

HDP1000 IP Streamer

User Manual

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Chapter 1 Product Outline

1.1 Outline

HDP1000 is a flexibly modularized 1U device with the features of Encoder/Receiver, IP Gateway and IPTV Server for the protocol-conversion application and IPTV-system application. It can get max 3 pluggable streamer cards embedded, such as encoder card and tuner card to receive the HDMI signals and tuner signals etc. It can also convert the input IP streams from the embedded modules and Ethernet ports over SRT, HTTP, UDP, RTP, RTSP, HLS protocol and TS files into the output IP streams over SRT, HTTP, UDP, RTP, RTSP, HLS and RTMP protocol. It is also integrated with HONDAO IPTV management software and Streamer cards to make it ideal in an IPTV system, such as hotel, hospital and community.

1.2 Features

- **Encoder/Receiver, IP Gateway and IPTV Server in one device**
- **2 separate Web GUI, one for Cards and Gateway, the other for IPTV Server**
- **4 Ethernet ports(GE), customized Ethernet port setting is available**

ETH0: IP output over SRT, HTTP, UDP (SPTS), RTP, RTSP, HLS and RTMP

ETH1&2: IP input over SRT, HTTP, UDP (SPTS), RTP (SPTS), RTSP and HLS

ETH3: Web Management Port

- **Support uploading TS files directly in Web GUI to broadcast your own channels**
- **Support inter-cut feature of a live program, a TS file and a picture**
- **Support IP anti-jitter feature for the external IP streams**
- **IPTV Features: Live channel, VOD, Hotel intro, Dining, Hotel service, Scenery**

intro, APPS, Adding scrolling caption, welcome words, pictures, advertisement, video, music etc (the features are only applicable to IP out application in the STB/Android

TV installed with HONDAO IPTV APK)

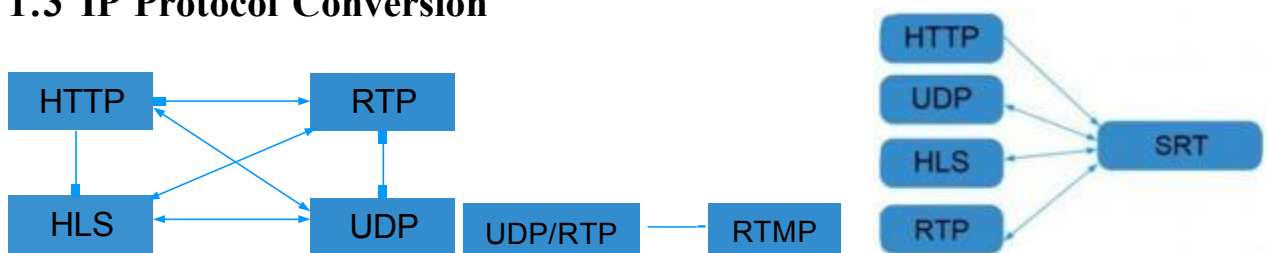
- **Support downloading HONDAO IPTV APK directly in the Web GUI**
- **It is closely related with the program bitrate and protocol type etc for **Max program numbers** involved in protocol conversion, and the actual application shall prevail with**

maximum 80% CPU utilization (Please refer to Test data for reference in the end of the spec)

- It is closely related with the program bitrate and protocol type etc for **Max affordable terminal numbers** in IPTV application of the STB/Android TV installed with HONDAO IPTV APK, and the actual application shall prevail with **maximum 80% CPU utilization** (Please refer to Test data for reference in the end of the spec)

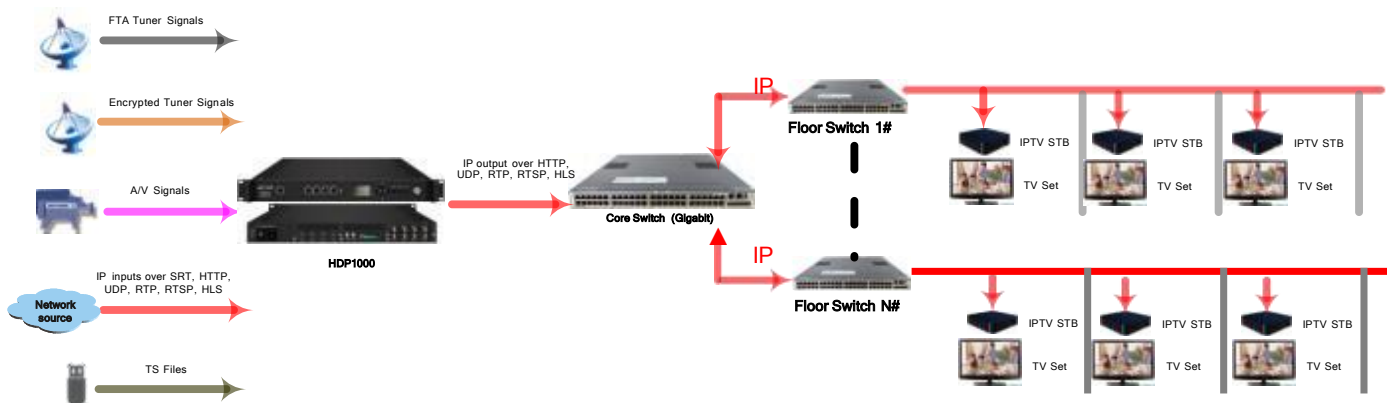
- Multi-level password control for your system security
- LCD/Key button for Network-Setting checking
- Modularized design, max 3 cards embedded, a flexible option as per the actual application

1.3 IP Protocol Conversion

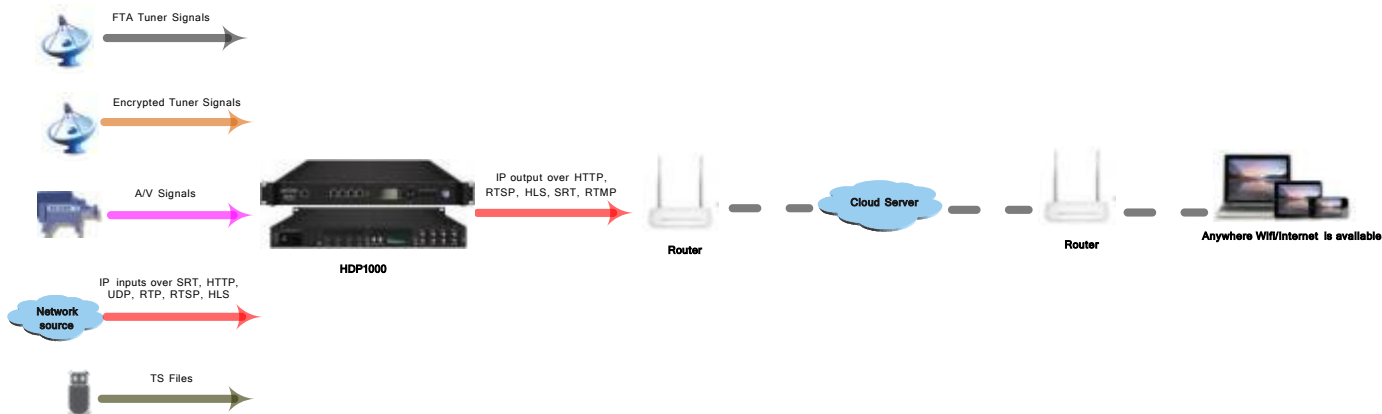


1.4 General Principle Chart

IPTV System as a Server



Protocol Conversion as a Streamer



1.5 Specifications

Specifications

Input	IP inputs thru ETH 1&2, GE ports over SRT,HTTP, UDP(SPTS), RTP(SPTS), RTSP (over UDP, payload: mpeg TS) and HLS	
	TS files uploading through Web management	
	Encoder card and Tuner card etc (Please refer to the detailed card spec below)	
IP output	IP outputs thru ETH0, GE port over SRT, HTTP (Unicast), UDP(SPTS, Multicast) , RTP, RTSP, HLS and RTMP (Program source should be H.264 and AAC encoding)	
System	Channel switching time with HONDAO" STB: HTTP (1-3s), HLS (0.4-0.7s)	
	It is closely related with the program bitrate and protocol type etc for Max program numbers involved in protocol conversion, and the actual application shall prevail with maximum 80% CPU utilization (Please refer to Test data for reference in the end of the spec)	
	It is closely related with the program bitrate and protocol type etc for Max affordable terminal numbers in IPTV application of the STB/Android TV installed with HONDAO IPTV APK, and the actual application shall prevail with maximum 80% CPU utilization (Please refer to Test data for reference in the end of the spec)	
	IPTV Features: Live channel, VOD, Hotel intro, Dining, Hotel service, Scenery intro, APPS, Adding scrolling caption, welcome words, pictures, advertisement, video, music etc (the features are only applicable to IP out application in the STB/Android TV installed with HONDAO IPTV APK)	
General	Demission	482mm×464mm×44mm (W×L×H)
	Temperature	0~45℃(operation), -20~80℃(storage)
	Power Supply	AC100V±10%, 50/60Hz or AC 220V±10%, 50/60Hz

Available Card Specification (more available cards later for development)

DX902A 2 Tuner Descrambling Card



Stream in:

2 Tuner input, F Type,

Stream out:

16 SPTS output over UDP/RTP

DVB-CI:

2 independent common interface slots

Standard:

DVB-S/S2/S2X;

DVB-S

Input Frequency: 950-2150MHz

Symbol Rate: QPSK 1~45Msps

Signal Strength: -65~ -25dBm

FEC Demodulation: 1/2, 2/3, 3/4, 5/6, 7/8

DVB-S2

Input Frequency: 950-2150MHz

Symbol rate: QPSK/8PSK 1~45Msps

16APSK 1~45 Msps

32APSK 1~32 Msps

FEC Demodulation: 1/2, 2/3, 3/4, 5/6, 7/8, 4/5, 5/6, 8/9, 9/10

DVB-S2X

Input Frequency: 950-2150MHz

Symbol rate: QPSK/8PSK/16APSK 0.5~45 Msps;

8APSK/32APSK: 0.5~40Msps

FEC Demodulation:

QPSK: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10, 13/45, 9/20, 11/20

8PSK: 3/5, 2/3, 3/4, 5/6, 8/9, 9/10, 23/36, 25/36, 13/18

8APSK: 5/9-L, 26/45-L

16APSK: 2/3, 3/4, 4/5, 5/6, 8/9, 9/10, 1/2-L, 8/15-L, 5/9-L, 26/45, 3/5, 3/5-L, 28/45, 23/36, 2/3-L, 25/36, 13/18, 7/9, 77/90

32APSK: 3/4, 4/5, 5/6, 8/9, 2/3-L, 32/45, 11/15, 7/9

Support Diseqc function

Multiplexing:

Maximum PID Remapping: 256 output pids

Function: PID remapping (automatically or manually), Accurate PCR adjusting, generate PSI/ SI table automatically

Descrambling:

CAM/CI Quantity: 2

BISS Mode: Mode 1, Mode E; 32 BISS Keys

DX942A 4 frequencies Descrambling Card

Stream in:

4 frequencies input (each RF in interface for 2 frequencies locking), F Type,

Stream out:

16 SPTS output over UDP/RTP

DVB-CI:

2 independent common interface slots

Standard: DVB-C (J.83 A/C)/J.83B/ DVB-T/DVB-T2/ISDB-T switchable

Standard: DVB-C (J.83 A/C); J.83B

Input Frequency: 60MHz~890MHz

Symbol rate: 1000~9000Ksps

Constellation: 16/32/64/128/256 QAM; 64/256 QAM for J.83B

Standard: DVB-T/T2

Frequency In: 60MHz~890MHz

Bandwidth: 5/6/7/8M bandwidth

PLP supported for DVB-T2

Standard: ISDB-T

Input Frequency: 60-890MHz

Multiplexing:

Maximum PID Remapping: 256 output pids

Function: PID remapping (automatically or manually), generate PSI/ SI table automatically

Descrambling:

CAM/CI Quantity: 2

BISS Mode: Mode 1, Mode E; 32 BISS Keys

DX228S 8 HDMI Encoder Card

Input: 8*HDMI (4 HDMI is available)

Output: 8*SPTS (4 SPTS if 4 HDMI) output over UDP/RTP/RTSP, Unicast/Multicast

Video Encoding:

Video format: MPEG-4 AVC/H.264

Input resolution: 1920×1080_60P, 1920×1080_60i, 1920×1080_50P, 1920×1080_50i, 1280×720_60P, 1280×720_50P, 720×576_50i, 720×480_60i,

Output resolution: 1920×1080_30P, 1920×1080_25P, 1280×720_30P, 1280×720_25P, 720×576_25P, 720×480_30P,

GOP structure: IP...P (P Frame adjustment, without B Frame)

Video Bit-rate: 1Mbps~13Mbps each channel

Rate Control: CBR/VBR

Audio Encoding:

Audio format: MPEG1 Layer II, LC-AAC, HE-AAC and AC3 Pass through, support audio gain adjustment

Sampling rate: 48 KHz

Audio Bit-rate:

MPEG-1 Layer 2: 48/56/64/80/96/112/128/160/192/224/256/320/384 kbps

LC-AAC: 48/56/64/80/96/112/128/160/192/224/256/320/384 kbps

HE-AAC: 48/56/64/80/96/112/128 kbps

Support Logo, Caption, QR Code insertion

DX228S-V2 8 HDMI Encoder Card

Input: 8*HDMI (4 HDMI is available)

Output: 8*SPTS (4 SPTS if 4 HDMI) output over UDP/RTP/RTSP, Unicast/Multicast

Video Encoding:

Video format: HEVC/H.265, MPEG-4 AVC/H.264

Input resolution: 1920×1080_60P, 1920×1080_60i, 1920×1080_50P, 1920×1080_50i, 1280×720_60P, 1280×720_50P, 720×576_50i, 720×480_60i,

Output resolution: 1920×1080_30P, 1920×1080_25P, 1280×720_30P, 1280×720_25P, 720×576_25P, 720×480_30P,

GOP structure: IP...P (P Frame adjustment, without B Frame)

Video Bit-rate: 1Mbps~13Mbps each channel

Rate Control: CBR/VBR

Audio Encoding:

Audio format: MPEG1 Layer II, LC-AAC, HE-AAC and AC3 Pass through, support audio gain adjustment

Sampling rate: 48 KHz

Audio Bit-rate:

MPEG-1 Layer 2: 48/56/64/80/96/112/128/160/192/224/256/320/384 kbps

LC-AAC: 48/56/64/80/96/112/128/160/192/224/256/320/384 kbps

HE-AAC: 48/56/64/80/96/112/128 kbps

Support Logo, Caption, QR Code insertion

DX908 8 FTADV-B-S/S2/S2X Tuner Card



Stream in: 8 Tuner input, F Type,

Stream out: 512 SPTS out over UDP/RTP/RTSP, Unicast/Multicast

Tuner input: DVB-S/S2/S2X

Symbol rate: QPSK/8PSK/16APSK 0.5~45 Msps; 8APSK/32APSK: 0.5~40Msps

Input Frequency: 950-2150MHz

DVB-S Constellation: QPSK

FEC Demodulation: 1/2, 2/3, 3/4, 5/6, 7/8

DVB-S2 Constellation: QPSK/8PSK/16APSK/32APSK

FEC Demodulation:

QPSK: 1/2, 2/3, 3/4, 5/6, 3/5, 4/5, 8/9, 9/10

8PSK: 3/5, 2/3, 3/4, 5/6, 8/9, 9/10

16APSK: 2/3, 3/4, 4/5, 5/6, 8/9, 9/10

32APSK: 3/4, 4/5, 5/6, 8/9, 9/10

DVB-S2X Constellation: QPSK/8PSK/8APSK/16APSK/32APSK

FEC Demodulation:

QPSK: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10, 13/45, 9/20, 11/20

8PSK: 3/5, 2/3, 3/4, 5/6, 8/9, 9/10, 23/36, 25/36, 13/18

8APSK: 5/9-L, 26/45-L

16APSK: 2/3, 3/4, 4/5, 5/6, 8/9, 9/10, 1/2-L, 8/15-L, 5/9-L, 26/45, 3/5, 3/5-L, 28/45, 23/36, 2/3-L, 25/36, 13/18, 7/9, 77/90

32APSK: 3/4, 4/5, 5/6, 8/9, 2/3-L, 32/45, 11/15, 7/9, 9/10

Support Diseqc function

Multiplexing:

Maximum PID Remapping: 256 output pids

Function: PID remapping (automatically or manually), Accurate PCR adjusting, generate PSI/ SI table automatically

Descrambling:

BISS Mode: Mode 1, Mode E; up to 120Mbps, 32 BISS Key

DX928 8 FTADVB-C/T/T2/ISDB-T Multi-Mode Tuner Card

Stream in: 8 tuner input, F Type

Stream out: 512 SPTS out over UDP/RTP/RTSP, Unicast/Multicast

Tuner input: DVB-C (J.83 A/C)/J.83B/ DVB-T/DVB-T2/ISDB-T switchable

Standard: DVB-C (J.83 A/C); J.83B

Input Frequency: 60MHz~890MHz

Symbol rate: 1000~9000Ksps

Constellation: 16/32/64/128/256 QAM; 64/256 QAM for J.83B

Standard: DVB-T/T2

Frequency In: 60MHz~890MHz

Bandwidth: 5/6/7/8M bandwidth

PLP Index: 0~255 for DVB-T2

Standard: ISDB-T

Input Frequency: 60-890MHz

Multiplexing:

Maximum PID Remapping: 256 output pids

Function: PID remapping (automatically or manually), generate PSI/ SI table automatically

Descrambling:

BISS Mode: Mode 1, Mode E; up to 120Mbps, 32 BISS Keys

Test data for reference:

Protocol conversion	Programs	Bitrate	Terminals	CPU utilization
UDP to HTTP	60	8M	100	80%
UDP to HLS	60	8M	120	65%
UDP to HTTP	60	2M	400	80%
UDP to HLS	60	2M	400	40%
UDP to SRT	45	8M	---	80%
UDP to RTMP	50	8M	---	80%

1.6 Appearance and Description

1	Ethernet ports (ETH0: IP output; ETH1&2: IP input; ETH3: Web Management Port) ; CAS port: used in the case of QAM cards for scrambler feature
2	Power and HDD indicator (The upper is for Power, and the lower is for HDD—The red light will flash every several seconds if HDD is working normally)
3	LCD and Key Button for some parameter setting and monitoring
4	Power off/on button

5	GND/Power Switch/Socket
6	3 Modules slots(DX228S/DX902A/DX908 in this picture)

Chapter 2 Installation Guide

2.1 Acquisition Check

When users open the package of the device, it is necessary to check items according to packing list. Normally it should include the following items:

- HDP1000 IP Streamer
- Grounding Cable
- Power Cord

If any item is missing or mismatching with the list above, please contact the Sales.

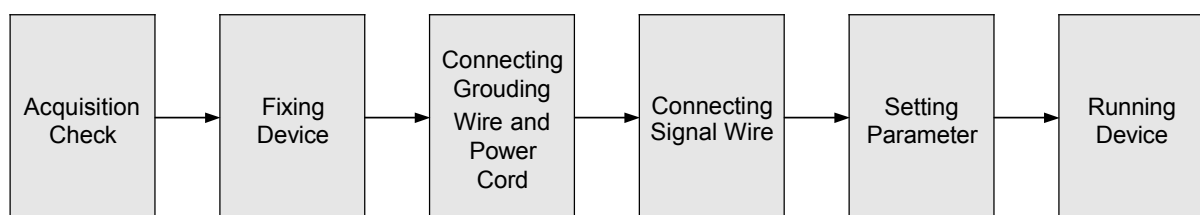
2.2 Installation Preparation

When users install device, please follow the below steps. The details of installation will be described at the rest part of this chapter. Users can also refer rear panel chart during the installation.

The main content of this chapter including:

- Checking the possible device missing or damage during the transportation
- Preparing relevant environment for installation
- Installing gateway
- Connecting signal cables
- Connecting communication port (if it is necessary)

2.2.1 Device's Installation Flow Chart Illustrated as following:



2.2.2 Environment Requirement

Item	Requirement
Machine Hall Space	When user installs machine frame array in one machine hall, the distance between 2 rows of machine frames should be 1.2~1.5m and the distance against wall should be no less than 0.8m.
Machine Hall Floor	Electric Isolation, Dust Free Volume resistivity of ground anti-static material: $1 \times 10^7 \sim 1 \times 10^{10} \Omega$, Grounding current limiting resistance: 1M (Floor bearing should be greater than 450Kg/m ²)
Environment Temperature	5~40°C(sustainable) , 0~45°C(short time), installing air-conditioning is recommended
Relative Temperature	20%~80% sustainable 10%~90% short time
Pressure	86~105KPa
Door & Window	Installing rubber strip for sealing door-gaps and dual level glasses for window
Wall	It can be covered with wallpaper, or brightness less paint.
Fire Protection	Fire alarm system and extinguisher
Power	Requiring device power, air-conditioning power and lighting power are independent to each other. Device power requires AC power 100V-240V 50/60Hz 2A. Please carefully check before running.

2.2.3 Grounding Requirement

- All function modules' good grounding designs are the basis of reliability and stability of devices. Also, they are the most important guarantee of lightning arresting and interference rejection. Therefore, the system must follow this rule.
- Coaxial cable's outer conductor and isolation layer should keep proper electric conducting with the metal housing of device.
- Grounding conductor must adopt copper conductor in order to reduce high frequency

impedance, and the grounding wire must be as thick and short as possible.

- Users should make sure the 2 ends of grounding wire well electric conducted and be antirust.
- It is prohibited to use any other device as part of grounding electric circuit
- The area of the conduction between grounding wire and device's frame should be no less than 25mm^2 .

2.2.4 Frame Grounding

All the machine frames should be connected with protective copper strip. The grounding wire should be as short as possible and avoid circling. The area of the conduction between grounding wire and grounding strip should be no less than 25mm^2 .

2.2.5 Device Grounding

Connecting the device's grounding rod to frame's grounding pole with copper wire.

2.3 Wire's Connection

The grounding wire conductive screw is located at the right end of rear panel, and the power switch, fuse, power supply socket is just beside ,whose order goes like this, power switch is on the left ,power supply socket is on the right and the fuse is just between them.

- **Connecting Power Cord**

User can insert one end into power supply socket, while insert the other end to AC power.

- **Connecting Grounding Wire**

When the device solely connects to protective ground, it should adopt independent way, say, share the same ground with other devices. When the device adopts united way, the grounding resistance should be smaller than 1Ω .

⚠ Caution:

Before connecting power cord to HDP1000 IP Streamer, user should set the power switch to "OFF".

Chapter 3 Lithium Button Battery Mounting

When users receive HDP1000, please firstly mount a lithium button battery as per the below guide to ensure it will boot and work normally.

1. Under power-off status, unscrew the CR2032 cover (On the right) to find the Lithium Button mounting position.



Figure-1

2. Mount a **CR2032 3V** Lithium button battery here and screw the CR2032 cover.



Figure-2

3. Power on HDP1000, log in the Web GUI via <https://192.168.203.136:8160/3508gw> (ETH3 is the default NMS port and the default User ID & Password are **admin & admin**.)
4. Enter the Menu: **More Configuration—System Set** to synchronize the **time zone** and **system time** as per the actual application, click **Submit** button, and **reboot** it to complete the steps.

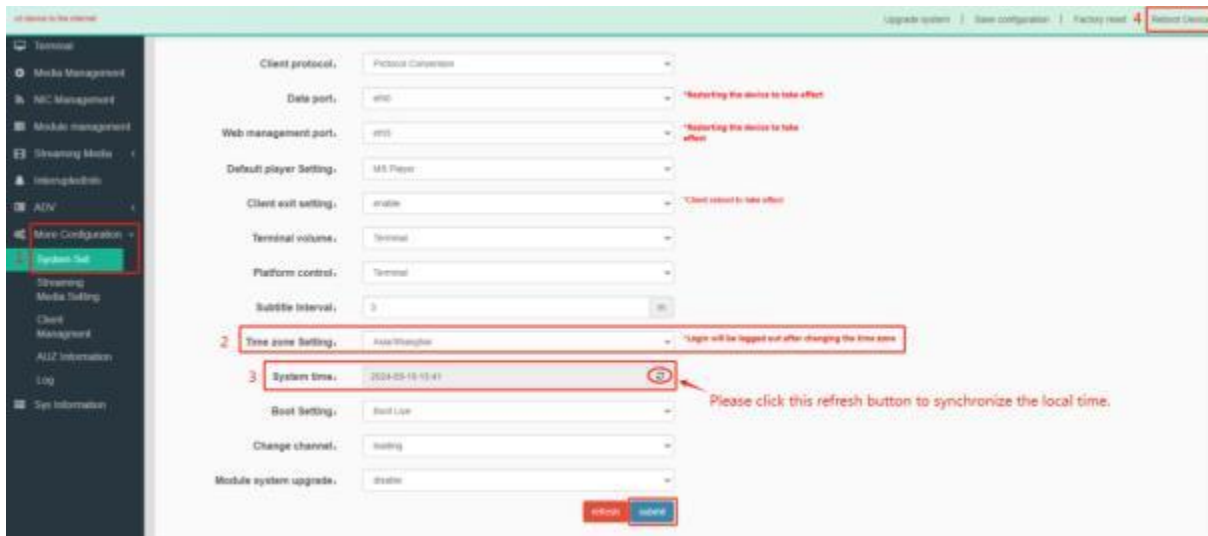


Figure-3

Chapter 4 Keyboard Operation

4.1 Keyboard Function Description

ENTER: Activating the parameters which need modifications, or confirming the change after modification.

MENU: To cancel presently entered value, resume previous setting and return to previous menu.

LEFT/RIGHT: To move the “►” to choose or set the parameters.

UP/DOWN: To modify activated parameter or page up/down when parameter is inactivated.

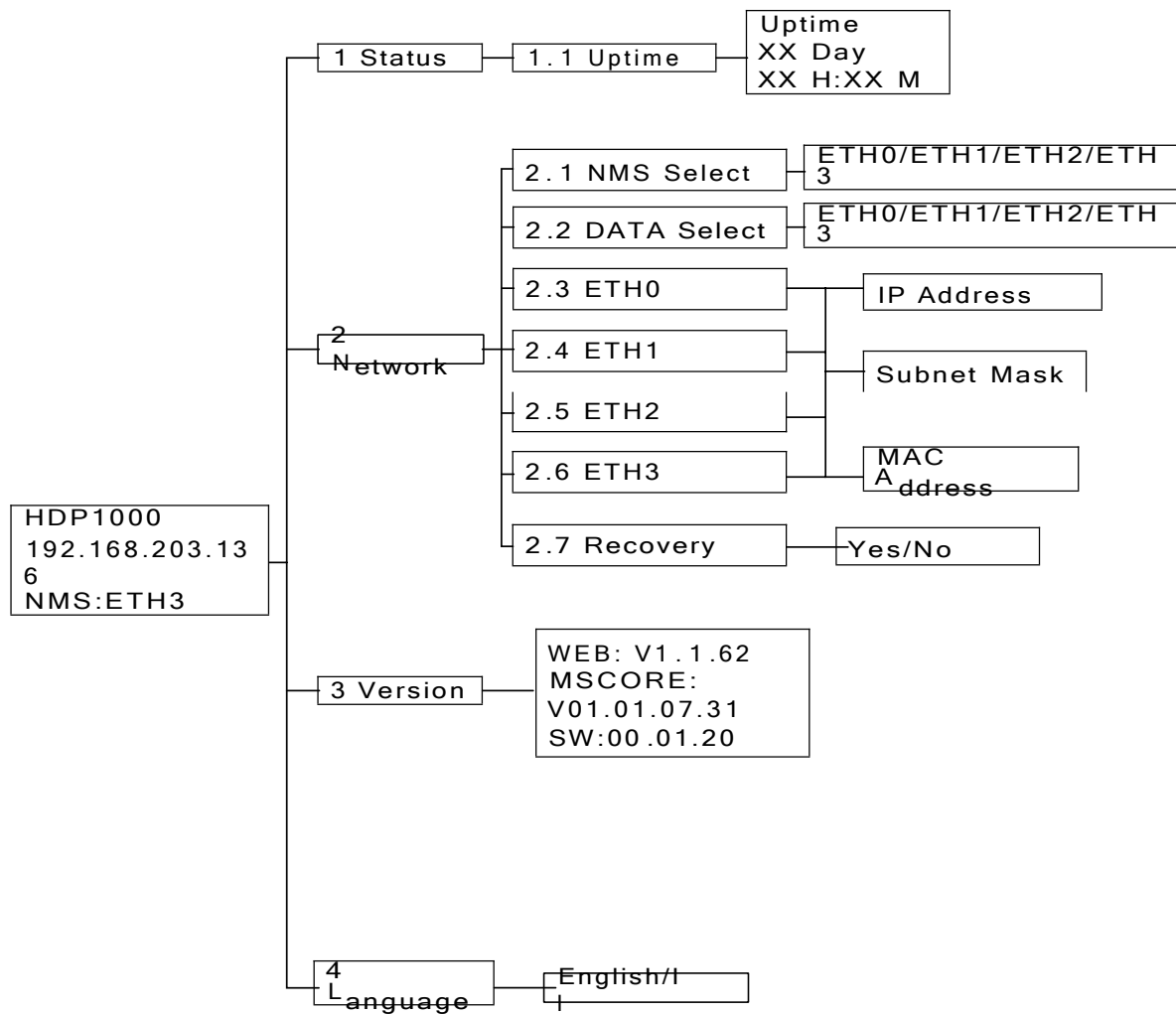
LOCK: To Lock the screen / cancel the lock state. After pressing lock key, the system will put forward a question whether the users want to save present setting or not. If not, the LCD will display the current configuration state.

4.2 LCD Menu Tree

The LCD shows some simple and basic parameters only, not for all parameters.

2.1 NMS Select and 2.2 DATA Select: If one Ethernet is specified as NMS port, it can not be specified as DATA port. DATA port means the Ethernet outputting IP streams. When NMS port and DATA port are set, the rest 2 unset ports will become automatically the Ethernets receiving IP streams. NMS and DATA selection will need areboot to activate the setting.

2.7 Recovery means NIC resetting only.



Chapter 5 WEB NMS operation

HDP1000 IP Streamer has 2 separate Web GUI, one for protocol conversion and card setting (This part has a simple IPTV setting to start a basic and quick live broadcasting), the other for IPTV management (More professional and complete IPTV features).

5.1 Protocol conversion and card setting

This part is a simple IPTV system for Live channels and VOD channels, not so many features as the IPTV management part. Users can decide whether they use this part only as per the actual applications.

5.1.1 Login

The default NMS IP address of this device is <https://192.168.203.136:8160/3508gw> (ETH3 is the default NMSport)

Connect the PC (Personal Computer) with the device via a net cable, and use ping command to confirm they are on the same network segment.

Because device NMS IP address is 192.168.203.136, please change the PC IP address to 192.168.203.xxx (xxx can be 0 to 255 except 136 to avoid IP conflict).

Use web browser to log in the device by typing this device's IP address in the browser's address bar and press Enter.

It displays the Login interface as Figure-4. Type the User ID, Password and Code (the default User ID & Password are **admin** & **admin**.) and then click "Login" to start the device setting. (In this example, we customize the NMS IP address as 192.168.179.108)

When users firstly log in the Web GUI, it will ask for a resetting of the user name & password, and a setting of the secondary password for the system security.

