

Android IPTV Player

User Guide

www.ezhometech.com

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1. Introduction

Android IPTV Player can play automatic personalization channels and movies list from Ezserver.

Features:

- Live Channels and Video on Demand
- Personalization Channels and Movies
- EPG and Catch up TV
- Parent Control of adult content.



2. Software Requirement

Items	Version
Ezhometech Ezserver	AI
Android	Above 4.x, 5.x, 6.x

3. Hardware Requirement

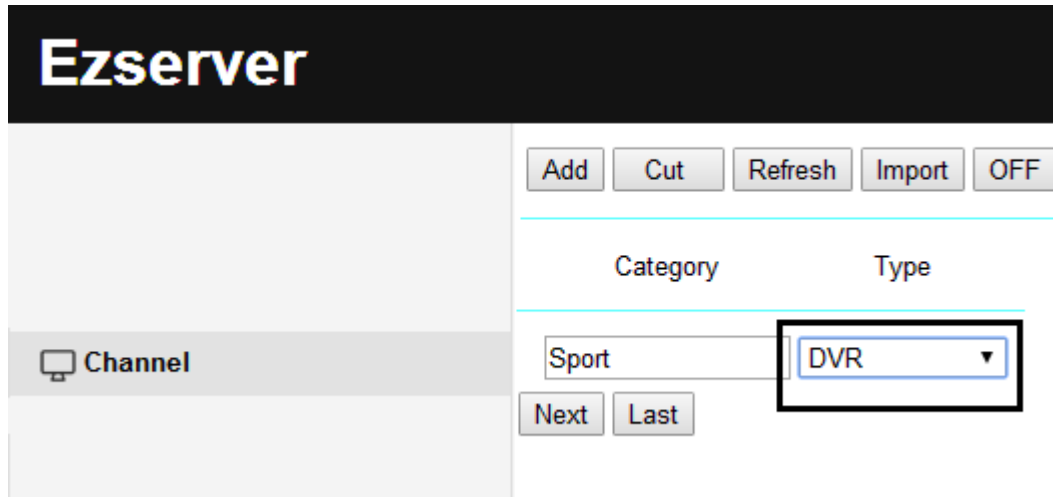
Items	Specification
Processor	Above 1.0GHz
Memory	At least 1GB
Network Interface	802.11 a/b/g/n
Disk Space	1GB

4. Software Specification

General Function
<ul style="list-style-type: none">• HTTP Streaming Protocol
<ul style="list-style-type: none">• MAC Address protection
<ul style="list-style-type: none">• Support Smart TV, IP STB, Tablet PC, Mobile Phone
<ul style="list-style-type: none">• Support Touch Screen Menu
<ul style="list-style-type: none">• Support Remote Controller
<ul style="list-style-type: none">• Support Video Server: EZserver
<ul style="list-style-type: none">• Automatic App Update
<ul style="list-style-type: none">• Automatic Start
IPTV/OTT
<ul style="list-style-type: none">• Video Streaming From Ezserver
<ul style="list-style-type: none">• Channel Selection
<ul style="list-style-type: none">• All IPTV Channels for play, pause, forward/backward seek
<ul style="list-style-type: none">• Video Format: MPEG2/H264 Transport Stream, Adobe FLV
<ul style="list-style-type: none">• My Channels
<ul style="list-style-type: none">• My Favorite
<ul style="list-style-type: none">• Time expired checking
<ul style="list-style-type: none">• Automatic Channel Update
<ul style="list-style-type: none">• EPG
<ul style="list-style-type: none">• Catch up TV
<ul style="list-style-type: none">• Parent Control
Video On Demand
<ul style="list-style-type: none">• Video Format : MP4, Adobe FLV
<ul style="list-style-type: none">• Playback : Pause, Play, Resume, Forward/Backward Seek
<ul style="list-style-type: none">• Menu Bar for Movie Category
<ul style="list-style-type: none">• Automatic and Real-Time Movie Category Update
<ul style="list-style-type: none">• My Movies
<ul style="list-style-type: none">• Easy-to-Use Playback Menu
<ul style="list-style-type: none">• Parent Control
Setting
<ul style="list-style-type: none">• User Name and Password
<ul style="list-style-type: none">• Domain Name
<ul style="list-style-type: none">• Port

