



Ezhometech Multicast Tutorial

Ezserver and Ezserver Multicast Player

Revision: 11/15/2021



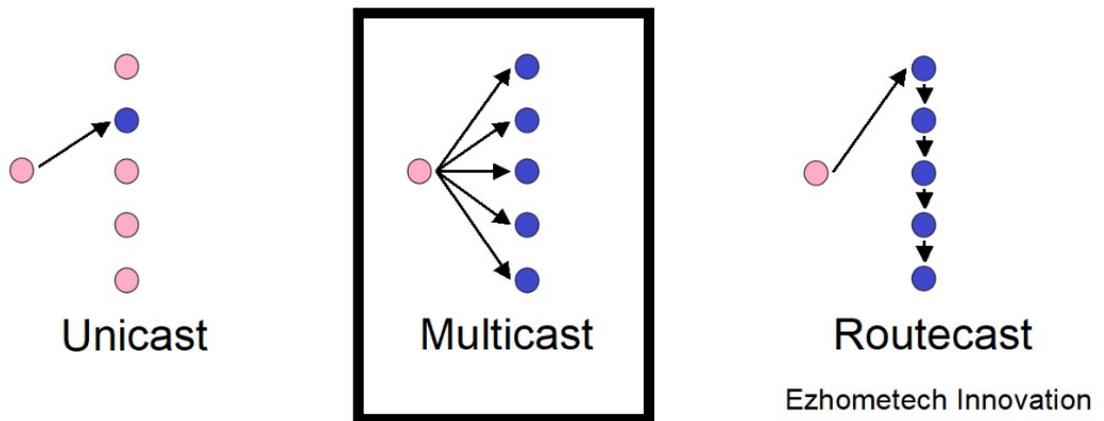
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1 Overview of Ezhometech Multicast

Ezhometech Multicast solution lets **Ezserver** support Ezserver Multicast players to play channels from Ezserver via UDP Protocol

1. **Ezserver:** Act Multicast video server
2. **Ezserver Multicast Players:** An IPTV Player.



1.1 Related Information

Ezserver Forum:

<https://ezserver.createaforum.com/>

Ezserver Server API website

http://www.ezhometech.com/html/server_api.html

Ezserver Client API website:

http://www.ezhometech.com/html/client_api.html

Ezserver User Guide website:

http://www.ezhometech.com/html/ezserver_user_guide.html

Ezserver Player User Guide:

http://www.ezhometech.com/html/ezserver_user_guide_player.html

2 Ezserver

Ezserver includes OTT / IPTV panel, and Streaming server for Multicast channel video streaming, it also provides API. for 3rd party software integration.

API has 2 types that are for cloud or app software developers.

1. **EZ Server API** provides API for Cloud applications
2. **EZ Client API** provides API for App in mobile, STB and PC.

OTT / IPTV panel:

- **User management:** create, modify and delete users.
- **Channel management:** create, modify and delete channels.
- **Movies management:** create, modify and delete movies.
- **Series management:** create, modify and delete series.
- **Reseller panel:** create, modify and delete his users.

Streaming server:

- **Video format:** H264 and H265.
- **Audio format:** AAC, MP3.

Hardware Requirement:

- **Min. Requirement:** Dual-Core, 8GB RAM, 1GB Network card.
- **More at** http://www.ezhometech.com/html/ezserver_user_guide.html#Hardware%20requirement

Software Requirement:

- **Linux:** Ubuntu 20.04(Recommended), Debian, Centos
- **Windows:** 64-bits

3 Ezserver Panel Setting

Multicast Setting:

- **Disable Routecast option**

1. Routecast:

2. Routecast Cmd Port :

3. Routecast Data Port :

- **Set Multicast output IP and Port**

Ezserver

⚙️ Setting

Multicasting Streaming Setting:

6. Multicast IP :

7. Multicast port:

Add users:

- **Add annie user with max connection value 1.**

User No. :

User Name :

Password :

Rating Password :

Group :

Level:

Expired Time : *

IP :

MAC ID :

Max. Connections:

4 Ezserver Multicast Player

Ezserver Multicast Player is an OTT Player that plays channels, movies and series from Ezserver via Internet.

