



Ezhometech Unicast Tutorial

Ezserver and Ezserver Unicast Player

Revision: 01/07/2022



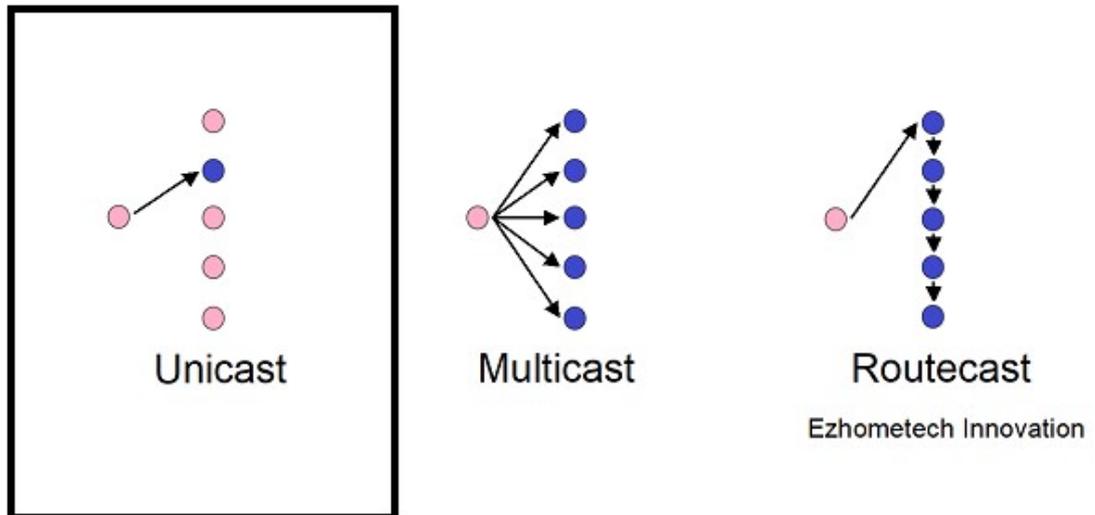
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1 Overview of Ezhometech Unicast

Ezhometech Unicast solution lets **Ezserver** support Ezserver Unicast players to play channels from Ezserver via Internet

1. **Ezserver:** Act Unicast video server
2. **Ezserver Unicast Players:** An OTT 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 Unicast 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

Unicast Setting:

- **Disable Routecast option**

1. Routecast:

2. Routecast Cmd Port :

3. Routecast Data 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 Unicast Player

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

Features:

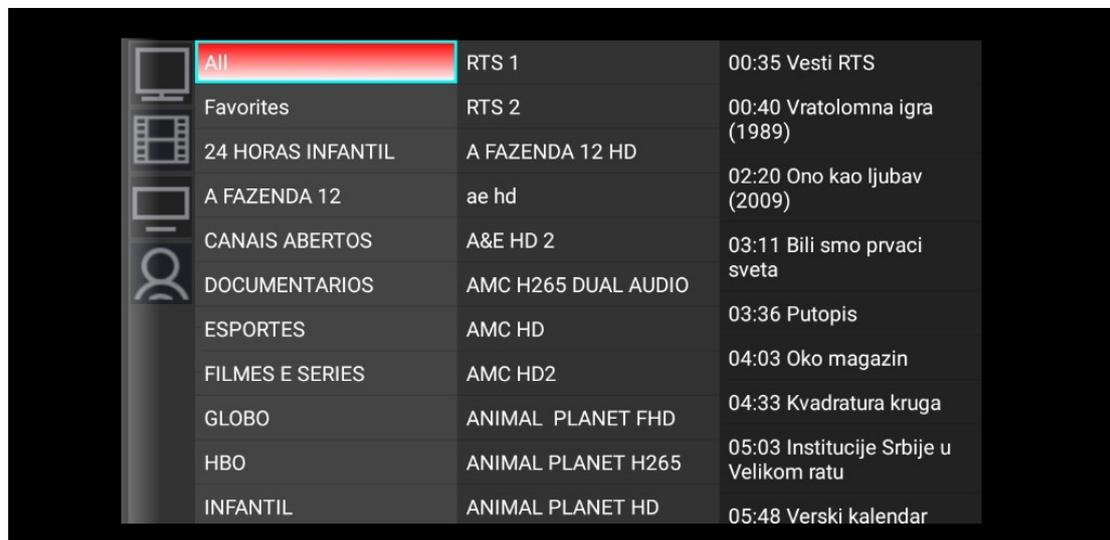
- **TV, Movie and Series**
- **Support Youtube Channel Links**
- **EPG and Catch up TV**
- **Parent Control of adult content**
- **MAC ID Protection**
- **Channel Video Format: MPEG2/H264 Transport Stream**
- **Channel Audio Format: MP3/AAC, ADTS Stream**
- **Movie Format: MP4, MKV**