5. Create Timeshift Channel

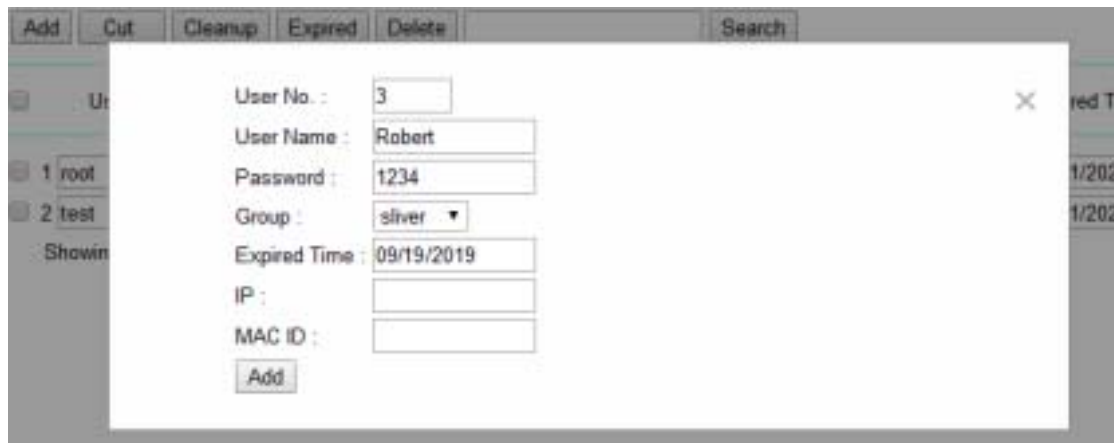
- Login IPTV panel
- Click Channel button and set Type to **DVR**, then click Save button.



The screenshot shows the Ezserver IPTV panel interface. On the left, there is a sidebar with a 'Channel' button. The main area displays a table with columns 'Category' and 'Type'. The 'Type' column has a dropdown menu currently set to 'DVR'. Above the table, there are buttons for 'Add', 'Cut', 'Refresh', 'Import', and 'OFF'. Below the table, there are 'Next' and 'Last' buttons. The 'Sport' category is visible in the table.

6. Add New User

- Login IPTV panel
- Click User button to add new user.



The screenshot shows the 'Add New User' dialog box. It contains the following fields and values:

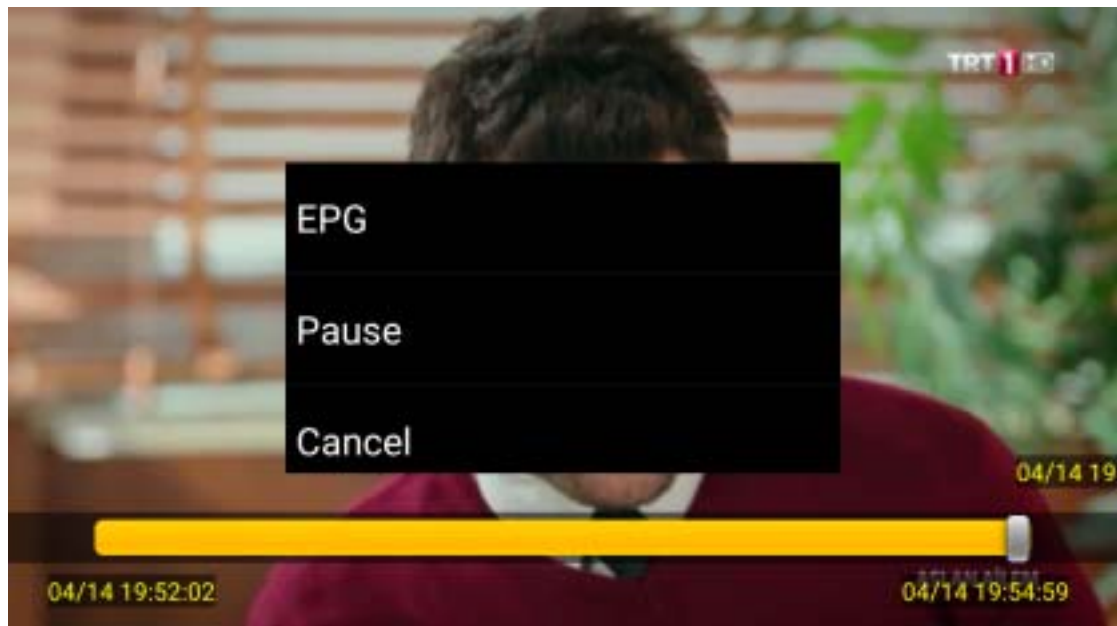
Field	Value
User No. :	3
User Name :	Robert
Password :	1234
Group :	silver
Expired Time :	09/19/2019
IP :	
MAC ID :	

There is an 'Add' button at the bottom left of the dialog box.