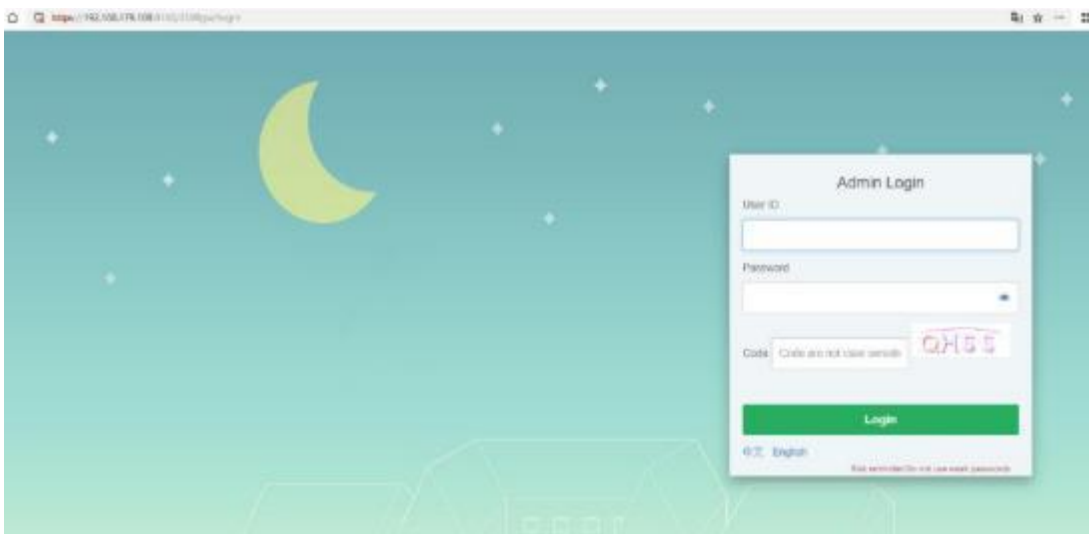


Figure-4

5.1.2 Operation

When logging in it, users can check the CPU utilization status, NIC status and software version as Sys Information. (Figure-5)



Figure-5

The username, password and secondary password can be changed as per the below steps:



The 'change username and password' dialog box contains the following elements:

- Instructions:**
 - *Password must contain uppercase and lowercase letters,numbers,special characters,and have a length of no less than 10
 - *Secondary password used for secondary authentication during content publishing
- Fields:**
 - User ID:
 - Original password:
 - New password:
- Buttons:**
 - Submit
 - Cancel

Change secondary password

*Password must contain uppercase and lowercase letters, numbers, special characters, and have a length of no less than 10
 *Secondary password used for secondary authentication during content publishing

Original secondary password:

New secondary password:

Submit Cancel

Figure-6

Users can upgrade system, save configuration, load factory set and reboot the device as per the below picture guide:

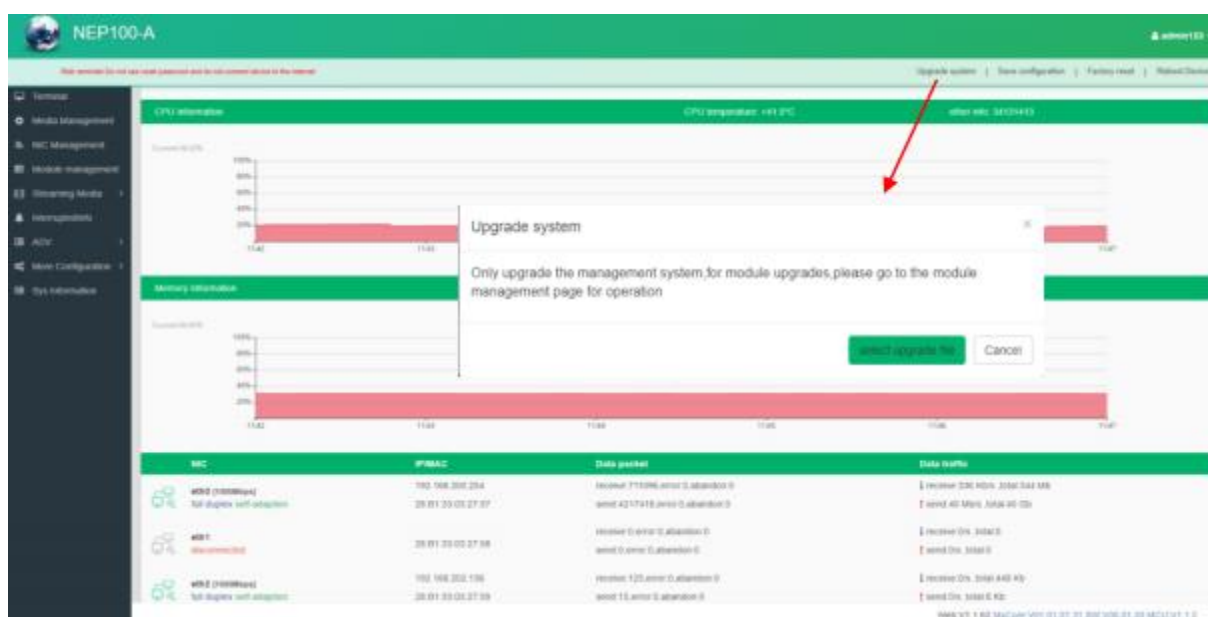


Figure-7

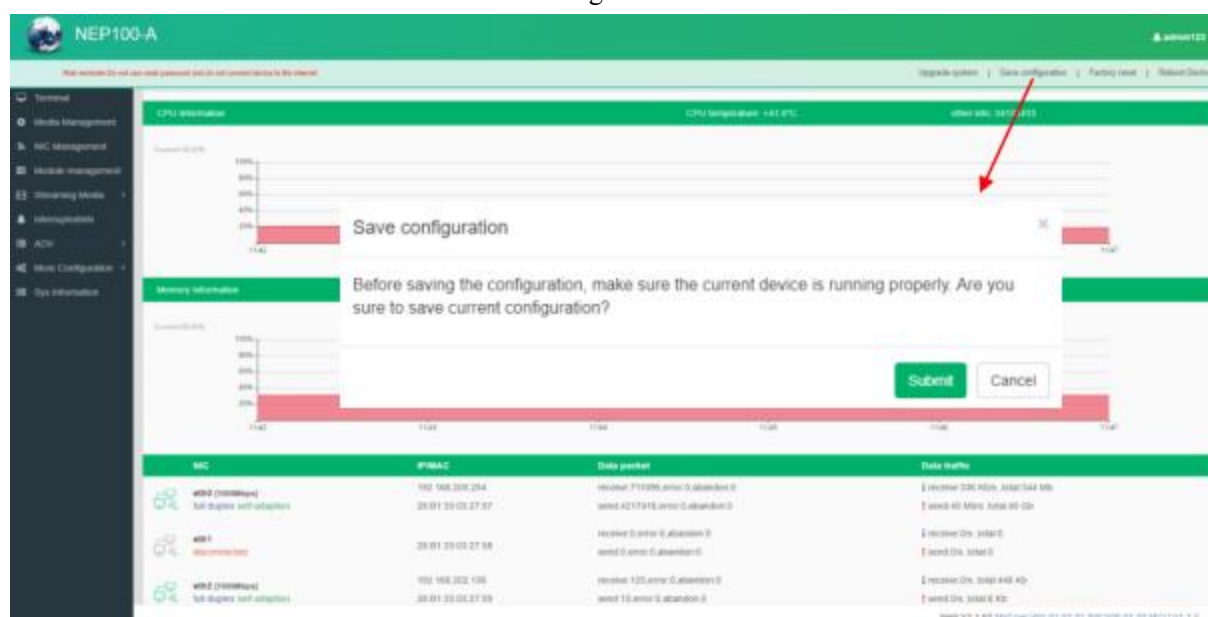


Figure-8

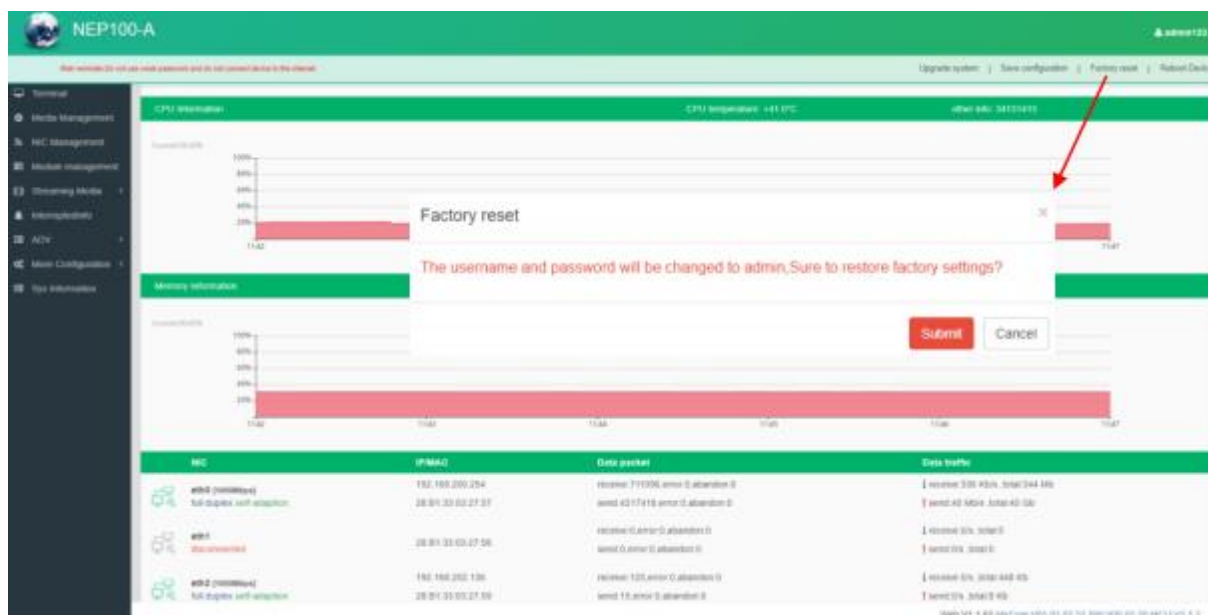


Figure-9

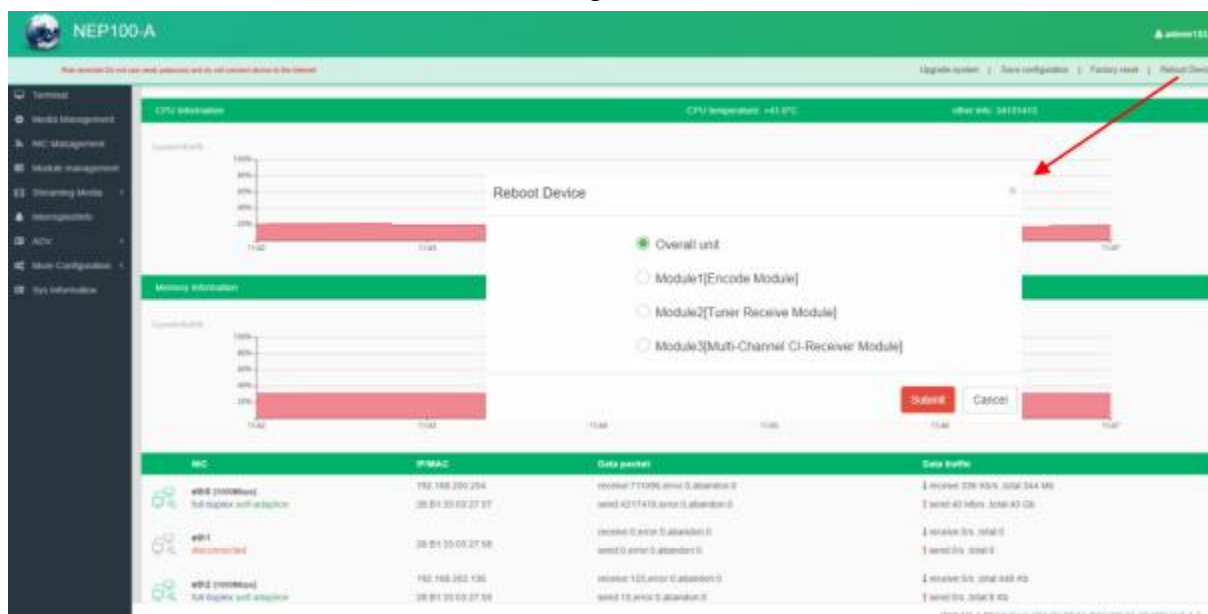


Figure-10

Terminal

Users can check the terminal status (IPTV box or TV set with the IPTV APK installed) and specify the terminal/s to play the specified live/Vod program or not, or specify the terminal/s to restart or shut down as per the timer as Figure-11(Batch setting) and Figure-12(Editing the individual terminal). This operation will require the secondary password in order to protect your system security.

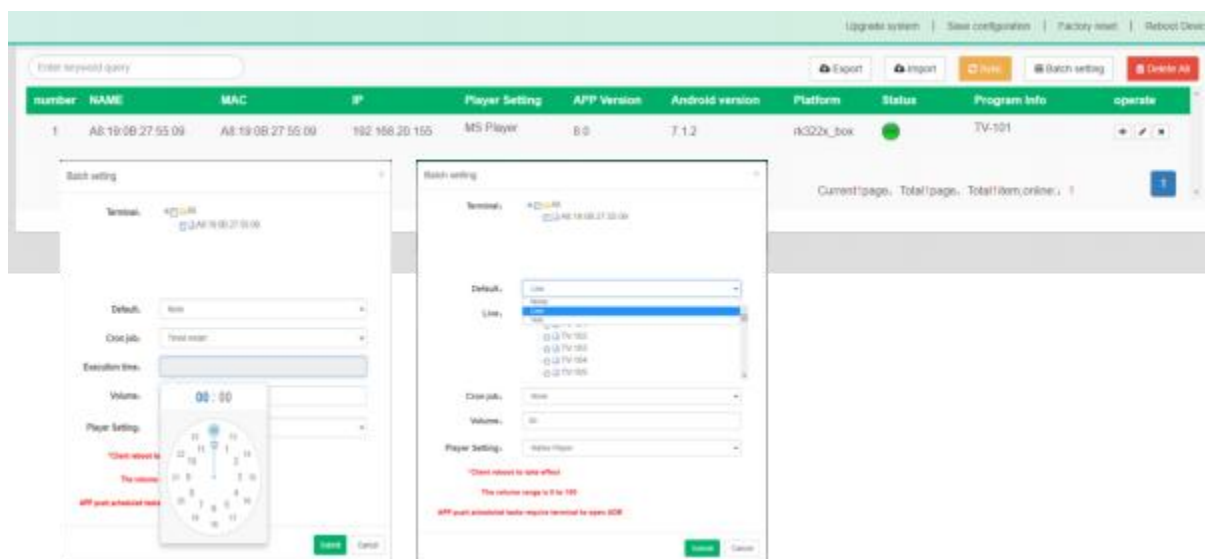


Figure-11

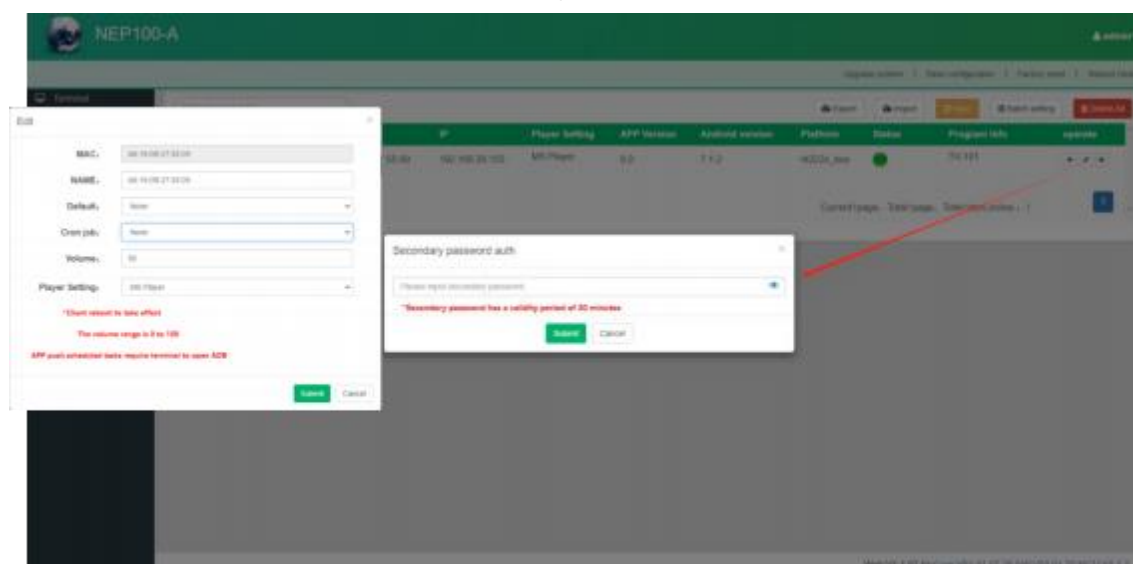


Figure-12

Users can add the terminals here in a batch via  or the terminal information will show up automatically here once the terminals are connected normally with the HDP1000.

How to connect the terminals with the HDP1000?

1. The terminals installed with HONDAO IPTV APK and the Data port of HDP1000 should be connected in the same network system for a communication. (Ping is available for DATA port of HDP1000 and Ethernet ports of the terminals. ETH0 is the streaming port here)

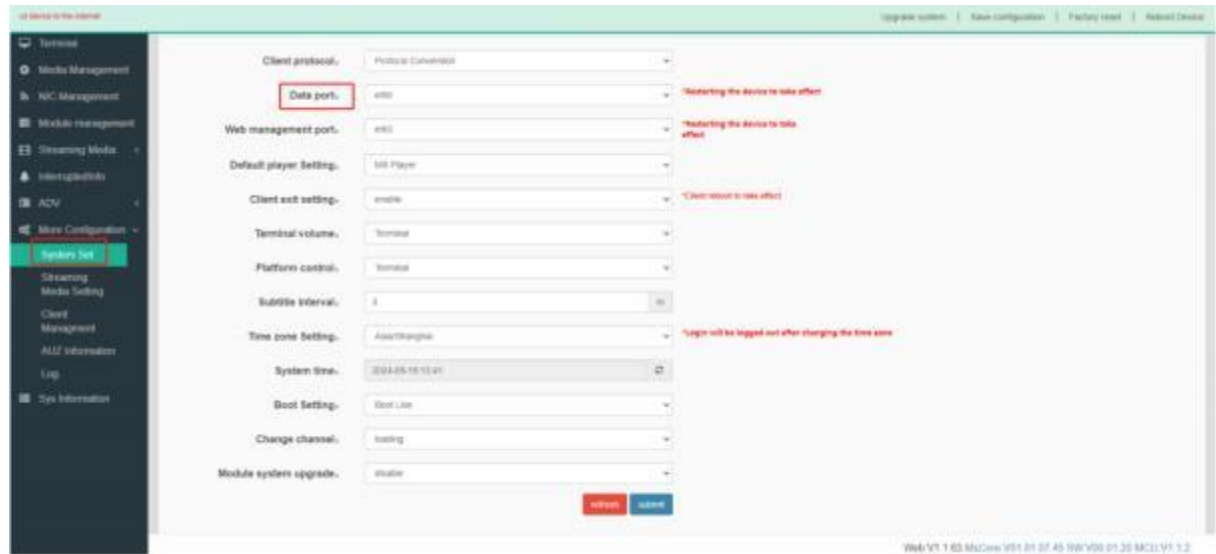


Figure-13

2. Enter the IPTV APK of the terminals, and then continuously press $\uparrow \uparrow \uparrow \downarrow \downarrow \downarrow$ in the remote control to enter a menu of System Setting where users can type the Server IP and Port of HDP1000(The Server IP & Port can be got from the webpage of Streaming Media in System). Usually, the IP address of the terminals, the Streaming IP address of HDP1000 and the Data port of HDP1000 should be set in the same network segment, such as 192.168.200.XXX.



Figure-14

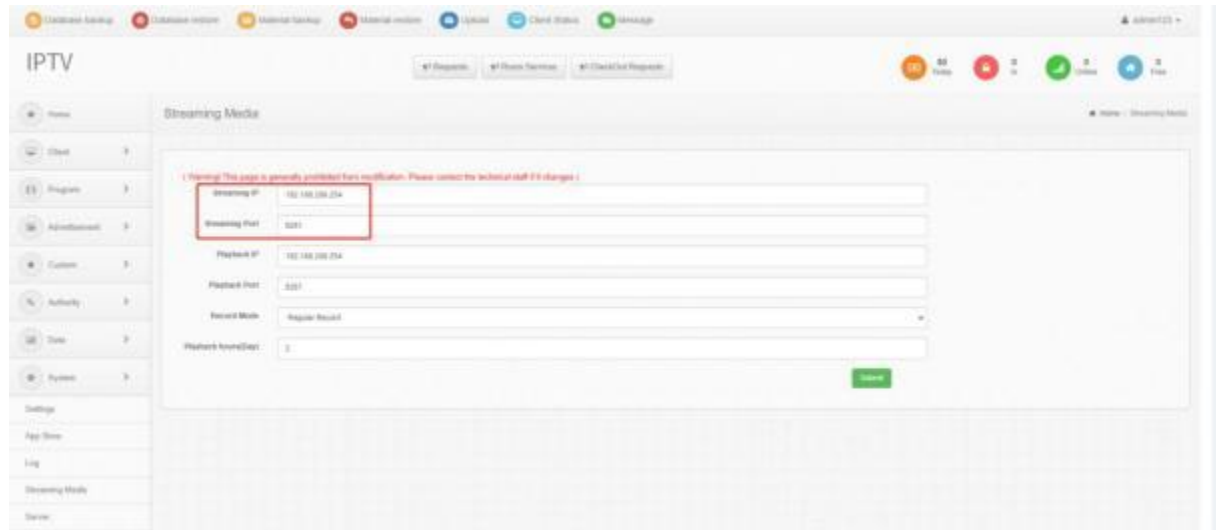


Figure-15

Media Management

Users can upload .ts files here as the VOD sources and Inter-cut sources etc. If the inter-cut content is a picture, please upload the pictures here too as an inter-cut picture option.

Only .ts file format is suggested for video uploading and max 2GB is available for a single file.

And users can edit the filename etc by clicking the pen icon as Figure-16.



Figure-16



Figure-17

NIC Management

In this Web GUI, users can configure the IP address, subnet mask and DNS etc for the 4 Ethernet ports. If there is a cable connection with the port, the network adapter name will show the green icon etc as eth0 in the below picture, otherwise, it will show disconnected status and grey icon as eth1 in the below picture. Please note: users should set the different

network segments for different Ethernet ports, and dialing status and dialing operations are applicable only for some IP sources from a specific IPTV system, not a common operation. Please ignore this dialing operation if there is no such a dialing request.



Figure-18

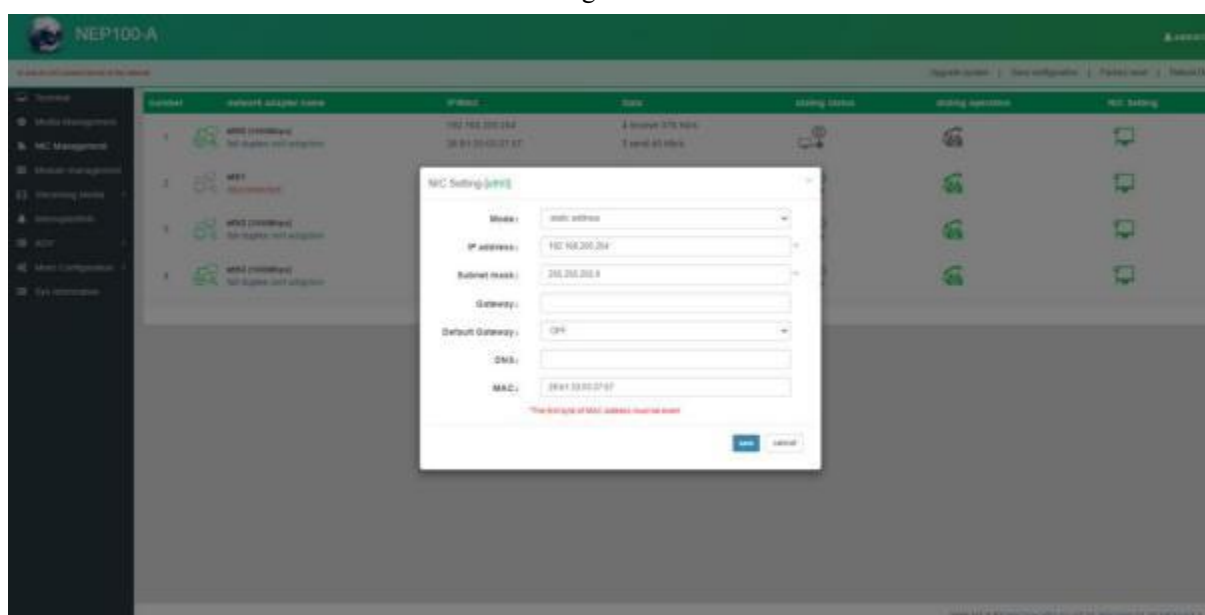


Figure-19

Module Management

Entering the Web GUI of Module Management, users can set the module parameters.

Here let us see how to get UDP SPTS from the DX228S encoder module (Module 1) to the HDP1000 chassis.

Status: Checking version info etc of the encoder module (Figure-20):

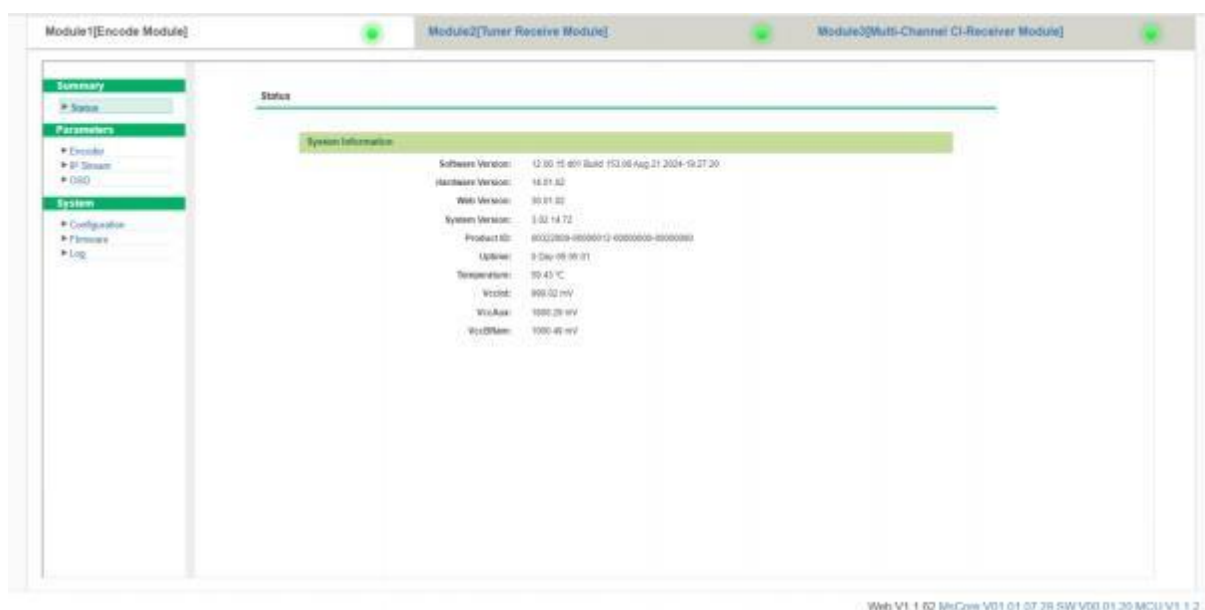


Figure-20

Encoder: Setting program parameters, such as video & audio format and PID etc (Figure-21):

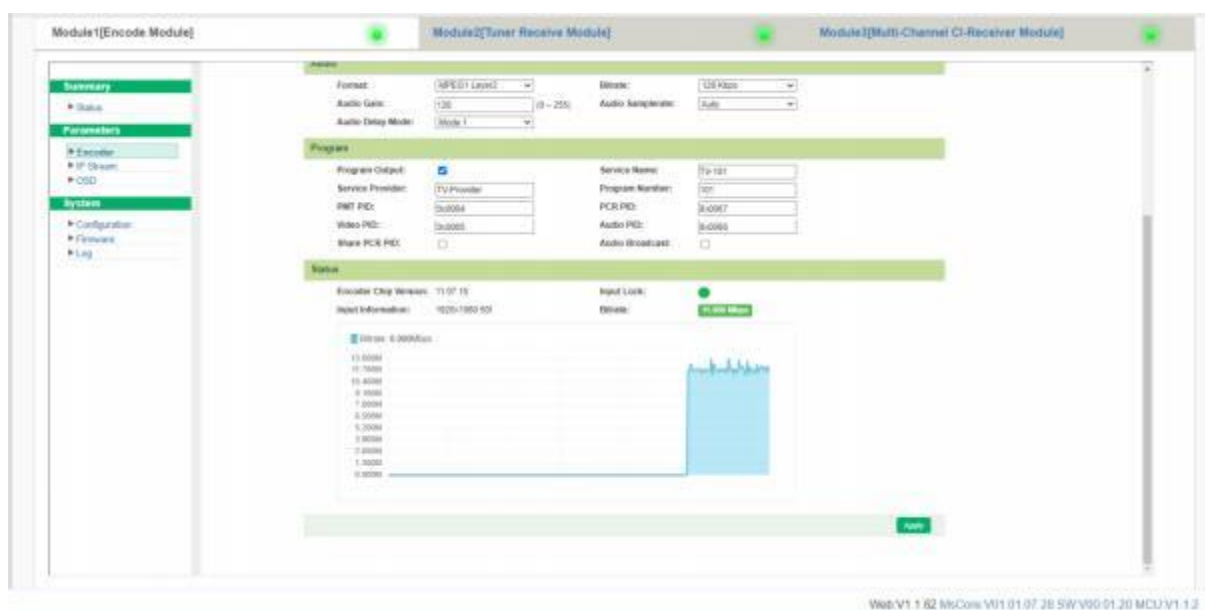


Figure-21

IP Stream: Setting the parameters of SPTS output, such as bitrate and port etc (Figure-22&23)

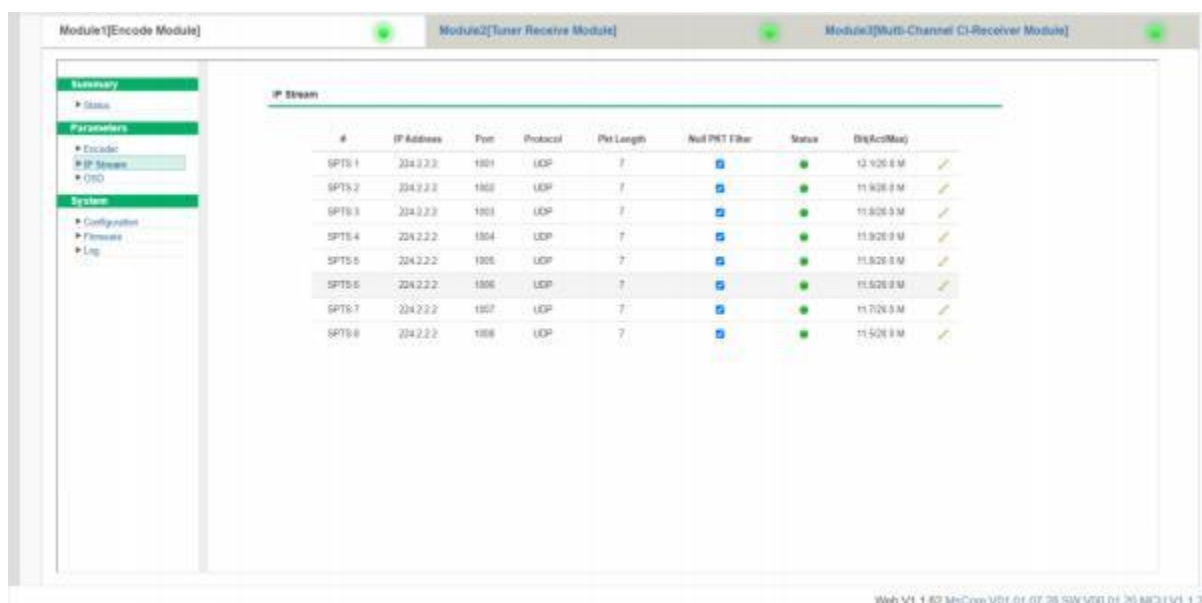


Figure-22

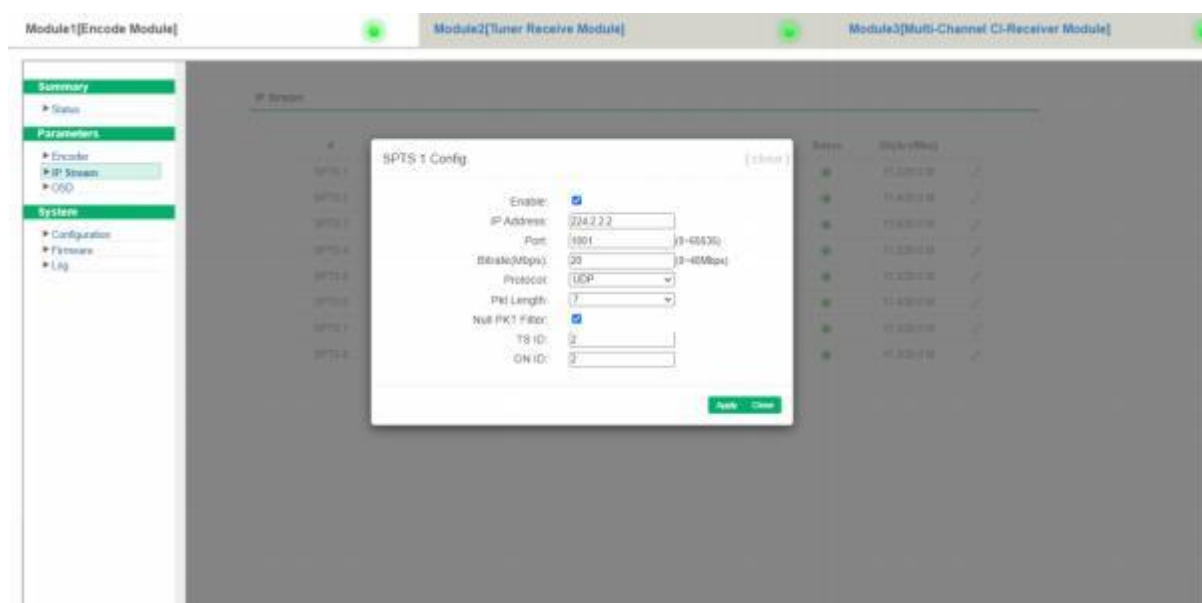


Figure-23

The 8 SPTS here can be chosen as the sources of the Protocol Conversion & Distribution Service as Figure-24&25&26 shows. So do the other modules (Module 2:DX908 module and Module 3:DX902A module).

