

OREGAN TV WEB BROWSER & UI

Incorporating
Oregon TV Browser 4.0

Web Content and User Interface Authoring Formats

HTML 4.01	✓
XHTML 1.0	✓
CSS-1	✓
CSS-2	✓
CSS-TV	✓
DOM-0	✓
DOM-2	✓
Open Widgets	✓
JavaScript 1.8	✓
Dynamic HTML	✓
AJAX Engine with XML-HTTP-Request	✓ *
Frames and I-Frames	✓
SSL 3.0 128-bit encryption for secure transactions	✓
XML	✓

Web Media Formats

Adobe Flash 8.0 compatibility	✓ *
JPEG with progressive download	✓
GIF including animated	✓
PNG with 8-bit alpha mask	✓
WAV and AU software codec	✓
MP3 software codec	✓

Usability Features

Persistent cookies	✓
Bookmarks	✓
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, Spanish etc	✓
Japanese (EUC / JIS / Shift-JIS)	✓ *
Simplified Chinese (GB / HZ)	✓ *
Traditional Chinese (Big5)	✓ *
Korean (EUC-KR and KSC-5601)	✓ *
Thai (TIS)	✓ *
Arabic (including Bi-directional display and input)	✓ *
On-screen keyboard or physical keyboard Input Method Editors (IME)	✓ *
Remote control predictive text Input Method Editors	✓ *

Navigational Methods

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

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Television Display Optimisation

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

Interactive / Embedded TV Control

Picture-in-Graphics support controlled with ATVEF or DVB-HTML tags	✓
Alpha-blending of video with graphics controlled with ATVEF tags	✓

Networked Services Alerts

Skype message and call alerts with Caller ID	✓
Incoming email alerts from MS Outlook	✓

Networking Connectivity

IPv4, IPv6	✓
HTTP, TCP, UDP	✓
DHCP, Auto IP, Static IP	✓
PPP, PPPoE, PPPoA compatible	✓

Note: networking features are dependant on target hardware platform IP stack

OREGAN DLNA PLAYER

UPnP AV 1.01 Client for Embedded Devices

UPnP AV Control Point	✓
UPnP AutoIP / DHCP auto switch	✓
Interoperable with Windows Media Connect 2.0 & any DLNA compliant server	✓

Home Networking Options

10 /100 base-T wired Ethernet	✓
Wireless 802.11a/b/g networking with WEP / WPA support	✓
Wireless network site survey and selection	✓
Powerline networking (HomePlug 1.0) support	✓

Digital Home Media Formats

Photo : JPEG, TIFF, BMP, PNG, GIF	✓
Audio : LPCM, WAV, AU, MP3, AAC, WMA, OGG Vorbis	✓
Video : MPEG-1, MPEG-2, MPEG-4, DV, DivX, XviD, WMV9, VC1, H.264	✓

Note: audio and video format support depends on target hardware platform chipset support

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Playlists and Slideshows

M3U / ASX / WAX playlist formats	✓
User controlled photo slideshows with audio	✓
Photo zoom, rotation, pan and scan	✓
Smooth transitions and fades	✓
Customisable screensaver	✓

Metadata Display in User Interface

MP3 and WMA file metadata used for content indexing	✓
Digital camera photo data displayed	✓
Integration with FreeDB, GraceNote and Muze metadata	✓

Online Content Services and Content Protection

Microsoft PlaysForSure services via Microsoft DRM-10 (Cardea & Janus)	✓ *
Windows Media Center 'Spotlight' applications via Remote UI	✓ *
Intel® Viiv™ and AMD® Live server interoperability	✓ *
DTCP / IP Link Protection	✓ *
Oregon Online Apps - EPG, Internet Radio, Weather, RSS News	✓ *

Networked DVD and Local Storage Integration

Unified user interface for DVD navigator and networked media access	✓
Navigator for local DVD-R / CD-R / HDD / USB / Memory card content	✓

Oregon DLNA SERVER

UPnP AV 1.01 Server for Embedded Devices

UPnP Content Directory Services	✓
Media management application for specifying content shared to client	✓
Video server for HTTP based streaming	✓
Trick modes (PAUSE / REW / FF) controlled from client	✓
Realtime bitrate transrating of media streams for QoS purposes	✓ *
Realtime transcoding of media formats not supported natively by client	✓ *

Oregon IPTV CLIENT

Broadband IP Video Streaming

Media player for streaming video over UDP and TCP	✓
RTSP client for VOD stream control and trick modes (PAUSE / REW / FF)	✓
IGMP based multicast for linear IPTV service delivery	✓

OREGAN IPTV CLIENT
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Carrier Grade Video Server and Encoder Pre-Integration

Kasenna MediaBase XMP	✓
Bitband Vision Server	✓
Seachange, C-COR / nCube, Concurrent, Harmonic, Tandberg, Optibase	✓

IPTV DRM Pre-Integration

SecureMedia Encryptonite	✓ *
Microsoft DRM-10	✓ *

IPTV Head-end Middleware Pre-Integration

Orca Interactive	✓ *
Kasenna LivingRoom	✓ *

**MAINTENANCE & 3RD PARTY
 DEVELOPMENT TOOLS**

Remote management and upgrade tools	✓
User interface 'skin' customisation SDK with Windows XP emulator	✓
Plugin API for third party application development	✓
JavaScript Extensions API for 3rd party system integration	✓
Oregon Abstraction Layer Porting SDK for porting to new hardware platforms	✓

SYSTEM HARDWARE REQUIREMENTS

Minimum embedded CPU requirement	120 MIPS
Minimum binary storage requirement	2MB
Minimum SDRAM requirement for code execution	8MB

✓ * Indicates that the item is an optional feature of a module, available at additional cost, as per pricing schedule. Pricing is provided on request, under an NDA. Contact info@oregan.net for further details.