Features:

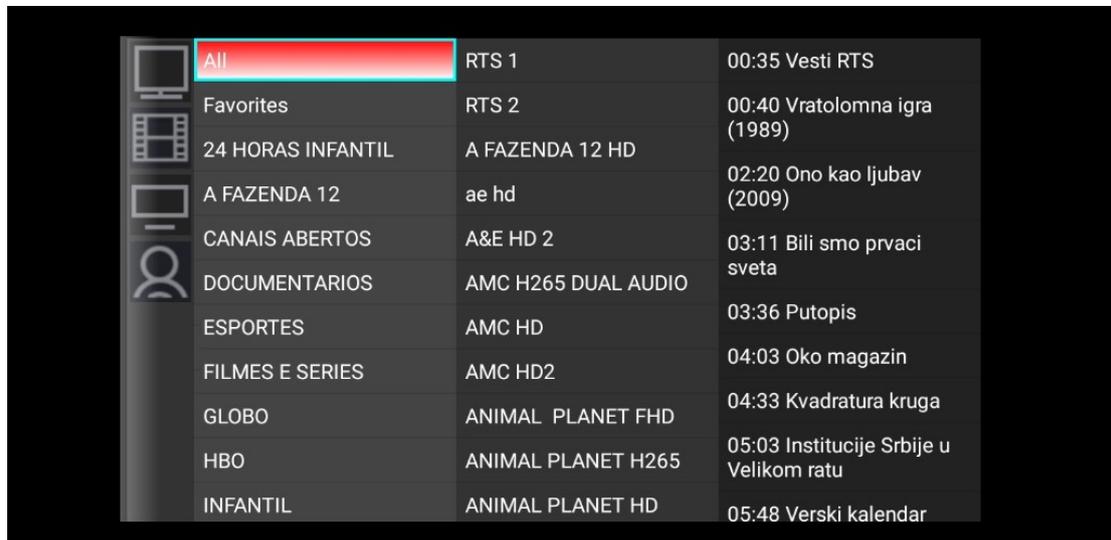
- **Save Server Bandwidth**
- **TV, Movie and Series**
- **EPG and Catch up TV**
- **Parent Control of adult content**
- **MAC ID Protection**
- **Channel Video Format: MPEG2/H264 Transport Stream**
- **Channel Audio Format: MP3/AAC, ADTS Stream**
- **Movie Format: MP4, MKV**

Hardware Requirement:

- **Min. Requirement:** Above 1.0GHz, 1GB RAM, 802.11 a/b/g/n.

Software Requirement:

- **Android 5.0+**



All	RTS 1	00:35 Vesti RTS
Favorites	RTS 2	00:40 Vratolomna igra (1989)
24 HORAS INFANTIL	A FAZENDA 12 HD	02:20 Ono kao ljubav (2009)
A FAZENDA 12	ae hd	03:11 Bili smo prvaci sveta
CANAIS ABERTOS	A&E HD 2	03:36 Putopis
DOCUMENTARIOS	AMC H265 DUAL AUDIO	04:03 Oko magazin
ESPORTES	AMC HD	04:33 Kvadratura kruga
FILMES E SERIES	AMC HD2	05:03 Institucije Srbije u Velikom ratu
GLOBO	ANIMAL PLANET FHD	05:48 Verski kalendar
HBO	ANIMAL PLANET H265	
INFANTIL	ANIMAL PLANET HD	

5 EPG and Catup up TV

Panel Setting:

- Source from XMLTV: Input XMLTV http link in item#15

Ezserver

Save

⚙️ Setting

EPG Setting:

14. MPEG Transport Stream: -- Value: 0 (disabled), 1 (Real Time Extraction)

15. XMLTV EPG URL: (per day)

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

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

Ezserver

Save

⚙️ Setting

EPG Setting:

14. MPEG Transport Stream: -- Value: 0 (disabled), 1 (Real Time Extraction)

15. XMLTV EPG URL: (per day)

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

AI v4.1(08/27/18)

Add Refresh

Channel No.: Query

No.	Start Time YYYY/MM/DD hh:mm:ss	Stop Time YYYY/MM/DD hh:mm:ss	Program Title	
1	<input type="text" value="2018/05/14 00:55:00"/>	<input type="text" value="2018/05/14 01:55:00"/>	Trezor	02
2	<input type="text" value="2018/05/14 01:55:00"/>	<input type="text" value="2018/05/14 02:40:00"/>	TV lica... Kao sav normal	03
3	<input type="text" value="2018/05/14 02:40:00"/>	<input type="text" value="2018/05/14 03:15:00"/>	Srpski sanitet u Velikom r	04
4	<input type="text" value="2018/05/14 03:15:00"/>	<input type="text" value="2018/05/14 03:40:00"/>	Srbi u Australiji	05
5	<input type="text" value="2018/05/14 03:40:00"/>	<input type="text" value="2018/05/14 04:05:00"/>	Šest lica tanga	06