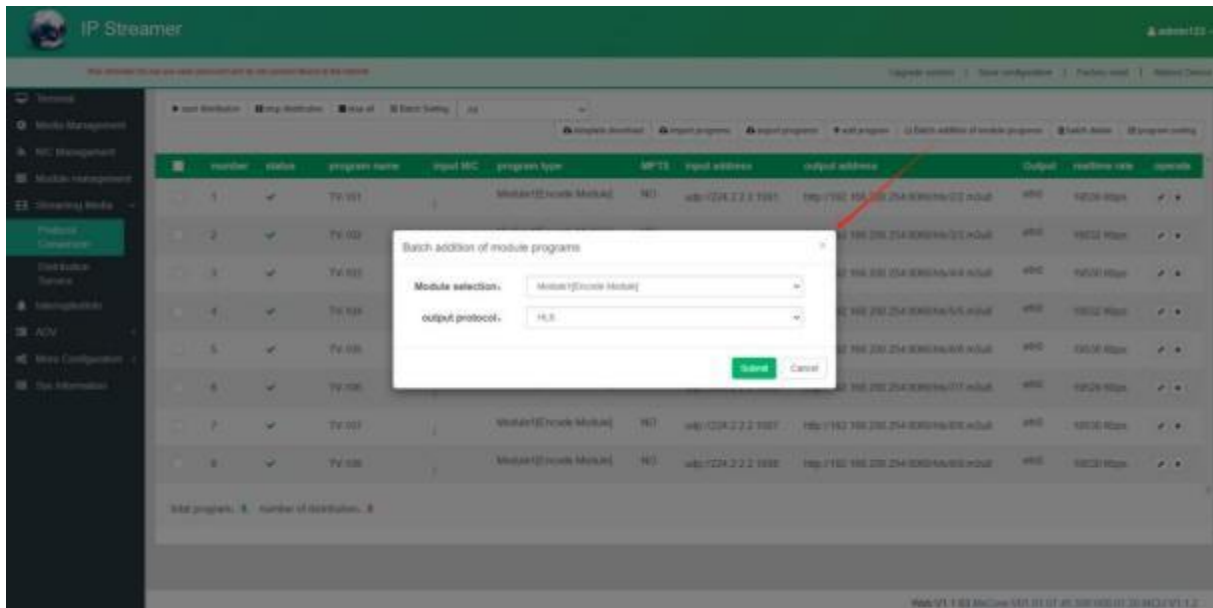


Figure-24

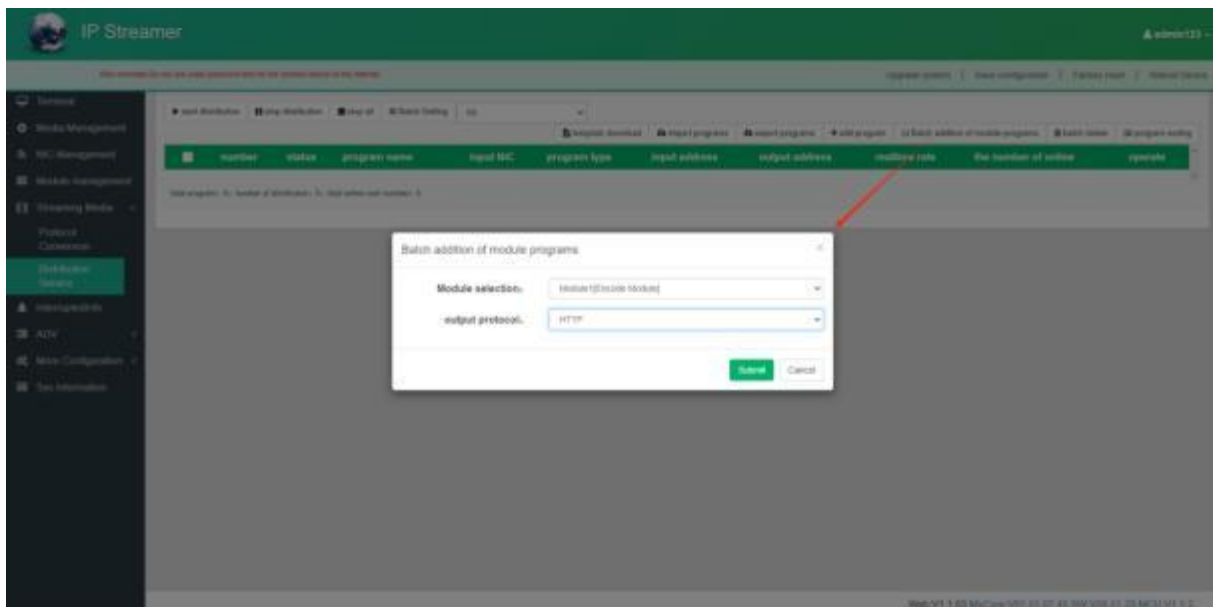


Figure-25

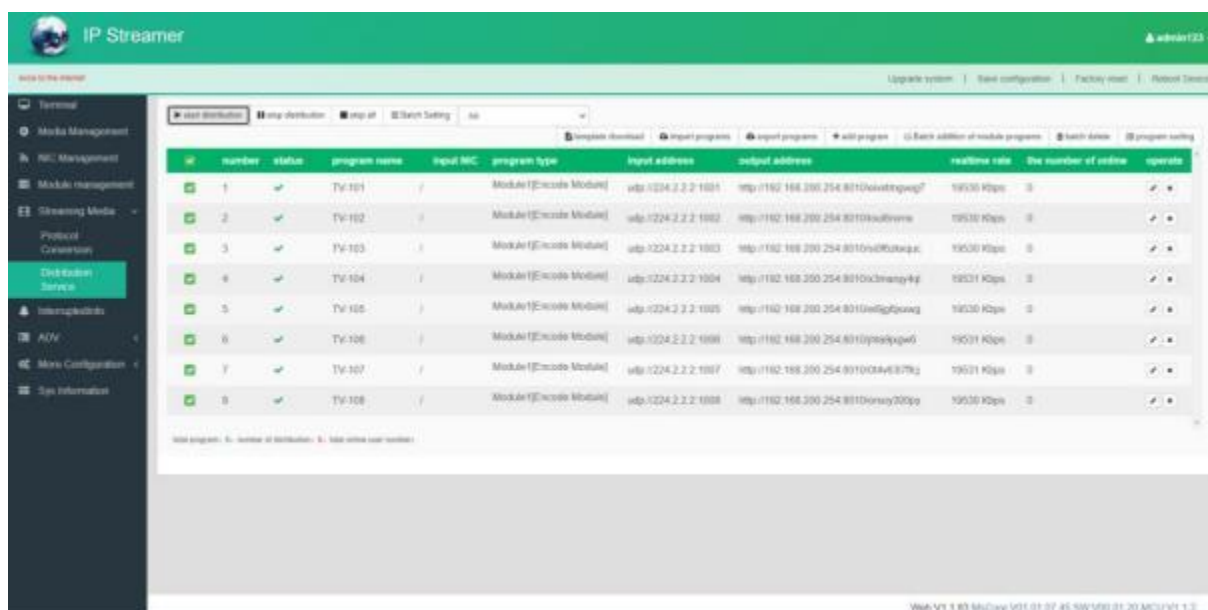


Figure-26

OSD: Logo/Caption/QR Code:

If needed, users can edit and add the logo, caption and QR code for 8 encoder channels as Figure-27&28&29.

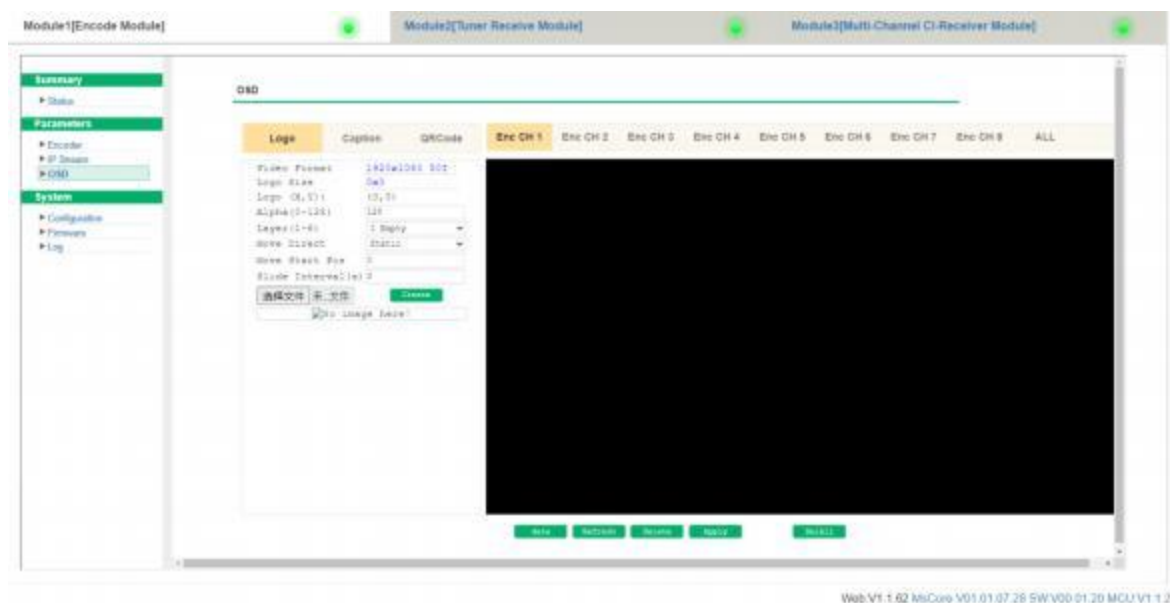


Figure-27

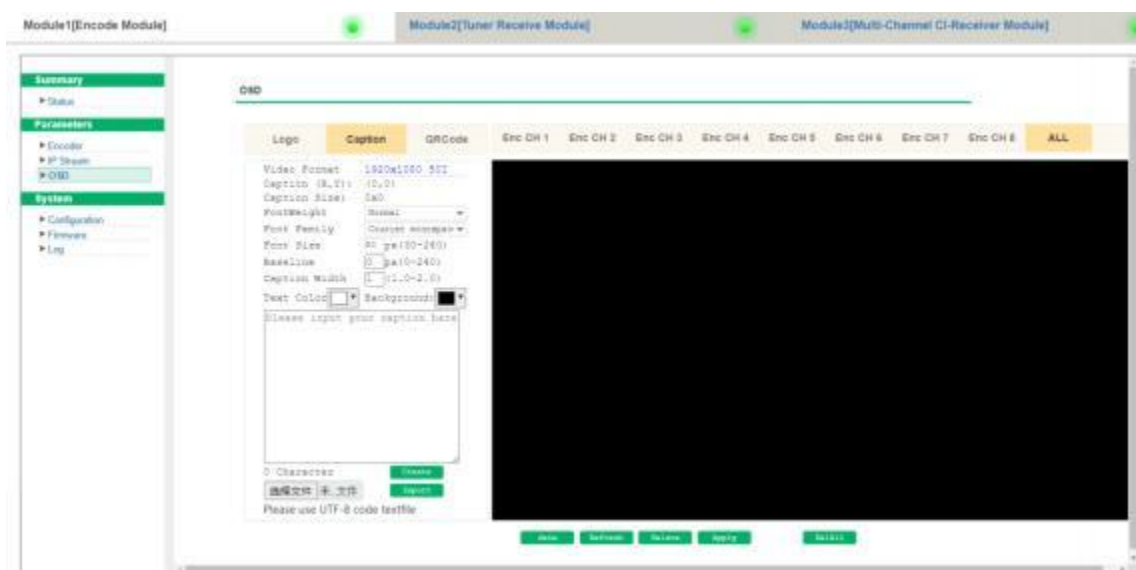


Figure-28

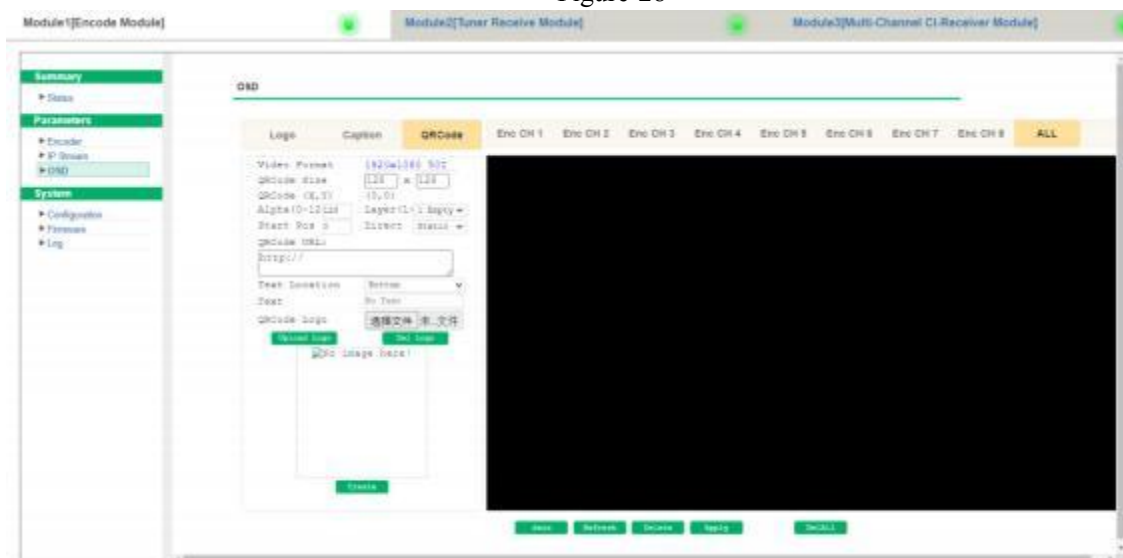


Figure-29

Configuration: Save, restore, backup, load and reset the configuration of the DX228S module configuration.



Figure-30

Firmware: In the Firmware page, users can update the encoder module.

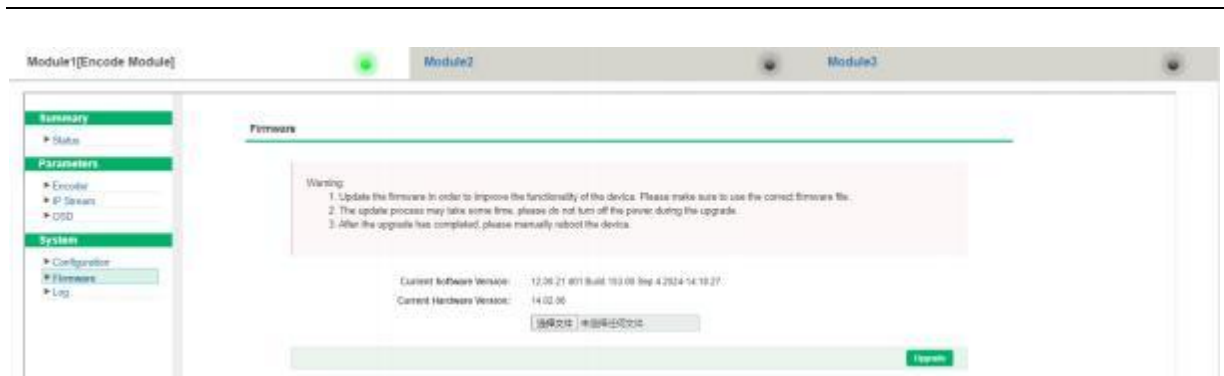


Figure-31

Log: In the log Webpage, users can check and export the Kernal and System log.

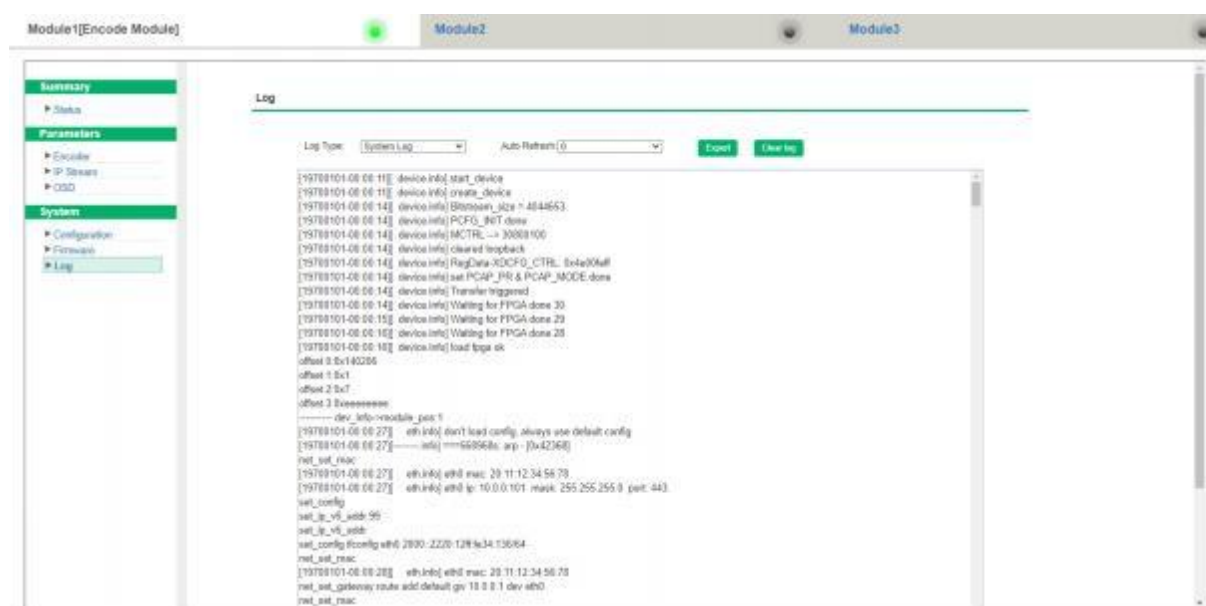


Figure-32

Here let us see how to get SPTS from the module 2, DX908 FTA tuner Module to the chassis.

Status: Checking version info etc of the module (Figure-33):

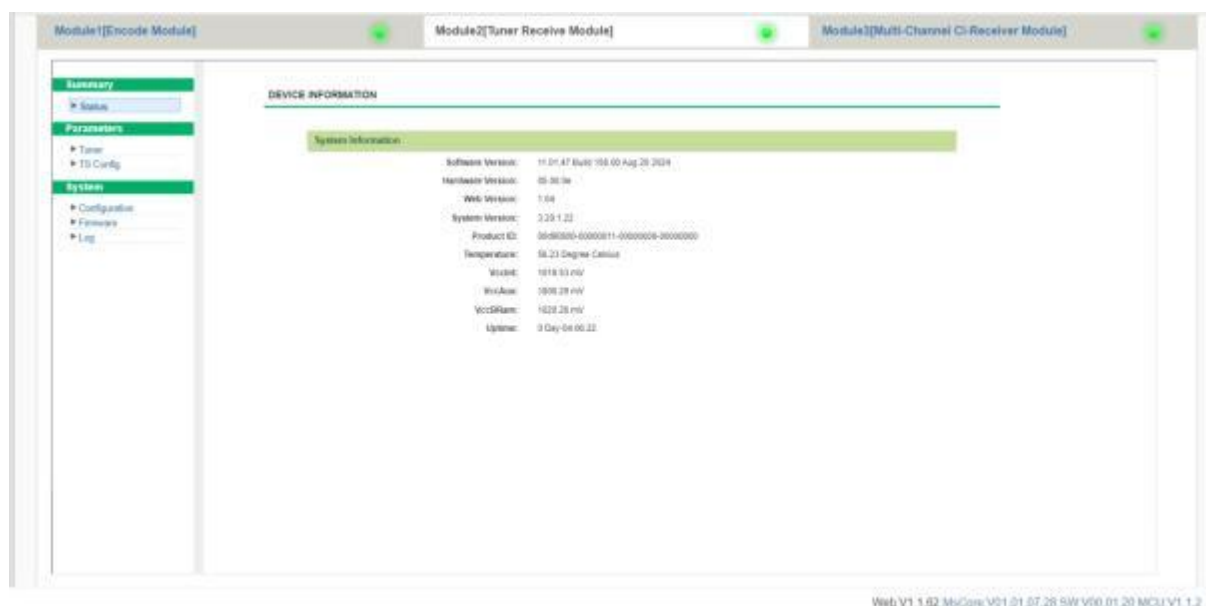


Figure-33

Tuner: Setting parameters to lock satellite signals and monitoring signal locking status as

Figure-34.

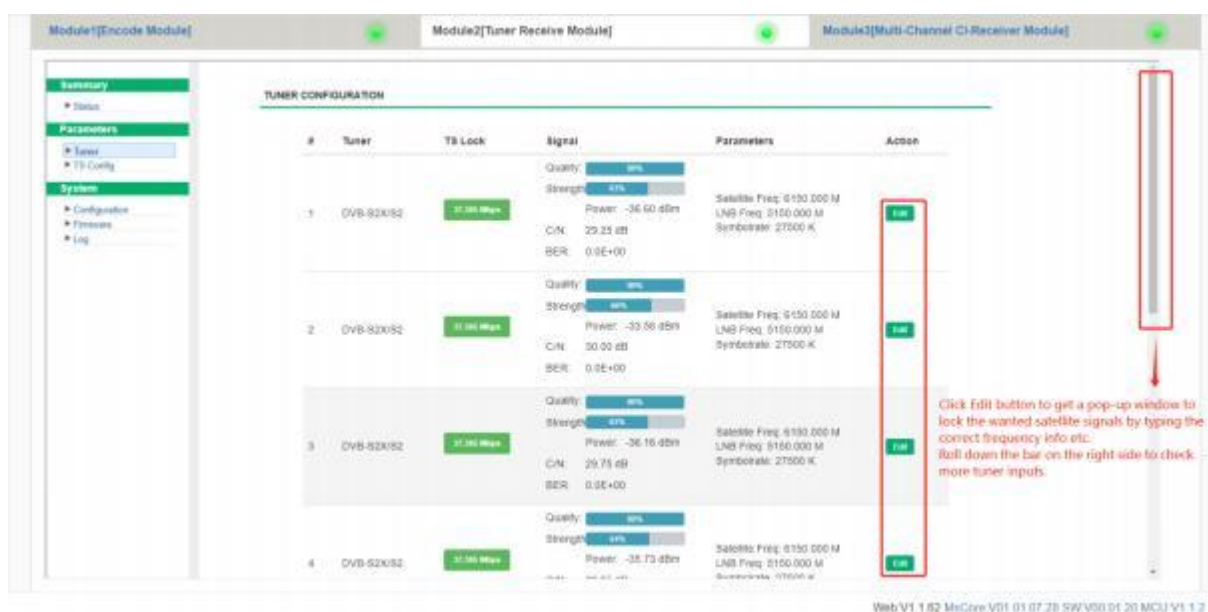


Figure-34

TS Config: Multiplexing the wanted programs to the SPTS output, editing the program info and output IP address & port, and setting BISS descrambling (Figure-35&36).

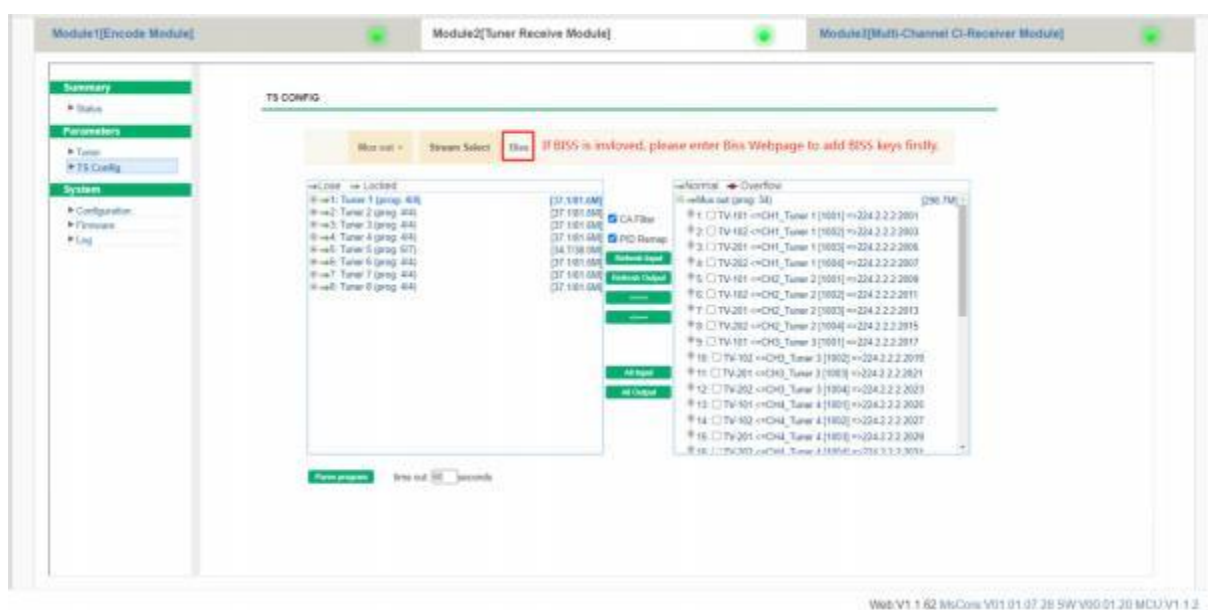


Figure-35

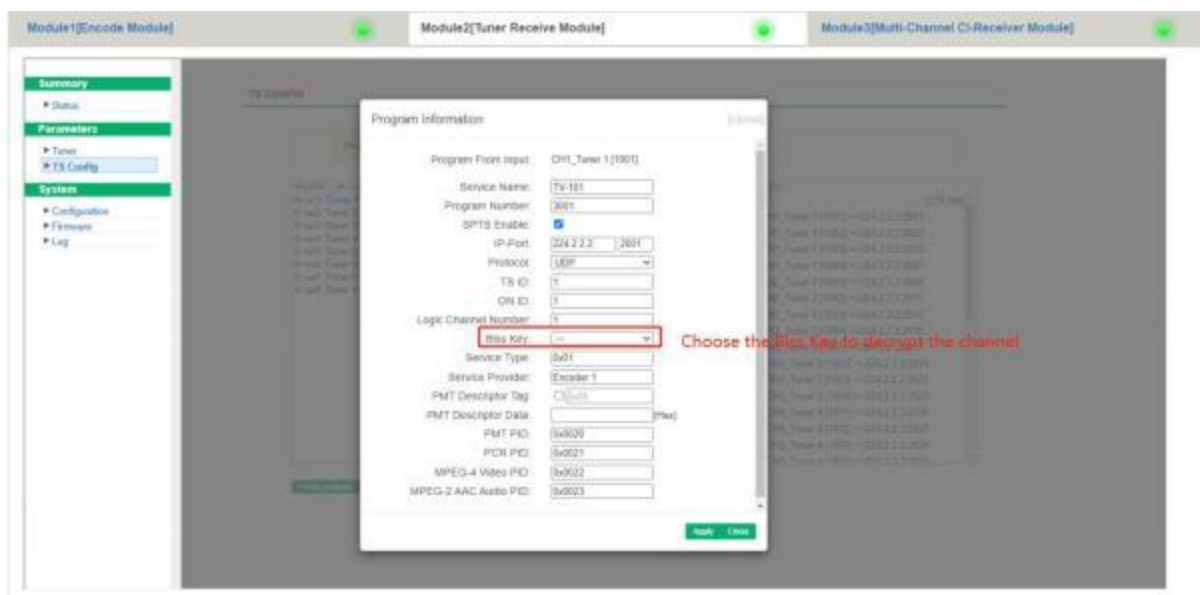


Figure-36

Enter the Web GUI of Protocol Conversion & Distribution Service to add the programs from Module 2 as Figure-37.

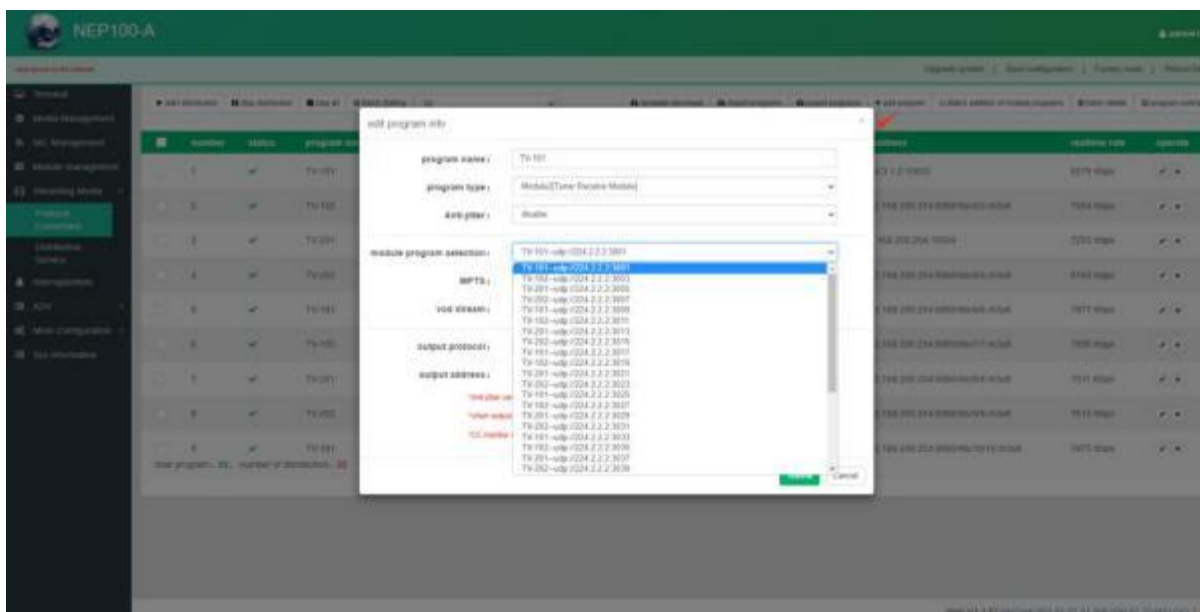


Figure-37

Configuration: Save, restore, backup, load and reset the configuration of the FTA tuner module as Figure-38.