7. Timeshift Channels on Mobile devices

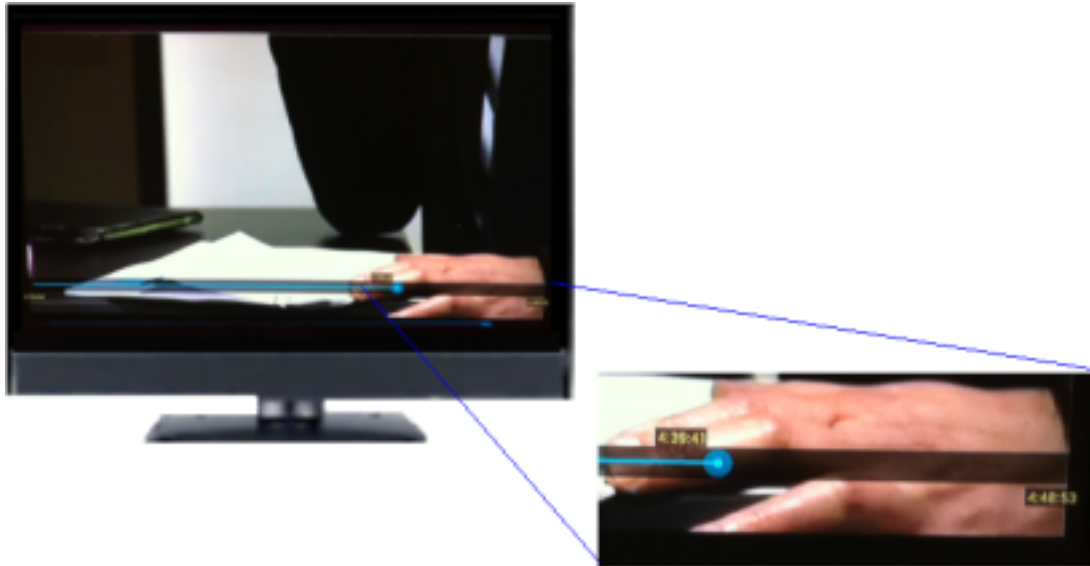
When you click a **timeshift channel** icon to watch it, you can click any position of the screen to enable OSD menu for **seek bar** and **menu list funtions**.

- Click EPG button to show EPG List
- Click Pause / Play button to pause / resume the channel.
- For **seek bar**, you can click drag the **seek button** to forward/backward channel.
- For **channel zapping**, you can silde your finger from left-to-right or right-to-left to zap a channel.
- For **ToLive button**, you can watch the live channel back.



8. Timeshift Channels on TV

Connect STB with TV and use backward and forward buttons of a remote control for timeshift function.

