

# Sraf® HTML5 Browser TV Portal Edition

The world leading browser solution to enable global TV portals on Smart DTV and STB devices

## Sraf HTML5 Browser TV Portal Edition Overview

TV portals connect manufacturers and content service providers to provide one uniform entree on smart TV devices. TV portal providers sign the commercial contract with content providers so that they can sublicense content providers' services to manufacturers. Manufacturers don't have to sign contract with each content providers to enable the global content on their own smart devices after they sign one contract with TV portal providers. It can dramatically shorten the time to market even manufacturers launch smart TV devices in dozens of countries.

To make all content services running well on different embedded TV devices, TV portal providers usually refer to the industry standards to define a specific set of technical requirements that are applicable to all content providers while they are developing web TV applications. The most important key to deploy TV portal on target devices is that TV portal providers shall work with browser vendors to provide the uniform TV application runtime environment cross browser-chipset combinations.

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 providers, SERAPHIC offers the highly optimized TV portal application runtime environment with support of the industry standards, e.g. HTML5, HbbTV, CE-HTML and etc.

SERAPHIC started to work with the major TV portal providers years ago. From the beginning, SERAPHIC targets to support all the mandatory technical requirements that are defined in the TV portal providers' specifications. The technical compliance capability is guaranteed by the test suites provided by TV portal providers. SERAPHIC communicates with TV portal providers very well and supports the pre-integration with the TV portal applications provided by TV portal providers from the initial stage of product developments. With the pre-integration benefit, manufacturers can launch Smart TV products with TV portal supported in an extremely short time, even in weeks on pre-integrated platforms.

Sraf HTML5 Browser TV portal Edition has been commercially deployed for dozens of customer projects with the world famous TV/STB manufacturers, e.g. Sharp, Hisense, Skyworth, Changhong, Haier and etc. Smart TV products with Sraf HTML5 Browser TV portal Edition have been already shipped for millions in over 40 countries. As the market-proven and wide-deployed TV browser, Sraf HTML5 Browser TV portal Edition is the best choice for manufacturers to develop smart TV/STB devices!

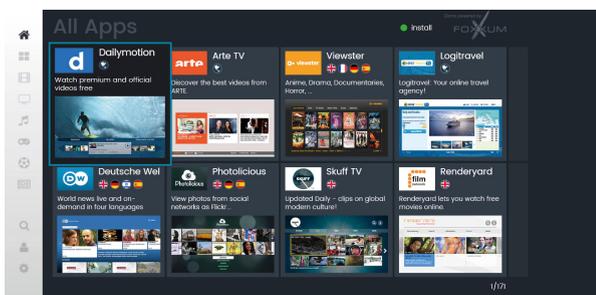


Figure 1. Foxxum TV Portal powered by Sraf HTML5 Browser  
Copyright Foxxum GmbH TV Store content: Foxxum

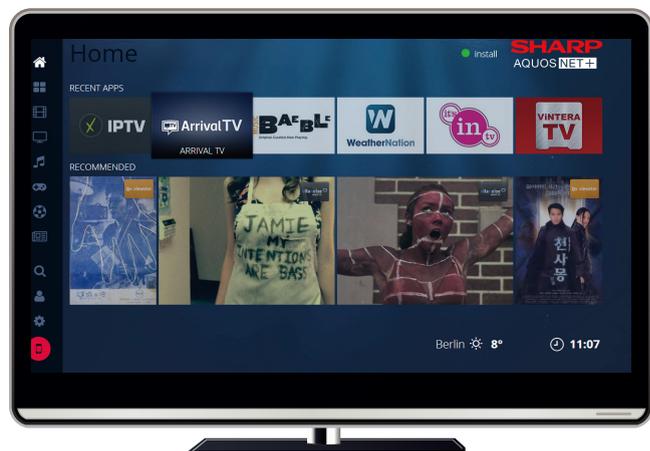


Figure 2. Foxxum TV Portal powered by Sraf HTML5 Browser  
Copyright Foxxum GmbH TV Store content: Foxxum



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

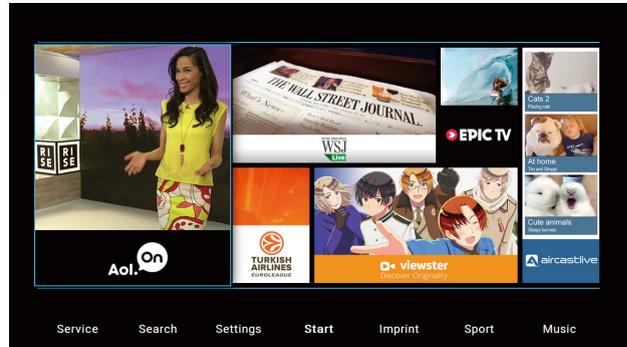


Figure 4. NetRange TV Portal powered by Sraf HTML5 Browser  
Copyright NetRange TV Portal content: NetRange

## Specification

### Product Highlights

Support Foxxum TV Portal  
Support NetRange TV Portal\*  
Support Ericsson TV Portal  
Support Zeas TV Portal  
\*via customer projects

### Product Compliances

HTML5  
HbbTV AVControl, Configuration, Capabilities, DRMAgent and etc  
CE-HTML  
MSE and EME  
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.)  
XHTML 1.1  
CSS3 (3D Transforms, CSS3, Animations & Transitions, CSS3 Media Queries and Selectors, CSS3 Opacity, CSS3 Outline, CSS3 Background)  
CSS2.1, CSS1  
Image support: GIF, JPEG, PNG, SVG  
Smooth Streaming, HLS, DVB DASH  
HTTP Caching, Redirect, Cookies, User-Agent

### Operation Systems

Linux  
Android

### Supported CPUs

ARM  
MIPS

### Memory Requirements

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

### Documents

Sraf HTML5 Browser Integration Guide  
Sraf Mediaplayer Adaptor API Specification  
Sraf TV Portal Integration Guide

