

Java Scrip Plugin for Opera Browser

Application Note

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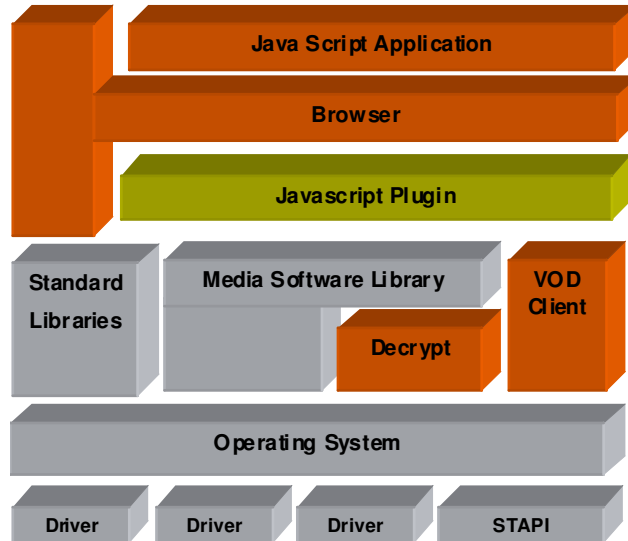
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Overview

Based on the Opera Browser Albis Technologies provides a flexible way to integrate browser based middleware application on Albis Technologies STB series. The Opera Browser Version 9.6 is optimized for the STB particularly regarding graphics integration.



A plug-in allows accessing the STB functionality via JavaScript. The Opera browser interpreting the scripts is part of the Albis Technologies SW image.

The functionality of the Plug-in includes:

- Access to almost the entire Albis Technologies media library functions for media handling
- Support for generic VOD clients.
- Administrational functions such as restart of the box and retrieving information such as the IP address and more.
- Access to the persistence section on the box in order to persistently store box specific information.

Graphics

The graphics handling provides the following characteristics:

- Graphics plane is on top of the video plane
- Transparency can be achieved by use of alpha blending
- The video plane can be made visible using color keying (switchable)

Java Script API

The JavaScript API exposes the following functionalities.

Asynchronous call backs for various events

- Player notification
- Recorder notification
- DVB scan complete
- DVB scan failed
- DVB scan found channel

- DVB scan channel update
- Execution result
- Reporting Key Events

General functionality

- Registration for various call backs
- is a DVB box
- is a box with a hard disk
- get hardware version
- get software version
- get mac address
- get IP address
- set content protection of SD or HD
- reset
- set standby or normal mode
- switch color key

Playing Video Streams

- play/stop
- set play speed
- get supported play speeds
- get playback info
- scale Video
- seek

Recording Video Streams

- recording Start
- recording Stop
- get Recording Info
- recording delete
- get list of recordings

Time shift TV

- start/stop
- return to live TV
- fix Ring buffer size

Audio handling

- set default audio language
- get number of audio streams
- get audio stream Info
- change audio stream
- set digital audio
- mute/unmute

Video Output Configuration

- set TV Format
- set aspect ratio conversion
- set and get HD output resolution

Teletext functions

- enable
- input digit
- get index of page
- get page

- get previous / next page
- floc buttons
- toggle hold
- toggle transparent
- toggle reveal
- toggle double size

Transport stream statistics

- get packets received
- get packets lost

DVB

- start / stop channel scan
- get available services
- get service Info
- get tuner start frequency
- get tuner end frequency
- get signal info
- get bit error rate and signal to noise ratio
- get current service
- get now and next information
- set Antenna feed on / off