



## Media Server Plug-in SDK

Enhance your device with today's hottest services

Whether you are designing a networked hard drive, personal video recorder or some other kind of device hosting mass media storage, AwoX Media Server Plug-in SDK will not only serve media content, but it gives you a simple way to develop your own services in compliance with DLNA 1.5 guidelines.

Media Server Plug-in SDK is fully compliant with the DLNA 1.5 DMS guideline profile and UPnP A/V 1.1 Media Server profile.

This solution is DLNA 1.5 Reference Device certified on Windows XP on AMD Turion.



### Features

- > Provides a high-level C++ application programming interface so you can develop your own content services: broadcast or live source connectors, CD, DVD, removable mass storage, Internet bookmarks, etc.
- > Supports generic link protection mechanism. Implemented for Windows Media DRM10 for network devices (Windows/x86).
- > Includes parental lock mechanism.
- > Streams content through HTTP and RTP.
- > Fully document C++ API.
- > Written in ANSI C++ using POSIX API, portable to numerous RTOS.

### Aggregation Plug-in

- > Aggregates various media from multiple locations.
- > Indexes and organizes content using metadata information.
- > Serves all major media formats and media on specific storage devices.

### FileSystem Plug-in

- > Presents filesystem as a UPnP content directory tree.
- > Ideal for embedded low-memory footprint platforms (residential gateways, digital picture cameras, mobile devices, etc).

### Benefits

- > Reuse your development across platforms: Develop your application under Windows / x86 or Linux / x86 and port it later to the embedded target.
- > Requires only basic UPnP knowledge, our C++ API abstracts away the challenges of protocol-related issues.
- > Rely on a proven solution, regularly updated to DLNA standard evolution.
- > Boost your productivity thanks to modular plugin architecture, diagnostic utilities, support and tutorials.
- > Implement UPnP AV solutions on small footprint devices.

### Package Contents

#### CORE

- > AwoX Core Server binary executable for your target platform.
- > Media Server Plugin static and dynamic libraries for your target platform.
- > Aggregation or filesystem plug-in binaries, depending on your memory constraints.
- > Project files and build tools for your target and host environment.

#### TOOLS

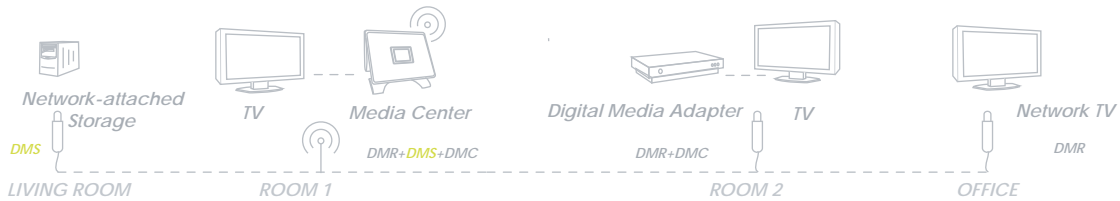
- > UPnP Logger for tracing UPnP network activity.
- > UPnP Tester for automating UPnP tests.

#### DOCUMENTATION & SUPPORT

- > Sample code for file system plugin.
- > Tutorial.
- > Complete API documentation.
- > Training and support.

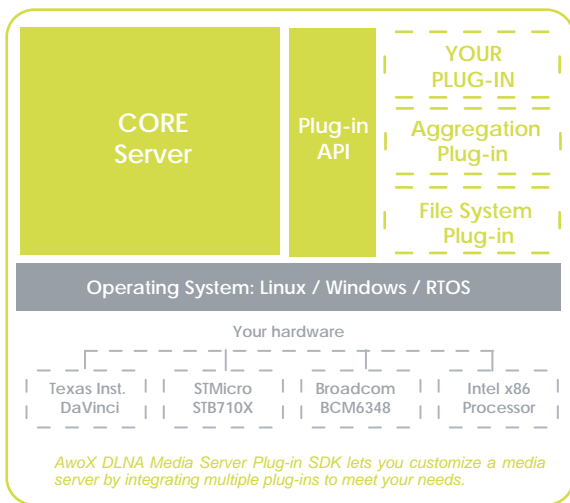
### Services

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.



Network Attached Storage created with AwoX DLNA Media Server Plug-in SDK integrates easily into your home network. In the above diagram, DMA plays media located on network-attached storage. Media Server Plug-in SDK can be combined with Media Renderer Plug-in SDK and/or Control Point SDK to create a complete media center experience.  
 Abbreviations: DMR = Digital Media Renderer, DMS = Digital Media Server, DMC = Digital Media Controller

"keep control"



## Plug-ins created with AwoX DLNA Media Server Plug-in SDK



**File System Plug-in:** Presents filesystem as UPnP content directory tree.



**Internet Radio Plug-in:** Present vTuner internet radio services as UPnP content directory tree, allowing you to relay radio on any UPnP player.



**Image transcoder Plug-in:** Presents image at different resolutions and formats to fit player / renderer capabilities.

## 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
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
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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