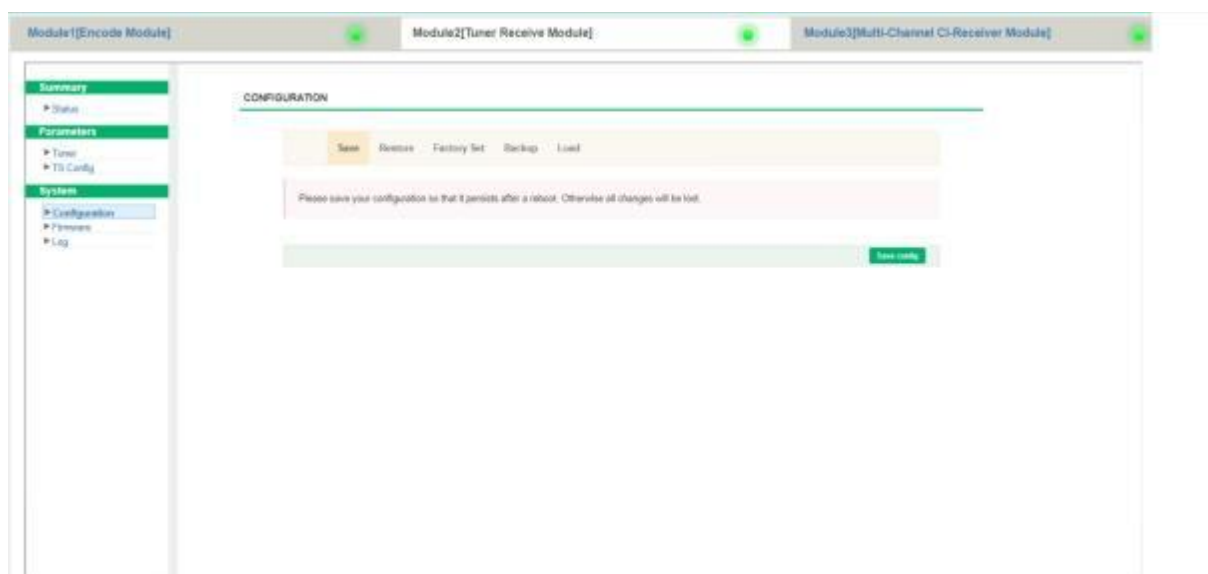


Figure-38

Firmware: Upgrade the FTA tuner module in Firmware webpage as Figure-39.



Figure-39

Log: Check the module log in Log Webpage as Figure-40.

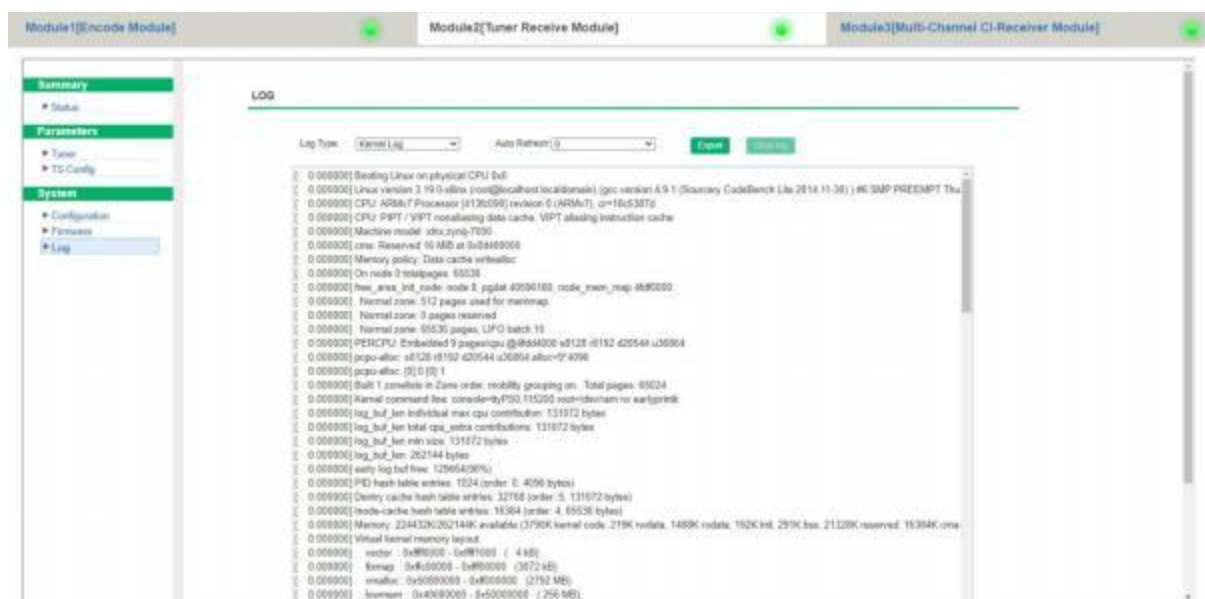


Figure-40

Here let us see how to get SPTS from the module3, DX902A Tuner CI Module to the chassis.

Status: Checking version info etc of the module (Figure-41):



Figure-41

Tuner: Setting parameters to lock satellite signals and monitoring signal locking status as Figure-42&43.

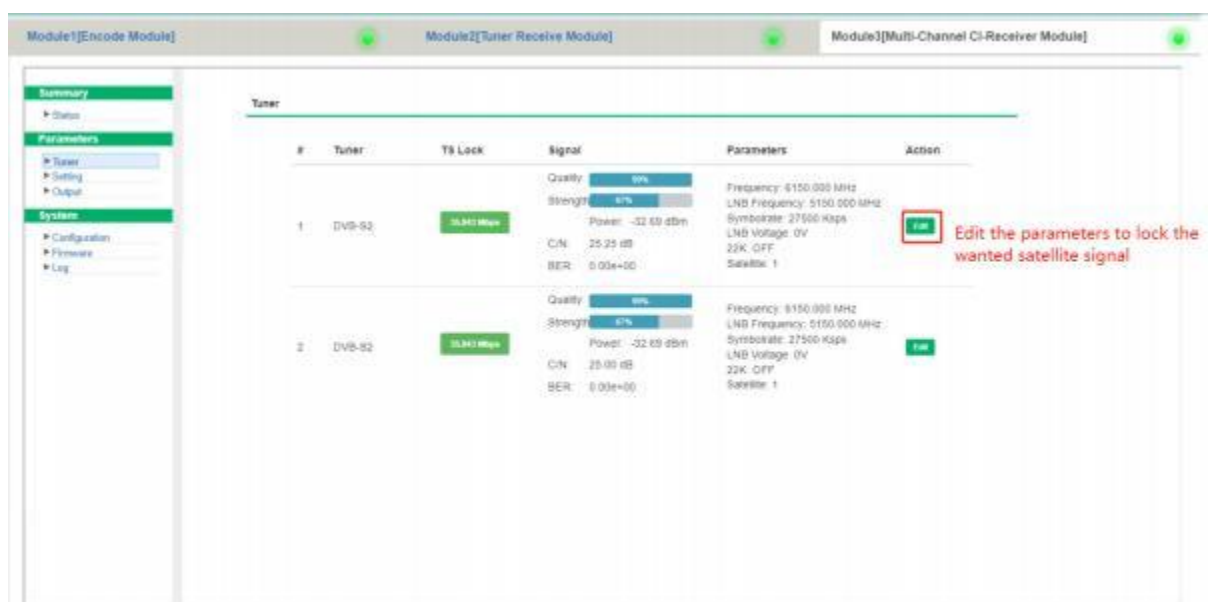


Figure-42



Figure-43

Setting: Multiplex the wanted programs as the SPTS output of the module.

Multiplex the programs to CAM A if the users want to descramble the programs in CAM A. And CAM A means the CAM module inserted into the lower CI slot.

Multiplex the programs to CAM B if the users want to descramble the programs in CAM B. And CAM B means the CAM module inserted into the upper CI slot.

Multiplex the programs to BISS if they are encrypted with BISS. Please firstly add BISS keys in BISS webpage and then click the program name under BISS menu item to choose the correct BISS Key to decrypt the corresponding program.

If the programs are FTA, please multiplex them to Others.

All multiplexed programs will be listed as SPTS output in output Webpage.

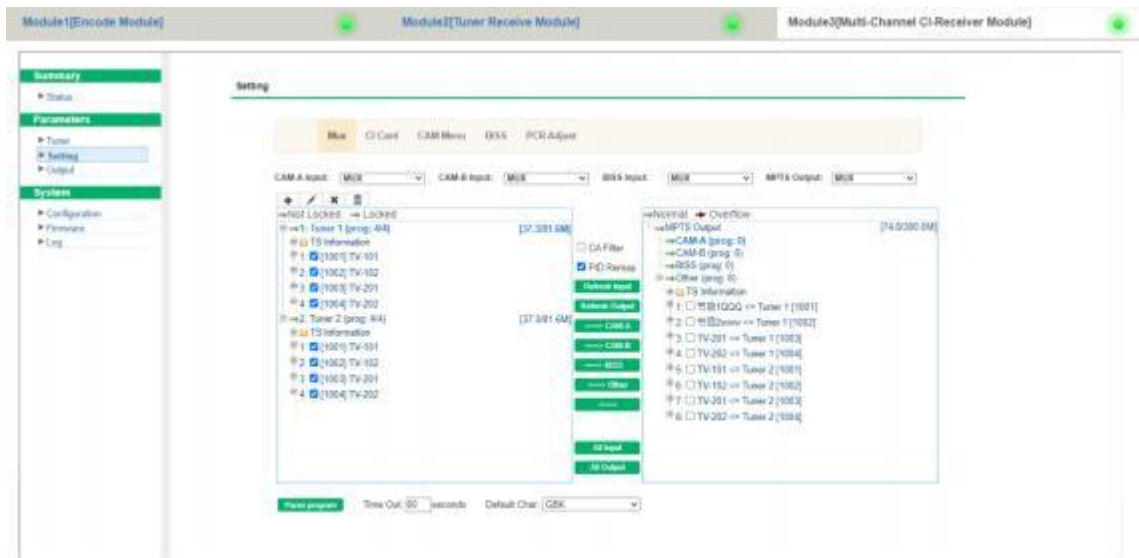


Figure-44

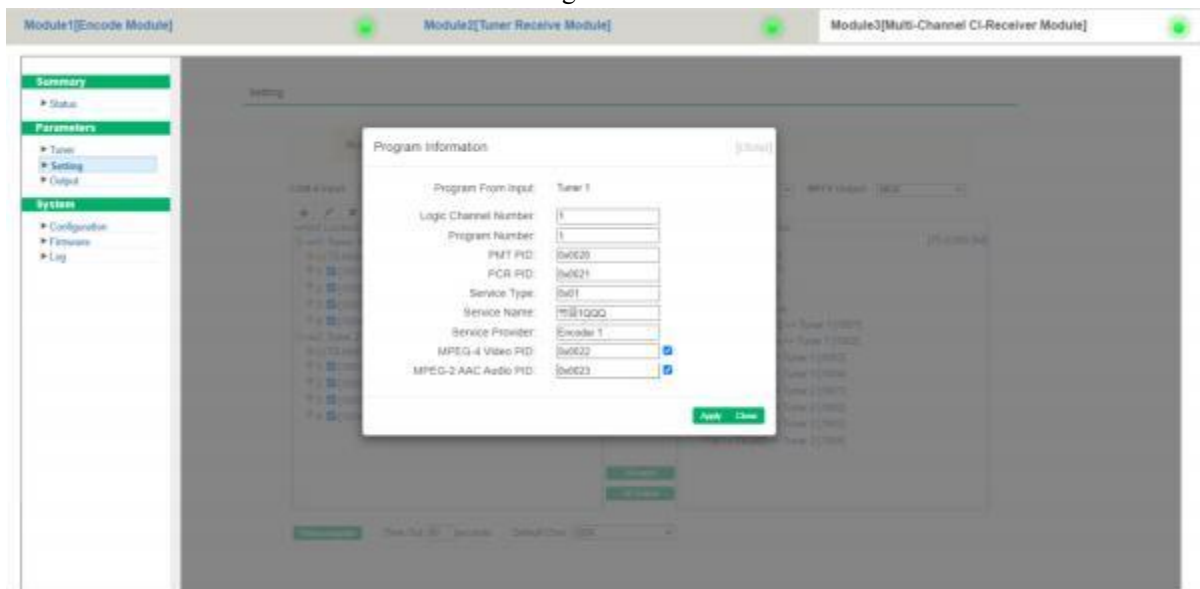


Figure-45

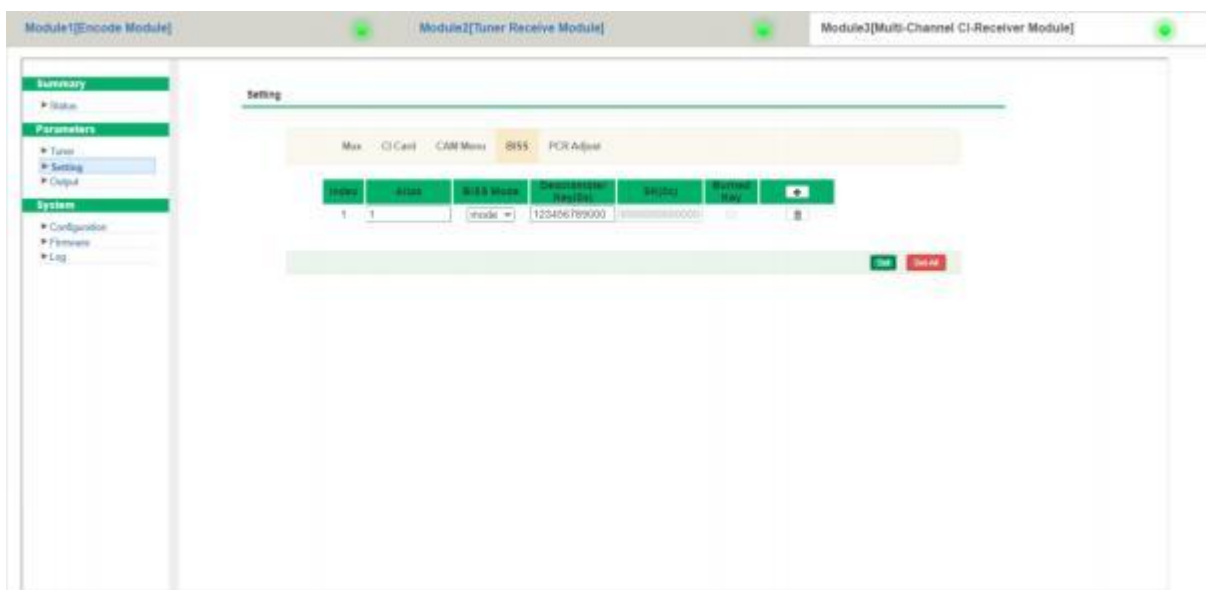


Figure-46

Setting--CI card: Insert the CAM modules into the CI slots and set the descrambling parameters.

Users can get and check some info from the CAM Menu Webpage.

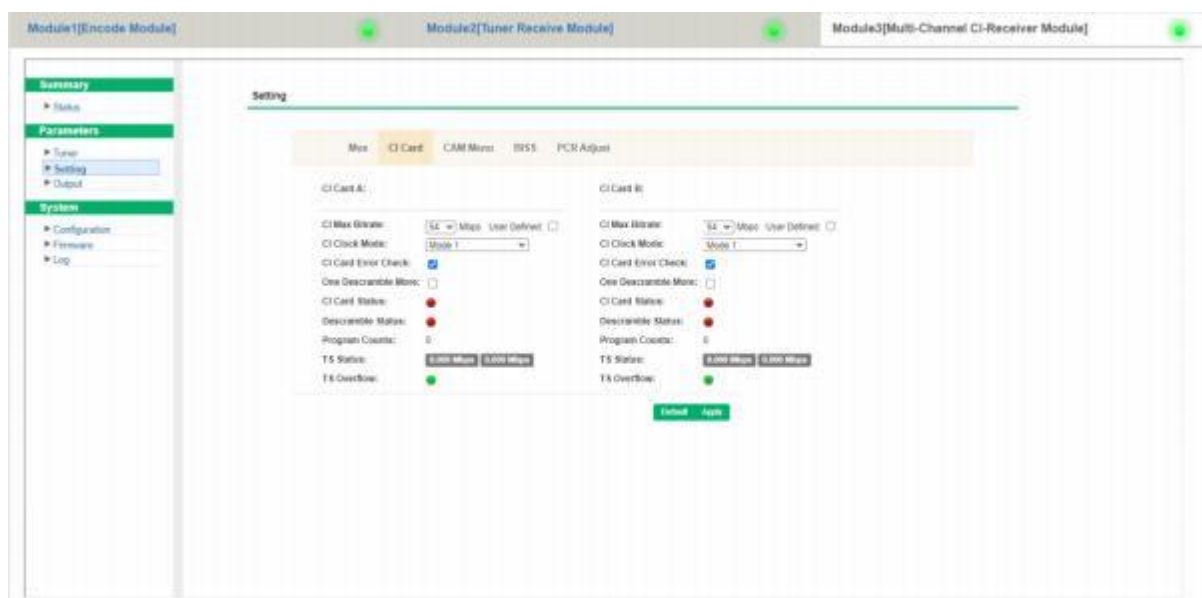


Figure-47

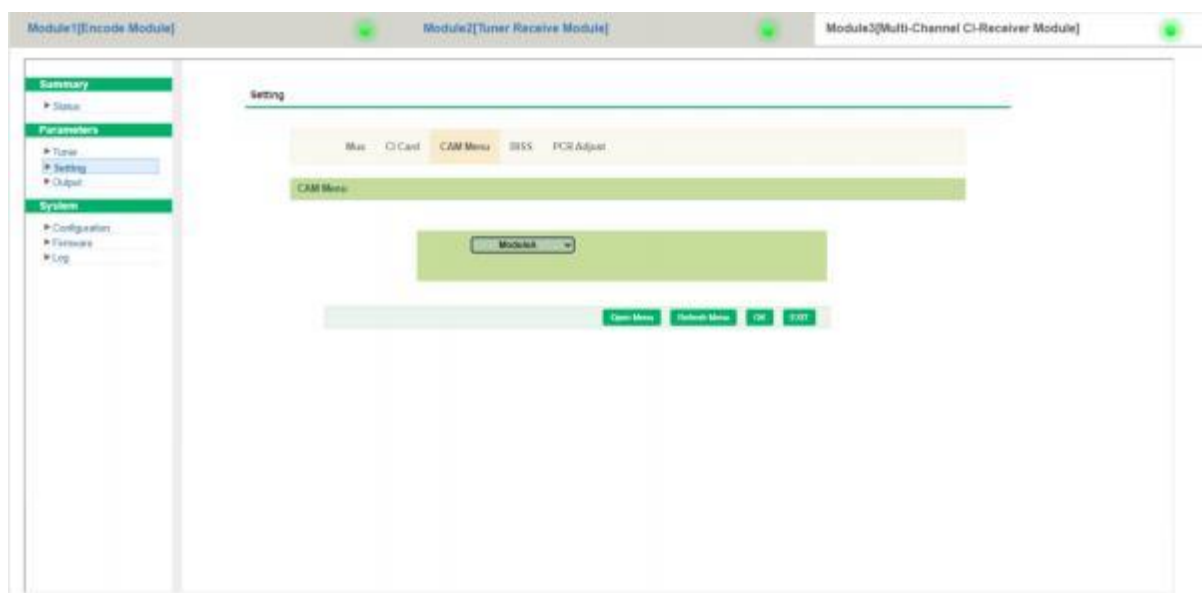


Figure-48

Setting—PCR Adjust: Users can Enable the PCR adjust feature as below if necessary.

For more information, please contact our technician for a guide.

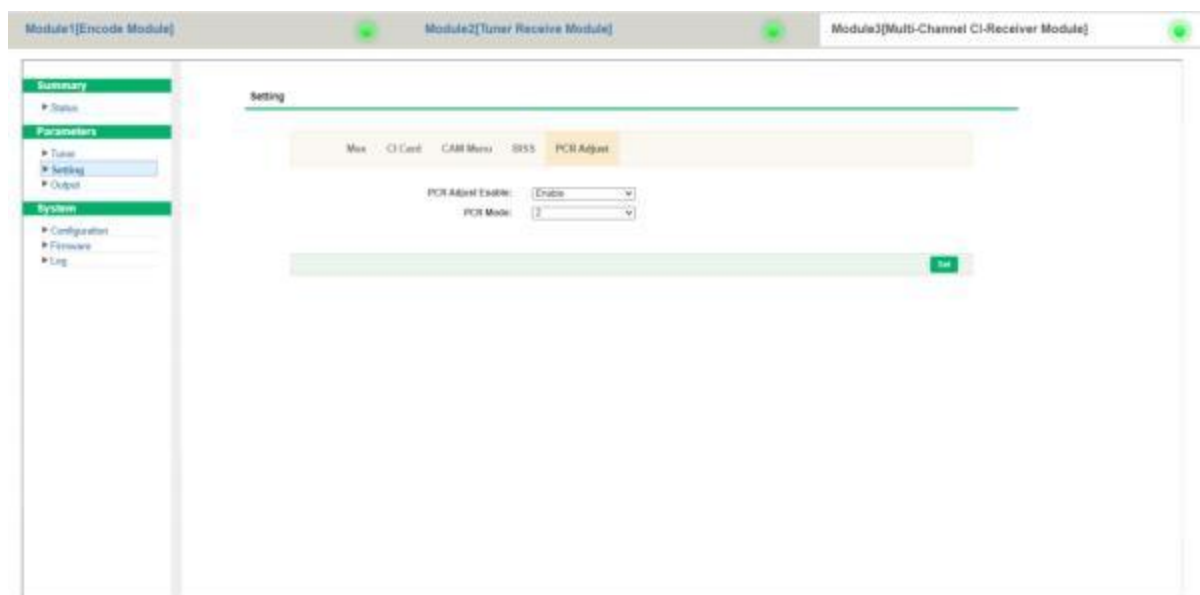


Figure-49

Output: The 16 SPTS from the tuner CI module are listed in Output Webpage as Figure-50 where users can edit the output parameters. And then enter the Web GUI of Protocol Conversion & Distribution Service to add the programs from Module 3.

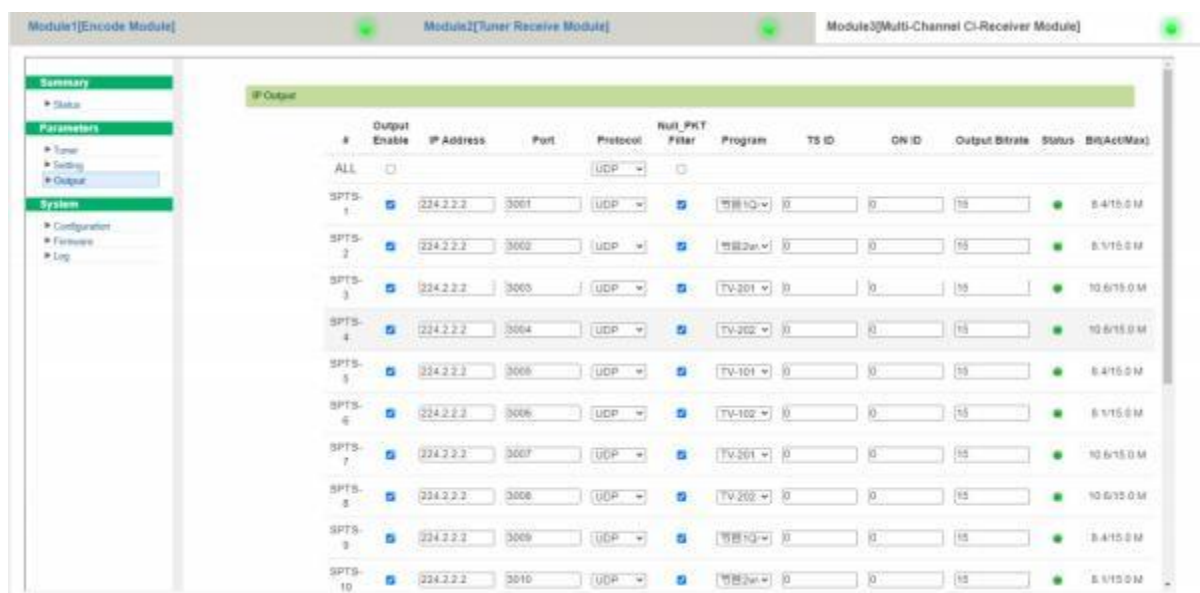


Figure-50

Configuration: Save, restore, backup, load and reset the configuration of the FTA tuner module as Figure-51

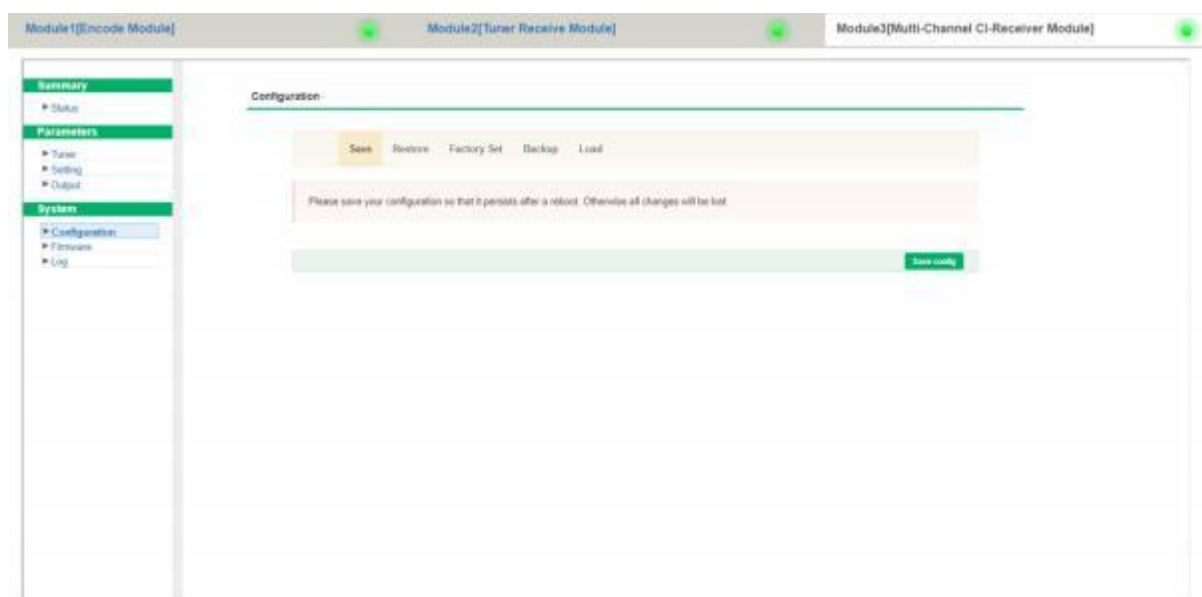


Figure-51

Firmware: Upgrade the tuner CI module in the Firmware page.



Figure-52

Log: Check the module logs as Figure-53.

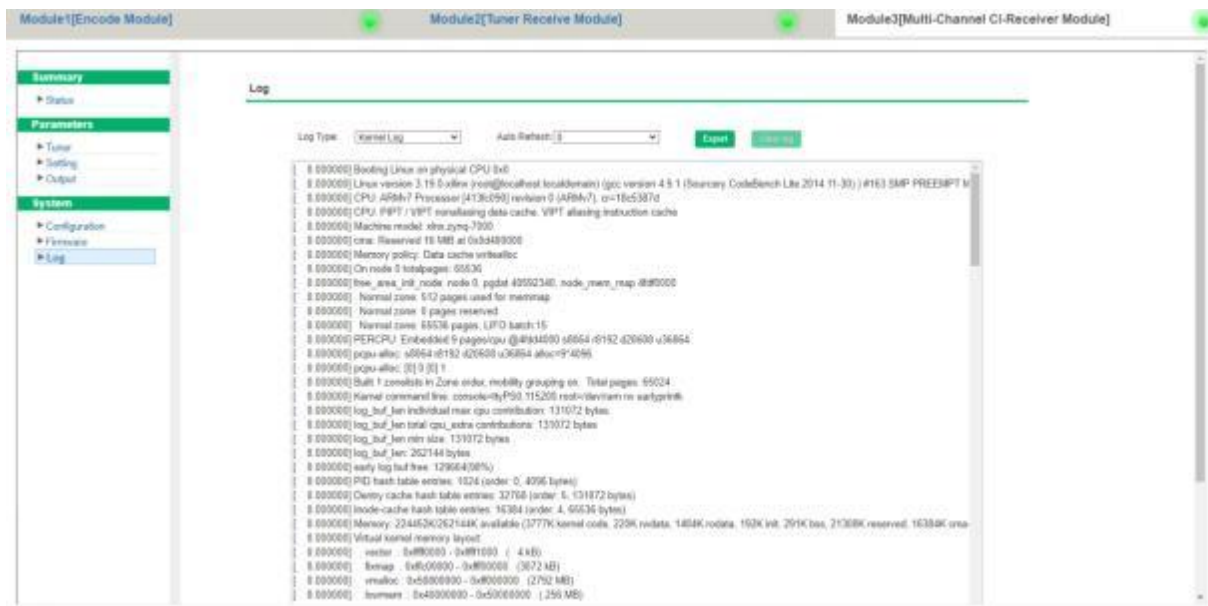


Figure-53

Streaming Media→ Protocol Conversion

In Protocol Conversion Webpage, users can add programs from Ethernet ports, embedded modules and uploaded ts files in Media Management and distribute them over the specific protocol. Input protocol supports HLS, HTTP, RTP, UDP, RTSP (RTP over UDP, payload MPEGTS) and SRT. Output protocol supports HLS, UDP, RTP, SRT and RTMP (RTMP is only supported when input sources are H.264 and AAC encoding). Output address can't be changed when selecting HLS as output protocol. (Figure-54)

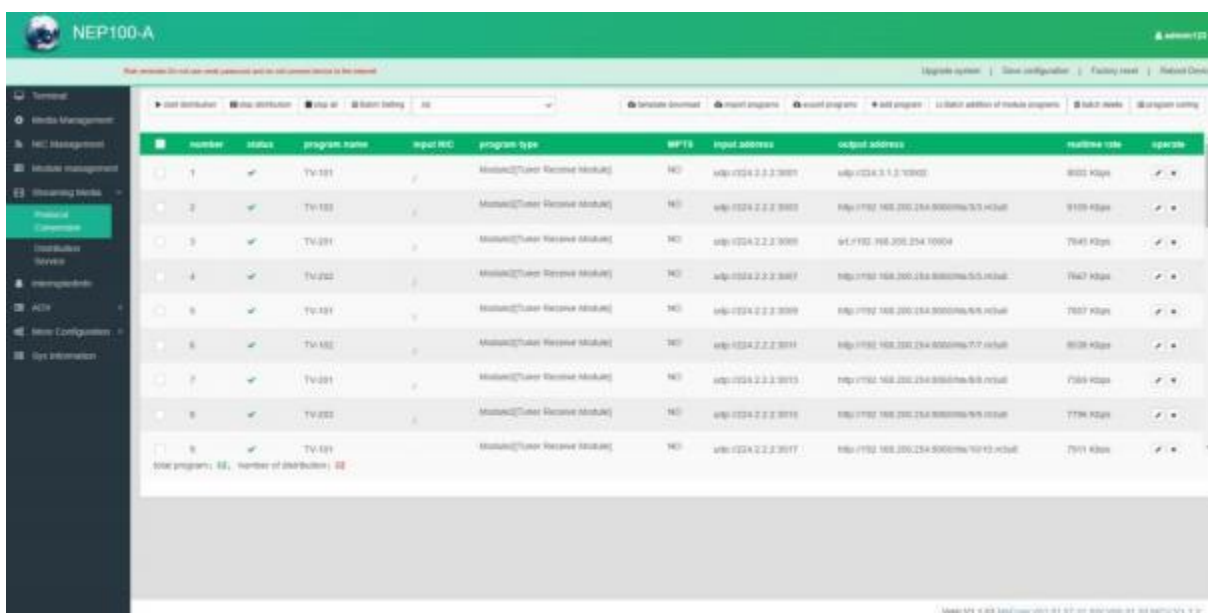


Figure-54

Adding the program one by one:

Tn : Click it to add a program and edit the program information as below box.

edit program info

program name:

program type:

Anti-jitter:

input NIC:

input address:

MPTS:

vod stream:

output protocol:

output address:

*Anti-jitter can smooth video and re-package, but it will consume more system resources. Please use caution.
 *When output protocol is RTMP, input protocol only supports UDP and RTP.
 *CC monitor open only during testing

normal
 PPPoE
 Custom program
 Module1[Multi-Channel CI-Receiver Module]
 Module2[Tuner Receive Module]
 Module3[Encode Module]

eth0
 eth1
 eth2
 eth3
 lo

UDP
 HLS
 RTMP
 RTP
 SRT

Figure-55

Program type:

Normal means the programs from the Ethernet ports without Dialing operation.