Network interface: eth0
Mac address: 001D090FD6D4

📅 EPG

Player Setting

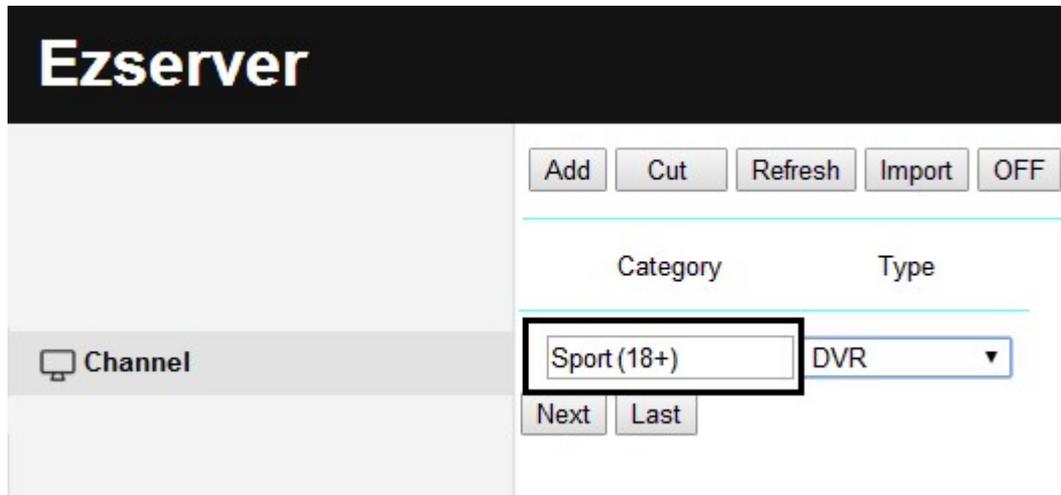
- Click Channel to show the below EPG list of the channel and [*] option of one program name is for Catch up TV that was recorded by its EPG time

Meteo Media HD	[*] 06:00 Prévisions météorologiques
A N	[*] 06:00 Prévisions météorologiques
Cpac	[*] 07:00 Prévisions météorologiques
LCN	[*] 08:00 Prévisions météorologiques
RDI	[*] 09:00 Prévisions météorologiques
TV5	[*] 10:00 Prévisions météorologiques
SMTP1	[*] 11:00 Prévisions météorologiques
ICI Artv	[*] 12:00 Prévisions météorologiques
Unis TV	[*] 13:00 Prévisions météorologiques
Tele Quebec	[*] 14:00 Prévisions météorologiques

6 Parent Control

Panel Setting:

- Add “18+” keyword into channel and movie categories of IPTV Panel

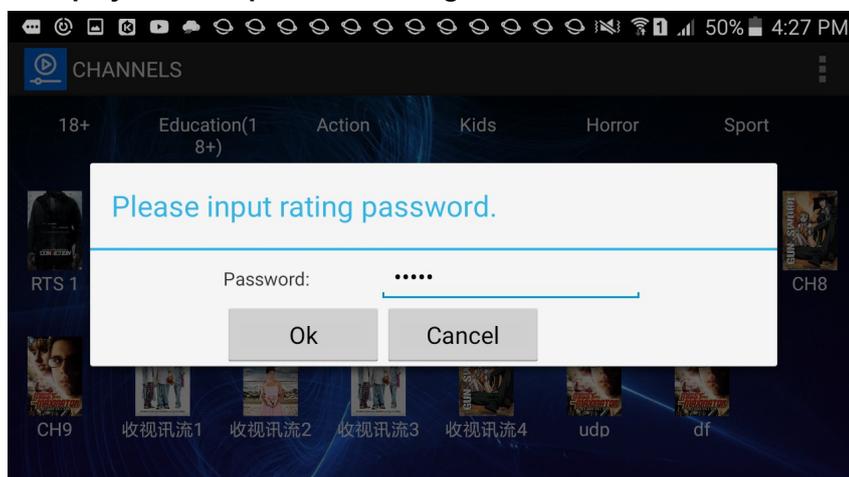


- Input rating password in user more profile as below:

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

Player Side

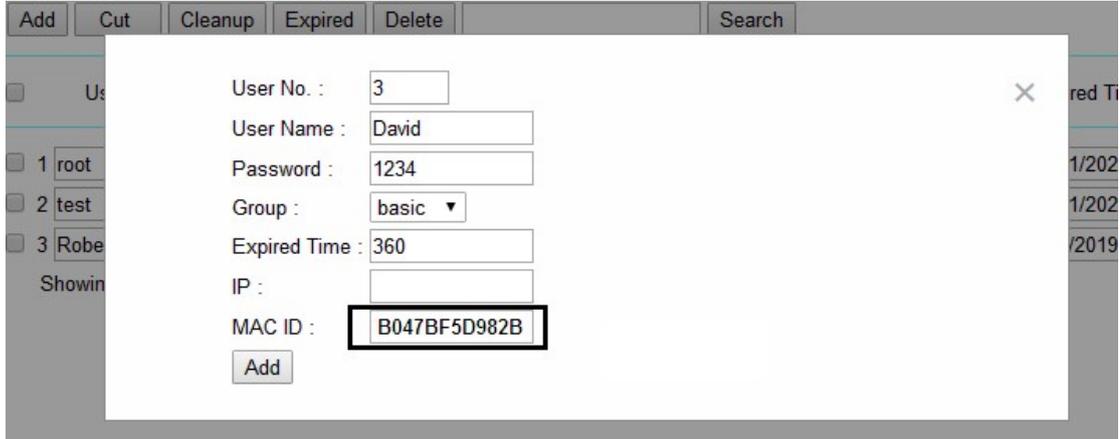
- When one player starts to play the channels or movies of the category, the player shows password dialog as below:



7 MAC ID Protection

Panel Setting:

- Administrator can add new user withj MAC ID.