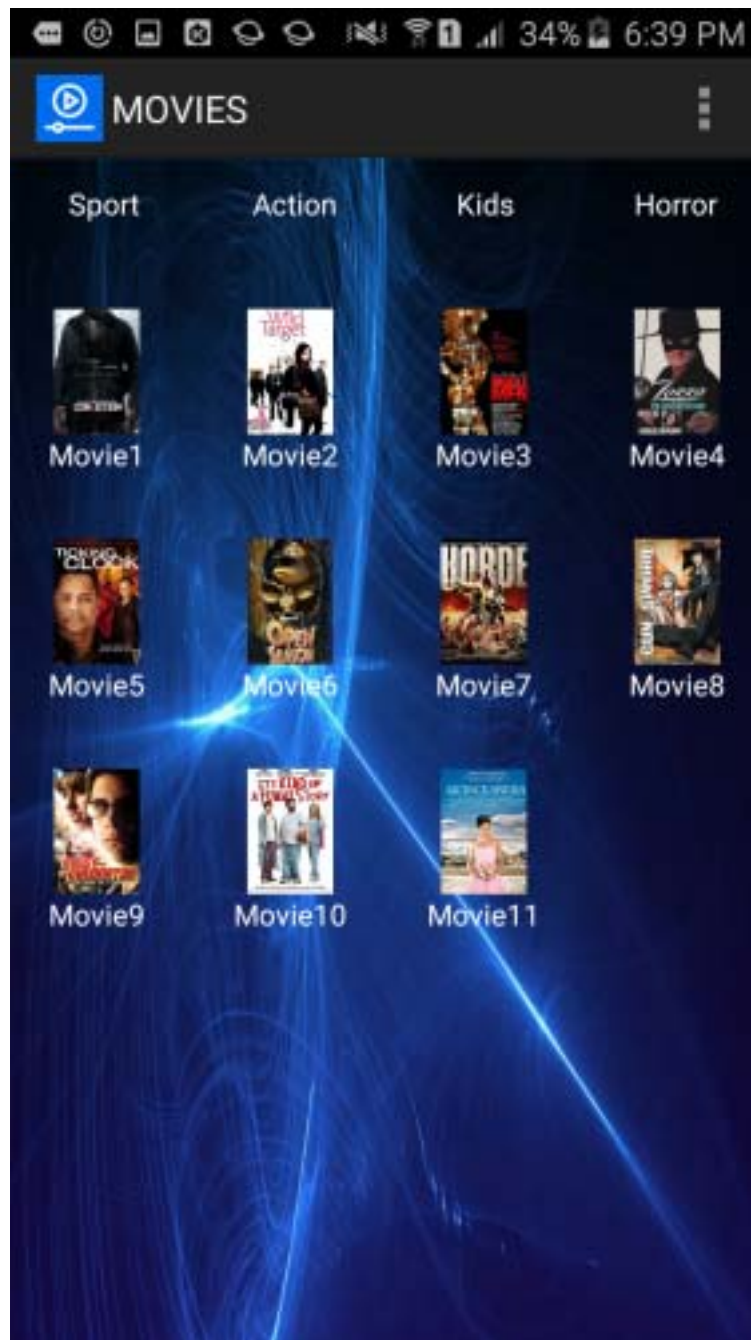


Speical Buttons for DVR:

- **Right Arrow Button:** Fast Backward
- **Left Arrow Button:** Fast Forward
- **Up Arrow Button:** Slow Backward
- **Down Arrow Button:** Slow Forward

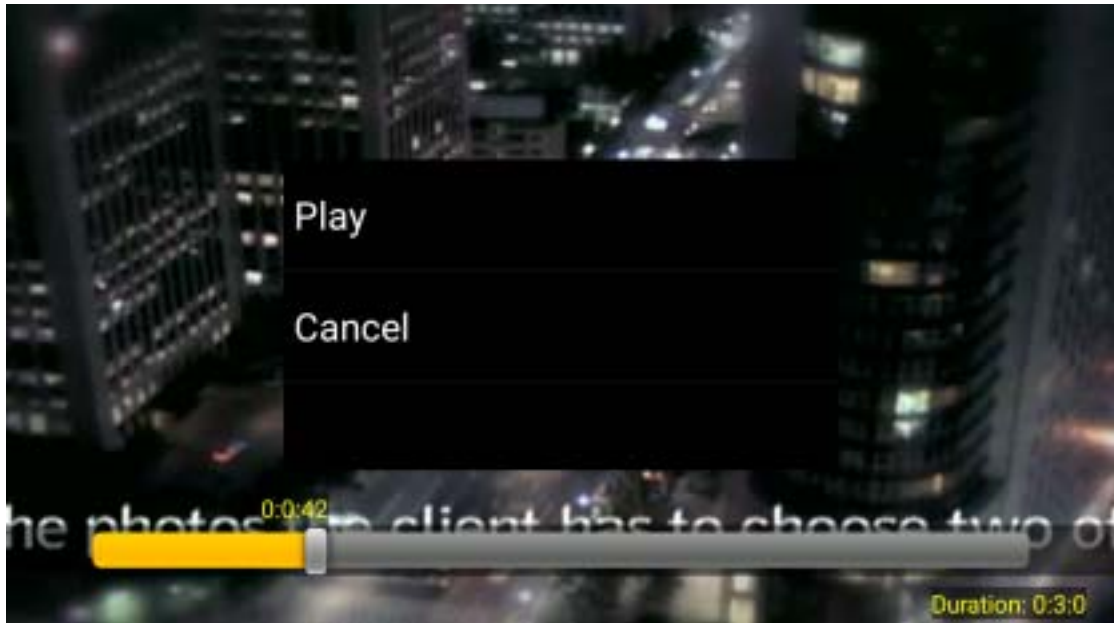
9. Movies on Mobile devices

Select MOVIES in main menu to get all movies with categories as below:



Select one movie icon to watch the movie. You can also click any position of the screen to enable OSD menu for the **seek bar** and **playback buttons**.

- Click Pause / Play button to pause / resume the channel.
- For **seek bar**, you can click drag the **seek button** to forward/backward movie.



10. Movies on TV

When you select a movie Category on the menu bar, Android IPTV Player will show movies in the TV screen and you can watch a movie using a remote control.



When a movie is playing, you can press “OK” button to show the playback menu to pause, resume, even forward seek by “Right-Arrow” button “OK” button, backward seek by “Left-Arrow” button with “OK” button.