PPPoE means the programs from the Ethernet ports with Dialing operation.

Custom program means the TS files uploaded in the Media Management.

Module 1&2&3 means the programs from the modules embedded in the HDP1000 chassis.

Adding the programs in a batch from a module as Figure-56:

Batch addition of module programs

Module selection:

output protocol:

Batch addition of module programs

Module selection:

output protocol:

Figure-56

Users can add the programs in a batch quickly by downloading a .txt file template firstly and then import programs from an edited .txt file. When all programs are added in the device, users can export programs as a backup txt file and use it in the similar application as Figure-57.

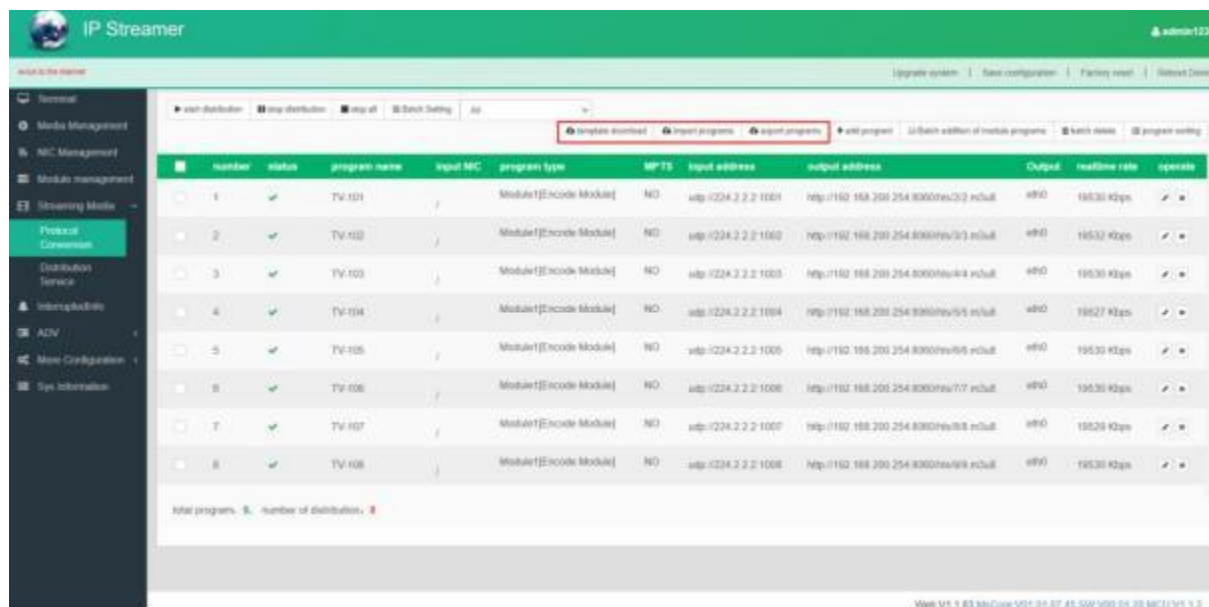


Figure-57

Edit the program information one by one:



: Click them to editor select programs

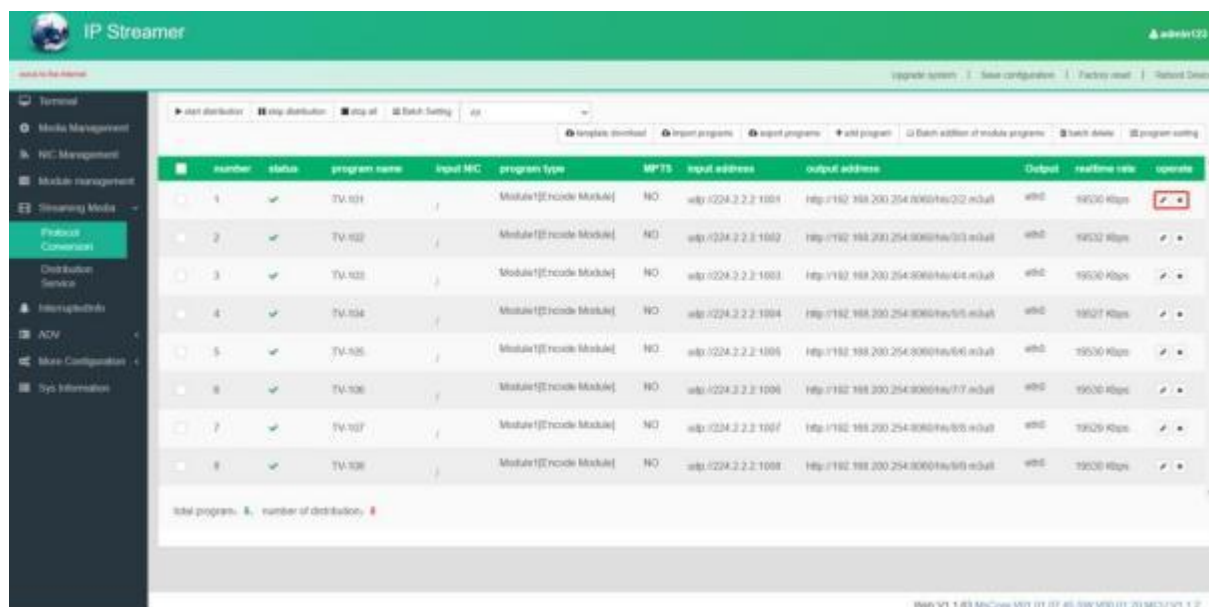


Figure-58

Batch Setting: Check the box in front of program number, and then click it to edit programs information in a batch as below box. “Keep” means keep the original program information.

batch delete: Click to delete programs in a batch by choosing the program.

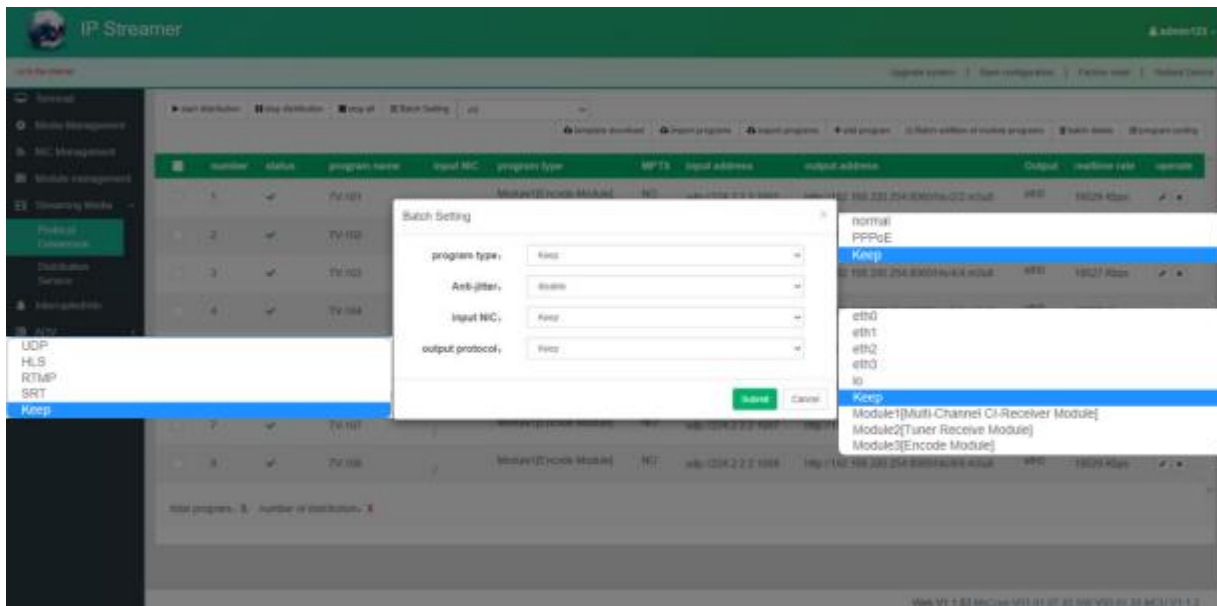


Figure-59

Users can get the specific program list with a filtering option, such as where the programs are from, for a quick checking and monitoring as Figure-60.

lo means Looback adaptor, and usually it is useless. If there is an application request, please contact our technician for further guide.

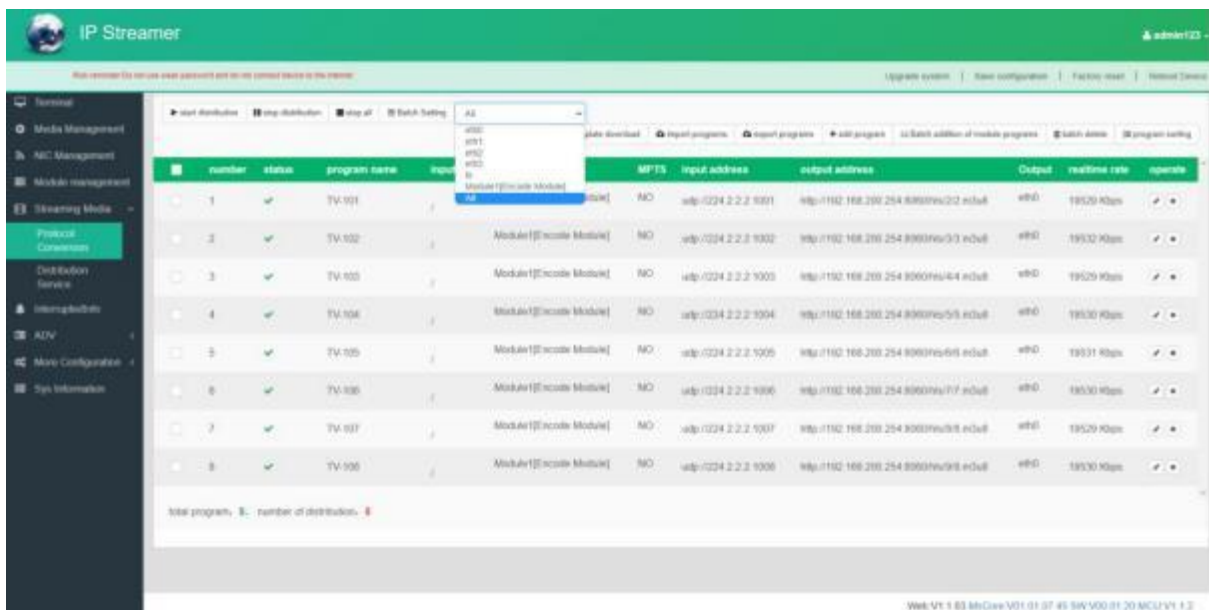


Figure-60

Check the box ahead the number and click  to enable the program distribution.

If distribution is successful, status will show  and there will be a realtime rate showing as Figure-61. Users can stop a program distribution, several programs distribution in a batch or stop all program distribution by checking the boxes of programs and clicking  .

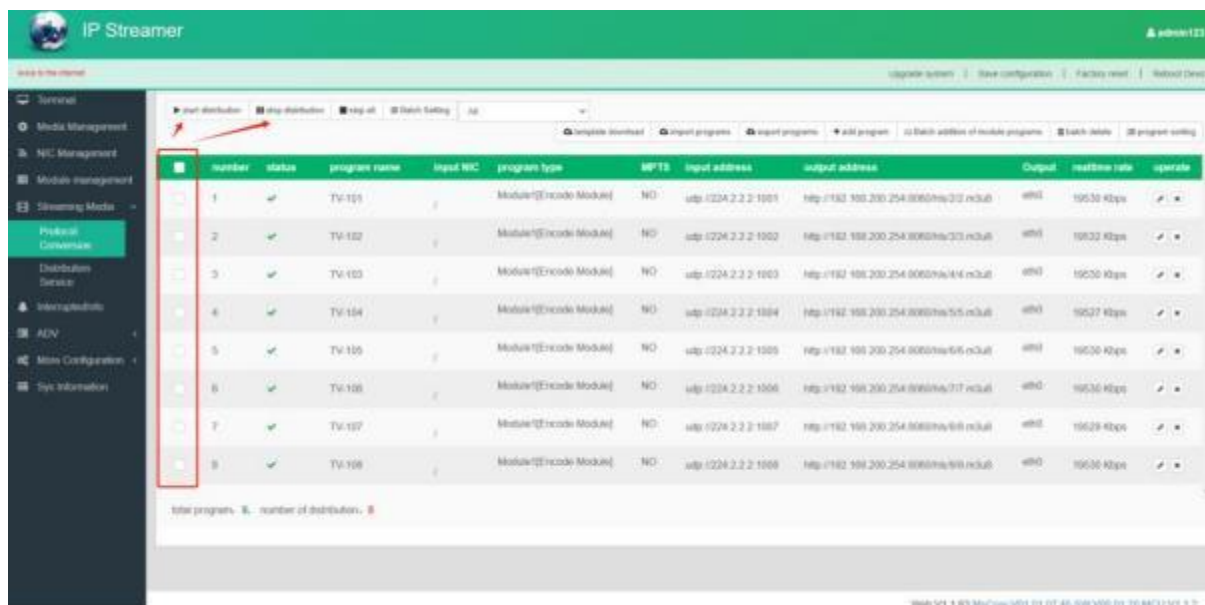


Figure-61

program sorting: Click it to sort programs manually by dragging program's name. This will be the program list in Live.



Figure-62

Streaming Media→ Distribution Service

Clicking “Distribution Service”, it will display the interface where users can set the HTTP or RTSP parameters. HLS, HTTP and RTSP can’t be converted into HTTP directly, but UDP and RTP can be converted into HTTP. The setting principle is same as “Protocol Conversion”. (Figure-63)

Note: If users want to set IP output over HTTP, they need to convert HLS/HTTP/RTSP into UDP/RTP firstly, and then converting UDP/RTP into HTTP (Io will be used in this case).

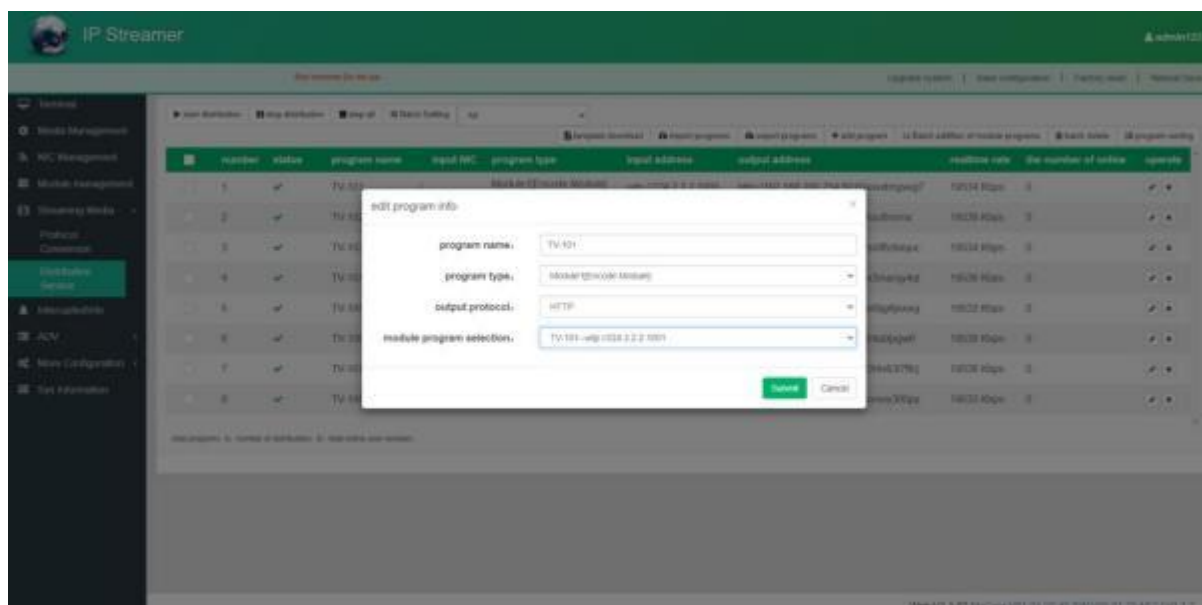


Figure-63

Interrupted Info

Users can enter this Webpage to set an inter-cut of a live channel, VOD (.ts file) or picture for the specific terminals and the specific date/time as Figure-64, which can be used in the cases, such as a breaking news or hotel public notification.

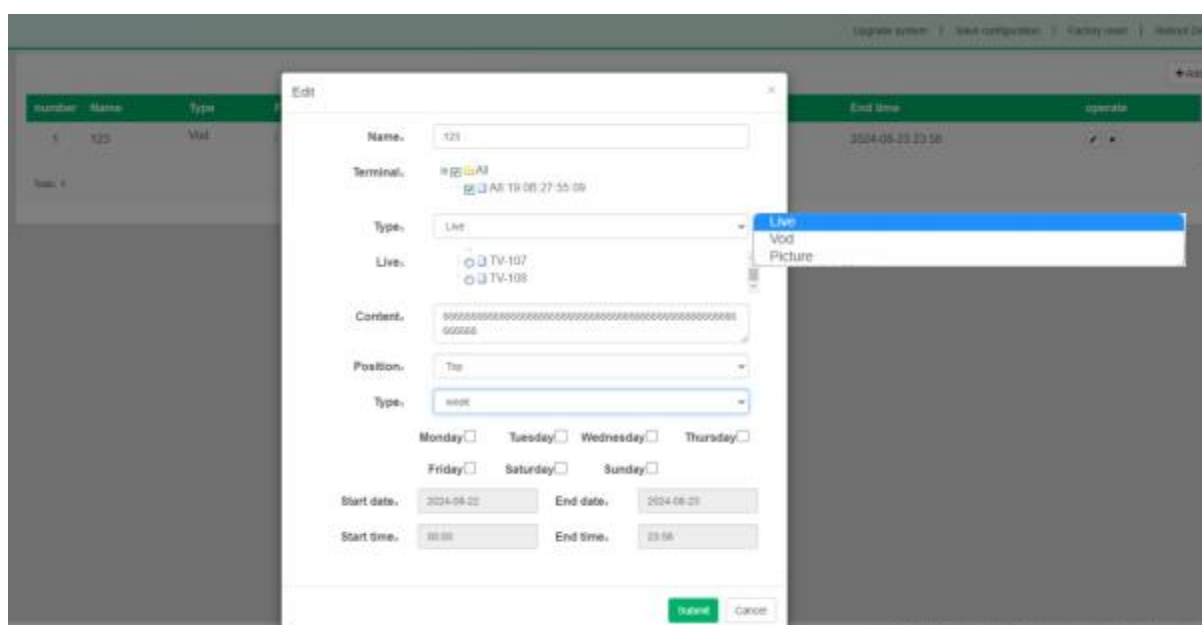


Figure-64

ADV→ Rolling Subtitles

ADV function is only applicable to IP output application, and the STB and TV sets must have HONDAO IPTV APK installed.

Clicking “Rolling Subtitles”, it displays the interface where users can add rolling subtitles and set subtitle parameters. After submitting, rolling subtitles will appear when playing

programs. (Figure-41)

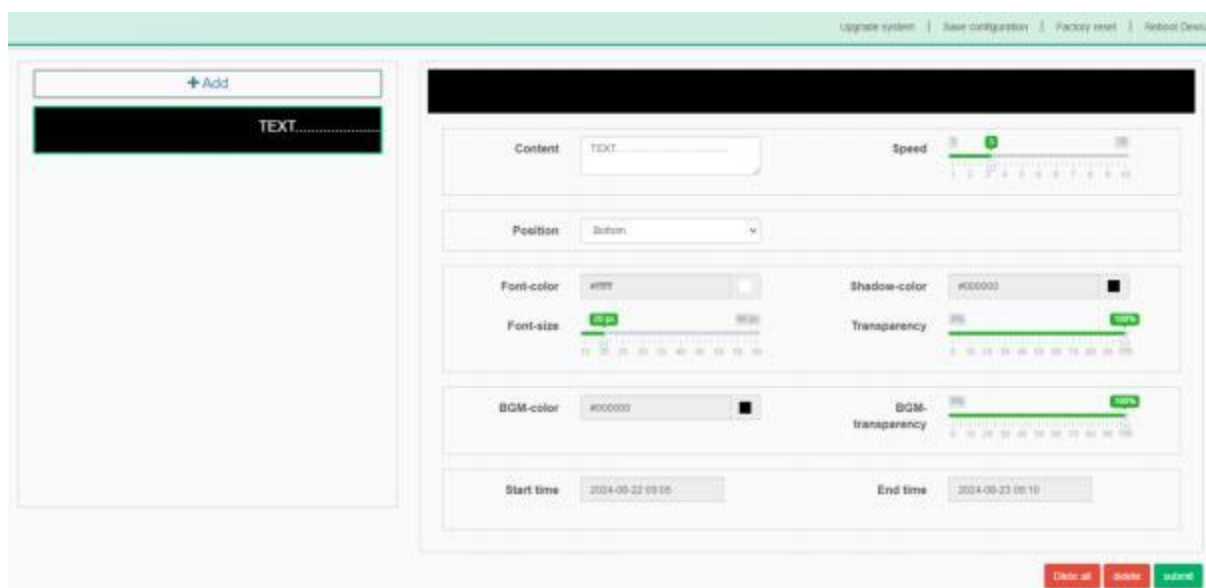


Figure-65

ADV→ Boot Images

Clicking “Boot Images”, it displays the interface where users can add boot images. Click “Add” and then upload it. After submitting, boot images will appear when starting HONDAO IPTV APK. (Figure-66)

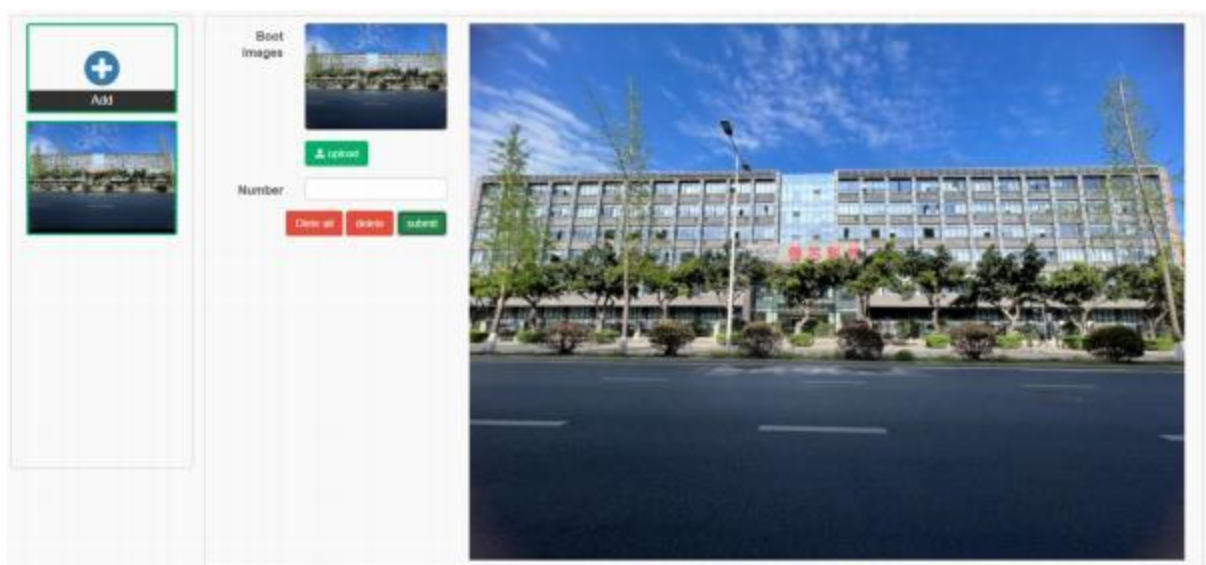


Figure-66

More Configuration→ System Set

Clicking “System Set”, it displays the interface where users can select client protocol and data output port, and set boot option. (Figure-67)

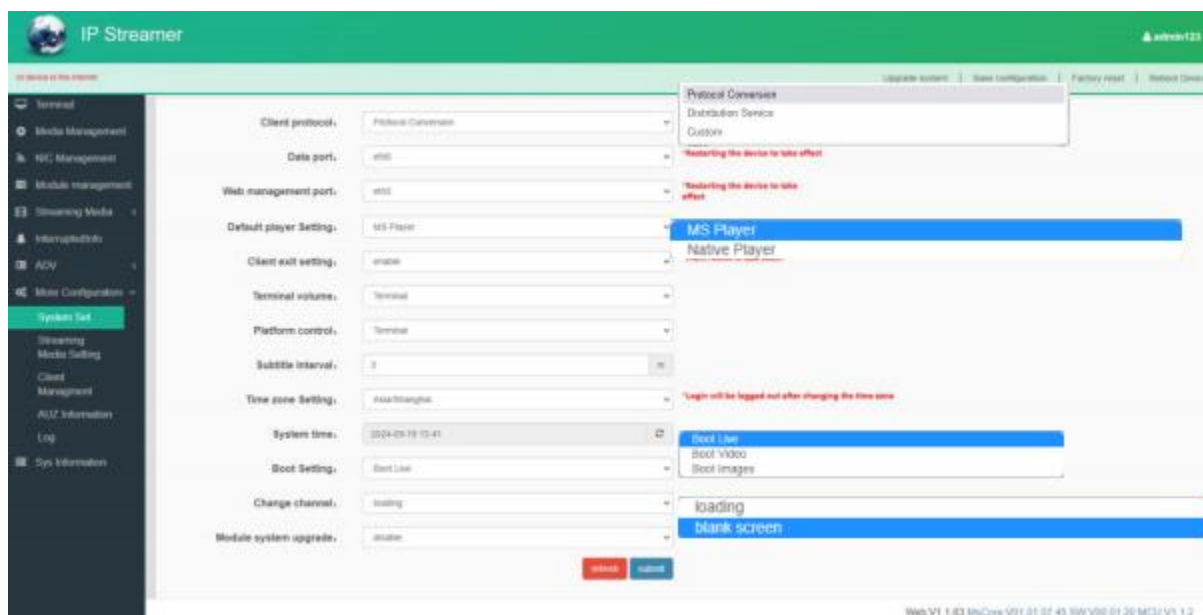


Figure-67

Client protocol:

Protocol Conversion: Boxes or TV sets with HONDAO APK installed will play the distributed programs in Protocol Conversion Webpage only.

Distribution Service: Boxes or TV sets with HONDAO APK installed will play the distributed programs in HTTP Webpage only.

Custom: Boxes or TV sets with HONDAO APK installed will play the distributed programs in both webpage of Protocol Conversion and Distribution Service.

Data port & Web management port:

You can choose one Ethernet port as Data port (IP output) and another Ethernet port as Web management port. Then the rest 2 Ethernet ports will be the ports for IP inputs only automatically.

Default player setting:

MS Player means the player tool in HONDAO IPTV APK.

Native player means the player tool installed in the terminal, not from HONDAO IPTV APK. The player option can help solve some potential compatibility issue.

Boot setting: Live/Video/Image

If boot setting is set as “Boot Video”, please upload boot video here and it will appear when

starting HONDAO IPTV APK. The available video file should not exceed 500M.

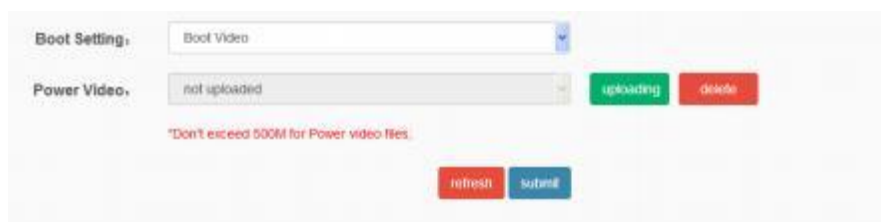


Figure-68

Changing channel: Loading & Black Screen

It is a setting for live channel switching, and please make a choice as per the actual application.

