which allows manufacturers to easily integrate web based applications with native TV applications via traditional TV menus. Meanwhile Premium Web App solution supports application reconfiguration after product launched onto market, that brings manufacturers the capability to freely adjust PWA application support list after product deployment.

Sraf Premium Web App solution is based on the solid browser experience of SERAPHIC and verified with the mainstream SoC providers as pre-built solution. It is proved to be the valuable function portfolio for the smart DTV/STB products.



Figure 1. Golive powered by Sraf HTML5 Browser
Copyright Golive content: Golive

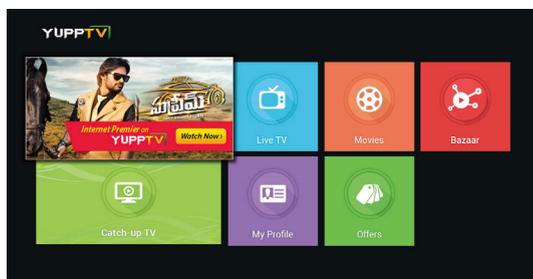


Figure 2. Yupp TV powered by Sraf HTML5 Browser
Copyright Yupp TV content: Yupp

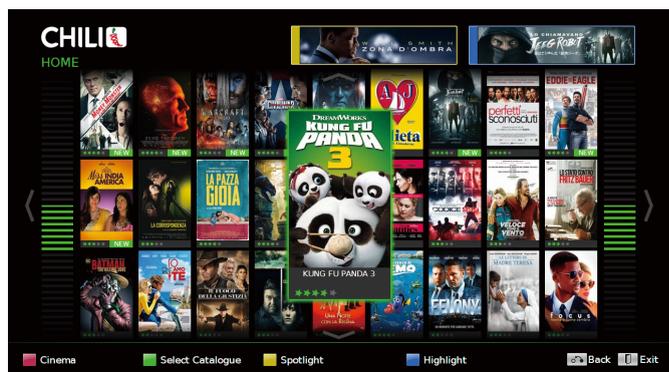


Figure 3. Chili TV powered by Sraf HTML5 Browser
Copyright Chili TV content: Chili TV

Specification

Applications Highlights

All 4
 AccuWeather
 Amazon*
 BBC iPlayer*
 BBC News*
 BBC Sports*
 CinemaNow*
 Chili TV*
 Crackle
 DailyMotion
 Facebook
 Flickr
 Golive
 GoogleMap
 Hulu
 ITV*
 icflix
 LA NACION
 Maxdome*
 Mediaset*
 My5*
 Pandora*
 Picasa
 SBS
 Spuul
 Stan
 ShowMax
 STV*
 Terra TV
 Toon Goggles
 Twitter

UKTV*
 Videociety*
 Yupp TV
 Wuaki*
 Xumo

*Certification required by the content service provider.

Product Compliances

HTML5
 HbbTV AVControl, Configuration, Capabilities, DRMAgent
 CE-HTML
 MSE
 WebAudio

HTML5 Browser Core Features

HTML5 (Canvas, Web Storage, Web Components, WebRTC, Web Workers, Web Socket, Audio/Video Tags, Server-Sent Events, Web Cryptography API, Web Animations, WebAudio, WebGL, etc.)
 HTML4.01 (XHTML 1.1, XHTML Basic 1.1, XML 1.1, RSS feed, etc.)
 CSS3 (3D Transforms, CSS3, Animations & Transitions, CSS3 Media Queries and Selectors, CSS3 Opacity, CSS3 Outline, CSS3 Background)
 CSS2.1, CSS1
 XHTML 1.1
 Image support: GIF, JPEG, PNG, SVG
 Smooth Streaming, HLS, DVB DASH
 HTTP Caching, Redirect, Cookies, User-Agent

Supported CPUs

ARM
 MIPS

Memory Requirements

ROM: > 43MB (ARM Linux)
 RAM: > 128MB

Documents

Sraf HTML5 Browser Integration Guide
 Sraf MediaPlayer Adaptor API Specification
 Sraf Premium Web App Client API Specification
 Sraf Premium Web App Server User Guide

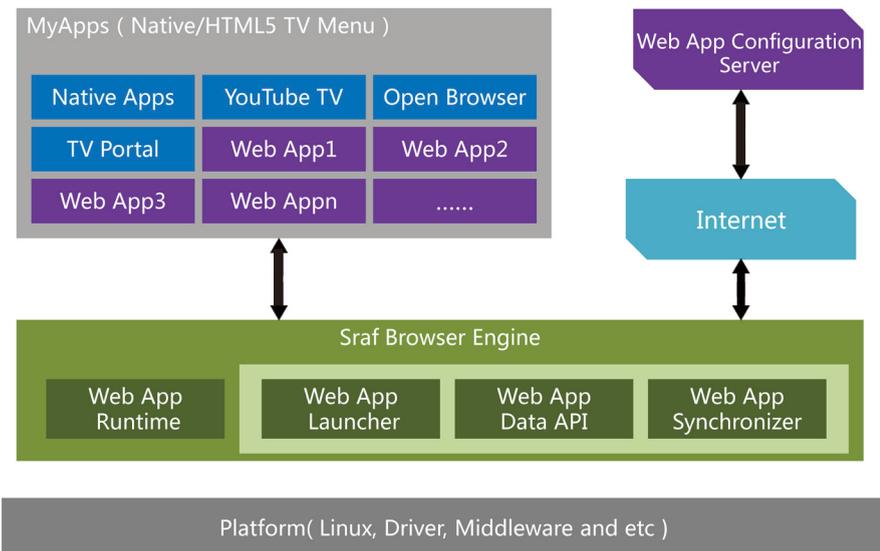


Figure 4. Sraf HTML5 Browser Premium Web App Edition Module Diagram