Buttons:

- **“OK” Button:** Pause/Resume, Play for Forward/Backward Seek
- **“Right-Arrow” Button:** Forward Seek
- **“Left-Arrow” Button:** Backward Seek
- **“Back” or “Stop” Button:** Back to VOD Menu

11. EPG and Catch up TV

- Click Panel Setting to set EPG source by two options as below:
 - Source from XMLTV: Input XMLTV http link in item#15

The screenshot shows the 'Ezserver' web interface. On the left is a sidebar with a 'Setting' button. The main area is titled 'EPG Setting:' and contains two items:

- Item 14: 'MPEG Transport Stream' with a dropdown menu set to '1'. A note below it says 'Value: 0 (disabled), 1 (Real Time Extraction)'.
- Item 15: 'XMLTV EPG URL' with a text input field containing 'http://www.ezhomotech.com/~karlo/iptv/epg.xml' and a '(per day)' label to its right.

 A 'Save' button is located at the top left of the main content area.

Note: XMLTV More information in TvProfil XMLTV service: <http://tvprofil.net/xmltv/>

- Source from Embedded MPEG TS stream: set "1" in item#14

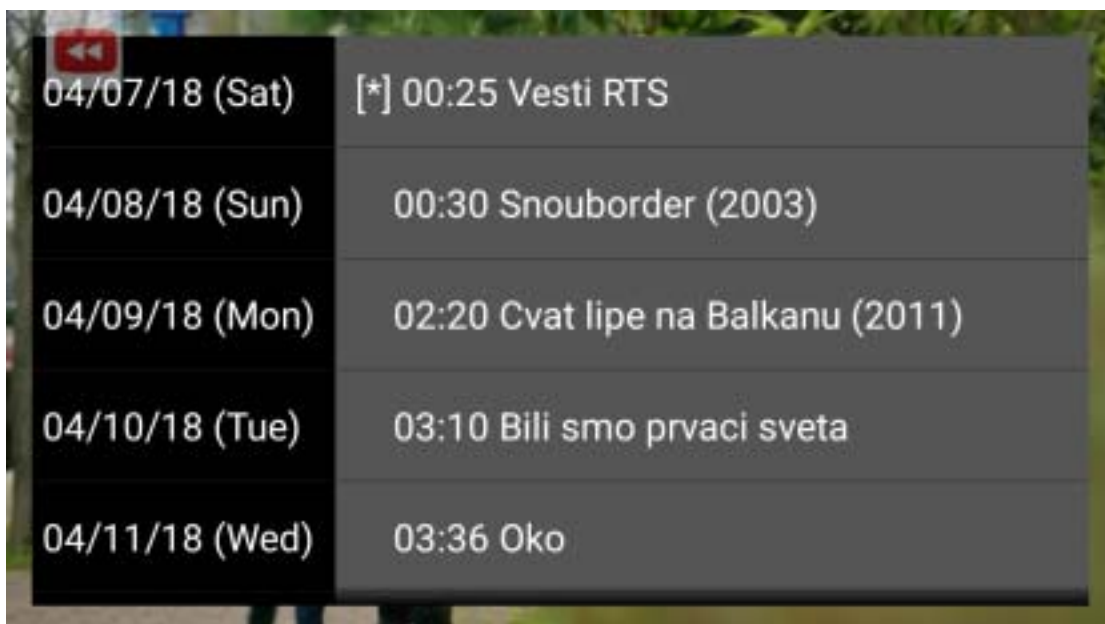
This screenshot is identical to the previous one, showing the 'Ezserver' EPG Setting interface. In this configuration, item 14 'MPEG Transport Stream' is set to '1', and item 15 'XMLTV EPG URL' is set to 'http://www.ezhomotech.com/~karlo/iptv/epg.xml'.

- Restart Ezserver
- Click Panel EPG button to check Channel EPG available as below:

The screenshot shows the 'AI v4.1(08/27/18)' interface. On the left is a sidebar with an 'EPG' button. The main area displays a table of program information for Channel No. 2, selected for the year 2018 and month 05. The table has columns for 'No.', 'Start Time', 'Stop Time', and 'Program Title'. A 'Query' button is in the top right corner.