More Configuration→ Streaming Media Setting

Clicking “Streaming Media Setting”, it displays the interface where users can set streaming media parameters. (Figure-69)

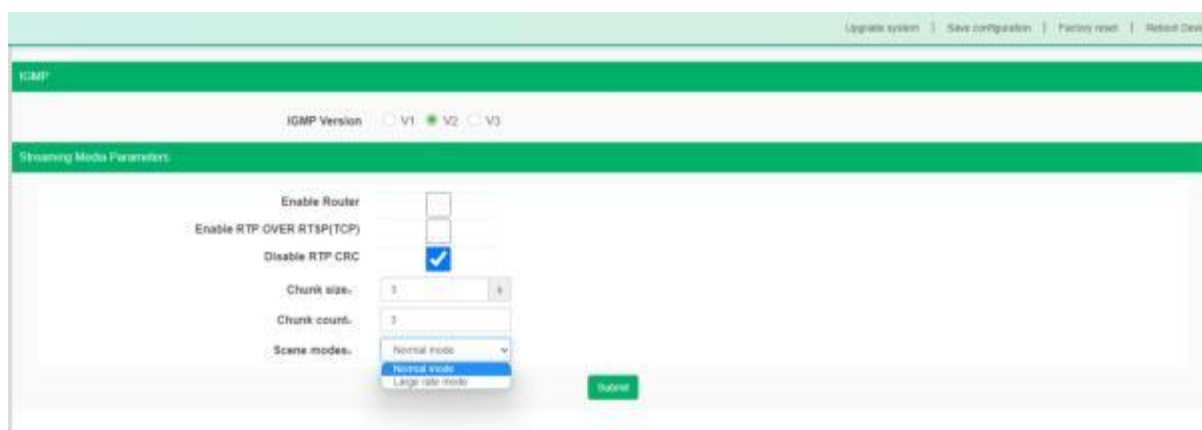


Figure-69

More Configuration→ Client Management

Clicking “Client Management”, it displays the interface where users can upload APK to this device and the online Boxes and TV sets with lower-version APK installed will notify the users whether to update the latest APK. (Figure-70)

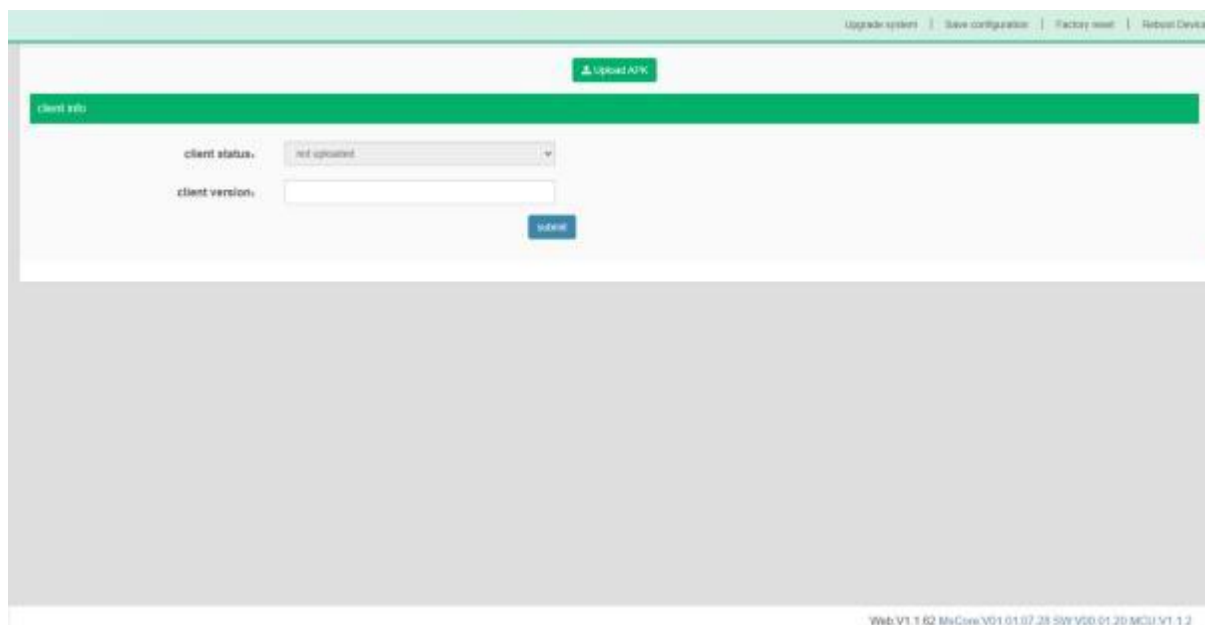


Figure-70

More Configuration→ AUZ Information

Clicking “AUZ Information”, it displays the interface where users can check the authorization information, such as validity and max authorization terminal quantity. (Figure-71)



Figure-71



If the authorization info needed to be updated, users should firstly download the identification info here, next send it to our technician to get a corresponding authorization certificate, and then upload it there to update the authorization info.

More Configuration→ Log

Users can enter the Log Webpage to check the operation log as Figure-72.

Upgrade system Save configuration Factory reset Rollback Device						
Enter keyword query operation ps: Type:						
Operating user	operation page	Type	Content	Status	IP	operation time
admin1	Boot images	add	微信图片_202304031733029.jpg	Success	192.168.179.177	2024-08-23 14:15
admin1	Boot images	delete	12.jpg	Success	192.168.179.177	2024-08-23 14:15
admin1	Rolling Subtitles	add	Content TEXT: #2024-08-22 09:05#2024-08-23 09:10	Success	192.168.179.177	2024-08-23 14:08
admin1	Rolling Subtitles	add	Content TEXT: #2024-08-22 09:05#2024-08-23 09:10	Success	192.168.179.177	2024-08-23 14:08
admin1	/	Secondary password auth	confirm password authentication success	Success	192.168.179.177	2024-08-23 14:08
admin1	/	login	Login	Success	192.168.179.177	2024-08-23 14:07
admin1	HTTP	edit	Program name:TV101#input URL: udp://224.2.2.2:3001	Success	192.168.179.177	2024-08-23 13:47
admin1	HTTP	edit	Program name:TV101#input URL: udp://224.2.2.2:3001	Success	192.168.179.177	2024-08-23 13:46
admin1	HTTP	add	Program name:TV101#input URL: udp://224.2.2.2:3001	Success	192.168.179.177	2024-08-23 13:46
admin1	/	Secondary password auth	confirm password authentication success	Success	192.168.179.177	2024-08-23 13:38
admin1	/	login	Login	Success	192.168.179.177	2024-08-23 13:33
admin1	/	login	Login	Success	192.168.179.177	2024-08-23 13:27
admin1	Protocol	add	Program name:TV101#input URL: udp://224.2.2.2:3001	Success	192.168.179.177	2024-08-23 13:27

Figure-72

System Information

Clicking “System Information”, it displays the interface where users can check the system information such as CPU usage rate and NIC status etc. (Figure-73)



Figure-73

5.2 IPTV System (Hotel Version)

5.2.1 Login

The default NMS IP address of this device is <https://192.168.203.136:8160/iptv2> (ETH3 is the default NMS port)

It displays the Login interface as Figure-74. Input the Username and Password (the default User ID & Password are **admin** & **123456**.) and then click “Login” to start the device setting. (In this example, we customize the NMS IP address as 192.168.179.108).

Please kindly note: This Web GUI has a different login password from the Web GUI of Protocol Conversion.

NOTE: The latest version of Firefox chrome and Google chrome are suggested, and the language of this management system can only be selected in the login interface.

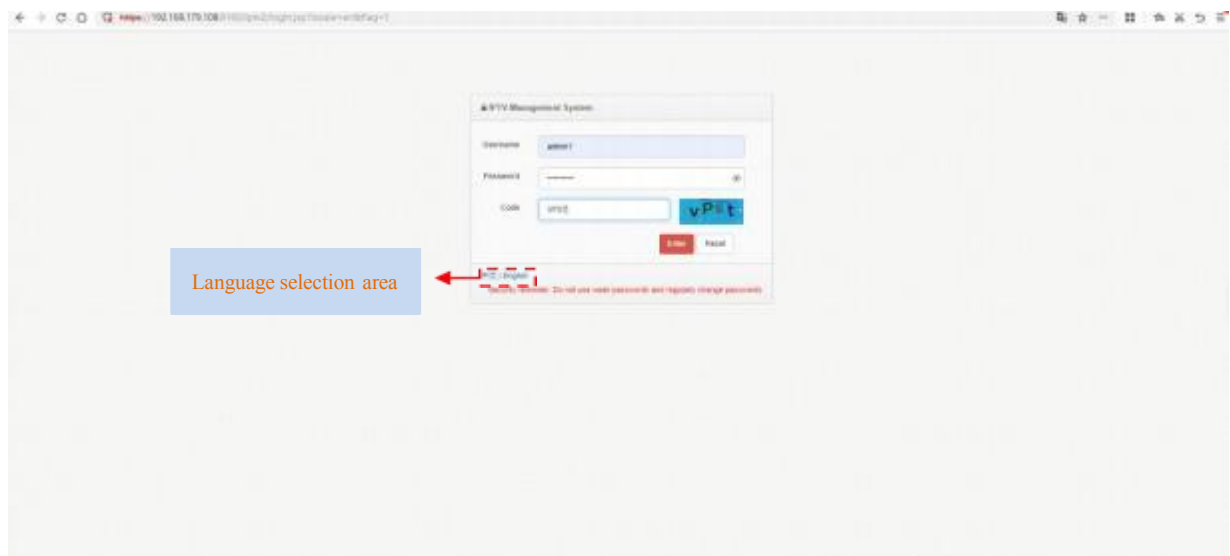


Figure-74

5.2.2 Operation

Home

When administrator confirms the login, it displays the homepage interface as Figure-75.

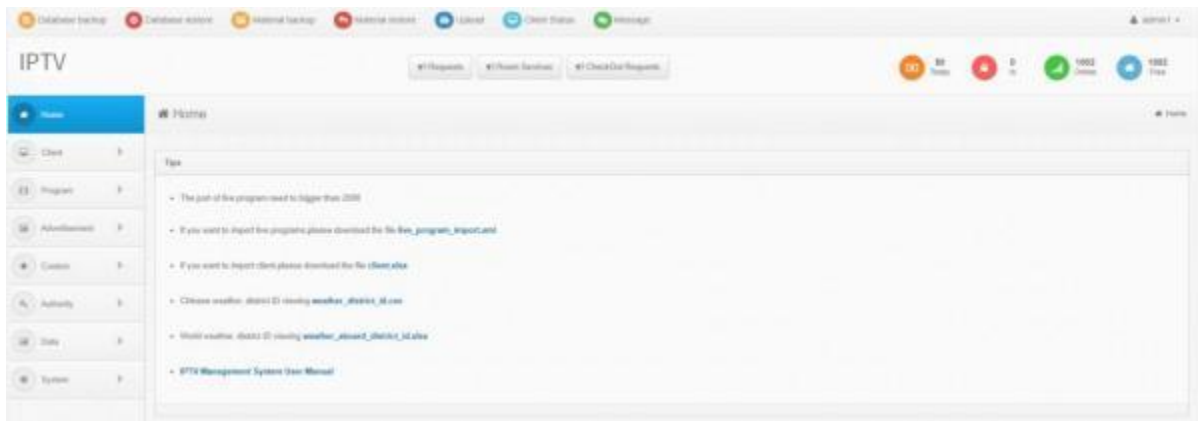
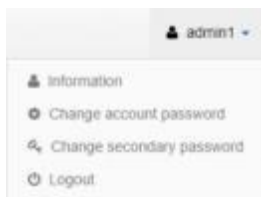


Figure-75



Users can click the right top corner to change the account password, secondary password and log out etc as below.



Database backup: backup the IPTV system database. It is suggested to do so daily.

Database restore: restore the IPTV system by importing the database file.

Upload: A quick button to enter the webpage of VOD file uploading.

Client status: A quick button to enter the webpage of Client status.

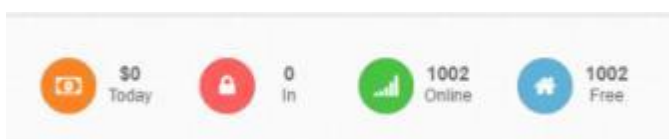
Message: A quick button to enter the webpage of Rolling subtitles.



Requests: a billing service notification from the clients, such as catering etc.

Room Services: a free service notification from the clients, such as wake up etc.

Check Out Requests: a notification from the clients, check out.



From the left to the right:

Daily income amount & Check-in quantity & Online terminal quantity & Available rooms for check in.

Client

Administrator can manage all terminals (boxes and TV sets) here.



Figure-76

【Client Group】: Administrator can divide clients into different groups according to the hotel suite type, floor, price, etc. The terminals in different groups can play customized live programs, text, picture and video advertisement etc.

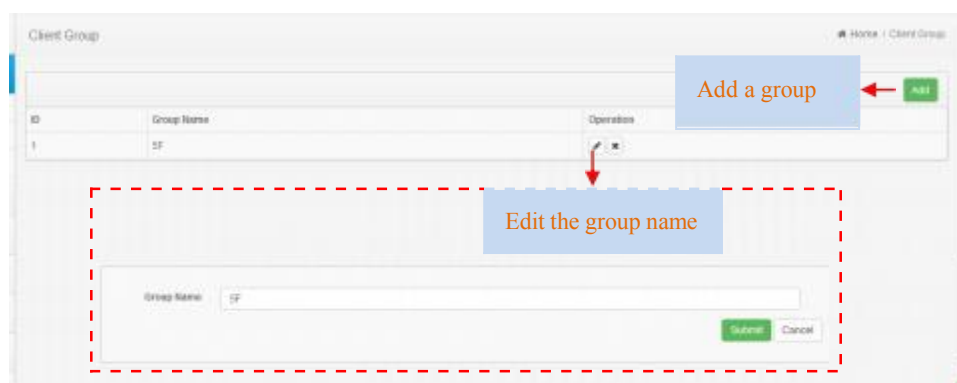


Figure-77

NOTE:

Administrators delete group will delete all the group members' information. If administrator wants to delete a group, please assign the client group members to other groups firstly.

【Client Information】

When a terminal is connected with the server successfully, the information of client will display on this interface, and administrator can name after this client and divide it into a specific group.

The screenshot shows the 'Client Information' page in the IPTV system. At the top, there's a navigation bar with icons for Database Backup, Customer Monitor, Terminal Backup, and Terminal Monitor. Below the navigation bar, the page title 'IPTV' is displayed. On the left, there's a sidebar menu with options: Home, Client, Program, Advertisement, Custom, Authority, Data, and System. The main content area is titled 'Client Information' and shows a table of client data. The table has columns for Client Name, MAC Address, Client Group, IP Address, APP version, Status, Online Time, Offline Time, VOD Record, and Operation. The table lists 12 clients, all with a status of 'Online' and a 'VOD Record' of 'Success'. The 'Authorization' value is set to 5000.

Client Name	MAC Address	Client Group	IP Address	APP version	Status	Online Time	Offline Time	VOD Record	Operation
0000000000	0000000000	Test Group	192.168.200.112	2.7.1.03	Online	2024-08-23 15:20:40		Success	✎ ✕
0000000001	0000000001	Test Group	192.168.200.112	2.7.1.03	Online	2024-08-23 15:20:42		Success	✎ ✕
0000000002	0000000002	Test Group	192.168.200.112	2.7.1.03	Online	2024-08-23 15:20:45		Success	✎ ✕
0000000003	0000000003	Test Group	192.168.200.112	2.7.1.03	Online	2024-08-23 15:20:36		Success	✎ ✕
0000000004	0000000004	Test Group	192.168.200.112	2.7.1.03	Online	2024-08-23 15:20:39		Success	✎ ✕
0000000005	0000000005	Test Group	192.168.200.112	2.7.1.03	Online	2024-08-23 15:20:42		Success	✎ ✕
0000000006	0000000006	Test Group	192.168.200.112	2.7.1.03	Online	2024-08-23 15:20:29		Success	✎ ✕
0000000007	0000000007	Test Group	192.168.200.112	2.7.1.03	Online	2024-08-23 15:20:25		Success	✎ ✕
0000000008	0000000008	Test Group	192.168.200.112	2.7.1.03	Online	2024-08-23 15:20:37		Success	✎ ✕
0000000009	0000000009	Test Group	192.168.200.112	2.7.1.03	Online	2024-08-23 15:20:41		Success	✎ ✕
0000000010	0000000010	Test Group	192.168.200.112	2.7.1.03	Online	2024-08-23 15:20:46		Success	✎ ✕
0000000011	0000000011	Test Group	192.168.200.112	2.7.1.03	Online	2024-08-23 15:20:40		Success	✎ ✕
0000000012	0000000012	Test Group	192.168.200.112	2.7.1.03	Online	2024-08-23 15:20:31		Success	✎ ✕

Figure-78

The screenshot shows the 'Client Information' page with the 'Add' button highlighted. The 'Authorization' value is set to 5000. The buttons 'Add', 'Import', 'Export', 'WIFI Batch Edit', and 'Delete' are visible at the top right of the table area.

Add: add the terminal info.

Import/Export: import and export client info in a batch.

WIFI batch Edit: add the WIFI name and password for the terminals in a batch.

Delete: delete the chosen terminal info.

Authorization 5000 means the max 5000 terminals authorized for the IPTV system.

Click pen icon to edit the terminal info:

The screenshot shows the 'Edit' form for a client. It contains fields for MAC Address, IP Address, Client Name, Client Group, WIFI Name, and WIFI Password. The 'MAC Address' field is pre-filled with '0000000000', 'IP Address' with '192.168.200.112', and 'Client Name' with '0000000000'. The 'Client Group' dropdown is set to 'Test Group'. The 'WIFI Name' and 'WIFI Password' fields are empty. There are 'Submit' and 'Cancel' buttons at the bottom right.

Figure-79

【Client Status】

Administrator can edit check in and check out information and welcome words, and check consumption information and history checking records.

NOTE: Only when customers check in will the IPTV service be provided.

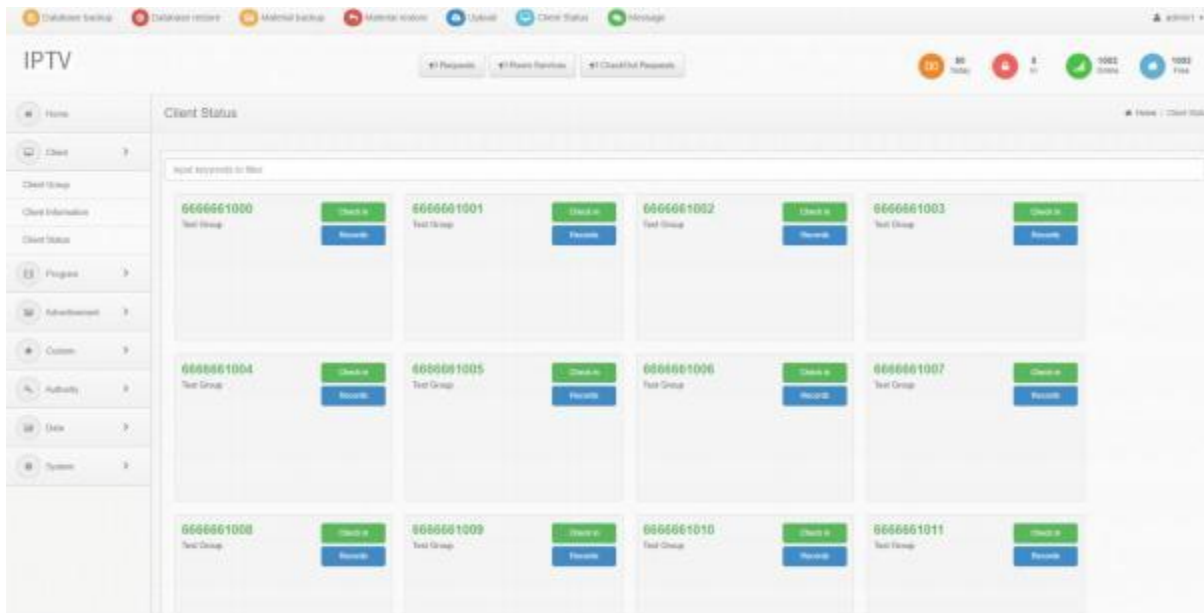


Figure-80

➤ Consume

Administrators can click „Consume“ at the top of the webpage to check corresponding clients.

Consume (ROOM 8506)

Total: \$ 392.0

ID	Client Name	Type	Content	Count	Price	Order Time	Finish Time	Operation
1	ROOM 8506	Food	Chocolate Mousse	3	\$56.0	2017-11-19 13:44:04		✖
2	ROOM 8506	Food	Pao-fried Steak	1	\$8.0	2017-11-19 13:44:04		✖
3	ROOM 8506	Food	Chocolate Mousse	4	\$56.0	2017-11-19 10:44:19		✖

Figure-81

➤ Edit

Administrators can edit the welcome words here. The customer's name will be added into the welcome words automatically as per the below Welcome words format.

Check in (ROOM 8506)

Customer:

Send:

Welcome Words (Chinese):

Check in:

Welcome Words (English):

Check in:

Figure-82

➤ Records

Administrators can check the consumption record here.

Records (ROOM 8506)

ID	Customer	check in time	check out time	Cost	Operation
1	Christian	2017-11-19 10:31:31	2017-11-22 16:13:37	\$392.0	\$

Figure-83

➤ Checkout

Administrators can manage the check out information here.



Figure-84

Program

【Program】

Administrators can manage the Live and VOD programs here.

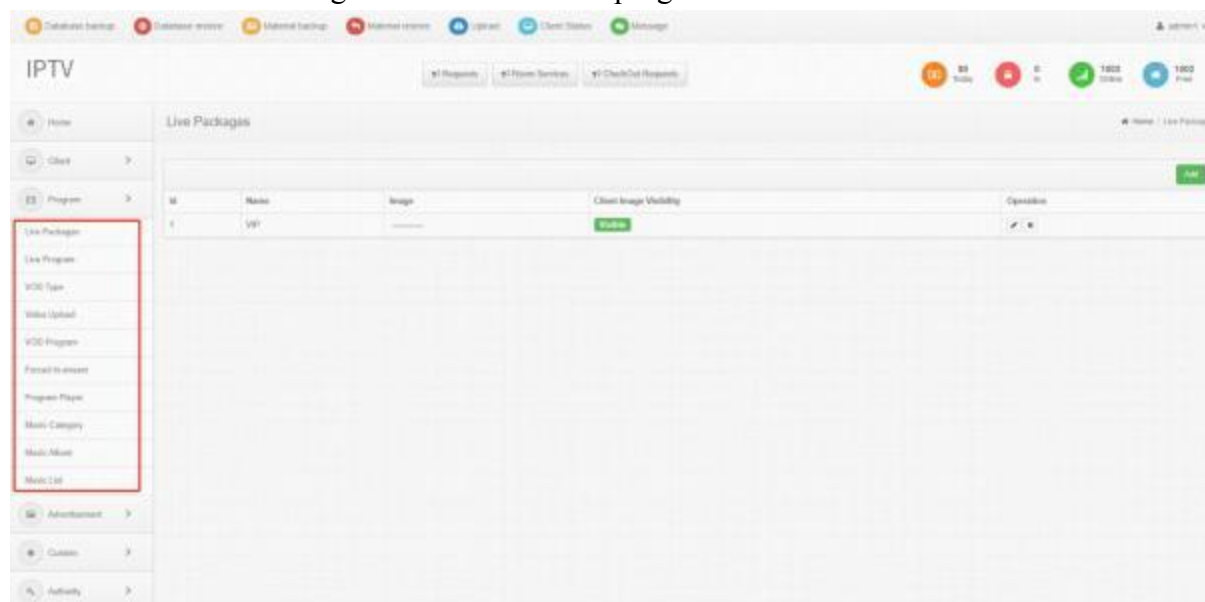


Figure-85

【Live Packages】

Administrator can divide the live programs into different packages, set price and specify the terminals to receive the programs.



Figure-86

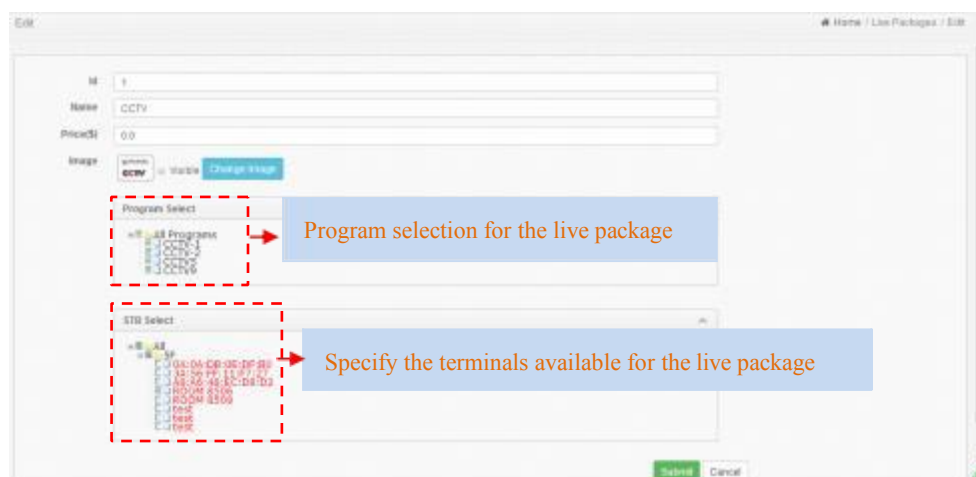


Figure-87

Live programs management: edit programs information including program name, programs, ID and logo etc.

NOTE: when HTTP live protocol is selected, the code rate information will display on this interface.

【Live Program】 Administrator can manage the Live programs here.

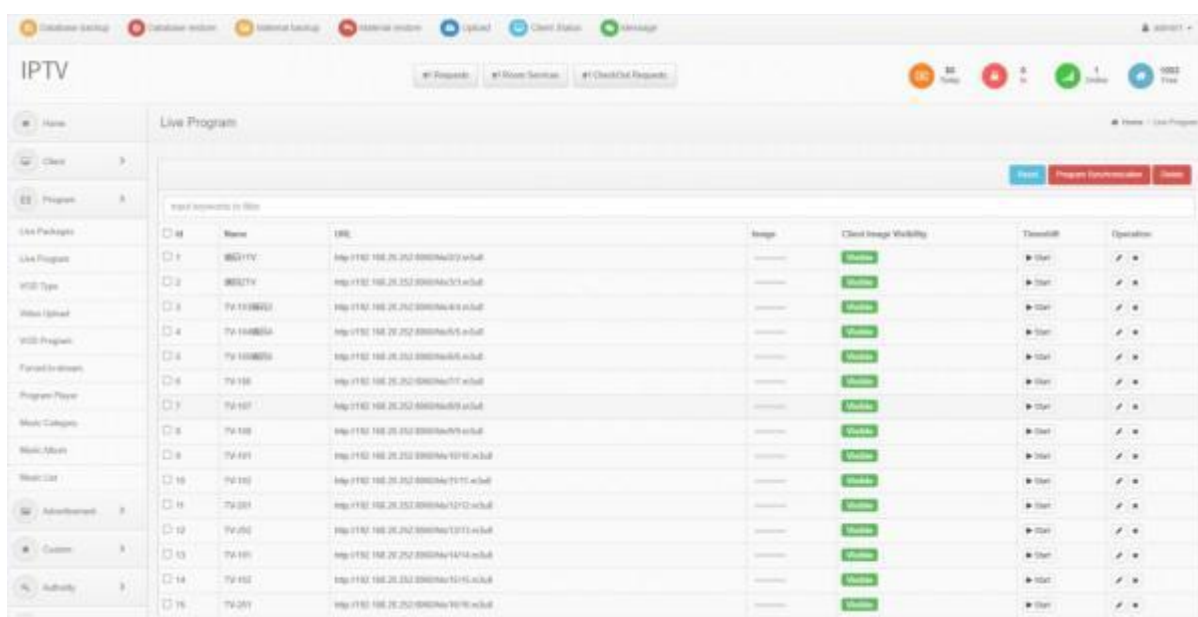
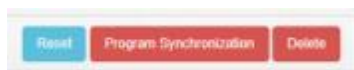


Figure-88



Reset: Sequence reset of the live channels as per their ids.

Program Synchronization: Click it to synchronize the program information from the protocol conversion and Distribution Service.

Delete: Delete the chosen live programs.

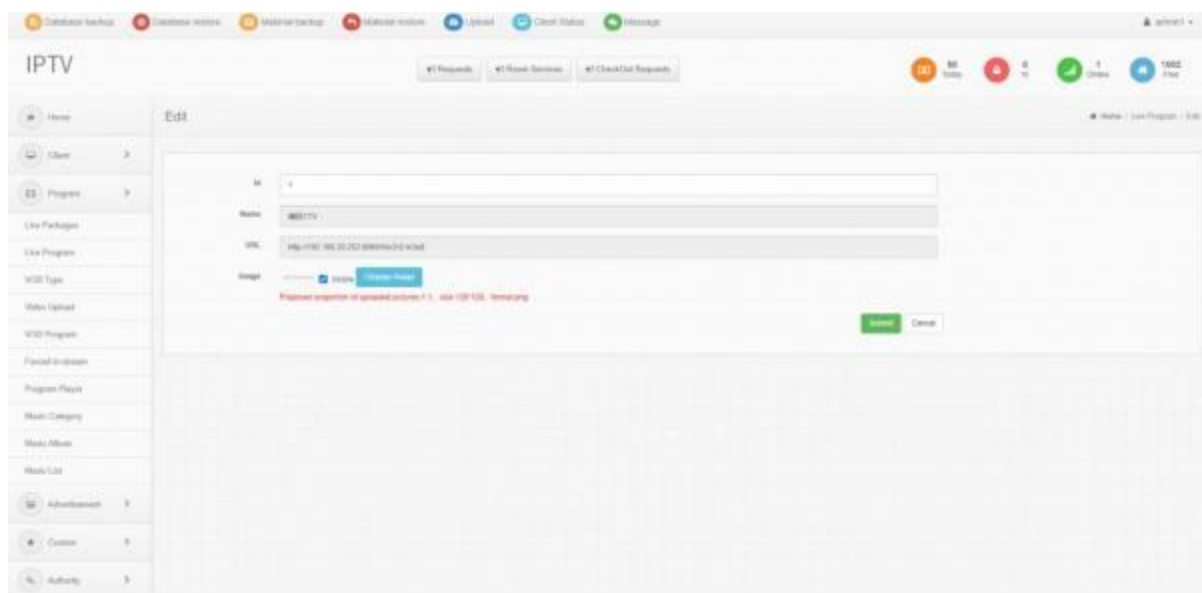


Figure-89

NOTE: Please input full address, including protocol, IP, port and other related information.

Administrator can download the files" format at the homepage to batch import programs, and import files after filling in programs.

If user does click "la visible" here, the program image will be visible at client interface (The option list of Live channels).

【VOD Type】

Administrator can classify VOD programs here.



Figure-90



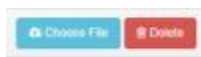
Figure-91

【Video Upload】

Administrators can upload video to the server.



Figure-92



Choose File: Choose the local VOD files to upload to the server as the VOD source.

Delete: Delete the chosen VOD file.

NOTE:

The uploaded video file name can consist of numbers, characters and underline. If a file name contains Chinese or other special symbols and be uploaded to the server, some boxes or TV sets might not play it normally.

It is available to select and upload multiple files at the sametime.

Please do not close this page in the process of uploading; if it is necessary to operate other pages, please open a new page.

【VOD Program】

Administrator can manage VOD programs.

VOD programs management: administrator can edit video information here.

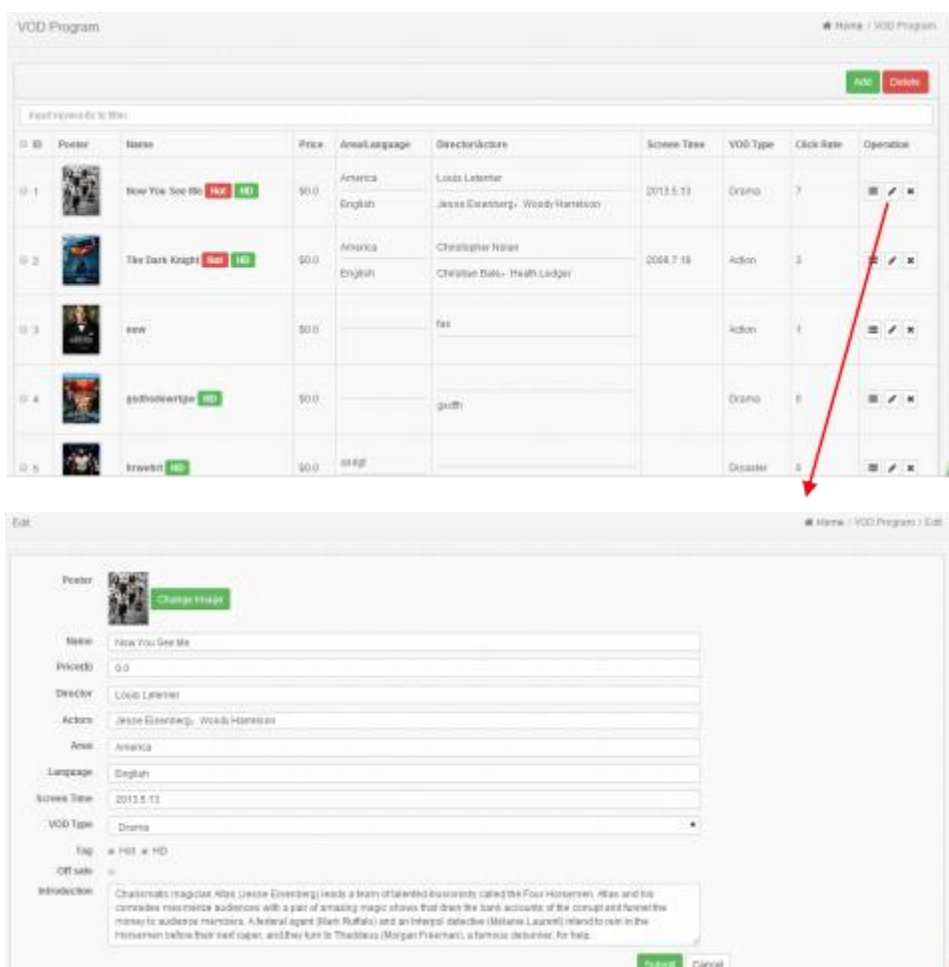


Figure-93

Administrator can click  to check VOD source, and select VOD source from local files or network address.