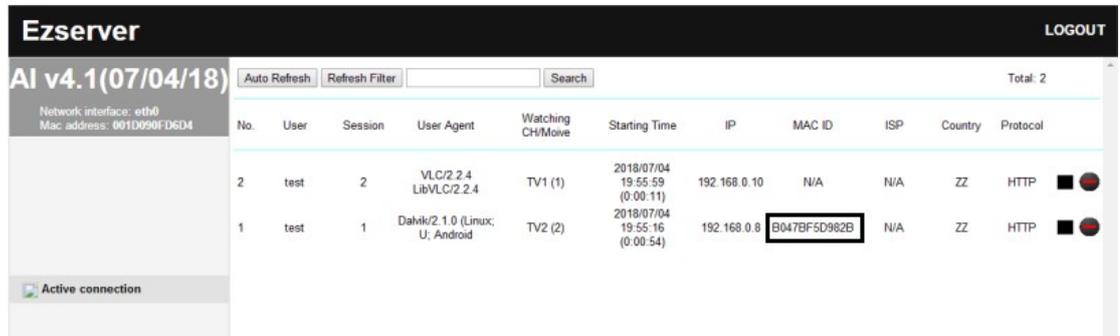


Modal form for adding a new user:

- User No. : 3
- User Name : David
- Password : 1234
- Group : basic
- Expired Time : 360
- IP :
- MAC ID : B047BF5D982B

Buttons: Add

- 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



Ezserver Dashboard (AI v4.1(07/04/18))

Network interface: eth0
Mac address: 981D099FD6D4

Table of Active Connections:

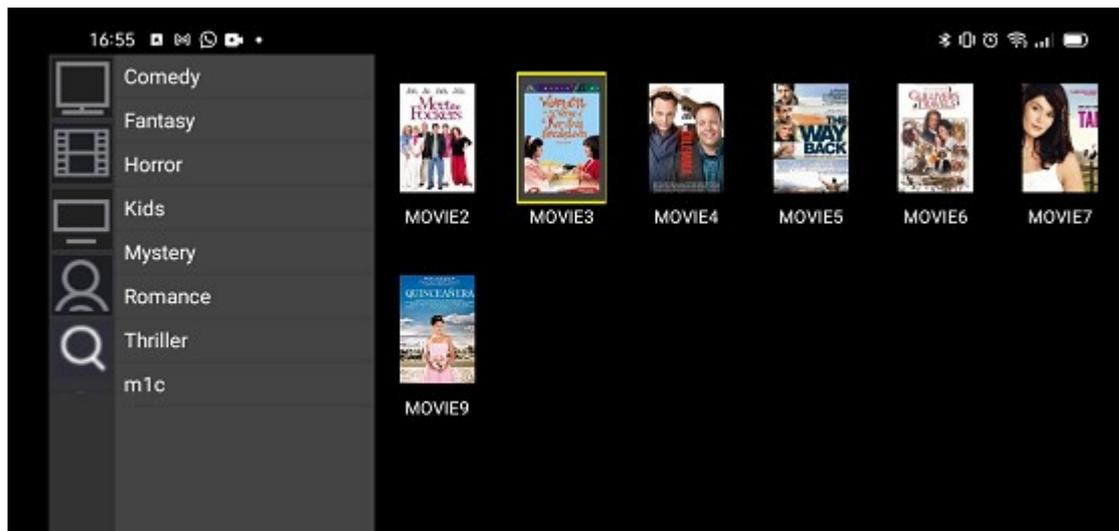
No.	User	Session	User Agent	Watching CH/Move	Starting Time	IP	MAC ID	ISP	Country	Protocol
2	test	2	VLC/2.2.4 LibVLC/2.2.4	TV1 (1)	2018/07/04 19:55:59 (0:00:11)	192.168.0.10	N/A	N/A	ZZ	HTTP
1	test	1	Dahiki/2.1.0 (Linux; U; Android	TV2 (2)	2018/07/04 19:55:16 (0:00:54)	192.168.0.8	B047BF5D982B	N/A	ZZ	HTTP

Active connection

8 Movies and Series

Movies:

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



Series:

- Select  in main menu to get all series with categories as below:

