



Opera Devices SDK 2.8

Connected TV within your reach

As a robust, open platform for creating web-standards-based solutions, the Opera Devices SDK™ platform forms the ideal foundation not only for developing full web browsers and user interfaces, but also for generating connected TV solutions that combine web applications and widgets and full web browsing with emerging standards for making TV interactive, such as HTML5, HbbTV and OIPF.

Opera for HbbTV

Emerging industry standards are specifying a unified way to render and serve IPTV or hybrid broadcast/broadband services to TVs and TV-connected devices (STBs, Blu-ray players, etc.) HbbTV is one, which is an aggregation of components from different standards, such as CE-HTML, CEA-2014, DVB, W3C and OIPF. With the HbbTV option, Opera Devices SDK provides an “out-of-the-box” solution for displaying and running “red button applications” and other HbbTV portals and applications.

Web standards

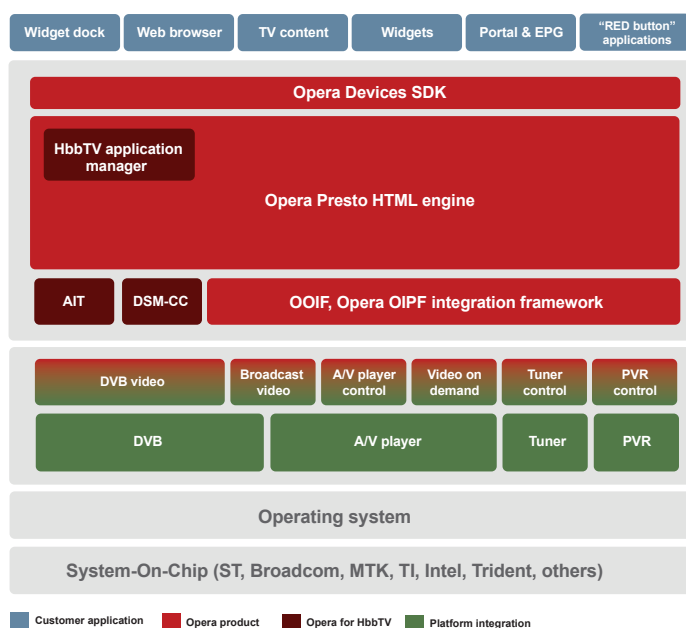
Opera is continuously working to improve its support for web standards. With CSS3 Transforms, DOM elements can now be animated, scaled, skewed, rotated and translated in a very simple manner.

Video and audio support

Opera Devices SDK implements the new HTML5 video and audio elements for full compatibility with modern multimedia web content. With OIPF integration, Opera Devices SDK also implements the CE-HTML video element for HbbTV and OIPF compatibility.

Increased performance

Opera Devices SDK uses our most recent core, Opera Presto, which powers the latest Opera™ desktop browser. JavaScript also enjoys significantly improved performance. There are also improvements in CSS, DOM, Canvas and SVG. Opera also uses hardware acceleration, using DirectFB to speed up rendering and animations on many platforms.



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Uniquely positioned to deliver the best Internet experience on any device

Extensions

Define new, native JavaScript objects and methods to control device functions and create advanced UIs and applications based on web technology. Integrate native plug-ins with the Netscape plug-in API (NPAPI) to bring web surfing on devices to a new level.

Open IPTV Forum (OIPF) integration

Using standards defined by OIPF, it is possible to let web applications and widgets access TV functionality, such as tuner, PVR and EPG. With OIPF, applications using such features can be compatible across different platforms and devices.

Opera Widgets for TVs*

Explore the potential of the widget engine and allow TV viewers to manipulate popular or context-sensitive web content. Our acclaimed TV widgets demo, a high-quality source of inspiration for commercial development, now includes web-browsing capability as the perfect complement.

Opera Turbo**

Our Opera Turbo™ compression technology is designed to speed up data transfer and reduce the amount of data required to view a webpage. Opera Turbo proxy servers save, on average, 65-75% on bandwidth. Opera Turbo guarantees an uncompromised experience for your users, even when surfing the Web in slow-performing, wireless-network areas.

Opera Dragonfly

With the remote debugging functionality in our Opera Dragonfly™ tool, web developers and content creators can connect the Opera Dragonfly client in the Opera desktop browser to the Opera browser running on an actual device, such as an STB, and debug content live in the browser. This includes JavaScript debugging, RAM analysis, HTTP logs and other debug options.

* demo

** beta quality

Other support

Opera Devices SDK provides support for extended validation certificates, fraud protection, localization, Speed Dial, safe memory handling, site patching, web fonts, SVG 1.1, SVG Tiny 1.2, etc.

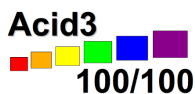
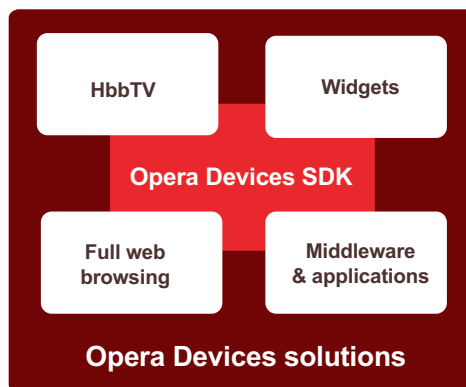
A glimpse inside Opera Devices SDK 2.8:

- Powerful and documented APIs for easy integration in your device; source code of reference examples for UIs, JavaScript extensions, plug-ins, etc.
- Membership in OSP, OIPF, DTG and HbbTV forums coupled with concrete roadmap developments
- Available on Linux | Other platforms on request
- Preported to ARM (Freescale, Texas Instruments) | MIPS (Broadcom, Trident, Sigma Designs) | SH4 (ST Microelectronics) | Intel
- 2-15MB per runtime | 1-5 MB per widget | 2-10 MB per open tab
- Footprint on Linux: ARM 7MB | MIPS 12MB | SH4 7MB | x86 8MB

Some of the web standards supported by Opera Devices SDK 2.8:

HTML 4.01, 5 (draft) | HTML5 video | XHTML Basic, 1.0, 1.1 | Web Forms 2.0 | WML 1.3 and 2.0 | XML | CSS Level 1, 2, CSS3 | DOM 2, 3 | <canvas> | HTML 5 Forms | HTTP 1.0, 1.1 | SSL 3 and TLS 1.0, 1.1, 1.2 | Unicode and legacy encodings | SVG 1.1 Basic and 1.2 Tiny, CSS TV, HbbTV

An exhaustive list of web specifications is available at: <http://www.opera.com/docs/specs/>.



Opera Devices SDK is 100% Acid3 compliant

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