NOTE: Administrators can upload local video files or input the available URL address.



Figure-94

Select the video source

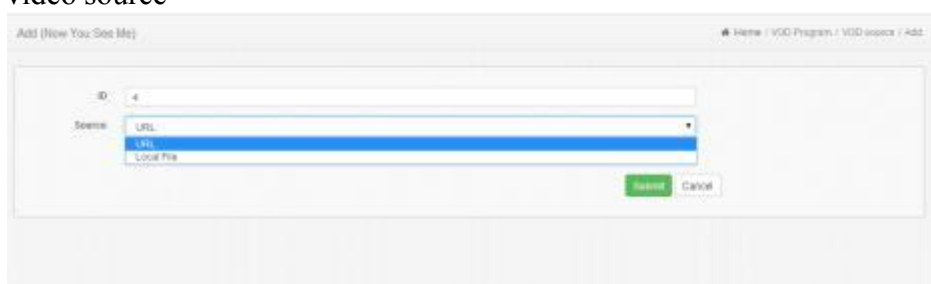


Figure-95

Select the uploaded video source

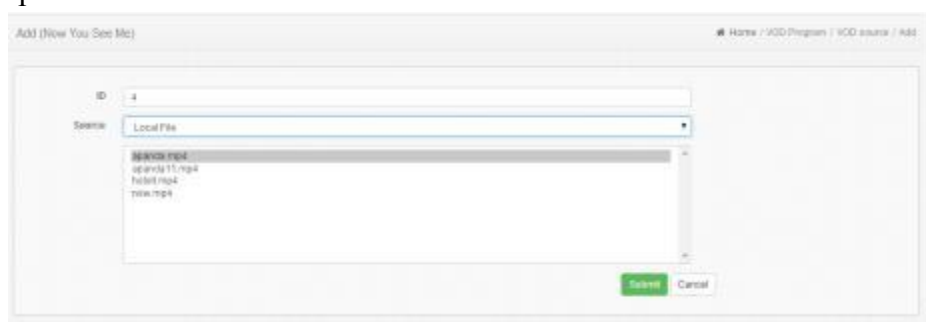


Figure-96

Input video URL address



Figure-97

【Forced in-stream】

Administrator can select one live program/VOD as an inter cut to the designated clients at a specific date and time.

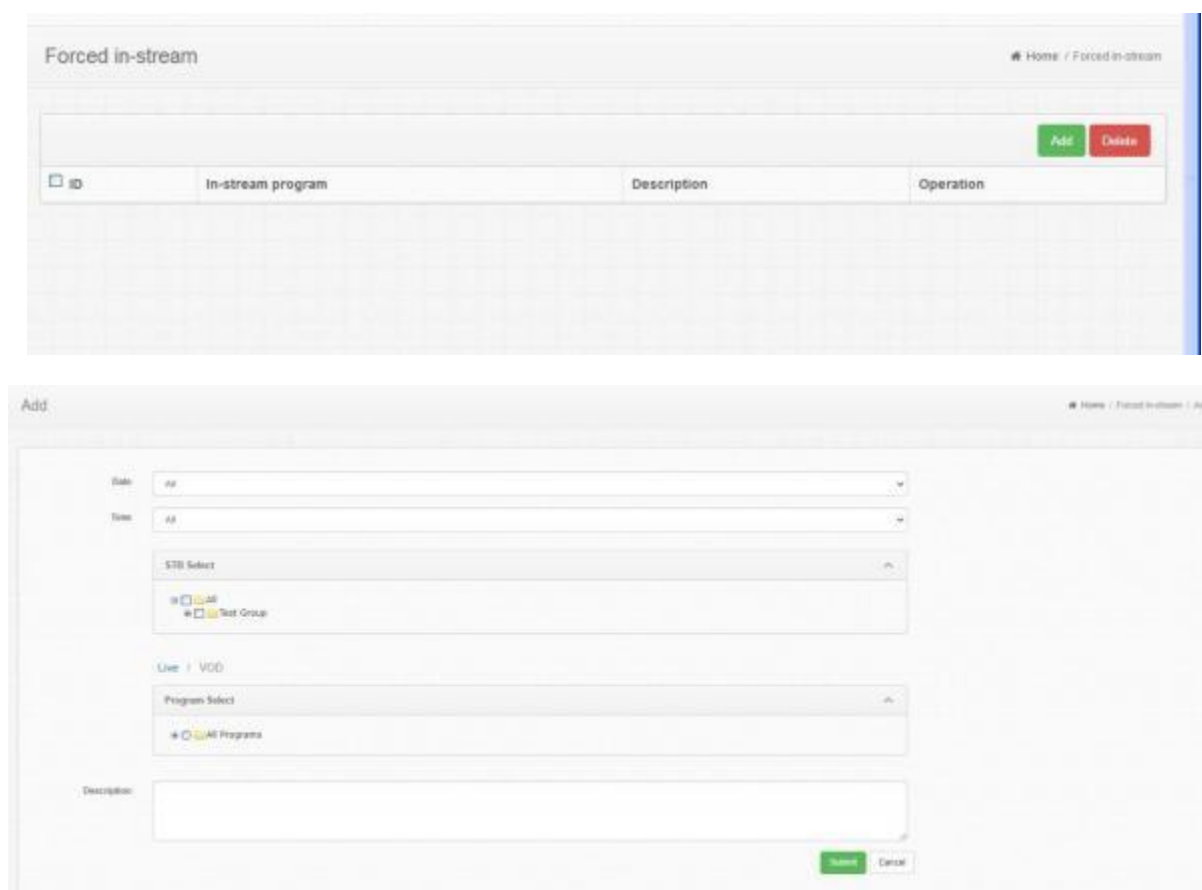


Figure-98

【Program Player】

This is a feature to preview the live programs and VOD files in browsers by downloading and installing the related add-ons.

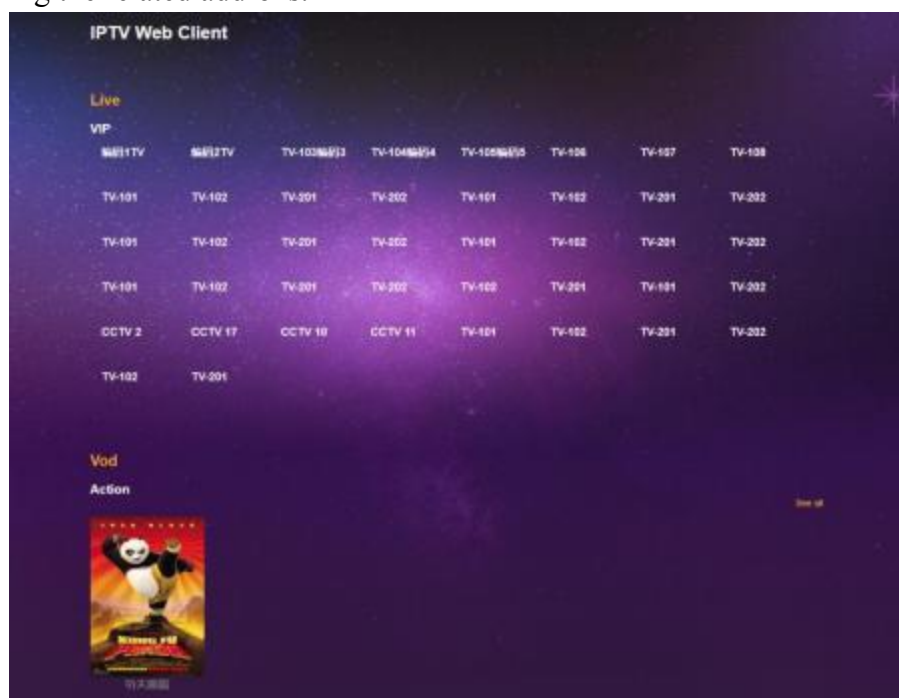


Figure-99

【Music Category/Music Album/Music List】

It will be available for the clients to listen to music in their rooms via boxes and TV sets the music uploading is completed.

1. Create Music category, such as Jazz, Rock and Rap etc.

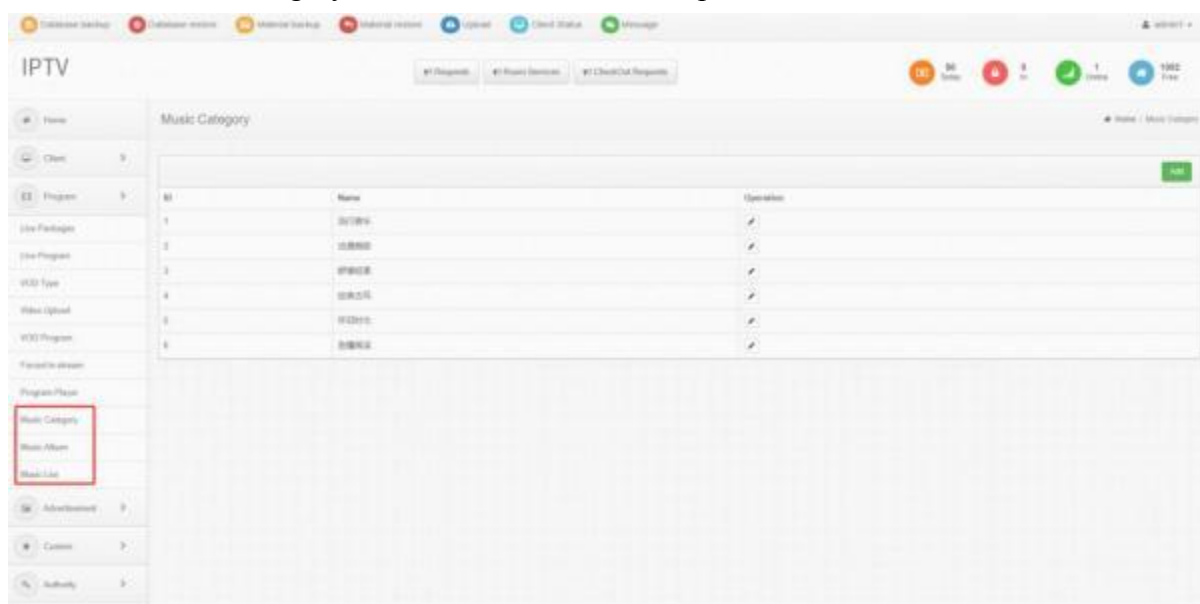


Figure-100

2. Add Music Album info.

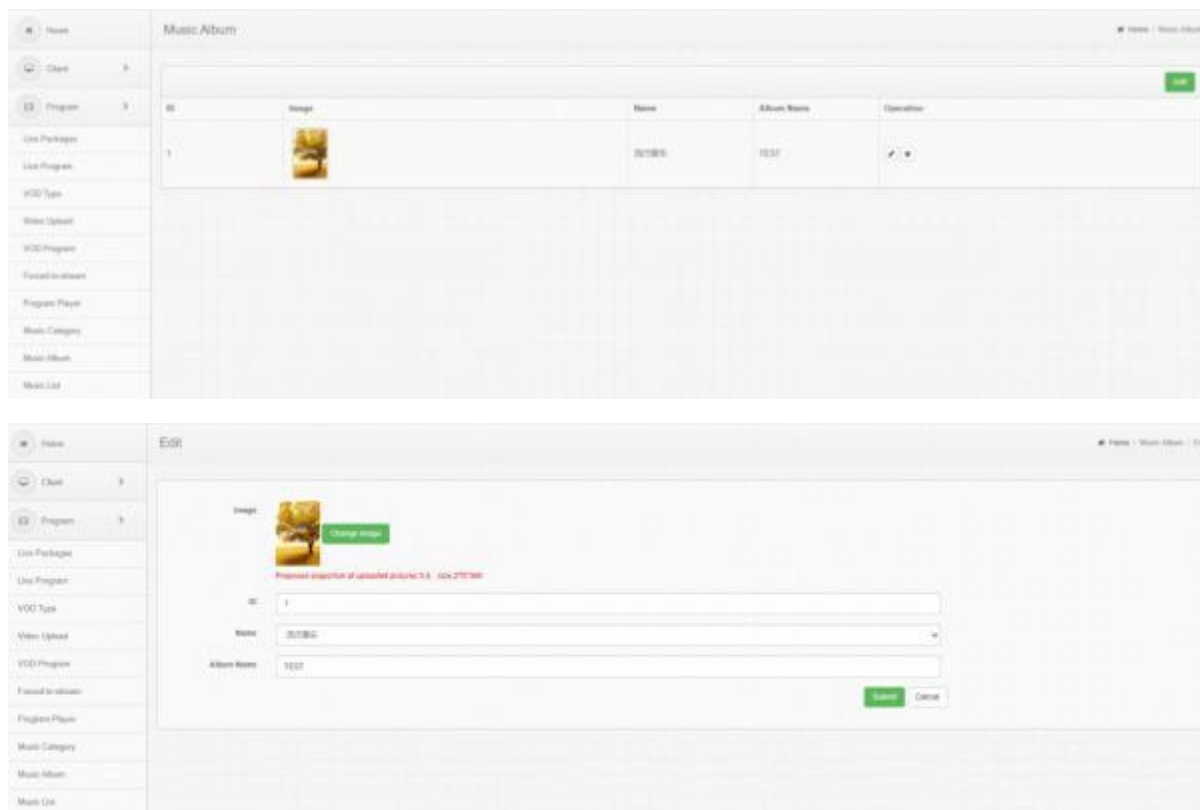


Figure-101

3. Add Music files.

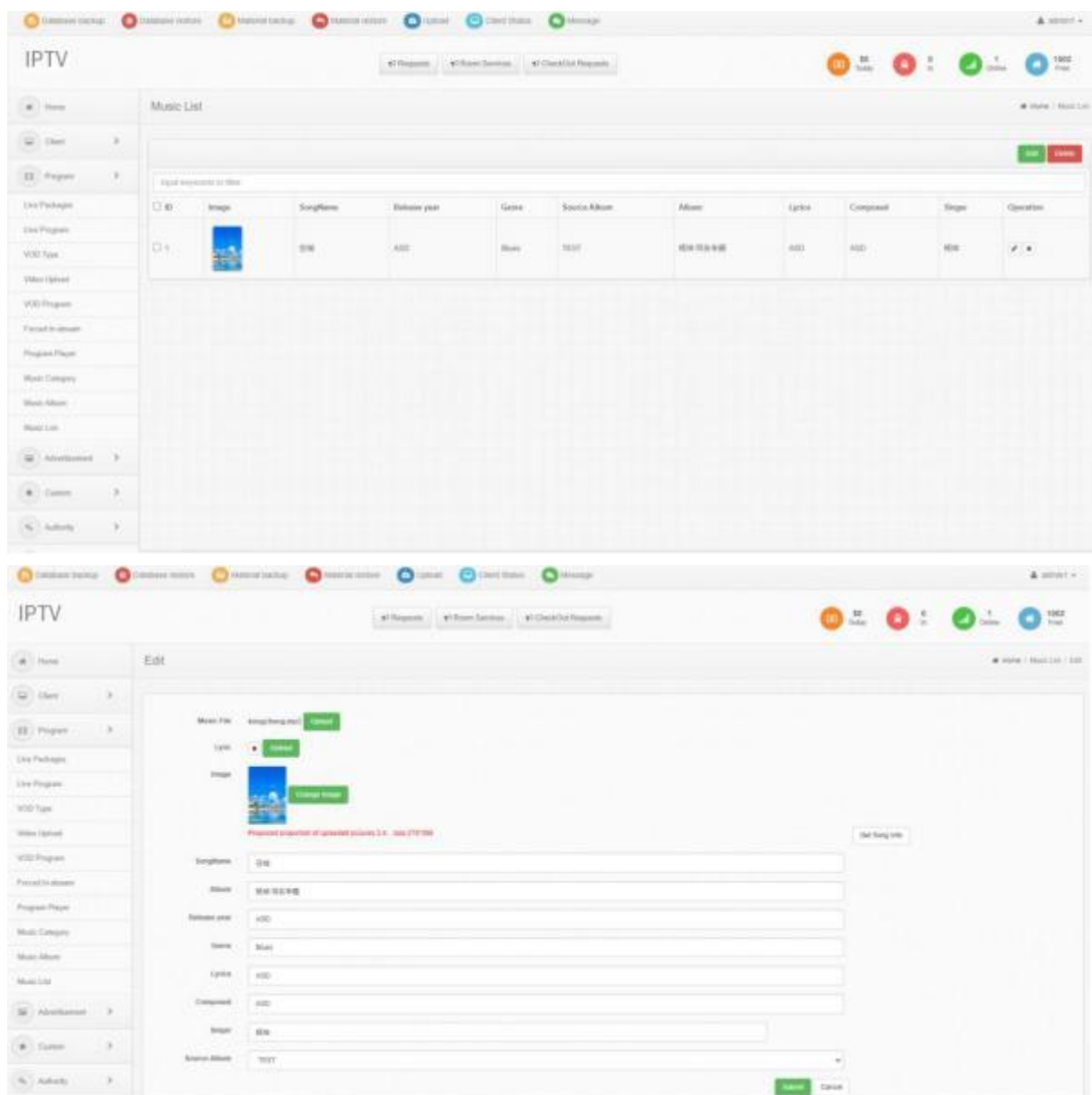


Figure-102

Advertisement

In “Advertisement” Webpage, it is available to manage Rolling Subtitles, Pictures (for booting), Index -Page Video, Boot Video and Music in APK interface.

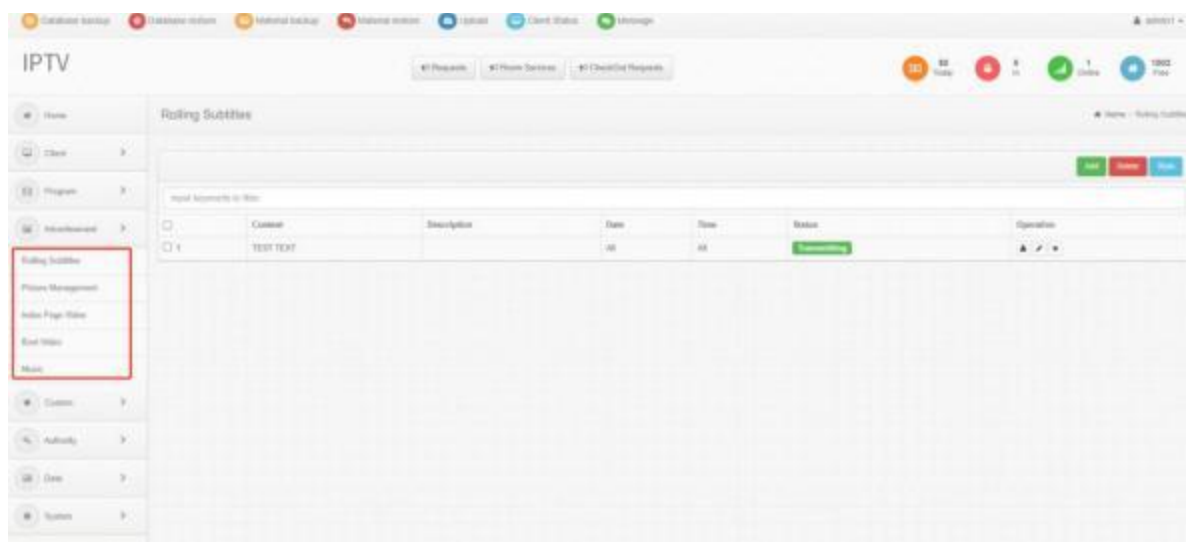
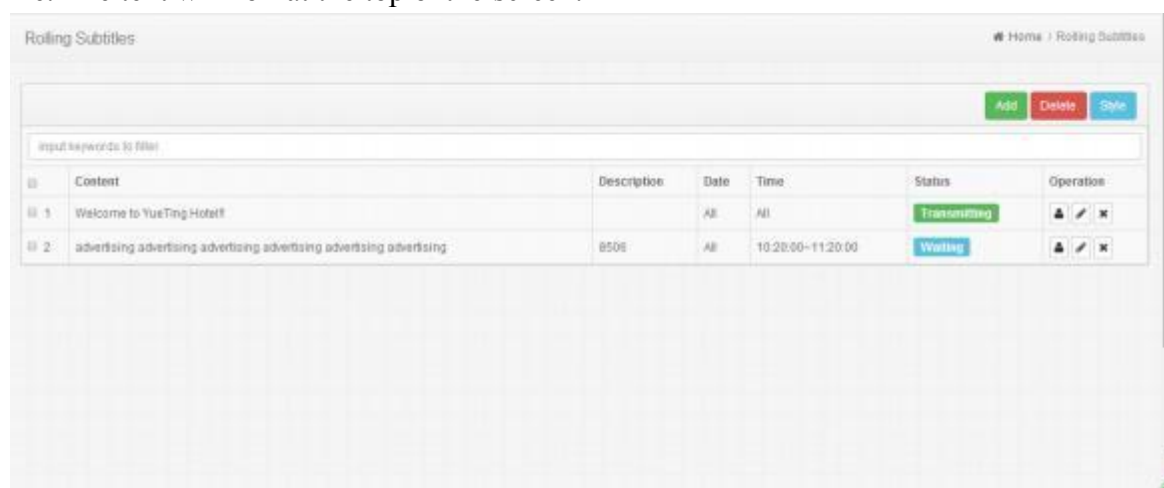


Figure-103

【Rolling Subtitles】

Administrator can set Rolling Subtitles to send text to specified clients at specified date and time. The text will roll at the top of the screen.



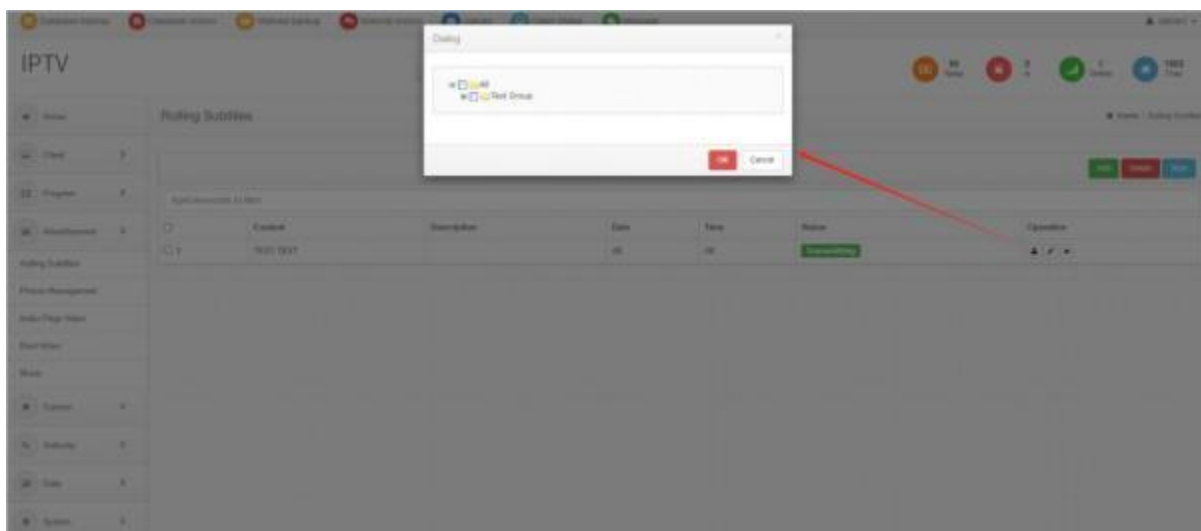


Figure-104

Status:

【Transmitting】 The text is showing at the specified terminals.

【Timeout】 The text is expired and will not show anymore.

【Waiting】 The text is waiting for sending.

【Unpublished】 The text is unpublished and will not send to the terminals. Administrator can click **Publish**  to publish the text.

Administrator can click “Style” to set and preview the rolling subtitle style, including rolling text size, color, background, interval rolling time.



Figure-105

【Picture Management】

In this webpage, it is available to set boot images that will be displayed once running the APK on terminals and other image advertisements, such as watermark, background and logo etc. It is possible to enable different clients to view the different image advertisements.

NOTE: Only one can be chosen between image advertisement (boot image) and video advertisement (boot video) for the same one terminal.

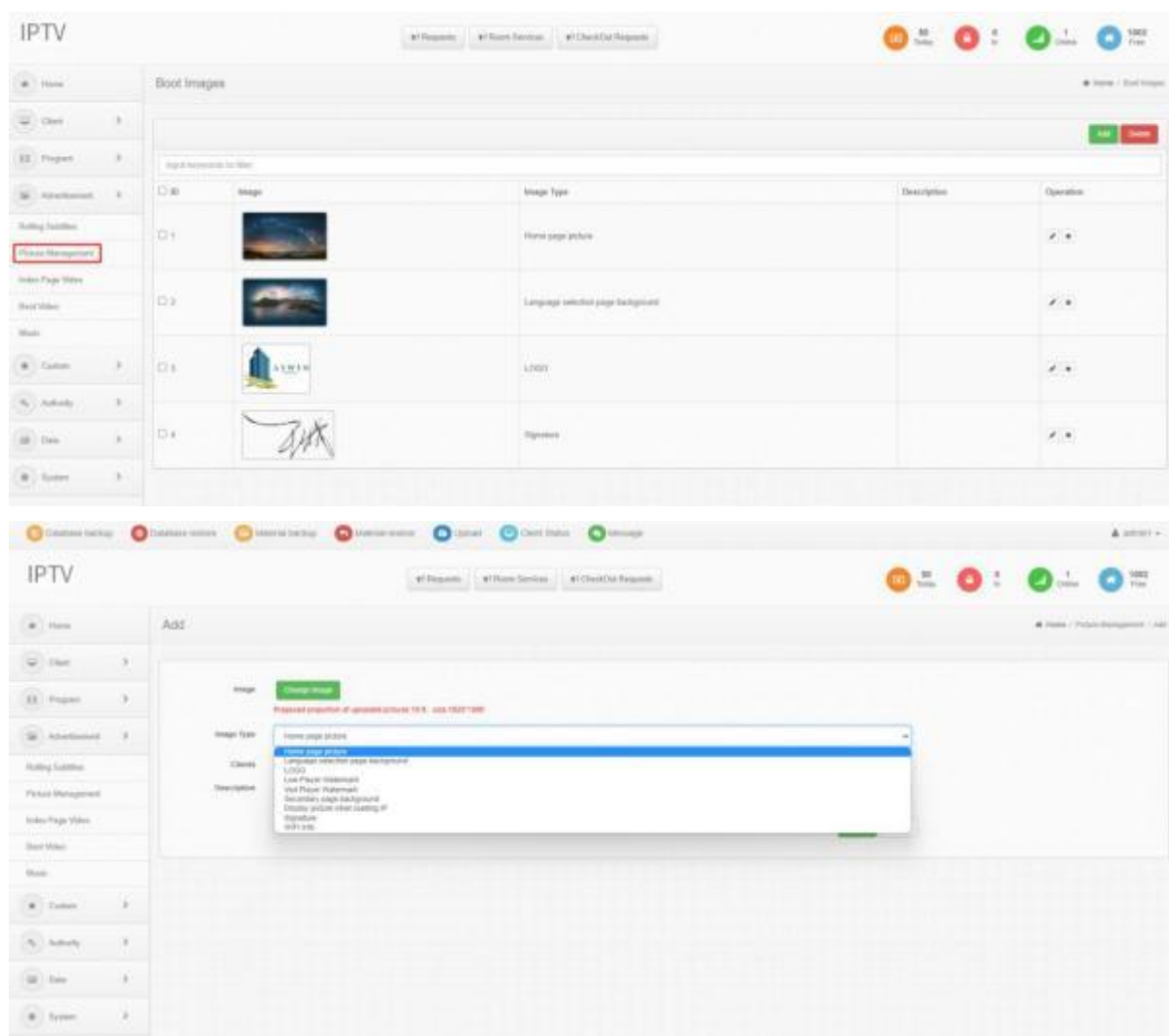


Figure-106

【Index Page Video】

In this webpage, it is available to set Index-Page video that will be displayed once entering the APK homepage. It is possible to enable different clients to watch the different video advertisements.



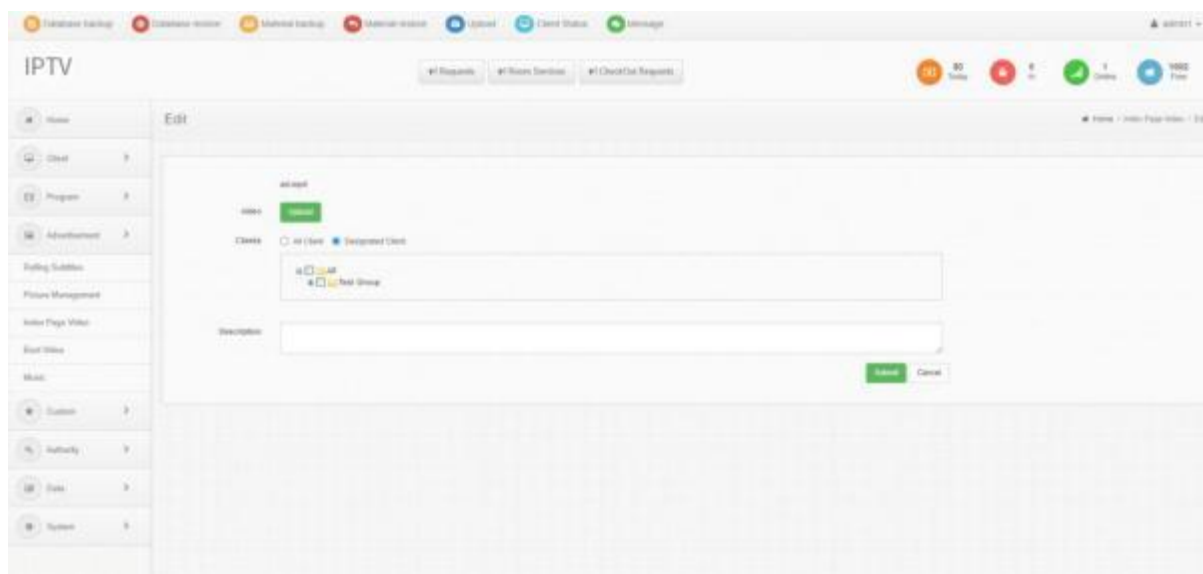


Figure-107

【Boot Video】

In this webpage, it is available to set boot video that will be displayed once running the APK on terminals. It is possible to enable different clients to view the different video advertisements.

NOTE: Only one can be chosen between image advertisement (boot image) and video advertisement (boot video) for the same one terminal.

