Installation of an IPTV server

This tutorial will allow you to install an IPTV application server on an open IMS core architecture.

Step 1: Install UCTIPTV

Before starting the installation, make sure you have the following packages:

- `libosip2-2`
- `libosip2-dev`
- `libexosip2-dev`

Install uctiptv:

- `dpkg -i uctiptv_advanced1.0.0.deb`
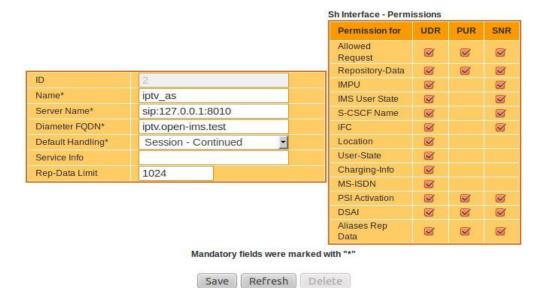
Step 2 : FHoSS Configuration

- Go to the FHoSS administration interface: http://localhost:8080
- Services

Trigger Point -TP-

ID	2
Name*	iptv_tp
Condition Type CNF*	Conjunctive Normal Format

Mandatory fields were marked with "*"

Save   Refresh   Delete

Attach IFC

Select IFC...   Attach

List of attached IFCs

ID	IFC Name	Detach
2	iptv_ifc	Detach

Add SPTs to Trigger Point

Not	☐	SIP Method	INVITE	Delete

OR

Request-URI ⊕

AND

Not	☐	SIP Header	SIP Header	To	Delete
			SIP Header Content	.*iptv.open-ims.test.*	

OR

Request-URI ⊕

AND

Request-URI ⊕

Application Server -AS-

ID	2
Name*	iptv_as
Server Name*	sip:127.0.0.1:8010
Diameter FQDN*	iptv.open-ims.test
Default Handling*	Session - Continued
Service Info	
Rep-Data Limit	1024

Sh Interface - Permissions			
Permission for	UDR	PUR	SNR
Allowed Request	☑	☑	☑
Repository-Data	☑	☑	☑
IMPU	☑		☑
IMS User State	☑		☑
S-CSCF Name	☑		☑
iFC	☑		☑
Location	☑		
User-State	☑		
Charging-Info	☑		
MS-ISDN	☑		
PSI Activation	☑	☑	☑
DSAI	☑	☑	☑
Aliases Rep Data	☑	☑	☑

Mandatory fields were marked with "*"

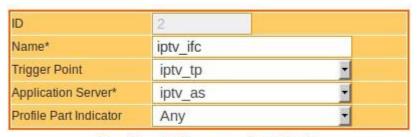Save   Refresh   Delete

Important: remember to add iptv.open-ims.test in the DNS configuration `gedit /etc/bind/open-ims.dnszone`

- `iptv          1D IN A          127.0.0.1`

127.0.0.1 represent the address of IP TV server.

Initial Filter Criteria -iFC-

ID	2
Name*	iptv_ifc
Trigger Point	iptv_tp
Application Server*	iptv_as
Profile Part Indicator	Any

Mandatory fields were marked with "*"

Save   Refresh   Delete

Then, attach the IFC to the application server (go back to the IPTV application server configuration):

Now that the server is installed and declared in the IMS architecture, it is necessary to declare the media available in VOD and finally to start the server.

Step 3: Configure the media sources

To do this, you need to map the media names to their location (rtsp address to the media server).

Edit the key_value_file to change the name and ip address of the media

```
<?xml version="1.0" encoding="UTF-8"?>
<key-value_pairs>
<key-value_pair>
<key>channel1</key>
<value>rtsp://127.0.0.1:5554/Cash</value>
</key-value_pair>
</key-value_pairs>
```

Step 4: Start the IPTV server

- uctiptv_as key_value_file

It is of course possible to change the name of the key_value_file to customize it.

Your IPTV application server is now installed.