



Application Notes

Amlogic DLNA User Guide

Revision 0.1

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Revision History

Revision	Revised Date	By	Changes
0.1	Aug.15, 2014	ting.li	Initial release draft

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1. Introduction

The Digital Living Network Alliance (DLNA) is a collection of companies that are working towards a single integrated home network. Founded in 2003 under the name Digital Home Working Group, the alliance organizes specifications for home electronics. These specifications allow for communication between devices such as TVs, computers and gaming consoles. The overall goal for the alliance is to create an environment where all home electronics are connected through a single home intranet. This would allow for most connected devices to run through a single computer interface, share a single networked storage point and be available anywhere in the house.

The DLNA is made up of many of the the world's biggest computer and technology companies. They have a governing board consisting of nine companies from all over the industry, such as AwoX, Broadcom and Intel. Along with their governing members, there are over a dozen promoter members that also have influence in the direction of the alliance. There are also more than 100 smaller members that work in a support or advisory capacity.

2. How to enable DLNA

DLNA is default enable on k200 platform in amlogic SDK. So take k200 as an example here.

In file device/amlogic/k200/k200.mk

```
+ remotecfg \  
  DLNA \  
  OTAUpgrade \  
  
```

It will build apk packages/amlogic/DLNA to path system/app, then you can use DLNA function on your platform.

3. How to Debug

```
1), enable prop  
setprop rw.app.dlna.debug true
```

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2),check network status

For Music:

```
I/System.out(11698): <?xml version="1.0" encoding="utf-8"?>
I/System.out(11698):      <s:Envelope      xmlns:s="http://schemas.xmlsoap.org/soap/envelope/"
s:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/">
I/System.out(11698):      <s:Body>
I/System.out(11698):      <u:GetPositionInfoResponse
xmlns:u="urn:schemas-upnp-org:service:AVTransport:1">
I/System.out(11698):      <Track>1</Track>
I/System.out(11698):      <TrackDuration>00:00:00</TrackDuration>
I/System.out(11698):      <TrackMetaData></TrackMetaData>
I/System.out(11698):      <TrackURI>http://192.168.1.28:38520/ExportContent/7d8c85baec7f78b636835b55f75afbca.mp3</TrackURI>
I/System.out(11698):      <RelTime>00:00:00</RelTime>
I/System.out(11698):      <AbsTime>NOT_IMPLEMENTED</AbsTime>
I/System.out(11698):      <RelCount>2147483647</RelCount>
I/System.out(11698):      <AbsCount>2147483647</AbsCount>
I/System.out(11698):      </u:GetPositionInfoResponse>
I/System.out(11698):      </s:Body>
I/System.out(11698): </s:Envelope>
```

For Image:

```
D/MediaCenter(11698):  MediaRendererDevice:actionControlReceived  from  /192.168.1.28:41036,
urn:schemas-upnp-org:service:AVTransport:1.Play
D/MediaCenter(11698):
MediaRendererDevice:mFileName=img-b12d8d91484c56a50dbb22588c77994a
D/MediaCenter(11698): MediaRendererDevice:#####Play#####
D/MediaCenter(11698):
MediaRendererDevice:CurrentURI=http://192.168.1.28:38520/ExportContent/b6547574d6585838d3ac7b38fecf289.jpg
```

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D/MediaCenter(11698): ChipCheck:CheckMediaType, type: image/*
D/MediaCenter(11698): MediaRendererDevice:playingMediaType=image/*
D/ImageFromUrl(11698): getAction:com.amlogic.UPNP_PLAY_ACTION
D/MediaCenter(11698): MediaRendererDevice:#####sendBroadcast(UPNP_PLAY_ACTION:
image)#####
D/ImageFromUrl(11698):
(String)msg.obj:http://192.168.1.28:38520/ExportContent/b6547574d6585838d3ac7b38fecf289.jpg
I/System.out(11698): CyberGarage message : HTTP/1.1 200 OK
I/System.out(11698): Content-Type: text/xml; charset="utf-8"
I/System.out(11698): Server: Linux/3.0.8-g63d973a UPnP/1.0 CyberLinkJava/1.8
I/System.out(11698): Content-Length: 296
I/System.out(11698): EXT:
I/System.out(11698):
I/System.out(11698): <?xml version="1.0" encoding="utf-8"?>

For Music:

I/System.out(11698): <?xml version="1.0" encoding="utf-8"?>
I/System.out(11698): <s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/"
s:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/">
I/System.out(11698): <s:Body>
I/System.out(11698): <u:GetPositionInfoResponse
xmlns:u="urn:schemas-upnp-org:service:AVTransport:1">
I/System.out(11698): <Track>1</Track>
I/System.out(11698): <TrackDuration>00:00:00</TrackDuration>
I/System.out(11698): <TrackMetaData></TrackMetaData>
I/System.out(11698): <TrackURI><http://192.168.1.28:38520/ExportContent/7d8c85baec7f78b636835b55f75afbca.mp3></TrackURI>
I/System.out(11698): <RelTime>00:00:00</RelTime>
I/System.out(11698): <AbsTime>NOT_IMPLEMENTED</AbsTime>
I/System.out(11698): <RelCount>2147483647</RelCount>
I/System.out(11698): <AbsCount>2147483647</AbsCount>
I/System.out(11698): </u:GetPositionInfoResponse>
I/System.out(11698): </s:Body>
I/System.out(11698): </s:Envelope>

4. Reference source

DLNA

<http://www.dlna.org/>

UPnP

<http://www.upnp.org/>

CyberLinkForJava

<http://www.cybergarage.org/twiki/bin/view/Main/CyberLinkForJava>

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