



Opera Devices Content Development Kit (CDK)

The Opera Devices Content Development Kit (CDK) is designed to give any web developer the power to create content for TVs and other Internet-connected devices without access to the physical device for which s/he is creating the content. The CDK enables development of HTML5 and HbbTV-enabled content, meant for deployment on a variety of different devices, directly on the Linux PC platform.

The challenge

The growing demand for TV applications and widgets has necessitated content development that has not always been easy for developers to create and implement at a pace that kept up with the market. With different, shifting standards, creating applications for TV – as well as other kinds of connected devices – has posed a challenge.

The Opera Devices CDK addresses this challenge and helps developers write content that complies with common industry standards/specifications, such as W3C, HbbTV, OIPF and CEA-2014, which ensures that this content can be developed once, deployed everywhere. This content can be deployed across Opera TVs and ultimately on any device that runs the Opera browser.

What the CDK offers

Because the CDK supports all Opera Devices features, development and debugging of applications for Opera-enabled devices is simplified.

Opera Devices CDK features

- Support for all features of the Opera Devices SDK
- HTML/CSS/JavaScript/DOM, etc.
- SVG, Canvas
- W3C Widgets
- HTML5 <video> and <audio>
- Install and run W3C widgets
- Set screen-size tailored to target device
- Easy to test any web page (insert the URL in the address bar)
- Debug with Opera Dragonfly

What the CDK contains

- x86 binary
- Sample widgets and application code
- Extensive documentation on how to use and configure the CDK
- Descriptions of how the Opera SDK works on target
- Overview of issues that may vary between platforms and devices, and how to cope with these in content development
- Guidelines on how to develop and optimize content for TVs

The Opera CDK is easily downloaded from <http://dev.opera.com> and can be installed on a standard x86 Linux PC.

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Content everywhere

Why Opera Devices CDK?

The Opera Devices CDK gives CDK users a number of tools that will make content creation and distribution, especially for TV, much easier.

Content developers gain an effective and direct way to develop, test and debug portals, applications, widgets and web pages for TV. The CDK is also valuable for Opera partners specifically creating content for devices using the Opera browser. Additionally, OEMs and operators can choose and use the CDK as a "reference implementation" to ensure that Opera works as they expect.

Benefits

Web developers

- Faster time to market with reliable, fine-tuned applications
- Troubleshoot problems, such as "out of memory" and performance issues
- Develop cross-platform applications that work out-of-the-box on any device running Opera
- Verify applications in a simpler and more controlled environment

Content service providers

- Start testing and debugging services without access to physical devices
- Develop content services targeting all Opera-powered devices

OEMs

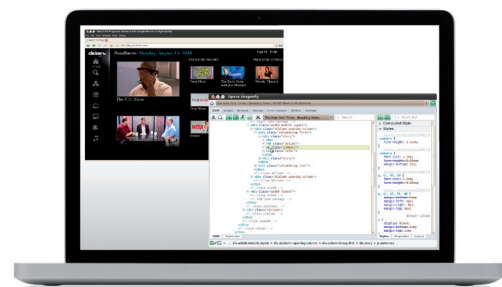
- Verify their own Opera integration using the CDK as reference
- Test and debug content from sub-contractors

Silicon vendors

- Verify their own Opera integration with the CDK as reference

Middleware/UI vendors

- Verify their Opera integration
- Test and debug their content in a controlled environment



Content development for TVs

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