Hardware Requirement:

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

Software Requirement:

- **Android 5.0+**



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)

Network interface: eth0
Mac address: 001D090FD6D4

EPG

Add Refresh

Channel No.: 2018 05 Query

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	Srpski sanitet u Velikom r
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

Player Setting

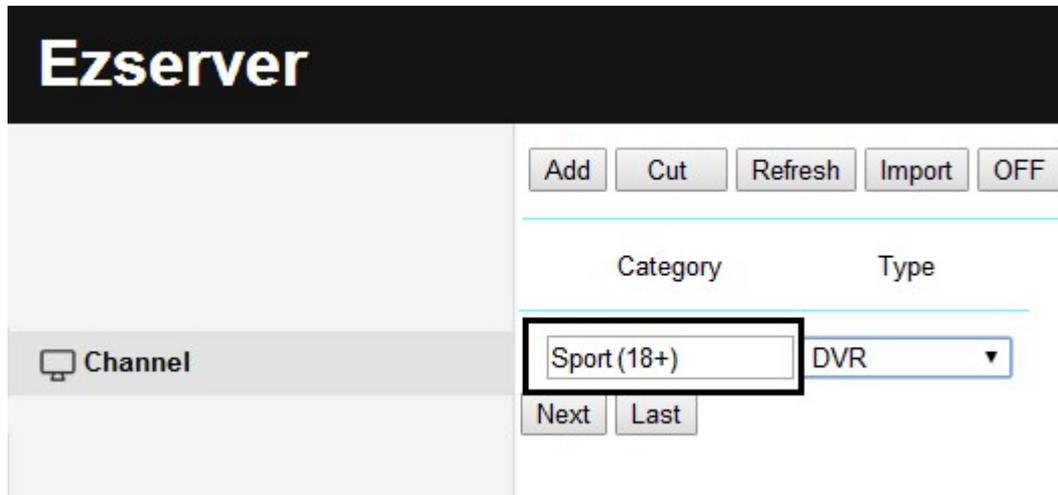
- Click Channel to show the below EPG list of the channel and [*] option of one program name is for Catch up TV that was recorded by its EPG time

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

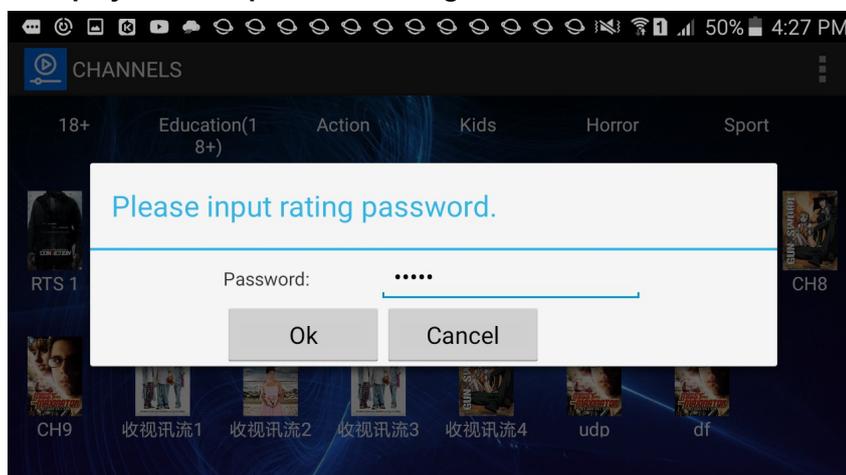


- Input rating password in user more profile as below:

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

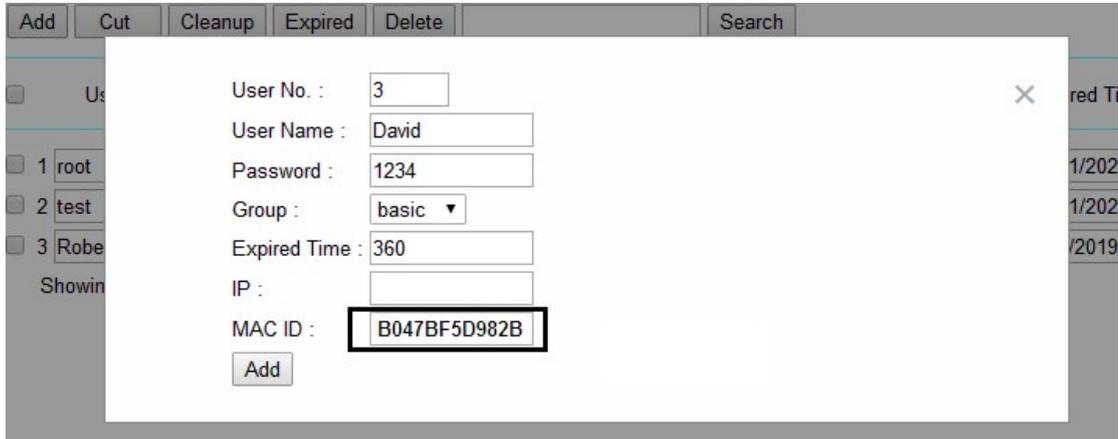
- When one player starts to play the channels or movies of the category, the player shows password dialog as below:



7 MAC ID Protection

Panel Setting:

- Administrator can add new user withj MAC ID.

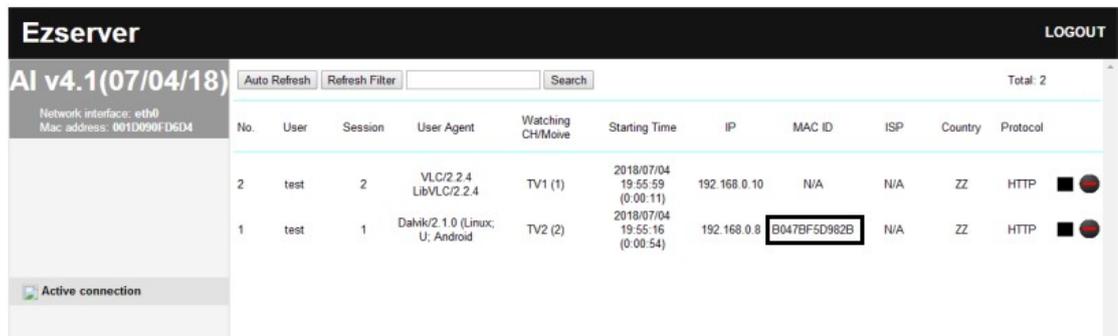


The screenshot shows a user management interface with a modal form for adding a new user. The form fields are as follows:

- User No.: 3
- User Name: David
- Password: 1234
- Group: basic
- Expired Time: 360
- IP: (empty)
- MAC ID: B047BF5D982B (highlighted with a red box)

An "Add" button is located at the bottom of the form.

- 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



The screenshot shows the Ezserver dashboard with the following information:

- Version: AI v4.1(07/04/18)
- Network interface: eth0
- Mac address: 601D090FD6D4
- Logout button
- Auto Refresh, Refresh Filter, Search buttons
- Total: 2

