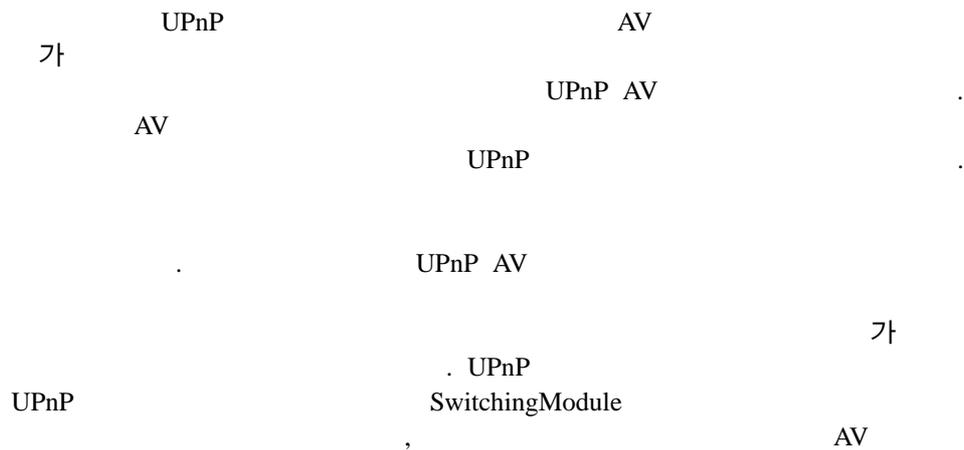


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## Switching mechanism of mobile device based on user interaction supporting reliability

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Keyword : , HCI, UPnP architecture

1.

AV [1-3].

TV, DVD , UPnP

DLNA (Digital Living Network Alliance)[4]

UPnP AV UPnP

+ IT

UPnP  
UPnP

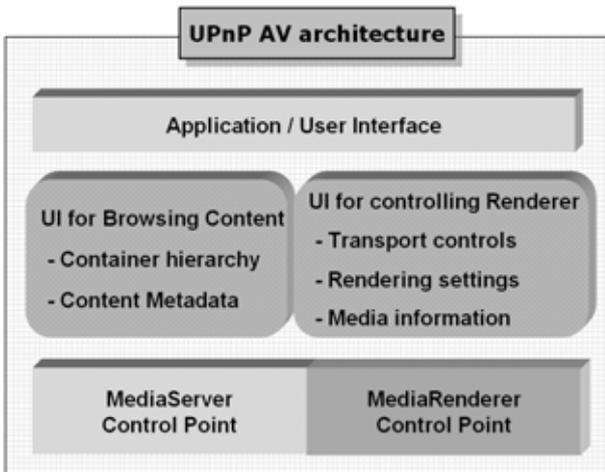
가 SwitchingModule (Event)가 . UPnP AV  
 AV , , 1 .

2.1  
 2 UPnP  
 AV , 3  
 . UPnP AV  
 , 4 가 가 ,  
 , 5  
 ConnectionManager ,  
 가 AV  
 ContentDirectory

2. UPnP AV

UPnP AV UPnP AVTransport .  
 AV ContentDirectory  
 , 가 .

2.2



. UPnP  
 AV , ConnectionManager  
 가  
 RenderingControl ,  
 AVTransport 가 .

2.3

UPnP AV

1. UPnP AV

UPnP 가  
 (Discovery), XML  
 (Description),  
 (Control),

3.

3-1-1

UPnP AV

UPnP

SOAP[6]

가

, GENA[7]

MPlayer

UPnP AV

FIFO

가

URI(Uniform Resource Identifier) UPnP

2

FIFO

MPlayer

, MPlayer URI

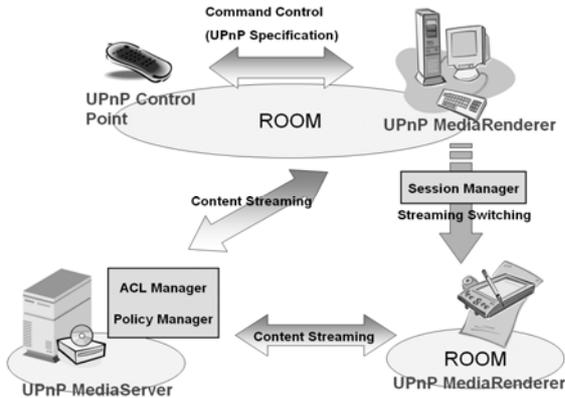
AV

, MPlayer

FIFO

MPlayer

, MPlayer



2.

