



CONTROLLER SDK

Controlling your media

Whether you are designing multimedia applications for a set-top box, mobile phone or some other kind of media device, the AwoX Controller SDK gives you all the tools you need to discover and control the servers and renderers available on the network. Its architecture is designed to be integrated within any user interface framework, from a Web browser to an LCD screen.

To ensure industry-wide compatibility, the AwoX Controller SDK is fully compliant with the DMC profile (defined by DLNA 1.5 guidelines) and with the UPnP AV 1.1 Control Point profile.

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

Features

- > Complies with UPnP A/V Control Point 1.1 standard and DLNA 1.5 DMC profile.
- > Seamless support for the following server controls:
 - Server discovery and removal
 - Event subscription and management
 - Update of state variables
 - Best media selection
 - Efficient media browsing according to renderer capabilities
- > Seamless support for the following renderer controls:
 - Renderer discovery and removal
 - Playback and sound control
 - Parental control
 - Trick mode
 - Simple mechanism to share screen display with a media renderer
- > Application Programming Interface (API) for C/C++
- > Ready for JavaScript or ActionScript marshalling for integration into HTML browsers and Flash players
- > Written in ANSI C++ using POSIX API, portable to numerous RTOS

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

- > Develop any kind of multimedia interface quickly and easily, from command line to 3-D graphical interfaces.
- > No UPnP knowledge required; our well-documented API abstracts away the difficulties of protocol-related issues.
- > An industry proven solution, updated regularly to comply with evolutions in the DLNA standard.
- > Increased productivity thanks to diagnostic utilities, support and tutorials.
- > Implement a DLNA Control Point on small- footprint devices easily.
- > Reuse your development across platforms: start by developing applications in Windows / x86 or Linux / x86, then port them to embedded targets effortlessly.

Package contents

CORE

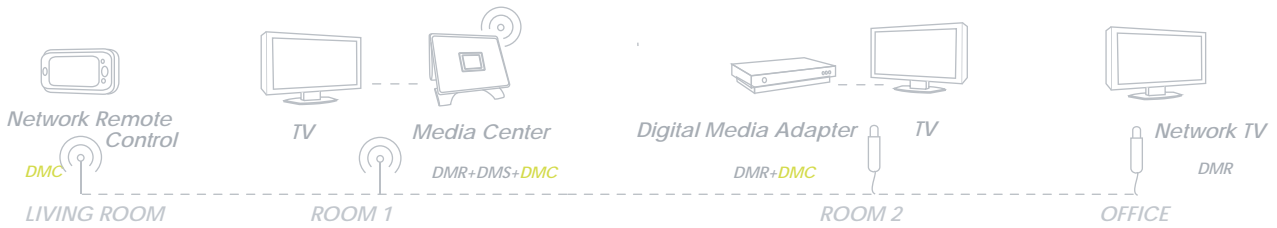
- > AwoX UPnP A/V Control Point static and dynamic libraries for your target platform
- > Project files and build tools for your target platform and host environment

TOOLS

- > UPnP Logger for tracing UPnP network activity
- > UPnPTester to automate UPnP tests

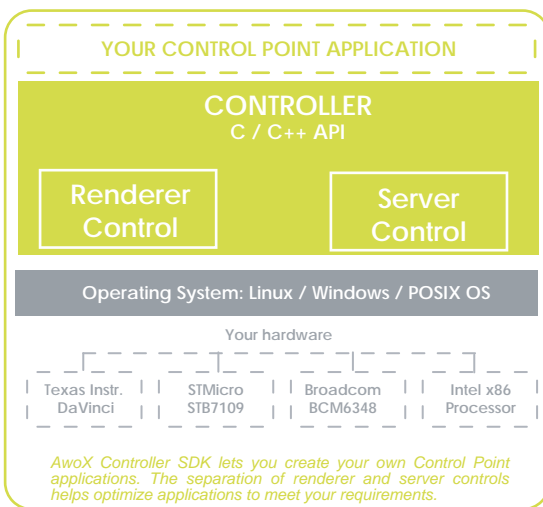
DOCUMENTATION & SUPPORT

- > Sample Control Point code: UPnP Tester source code with comments
- > Tutorial
- > Complete API documentation
- > Training and support



Controller SDK lets you create a variety of connected devices that can discover and control servers and renderers available on the network. The Controller SDK can be combined with Media Renderer Plugin SDK and/or Media Server Plugin SDK.
 Abbreviations: DMR = Digital Media Renderer, DMS = Digital Media Server, DMC = Digital Media Controller

"keepcontrol"



Sample applications created with AwoX DLNA Control Point SDK



Audio Digital Media Player: plays audio file from a remote server. This version embeds a Control Point and an audio media renderer.



Audio/Video Digital Media Center: Plays audio and video files from local or remote servers. This version embeds a Control Point, A/V media renderer and a media server.

Supported platforms*

PROCESSOR	REFERENCE BOARD	TARGET OS	HOST OS
TI TMS320DM6446	DVEVM	MontaVista Linux Professional Edition 4.0	Linux PC
TI TMS320DM644X	AWOX SALAI	MontaVista Linux Professional Edition 4.0	Linux PC
STM STB710X	STB7100REF	STLinux 2.2	Linux PC
SMP8634/35	DTV8634 RevA1	Linux 2.6	Linux PC
AMCC 440EP	EP440CX EPXH	Linux 2.6.14	Linux PC
Atmel AT91SAM9260	AWOX MOZART	TimeSys Linux 2.6.19	Linux PC
Broadcom BCM6348	Inventel DV4210	LinuxMIPS 2.4.17	Linux PC
NXP STB220	STB220	ELDK 4.0	Linux PC
XScale PXA270	AWOX	Windows CE 5.0	Linux PC
Intel x86 or equivalent	PC	Windows Vista/XP / Fedora Core 3	Windows/Linux

* 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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