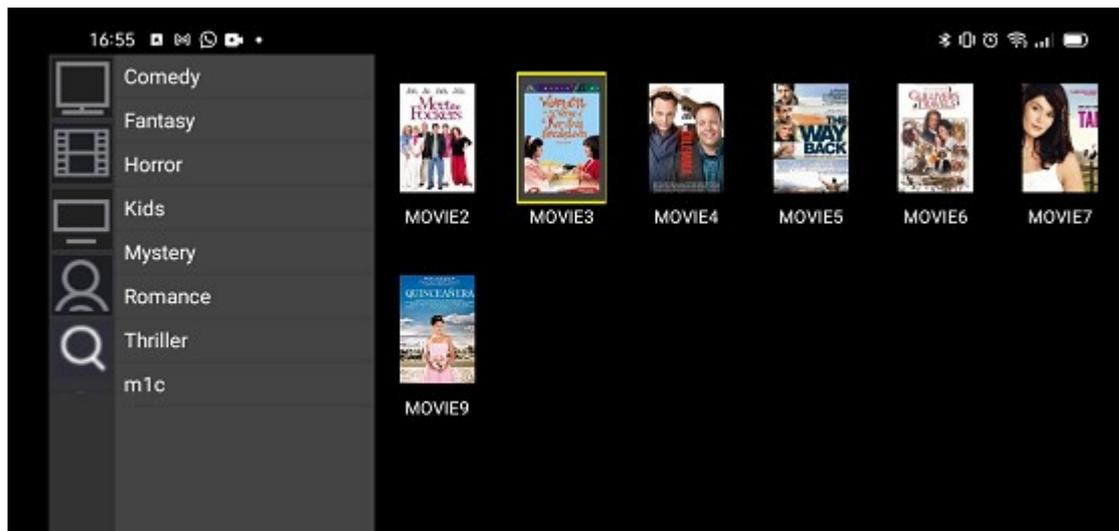
No.	User	Session	User Agent	Watching CH/Move	Starting Time	IP	MAC ID	ISP	Country	Protocol
2	test	2	VLC/2.2.4 LibVLC/2.2.4	TV1 (1)	2018/07/04 19:55:59 (0:00:11)	192.168.0.10	N/A	N/A	ZZ	HTTP
1	test	1	Dahiki/2.1.0 (Linux; U; Android	TV2 (2)	2018/07/04 19:55:16 (0:00:54)	192.168.0.8	B047BF5D982B (highlighted)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

Active connection

8 Movies and Series

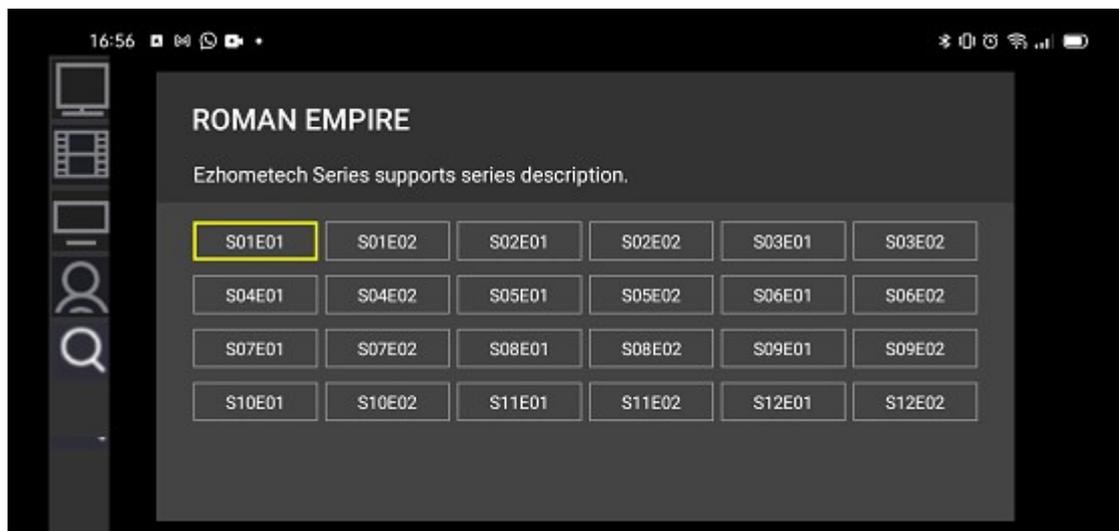
Movies:

- 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:

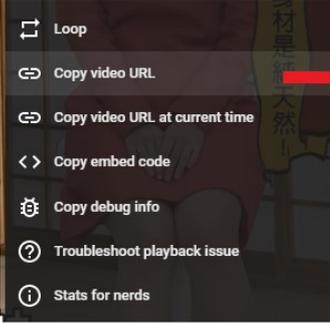


9 Youtube Channel Links

Login Panel to add youtube links:

- Click Channel Menu and Add Channel button

Add Youtube Link



The screenshot shows a video player's context menu with the following options: Loop, Copy video URL, Copy video URL at current time, Copy embed code, Copy debug info, Troubleshoot playback issue, and Stats for nerds. A red arrow points from the 'Copy video URL' option to the 'New Channel' form.

New Channel

Channel at : Channel Name :

Media Source :

Icon Path :

Category : Type :