No.	Start Time YYYY/MM/DD hh:mm:ss	Stop Time YYYY/MM/DD hh:mm:ss	Program Title
1	2018/05/14 00:55:00	2018/05/14 01:55:00	Trezor
2	2018/05/14 01:55:00	2018/05/14 02:40:00	TV lica... Kao sav normal
3	2018/05/14 02:40:00	2018/05/14 03:15:00	Spiski sanitet u Velikom
4	2018/05/14 03:15:00	2018/05/14 03:40:00	Srbi u Australiji
5	2018/05/14 03:40:00	2018/05/14 04:05:00	Šest lica tanga

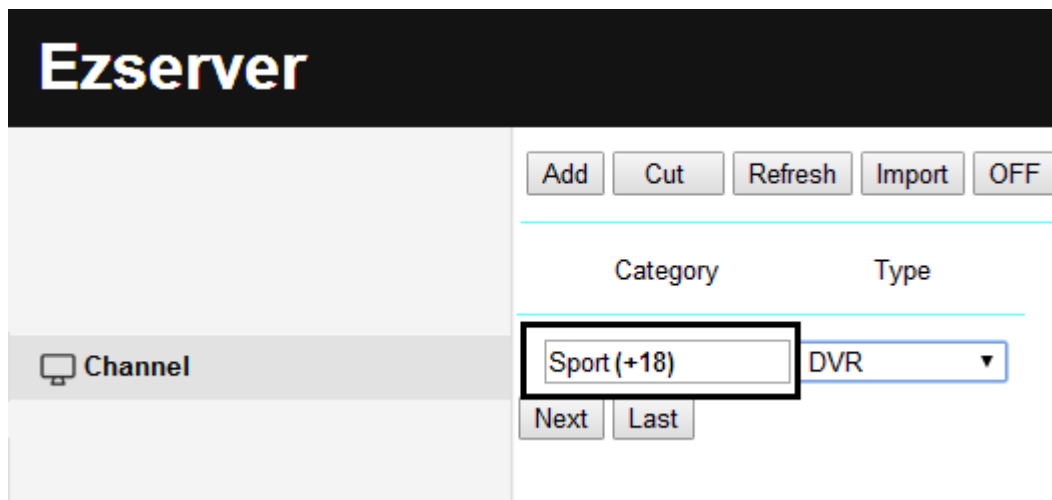
- Click Player EPG button to show the below EPG list of the channel and [*] option of one program name is for Catch up TV that was recorded by its EPG time.



04/07/18 (Sat)	[*] 00:25 Vesti RTS
04/08/18 (Sun)	00:30 Snouborder (2003)
04/09/18 (Mon)	02:20 Cvat lipe na Balkanu (2011)
04/10/18 (Tue)	03:10 Bili smo prvaci sveta
04/11/18 (Wed)	03:36 Oko

12. Parent Control

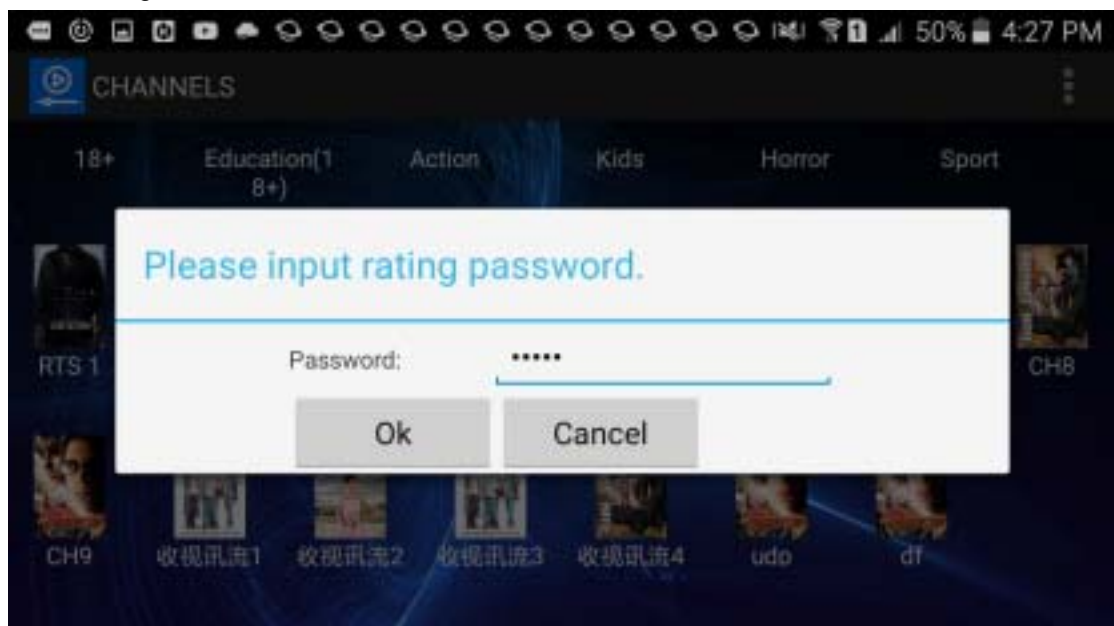
Add "18+" keyword into channel and movie **categories** of IPTV Panel



