

OREGAN TV WEB BROWSER & UI

Incorporating
Oregon TV Browser 2.0

Incorporating
Oregon TV Browser 3.0

Networking Connectivity

IPv4	☺	☺
IPv6	☺	☺
HTTP, TCP, UDP	☺	☺
PPP, PPPoE, PPPoA	☺	☺
DHCP, Static IP	☺	☺

Note: exact networking features are dependant on hardware platform IP stack availability

Web Content and User Interface Authoring Formats

HTML 4.01	☺	☺
CSS-1	☺	☺
CSS-2		☺
CSS-TV		☺
DOM-0	☺	☺
DOM-2		☺
XHTML		☺
XML		Partial
DHTML		☺
JavaScript 1.5	☺	☺
Frames	☺	☺
I-Frames	☺	☺
SSL 3.0 128-bit encryption for secure transactions	☺	☺

Web Media Formats

Macromedia Flash 4.0 compatibility	☺	☺
Macromedia Flash 5.0 / 6.0 compatibility		Option
JPEG with progressive download	☺	☺
GIF including animated	☺	☺
PNG	☺	☺
PNG with 8-bit alpha mask	☺	☺
Wave (WAV) and AU	☺	☺
MP3 software decoder	☺	☺

Usability Features

Persistent cookies	☺	☺
History, including frame context history	☺	☺
Automatic URL completion and prediction	☺	☺

International Language support

English and US (Unicode / ASCII / UTF / ISO)	☺	☺
ISO-Latin-2 European languages - German, French, Italian, Spanish etc	☺	☺
Japanese (EUC / JIS / Shift-JIS)	Option	Option
Simplified Chinese (GB / HZ)	Option	Option
Traditional Chinese (Big5)	Option	Option
Korean (UKSC)	Option	Option
Thai (TIS)	Option	Option
Arabic (including Bi-directional display and input)	Option	Option
On-screen keyboard or physical keyboard Input Method Editors (IME)	Option	Option
Remote control predictive text Input Method Editors		Option

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Navigational Methods

Free roaming pointer (thumbpad / trackball / mouse / dualshock)	☺	☺
Fixed cursor navigation (remote control - up / down / left / right)	☺	☺

Television Display Optimisation

NTSC, PAL and SECAM rendering optimisation	☺	☺
TV resolutions 480i, 480p, 720i, 720p, 1080i (or VGA, SVGA, XGA)	☺	☺
Widescreen 16:9 or regular 4:3 aspect ratios	☺	☺
User controlled TV safe area adjustments	☺	☺
Scaleable vector fonts optimised for TV	☺	☺
Interlaced antiflicker filter control	☺	☺

Interactive / Embedded TV Control

Picture-in-Picture support controlled with ATVEF tags	☺
Alpha-blending of video with graphics controlled with ATVEF tags	☺

OREGAN DLNA PLAYER & SERVER

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Networking and Content Discovery (Intel NMPR 1.0 validated)

	☺
UPnP AV 1.0	☺
UPnP AutoIP (fallback from DHCP)	☺
UPnP integrated Content Directory Services	☺
UPnP Control Point	☺
Wireless 802.11a/b/g networking with WEP / WPA	☺
Wireless network site survey and selection	☺
Powerline networking (HomePNA)	Option

Digital Home Media Formats

Photo : JPEG, JPEG 2000, TIFF, BMP, PNG, GIF	☺
Audio : LPCM, WAV, AU, MP3, AAC, WMA, OGG Vorbis	☺
Video : MPEG-1, MPEG-2, MPEG-4, DivX, Xvid, WMV9, H.264, DV	☺
Note : audio and video format support depends on hardware platform codec availability	

Playlists and Slideshows

ASX / M3U playlist formats	☺
User controlled photo slideshows with audio	☺
Photo zoom and rotation	☺
Customisable screensaver	☺

Metadata Display in Media Status Toolbar

MP3 file ID3 tags	☺
Digital camera photo data	☺
Integration with CDDB / Gracenote	Option

Premium Content Delivery Protocols and DRMs

Real Rhapsody	☺
Internet Radio	☺

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Networked DVD Integration

Unified user interface for DVD navigator and DMA	☺
Access to local DVD-R / CD-R / USB storage device content	☺

Windows XP Host Stack (Intel NMPR 1.0 validated)

UPnP AV 1.01 host stack	☺
Content Directory Services database	☺
Oregon video server for HTTP based streaming (RTP ready)	☺
Trick modes (PAUSE / REW / FF) controlled from client	☺
Realtime bitrate transrating of media streams for QoS purposes	☺
Back Channel Manager (BCM) for dynamic control of transrating	☺
Realtime transcoding of media formats not supported natively by client	☺
WMV9 to MPEG-2 transcoding	Option
DV to MPEG-2 transcoding	Option
Discovery of content on multiple servers and Windows file shares	☺
Support for multiple CDS databases for premium content services	☺

OREGAN IPTV & VOD CLIENT

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Broadband IP Video Streaming

Video streaming client over UDP and TCP	☺
RTSP client for stream control and trick modes (PAUSE / REW / FF)	☺
Multicast and IGMP support for IPTV delivery	☺

Telco Grade VOD / IPTV Server Support

Kasenna MediaBase XMP support pack	☺
Tripleplay IPTV Server support pack	☺

**MAINTENANCE & 3RD PARTY
 DEVELOPMENT TOOLS**

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Remote management and upgrade of middleware	☺
HTML user interface 'skin' with Windows based SDK for customisation	☺
Middleware Plugin API for third party application development	☺
Oregon Abstraction Layer SDK for new hardware platform porting	☺

SYSTEM HARDWARE REQUIREMENTS

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Embedded device processor	100 MIPS	150 MIPS
Minimum storage footprint (flash)	2MB	4MB
Minimum execution memory (SDRAM)	16MB	32MB
Windows PC Server requirement (for home networked DMA)	800 MHz PC Windows XP	