3-1-2

SOAP, GENA, XML

AVTransport,

Connection Manager, Rendering Control

UPnP

AV

가 UPnP XML

SwitchingModule

AVTransport

3-1

URI 가

MPlayer[5]

SwitchingModule AVTransport

UPnP

. Mplayer

, AV

3-2

AV UPNP 4.  
AV UPNP  
AV UPNP

가

4

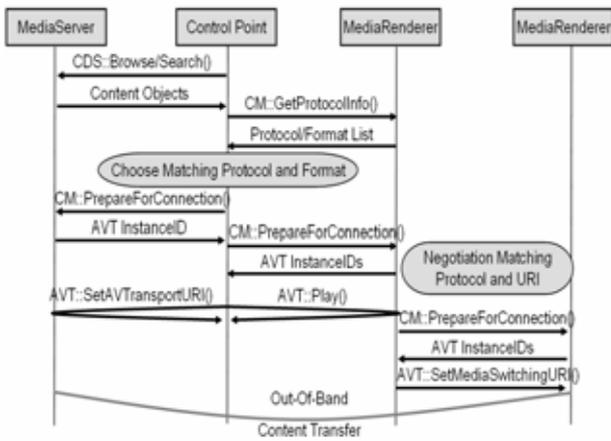
UPnP AV

XP

가

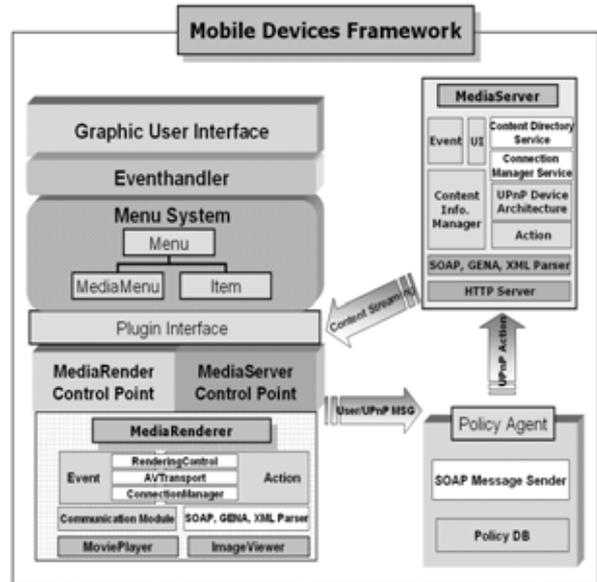
3 가

UPnP



3.

가



4.

GetProtocolInfo()

3

PrepareConnection()

MPlayer

UPnP

SDK[8]

SetAVTransportURI()

UI

가

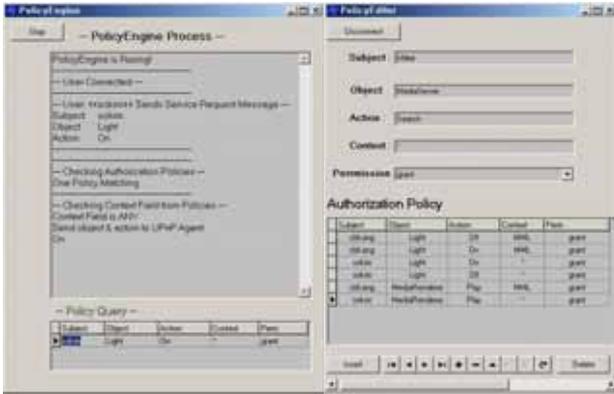
SetMediaSwitching()

URI,

UI

가

5



5.

5.

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SwitchingModule

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[9]

Jini, Havi