NetFront™ Browser HbbTV Solutions

Chromium Blink and WebKit based browser SDKs for SoC vendors, smart TV platforms, manufacturers and middleware providers

HbbTV 1.5, HbbTV 2.0.1 and UK Freeview Play 2017

ACCESS enables our customers to quickly and effectively launch devices where HbbTV based solutions are required. NetFront™ Browser Software Development Kits (SDKs) are market-leading, high performance HTML5-capable HbbTV browser solutions that enable SoC vendors, device manufacturers, middleware companies and operators to quickly and affordably provide HbbTV capable devices for standards based connected services.

 German "Das Erste" live HbbTV service presented by NetFront™ Browser HbbTV. Copyright HbbTV content: ARD Digital.

Market-Leading HbbTV Software Solutions

ACCESS provides the most advanced and versatile HTML5 browser portfolio available from any commercial browser vendor. Delivered as embedded Software Development Kits (SDKs) for smart TVs, set-top boxes and other IP-connected devices, ACCESS' NetFront™ Browser solutions are widely recognized worldwide as one of the leading browsers in the connected TV and game console markets.

As the key module in a complete HbbTV package, the NetFront Browser solutions present and HbbTV applications to consumers. An HbbTV application is an associated collection of documents (typically JavaScript™, CSS and HTML) blended with the content from the broadcast DSM-CC Object Carousel to provide the consumer with the interactive services they now come to expect.

ACCESS' solutions provide a true choice of the Chromium or WebKit HTML5 engines for support of HbbTV standards. Solutions are available for both HbbTV 1.5 and HbbTV 2.0.1. Regional or country specific standards such as Freeview Play 2017 in the UK, which is based on HbbTV 2.0.1 are also supported.

Extended support for reduced code size and run-time memory footprint, custom media players, JavaScript extensions and enhanced security mean that the NetFront Browser family is the best choice for HbbTV and HTML 5 platforms.

Core Feature Highlights

- **HbbTV 1.5** and **HbbTV 2.0.1**
- **UK Freeview Play 2017**
- **Optimised integrations** with Chromium or WebKit engines
- **Embedded SDKs**, ready for middleware integration
- **Hardware acceleration** (GPU) support
- Enhanced by ACCESS technology **deployed in over 1.5 billion units**
- **JavaScript JIT*** for improved performance
- **Browser plugins** support
- **jQuery**
- **WebGL**
- **CORS**
- **HTML5** (Audio/Video tags, Canvas, Forms, Web Workers, Web Storage, Application Cache, etc.)
- **CSS3** (Opacity, CSS3 3D Transforms, Animations, Transitions, Media Queries and Selectors, etc.)

HbbTV Features

- HbbTV 1.5 / HbbTV 2.0.1
- Freeview Play 2017
- DIAL and Companion screen
- CE-HTML Profiling Extensions (CEA-2014A) for HbbTV 1.5
- dvb:// support

JavaScript APIs

- Video/Broadcast Object
- Parental Ratings Scheme
- Configuration and Settings
- Content Download
- Debug Print
- DRM Agent
- Time-Shift
- ChannelList/Channel
- DSM-CC Stream Event Listener
- XML AIT
- Scheduled Recording
- Application Management
- DVB-SI EIT Schedule Information for HbbTV

CE-HTML Profiling (HbbTV 1.5)

- Window/UIContentFrame Scripting Object
- "keypress" Events
- CSS3 UI Directional Focus Navigation
- CSS3 Outline Properties
- Extensions of Audio/Video Objects
- Other mandatory Elements from CE-HTML Profiling

Interfaces

- Access to DSM-CC Contents (integration needed with middleware DSM-CC client)
- Access to AIT (integration needed with middleware AIT filter)
- HbbTV Event Peer and Query & Command Peer

- Multimedia Interface
- NetFront Browser Porting Peers

Optional

- HbbTV Application Lifecycle Management (ALM)

*JavaScript JIT available for selected platforms

Browser Specifications

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

Scripting

- ECMAScript6

Browser SDK Features

- Embeddable HTML library
- Configurable dynamic memory usage
- Cookie- & Cache Management
- Tabbed browsing support
- Page history
- Configurable error page

Supported CPU architectures

- Intel, ARM®, MIPS, SH
- Linux, QNX, Android

Device Classes

- Connected TVs
- Set-top Boxes (IP only and hybrid)
- PVRs / DVRs
- Automobile Infotainment Systems
- Other Connected Appliances

Memory Usage

- Chromium : Code Size:

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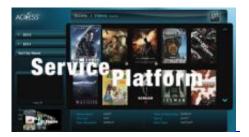
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NetFront™ Browser NX

Webkit-based HTML5 browser demo video

Related downloads

Product brochure (PDF, 639 KB)

ACCESS HTML5 White Paper

Whitepapers

Download the Verimatrix and ACCESS Multiscreen in 2017 Whitepaper

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NetFront Browser NX DTV Profile