Input rating password in user more profile as below:

User:	root
IP 2:	192.168.0.1
IP 3:	192.168.0.2
IP 4:	192.168.0.3
IP 5:	192.168.0.4
Rating Password:	marocco2
Level:	Administrator

When one player starts to play the channels or movies of the category, the player shows password dialog as below:



13. Setting

When you start Android IPTV Player first time, you have to input Ezserver Information into the Setting. The Setting includes User name, Password, Domain name and Port No. as below:

The screenshot shows the Ezserver web interface in a browser at `192.168.0.10:18000/admin/index.htm`. The 'Unicast Streaming Settings' section includes:

Setting	Value	Description
1. Panel port:	18000	Administrator Panel Port
2. API port:	17000	Application Program Interface Port
3. HTTP port:	8000	HTTP Streaming Port for players
4. RTMP port:	1935	RTMP Streaming Port for players

Below the browser, the AI IPTV Player settings screen is shown with the following fields:

- Version: 1.0
- User name: test
- Password:
- Domain name :
- Port :

At the bottom are 'Save' and 'Cancel' buttons. A black line connects the IP address `192.168.0.10` from the browser address bar to the 'Domain name' field. Another black line connects the 'API port' value `17000` from the web interface to the 'Port' field.

14. MAC Address Protection

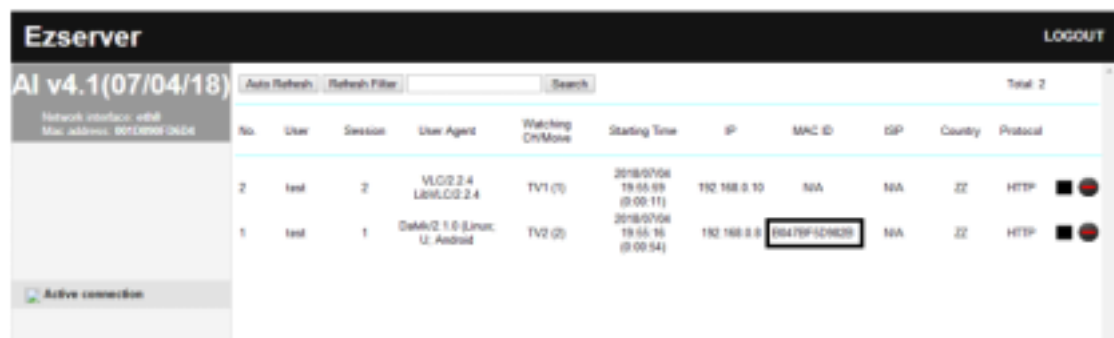
Android IPTV Player supports MAC Address mechanism with Ezserver for Video Streaming Protection.

Administrator can add new user withj MAC ID.



A screenshot of a web application interface showing a modal dialog for adding a new user. The dialog has a title bar with 'Add', 'Cut', 'Cleanup', 'Expired', 'Delete', and 'Search' buttons. The form fields are: User No. (3), User Name (David), Password (1234), Group (basic), Expired Time (360), IP (empty), and MAC ID (B047BF5D982B). An 'Add' button is at the bottom left. The background shows a list of users with columns for 'User No.', 'User Name', 'Group', 'Expired Time', 'IP', and 'MAC ID'.

When the player connects EZserver, EZserver will check its MAC Address for the legal connection. If the player has correct MAC Address with its user name, EZserver will show its connection in Player panel with its MAC Address.



A screenshot of the Ezserver main interface. The top bar shows 'Ezserver' and 'LOGOUT'. The left sidebar shows 'AI v4.1(07/04/18)' and 'Network interface: eth0 Mac address: B047BF5D982B'. The main area has a table of active connections. The table has columns: No., User, Session, User Agent, Watching On/Move, Starting Time, IP, MAC ID, ISP, Country, and Protocol. Two rows are shown: one for user 'test' with session 2, and another for user 'test' with session 1. The MAC ID for the second row is B047BF5D982B, which is highlighted with a red box.