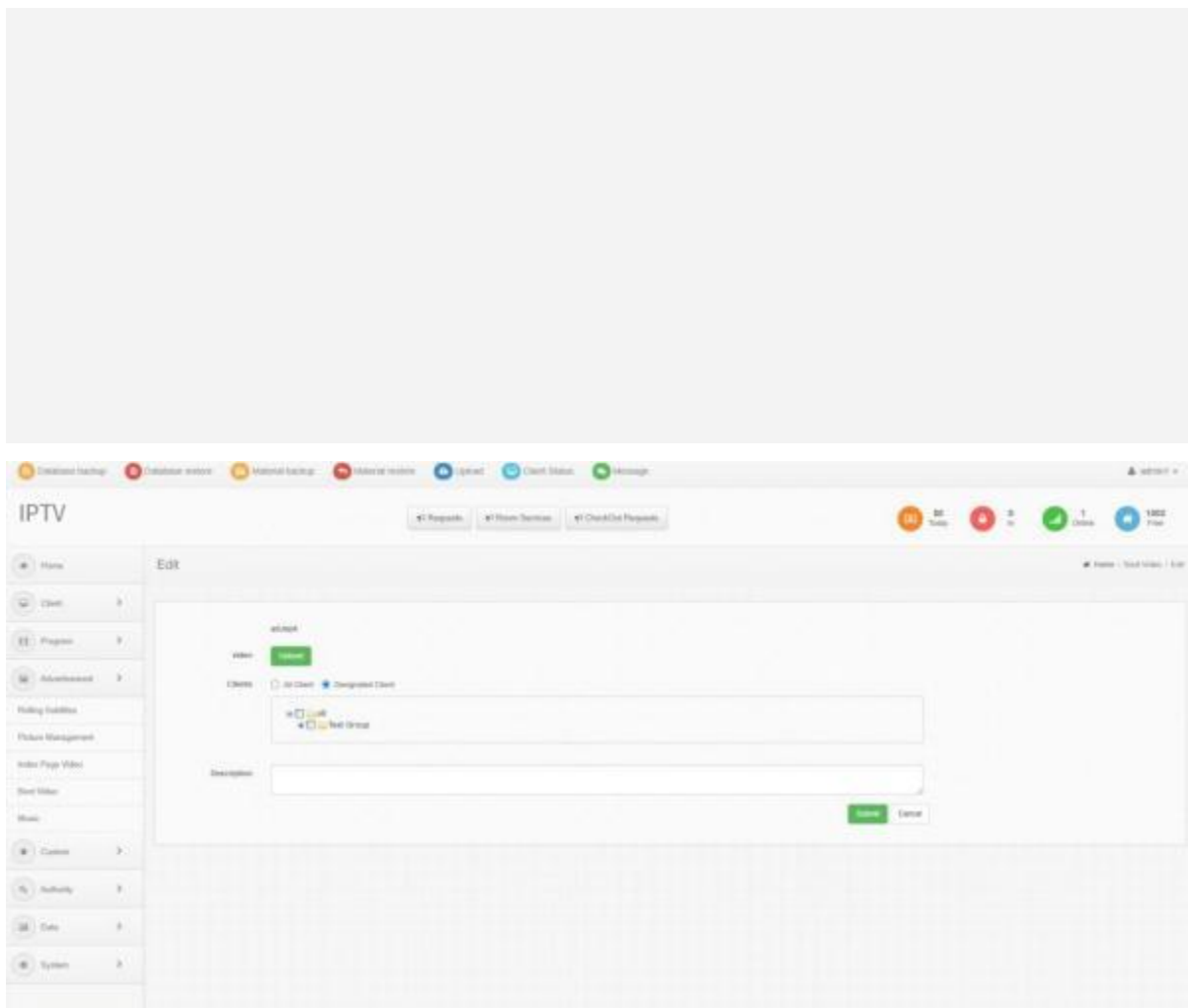


Figure-108

【Music】

Music uploaded here will be played once the APK is booting in the terminals.

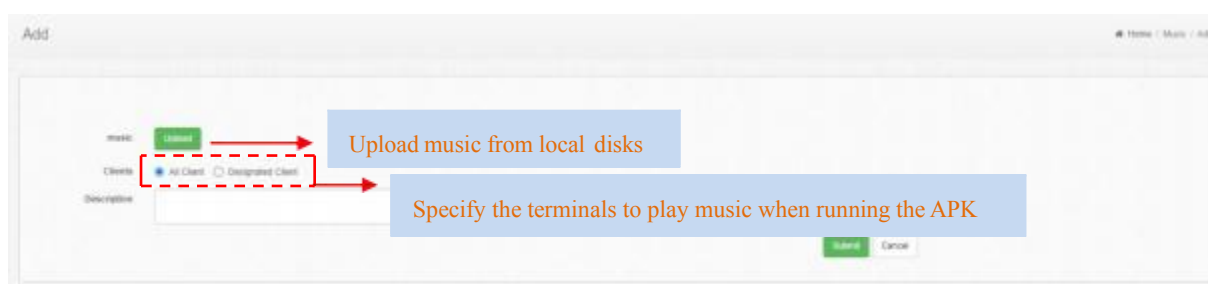
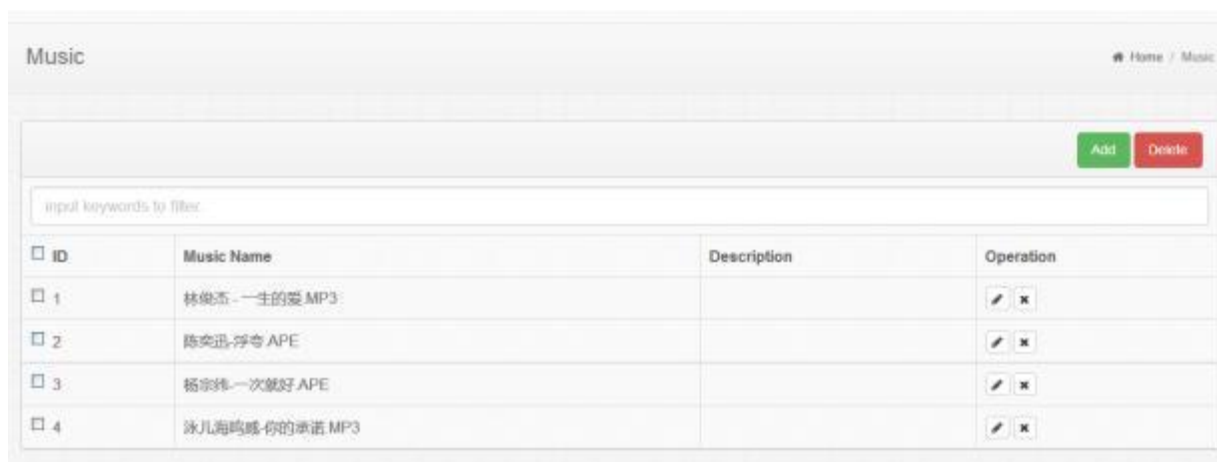


Figure-109

Custom

It is available to customize some content, such as food, goods and hotel info etc in this webpage as per the actual projects.

It is possible to customize the icons in APK homepage, such as icons for Live channels and VOD etc as Figure-110.

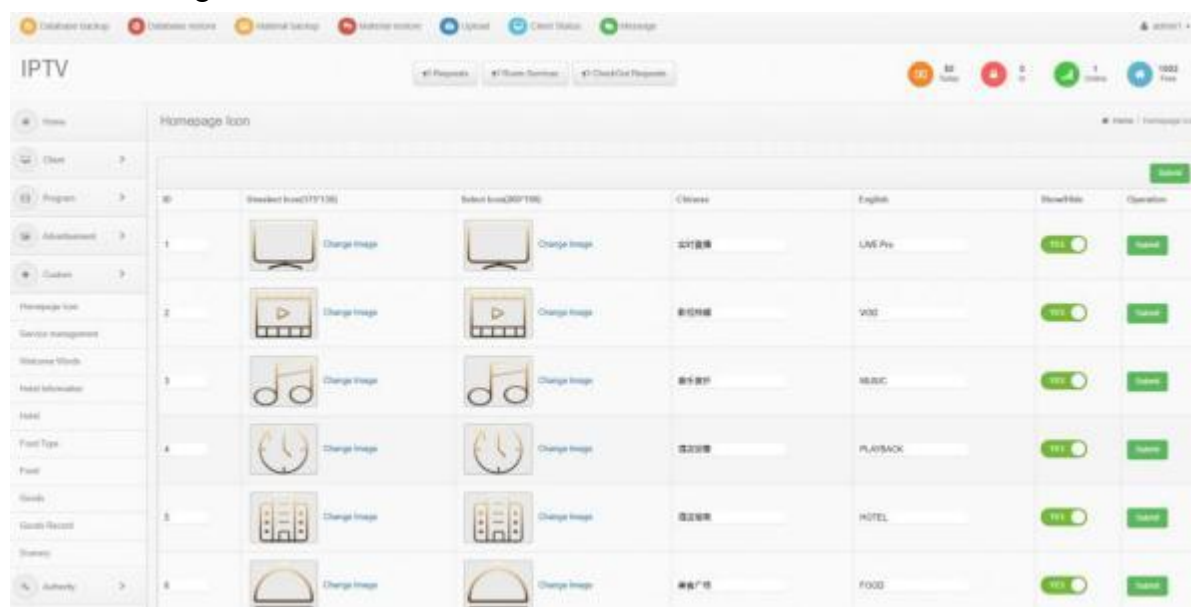




Figure-110

【Service Management】

In this webpage, it is available to enable or disable the service options from the APK menus of the terminals. This means that clients will view and order the corresponding services from the APK menus in the terminals.

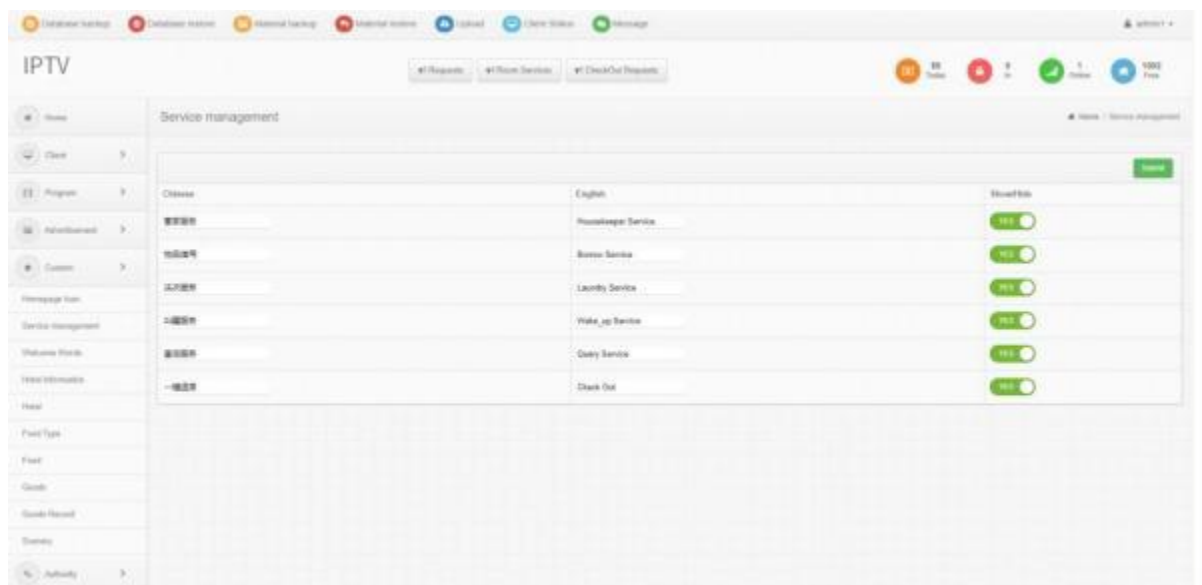


Figure-111

【Welcome Words】 It is available to customize welcome words for different clients in different languages available in this server. The welcome words will show in the home page of the APK.



Figure-112

【Hotel Information】

It is available to establish a hotel info category, such as suite type, restaurant, gymnasium, swimming pool and SPA etc. Clients can view the info items from the related hotel menu in APK of the terminals.

Hotel Information

Home / Hotel Information

Add

ID	Name	Operation
1	Room Introduction	 
2	Hotel Introduction	 
3	Parking Lot	 
4	Dinning Room Introduction	 
6	Bar	 
7	Coffee	 
8	Gym	 

Edit

Home / Hotel Information / Edit

ID

2

Name

Room intro

Submit

Cancel

Figure-113

【Hotel】 It is a sub-menu detailed introduction following the above hotel information category. Please add the detailed description for the categories, such as suite type, restaurant, gymnasium, swimming pool and SPA etc.

[illegible]

Figure-114 shows the 'Edit' form for a food item. The form includes the following fields:

- Name:** yd
- English Name:** DAD
- Address:** ADD
- Opening Hours:** ADD
- Hotel Information:** 酒店
- Description:** (empty text area)

Buttons: **Submit** (green), **Cancel** (grey).

Figure-114

It is available to enable the clients to view and order food via APK menu of the terminals after adding the info about Food Type and Food.

【Food Type】 Please add and edit food types here firstly.

Figure-115 shows the 'Food Type' management interface. The table lists the following food types:

ID	Name	Operation
1	Desserts	[Edit] [Delete]
2	Western-style food	[Edit] [Delete]

The 'Edit' form below the table has the following fields:

- ID:** 1
- Name:** Desserts

Buttons: **Submit** (green), **Cancel** (grey).

Figure-115

【Food】 Please add and edit the food information here and it is a sub-menu detailed introduction of the food types.

Figure-116 shows the 'Food' management interface. The table lists the following food items:

ID	Image	Name	Price	Food Type	Description	Sale Count	Operation
1		Chocolate Mousse	\$58.0	Desserts		24	[Edit] [Delete]
2		Pan-fried Steak	\$0.0	Western-style food		23	[Edit] [Delete]

Edit Home / Food / Edit

Image  [Change Image](#)

Name

Price(\$)

Food Type Desserts

Description

[Submit](#) [Cancel](#)

Figure-116

【Goods】 It is available to enable the clients to view and order goods via APK menu of the terminals after adding the good info here.

Add Home / Goods / Add

Image [Change Image](#)

Proposed proportion of uploaded pictures 16:9, size 1024*1024

Name

[Submit](#) [Cancel](#)

Goods Home / Goods

[Add](#) [Delete](#)

input keywords to filter

ID	Image	Name	Count	Operation
1		Power converter	5	Edit Delete
2		Mobile phone charging line	3	Edit Delete
3		Umbrella	1	Edit Delete

Edit Home / Goods / Edit

Image  [Change Image](#)

Name

[Submit](#) [Cancel](#)

Figure-117

【Goods Record】 It is available for the hotel to view and check the service records and order records to confirm whether the service or order is completed in this webpage.

Goods Record Home / Goods Record

Input keywords to filter

ID	Client Name	Customer	Service Name	Details	Order Time	Response Time	Finished time	Status	Operation
1			Laundry Service		2017-11-10 10:12:00	2017-11-10 10:12:10	2017-11-10 10:12:20	Finish	Delete
2			Diner Service		2017-11-10 10:12:00	2017-11-10 10:12:10	2017-11-10 10:12:17	Finish	Delete
3			Diner Service		2017-11-10 10:09:22	2017-11-10 10:09:44	2017-11-10 10:09:45	Finish	Delete
4			Laundry Service		2017-11-10 10:09:20	2017-11-10 10:09:42	2017-11-10 10:09:43	Finish	Delete
5			Wake Up Call	WakeUp Time: 2017-11-10 10:08:00	2017-11-10 10:08:14	2017-11-10 10:08:30	2017-11-10 10:08:41	Finish	Delete
6			Wake Up Call	WakeUp Time: 2017-11-06 14:08:00	2017-11-06 14:08:41	2017-11-07 17:44:30	2017-11-07 17:44:32	Finish	Delete
7			Goods Borrowing	Umbrella	2017-11-06 14:06:30	2017-11-07 17:44:27	2017-11-07 17:44:48	Not used	Delete
8			Goods Borrowing	Mobile phone charging line	2017-11-06 14:06:33	2017-11-07 17:45:07	2017-11-07 17:45:10	Not used	Delete

Figure-118

【Scenery】 It is possible to introduce some famous tourist spots near by the hotel in this webpage.

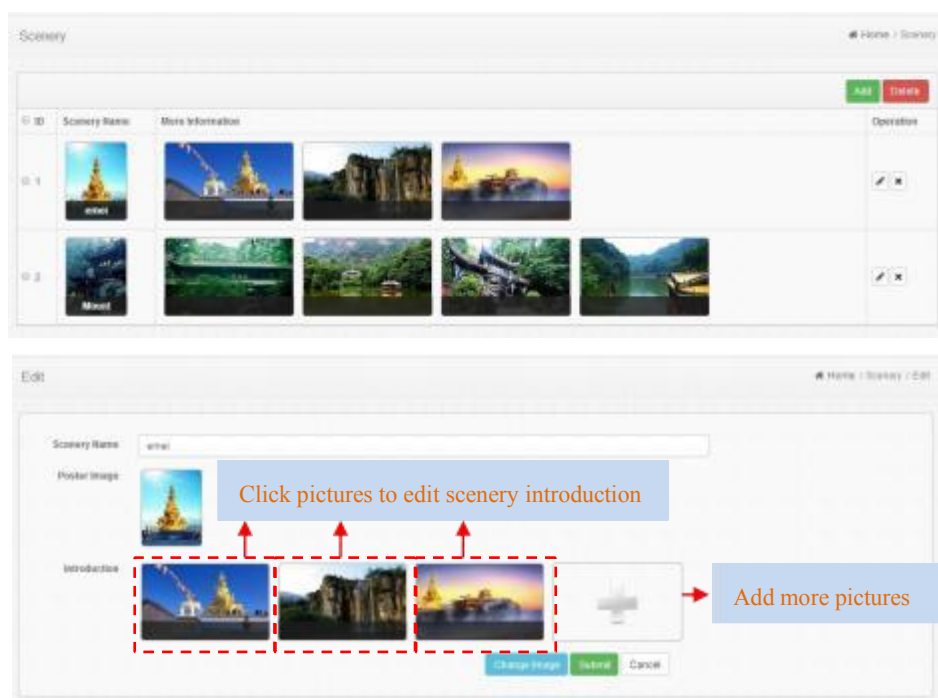


Figure-119

Authority

Administrators can establish some manager roles that have a limited access for some sub-menu items only of the IPTV management part.



Figure-120

【Manager Role】

The default role is Administrator and Administrator can distribute a role authority in this webpage. Administrator owns the highest authority, and it cannot be modified or deleted.

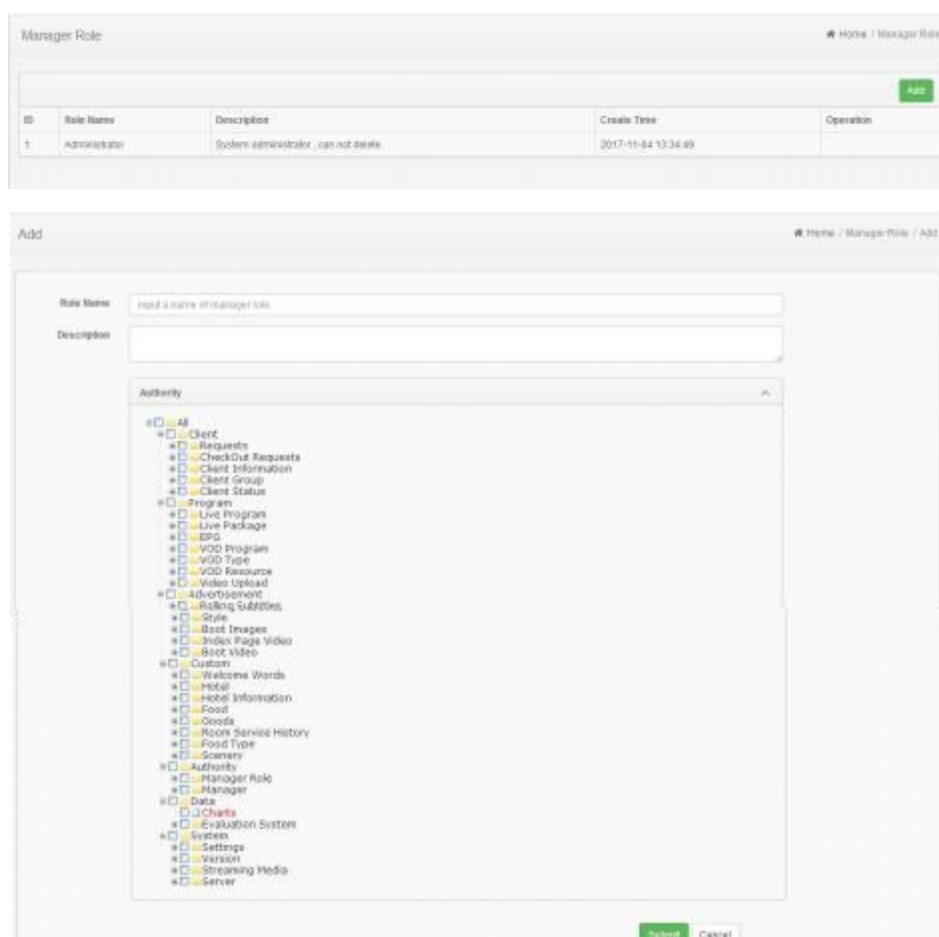


Figure-121

NOTE:

Please do not delete the established manager roles in case it will lead to a data loss.

【Manager】

Administrator can create, edit and distribute the manager roles' login numbers; the defaulted manager name is "admin", and password is "123456".

Manager

Home / Manager

Input keywords to filter:

ID	Manager Name	Phone Number	Role Name	Remarks	Create Time	Operation
1	admin		Administrator		2017-11-04 13:34:49	

Edit

Home / Manager / Edit

Manager Name: admin

Phone Number:

Manager Role: Administrator

Remarks:

Submit Cancel Popover/Export

Figure-122

Data

【Chart】 It is easy to check the turnover and VOD data in Chart webpage for a reference.



Figure-123

System

【Settings】

It is available to make some basic setting here, such as live protocol, APK home page layout, client language, weather and time etc.

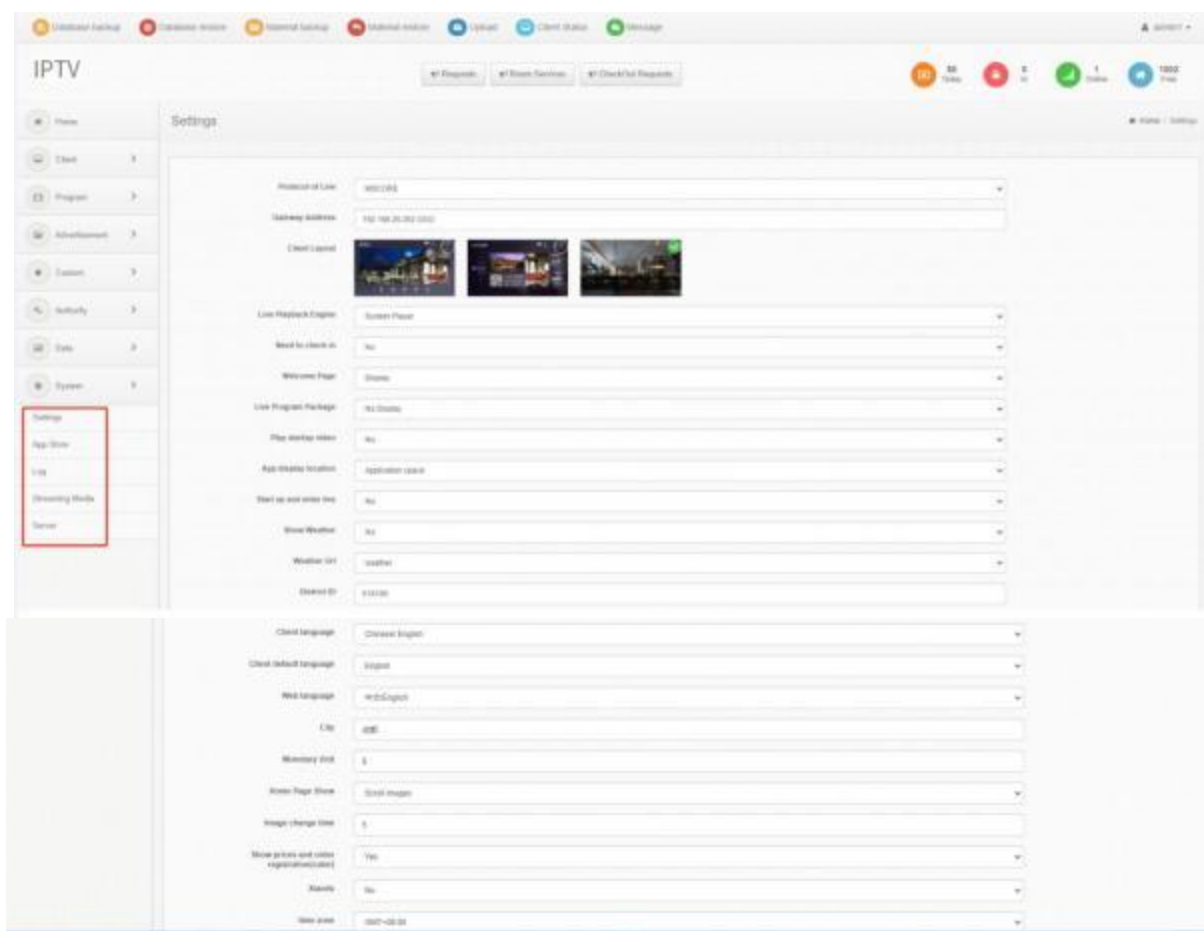
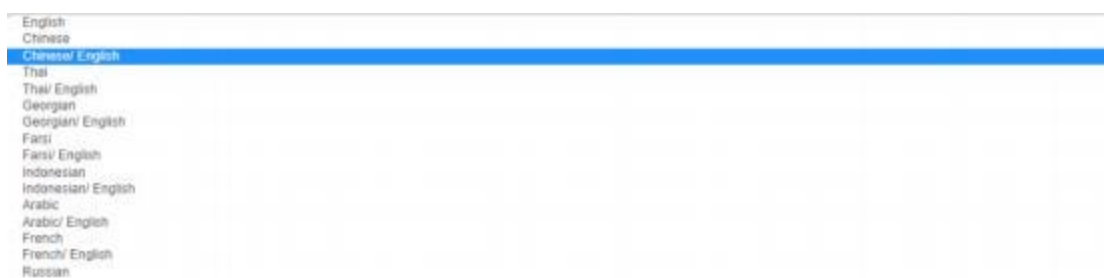


Figure-124



MSCORE: It means that the live programs will come from the Protocol Conversion and HTTP.



Client default language: the menu language of the APK in terminals. The above is the available language at present.

【APP Store】 It is available to upload APK here to update the terminals.

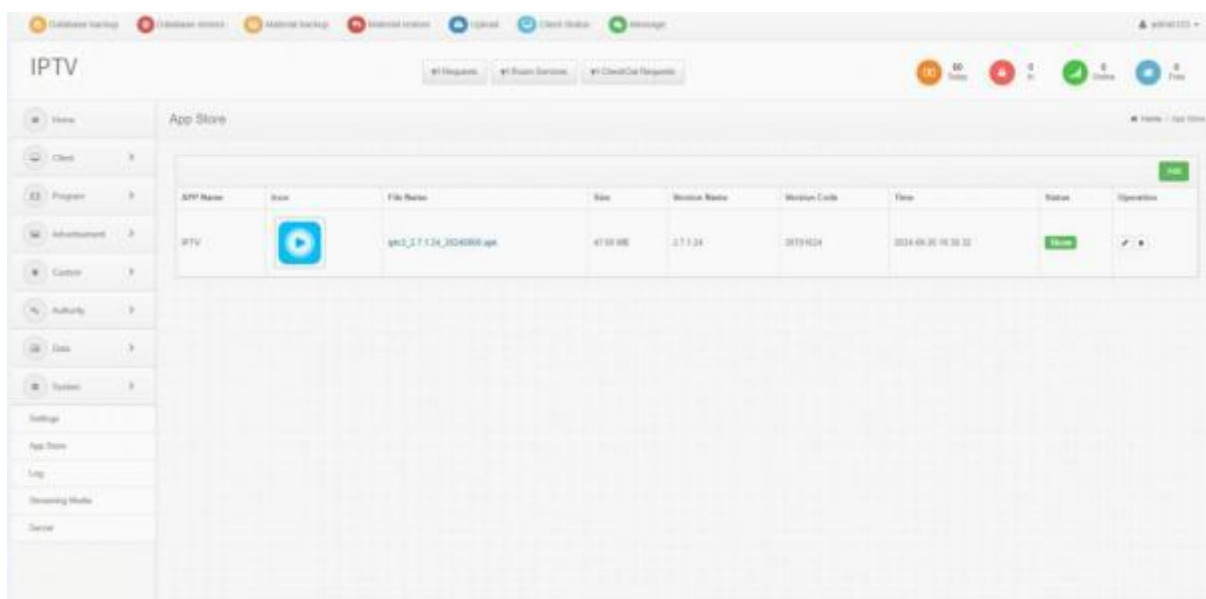


Figure-125

【Log】 It is available to check the operation logs here.

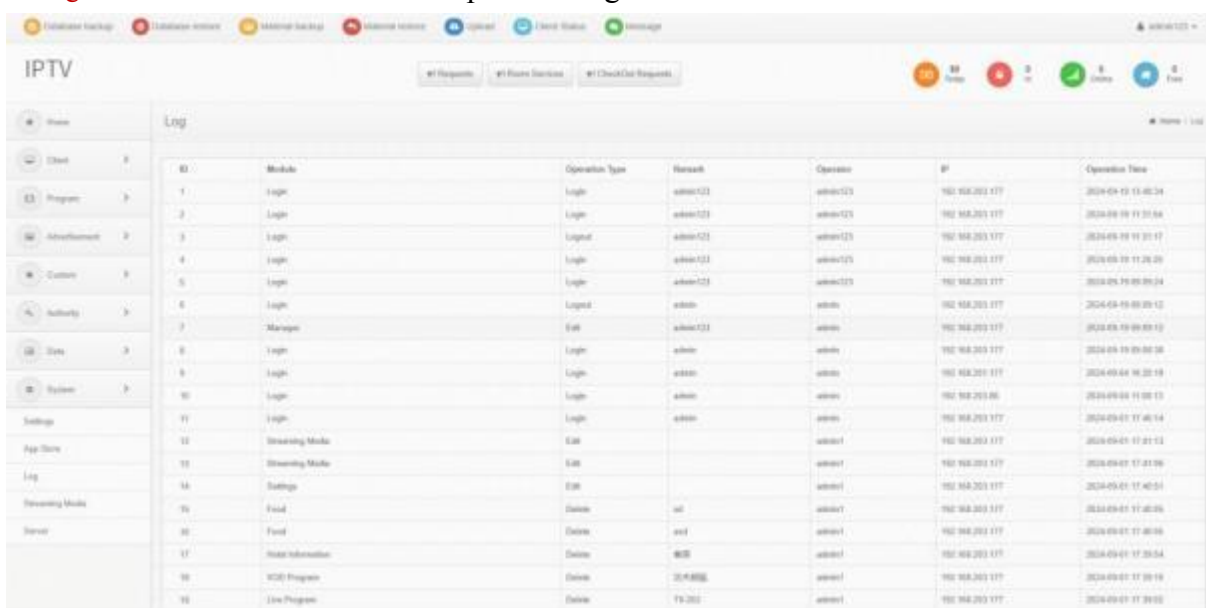


Figure-126

【Streaming Media】 It is an inner streaming setting in the server.

Note: Please do not modify anything default in this page and please contact technician if necessary.

Figure-127

【Server】 It is available to check server parameters status, including OS , internal memory , rigid disk, CPU, and network.

Figure-128

Chapter 6 Troubleshooting

HONDAO's ISO9001 quality assurance system has been approved by CQC organization. For guarantee the products' quality, reliability and stability. All HONDAO products have been passed the testing and inspection before ship out factory. The testing and inspection scheme already covers all the Optical, Electronic and Mechanical criteria which have been published by HONDAO. To prevent potential hazard, please strictly follow the operation conditions.

Prevention Measure

- Installing the device at the place in which environment temperature between 0 to 45 °C
- Making sure good ventilation for the heat-sink on the rear panel and other heat-sink bores if necessary
- Checking the input AC within the power supply working range and the connection is correct before switching on device
- Checking the RF output level varies within tolerant range if it is necessary
- Checking all signal cables have been properly connected
- Frequently switching on/off device is prohibited; the interval between every switching on/off must greater than 10 seconds.

Conditions need to unplug power cord

- Power cord or socket damaged.
- Any liquid flowed into device.
- Any stuff causes circuit short
- Device in damp environment
- Device was suffered from physical damage
- Longtime idle.
- After switching on and restoring to factory setting, device still cannot work properly.
- Maintenance needed