NetFront™ Browser BE

Embedded Chromium Blink based HTML5 Browser SDK supporting HbbTV, Freeview Play, Hybridcast and YouTube

NetFront™ Browser BE is an advanced HTML5 browser for smart TV, STB, game consoles and automotive in-vehicle infotainment (IVI) systems providing

- Connected Device Software Development Kit (SDK)
- Best in class performance & improved stability
- Worldwide TV standards and OTT video portals support
- 3rd party media player APIs, including EME/MSE
- Available for Linux, Android and embedded OS

NetFront Browser BE for Connected TVs

NetFront™ Browser BE has been engineered to leverage the Chromium Blink HTML5 engine for embedded platforms, with ACCESS providing enhanced capabilities based on experience from being deployed in over 1.5 billion units worldwide. ACCESS extensions include unique APIs to enable support for custom media players from SoC vendors, middleware providers and industry specialists for the best video quality. The inclusion of the Chromium Embedded Framework v3 APIs enhances the NetFront Browser BE Software Development Kit (SDK) by including a standard set of functionality and API. NetFront Browser BE is offered as a comprehensive commercial grade SDK complemented by world-class engineering support, professional services and documentation.

The Engine of Next Generation User Experience

NetFront™ Browser BE enables SoC vendors, connected TV manufacturers and Operators to leverage today's high performance platforms to deliver an enhanced, standards based UX to their customers. It supports the necessary functionality from HTML5 (Canvas 2D, SVG, etc.), CSS3 (3D Transforms, Animations, Transitions, etc.) and WebGL, whilst enabling STB/DTV manufacturers to take full advantage of hardware capabilities.

Enhancing the core HTML5 standards support NetFront™ Browser BE supports feature rich applications and premium content by supporting W3C Media Source Extensions (MSE) and Encrypted Media Extensions (EME) to enable the use of Digital Rights Management (DRM). By providing external media player APIs, including a media decoder framework, NetFront Browser BE enables quick integration of third party media players and the ability to utilize hardware accelerated decoding for services that utilize EME, such as YouTube.

HTML5 and DTV Standards Support

Support is available for worldwide DTV standards including HbbTV 2.0.1, ARIB STD-B62/TR-B39 (2nd generation digital broadcasting) and Freeview Play 2017, and ACCESS understands the needs for YouTube on TV certification. Additional support for other OTT services ensures SoC vendors, device manufacturers and operators can provide the services their customers need.

The Power of Two Billion

NetFront™ Browser BE leverages ACCESS' market-proven experience and browser technologies that have been successfully deployed in over two billion devices throughout the world. Optimizations have been applied to enhance general memory consumption and a framework has been developed to enable

vendors to improve system stability in low memory situations. An innovative in-process plugin framework enables ACCESS customers to simplify the development additional functionality and extension APIs within the complex multi-process browser architecture. Security extensions to restrict downloaded content have also been developed.

Key Features and Benefits

- **Commercial grade engine: Chromium Blink** engine, enhanced with ACCESS technology and experience deployed in over 1.5 billion units worldwide
- **Highly optimized code size**

Markup & Style Sheets

- HTML5 (Audio/Video tags, Canvas, Web Workers, Web Storage, etc.)
- CSS1, CSS2, CSS3 (Media Queries, Animations, Transforms, Transitions, etc.)

Security

- TLS1.2
- NSS
- Configurable digital certificates
- Extended Validation
- Elliptic Curve Cryptography

Scripting

- ECMAScript6

Browser SDK Features

- Embeddable HTML library
- Chromium Embedded Framework (CEF)
- Cookie Management
- Configurable dynamic memory usage
- Cache Management
- Tabbed browsing support
- Page history
- Configurable error pages

Supported CPU architectures

- ARM®, Intel/x86, Android, Linux, QNX

Device Classes

- Connected TVs
- Set-top Boxes (IP and Hybrid)
- PVRs / DVRs
- Game Consoles
- HDMI sticks & Internet Media Players
- Automobile In-Vehicle Infotainment (IVI) Systems
- Other Connected Appliances

Memory Usage

- Code Size (32-bit): ~

Back to top

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NetFront™ Browser HbbTV Solutions

NetFront™ Browser NX Automotive Profile

NetFront™ HTML5 Platforms for Automotive