No.	User	Session	User Agent	Watching On/Move	Starting Time	IP	MAC ID	ISP	Country	Protocol
2	test	2	VLC/2.2.4 Libs/2.2.4	TV1 (C)	2018/07/04 19:55:59 (0:00:11)	192.168.0.10	NA	NA	ZZ	HTTP
1	test	1	Defek(2.1.0)Linux: U: Android	TV2 (C)	2018/07/04 19:55:16 (0:00:54)	192.168.0.8	B047BF5D982B	NA	ZZ	HTTP

15. Timeshift Recording Buffer Size

It is the duration for recording live video to do timeshift functions as pause, resume, backward and forward.

The screenshot shows the Ezserver web interface. On the left is a sidebar with a 'Setting' button. The main area is titled 'Channel Setting:' and contains a 'Save' button at the top. Below it are five settings, each with a text input field and a unit label:

Setting ID	Setting Name	Value	Unit
8	Channel Input Buffer No.:	8000	Panel w
9	Channel Streaming Prebuffer No.:	2000	The va
10	Channel Streaming Bitrate Tolerance:	0	Value: t
11	Channel Reconnection Interval:	7	sec.
12	DVR Duration:	60	min.

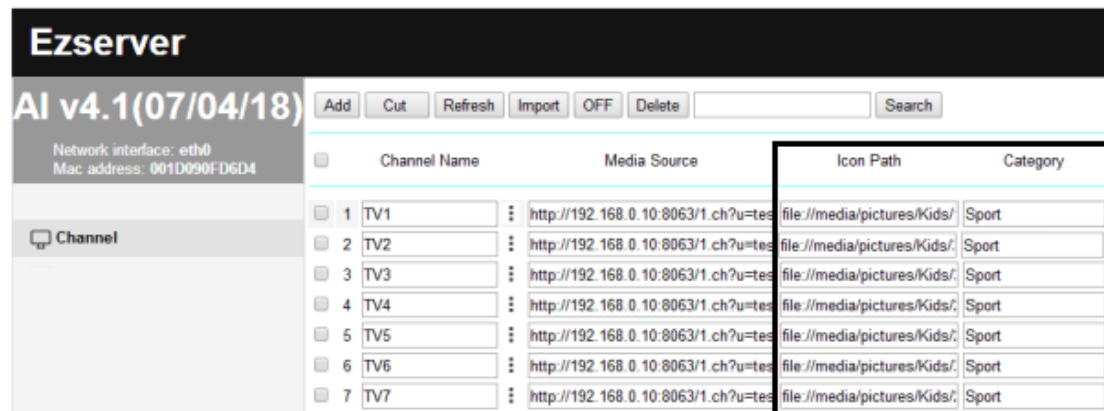
The row for '12. DVR Duration:' is highlighted with a red rectangular box.

16. App Update

- Upload new apk (**ovp3.apk**) into server folder: **ezserver_ai/apk/**
- When users start App, it will show update information on the screen.

17. Channel Logo Customization

Channel icons and categories are defined in the icon path and category field of each channel in the IPTV Panel

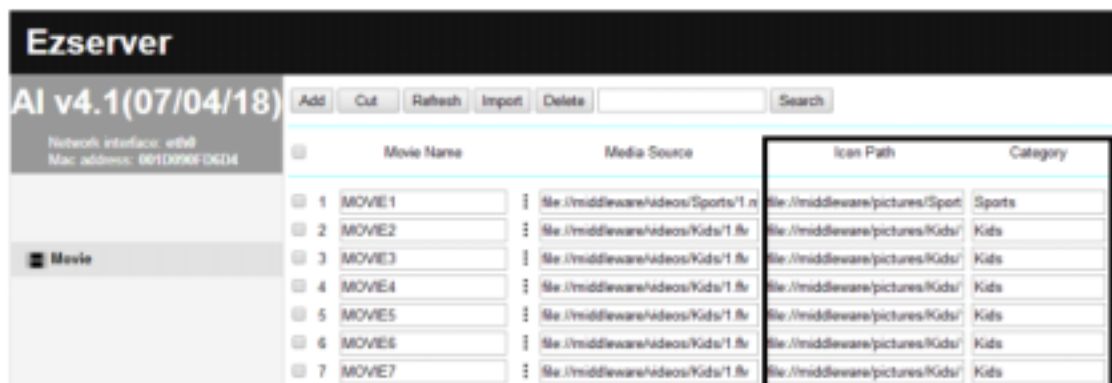


The icon property is as below:

- Size: 242x350 pixels
- Image format: jpg
- File extension name: .jpg

18. Movie Logo Customization

Movie icons and categories are defined in the icon path and category field of each movie in the IPTV Panel.



The icon property is as below:

- Size: 242x350 pixels
- Image format: jpg
- File extension name: .jpg