



## Media Renderer Plug-in SDK

### Extend your display's rendering capabilities

Whatever kind of media playback device you are designing, from television sets to set-top boxes to stereo systems and more, AwoX Media Render Plug-in SDK gives you both the ability to play network content and to extend rendering to other sources, such as IPTV services.

To ensure industry-wide compatibility, the AwoX Media Renderer Plug-in SDK is fully compliant with the DMR profile (defined by DLNA 1.5 guidelines) and UPnP AV 1.1.

AwoX DMR, for PC and the TI DaVinci platform, was tested with flying colors at each DLNA plugfest.

### Features

- > Provide a high-level C++ API to extend the capabilities of your renderer to support IPTV services, DVD playback, Internet Web pages or any other specific media source.
- > Built-in mechanism for link protection implemented for Windows Media DRM10 network devices for receiver.
- > Handles maintenance and updates for all UPnP state variables: current URI, play time, play state, metadata, etc.
- > Supports all standard trick modes.
- > Provides HTTP and RTP sink streaming.
- > Includes a picture display plug-in that handles most image formats, as well as an extension to support rotation and zoom.
- > Allows easy integration with target platform's native rendering capabilities, such as DirectShow and OpenGL.
- > Built-in mechanism to customize on-screen display.
- > Written in ANSI C++ using POSIX API. Portable to all compliant real-time operating systems.

### Services

AwoX offers additional support options and integration services to help you get the most out of your multimedia tools.

Our experience developing connected applications will help you bring your products to market quickly. Customization possibilities include porting our software to additional platforms, adding new features or support for new media types and developing turn-key solutions.

### Benefits

- > Reuse your development across platforms: Develop your application under Windows / x86 or Linux / x86 and port it later to the embedded target.
- > Rely on a proven solution, regularly updated to DLNA standard evolution.
- > Boost your productivity thanks to modular plug-in architecture, diagnostic utilities, support and tutorials.
- > Implement a DLNA AV solution on low footprint devices.

### Package Contents

#### CORE

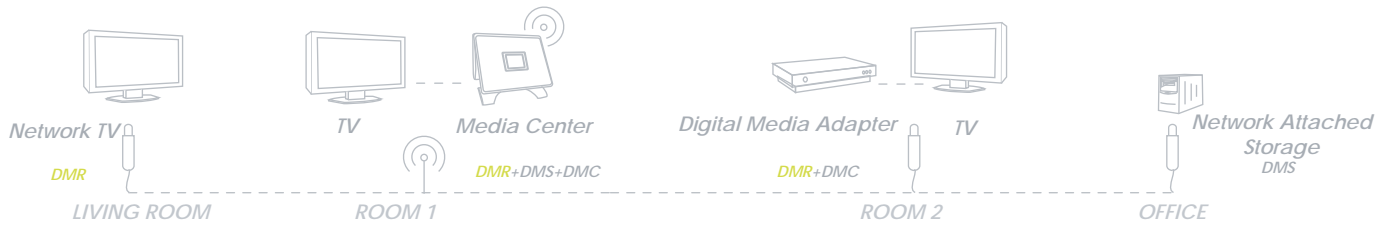
- > AwoX UPnP Media Renderer binary executable for your target
- > Static and dynamic libraries for your target, including Media Renderer Plugin library, OSD module library and Control Point plug-in library
- > Makefiles & build environment for your target and host environment

#### TOOLS

- > UPnP Tester: for controlling devices and automating tests
- > UPnP Logger: for viewing UPnP network activity

#### DOCUMENTATION & SUPPORT

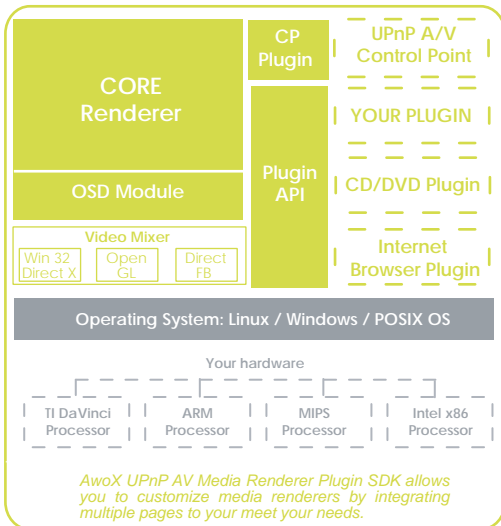
- > Sample codes
- > Tutorials
- > Complete API documentation
- > Training and support



A media renderer, as defined by UPnP, makes it possible to receive content pushed by a controller device. Media Renderer Plugin SDK lets you extend your device rendering capabilities to receive DVB and IPTV content, with open or proprietary protection technologies. Media Renderer Plugin SDK can be combined with Media Server Plugin SDK and/or ControllerSDK.  
 Abbreviations: DMR = Digital Media Renderer, DMS = Digital Media Server, DMC = Digital Media Controller

"keepcontrol"

## Sample plug-ins created with AwoX DLNA Media Renderer Plug-in SDK



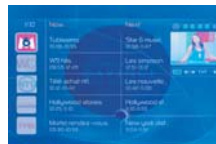
AwoX UPnP AV Media Renderer Plug-in SDK allows you to customize media renderers by integrating multiple pages to your meet your needs.



**Internet Web Browser:**  
Use a Web browser to render URL addresses.



**Video on demand:**  
Customize the access to your portal.



**Digital Terrestrial Television:**  
Customize the channel line up.

### Supported platforms\*

PROCESSOR	REFERENCE BOARD	TARGET OS	MEDIA ENGINE	HOST OS
TI TMS320DM365	EVM	Linux TI Community	Gstreamer	Windows/Linux
TI TMS320DA830	EVM	Linux TI Community	Gstreamer	Windows/Linux
TI TMS320DM6446	EVM	MontaVista Linux 4.0	TI AVME	Windows/Linux
TI TMS320DM6443/6	SALAI	MontaVista Linux 4.0	ITTIAM MSS	Windows/Linux
STM STB710X	STB7100REF	STLinux 2.2	ST API	Linux PC
SMP8634/5 & 54/55	DTV-8634 RevA1	Linux 2.6	Sigma Design	Linux/PC
Intel x86 or equivalent	PC	Windows XP/Vista	DirectShow	N/A
Intel x86 or equivalent	PC	Linux	Mplayer	N/A
Intel CE3100	SharkRiver	LinuxPR12	Gstreamer	Linux/PC

\* Please contact us for information on other platforms.

#### □ About AwoX

AwoX provides network media solutions for consumer electronics products based on mediaCTRL™, its DLNA-certified middleware. AwoX mediaCTRL enables people to stream video, music and photos seamlessly using digital audio and video devices in their regular home networks. AwoX mediaCTRL technology is at the heart of all AwoX audio and video connectivity accessories and solutions. AwoX is a member of the UPnP Forum and UPnP Implementation Consortium, and a promoter member of the Digital Living Network Alliance.

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