

Ezhometech Multicast Tutorial

For Local Network with Encryption Streams

Revision: 09/15/2023



Content

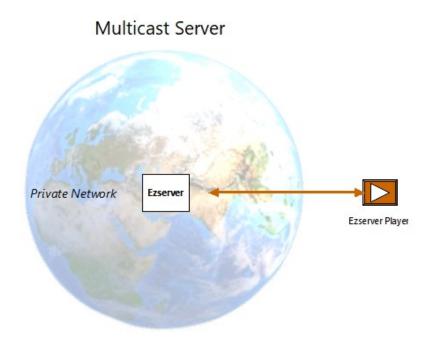
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1 Overview of Ezhometech Multicast

Ezhometech Multicast solution lets **Ezserver Enterprise** support Ezserver Mcast players to play channels from Ezserver via UDP encryption protocol.

- 1. Ezserver Enterprise: Act Multicast video server
- 2. Ezserver Mcast Players: Multicast encryption player.



1.1 Related Information

Ezserver Forum:

https://ezserver.createaforum.com/

Ezserver User Guide website:

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



2 Ezserver Enterprise

Ezserver Enterprise includes IPTV panel, and Multicast 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(Recommeded), Debian, Centos
- Windows: 64-bits



3 Ezserver Panel Setting

Multicast Setting:

Set Multicast output IP and Port



Add users:

Add annie user with max connection value 1.



Encryption Setting:

- Defined at hls_multicast_aes of ezserver_config.txt
 - hls_multicast_aes=0 (No encryption)
 - hls_multicast_aes=1 (low encryption)
 - hls_multicast_aes =2 (high encryption)



4 Ezserver Multicast Player

Ezserver Multicast Player is a **multicast encryption player** for local network users that plays channels, movies and series from Ezserver.

Features:

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

Hardware Regirement:

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

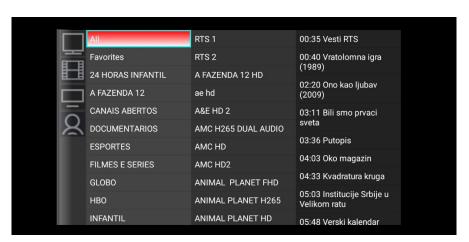
Software Regirement:

Android 5.0+

Server IP and Port Setting:



Player Home:

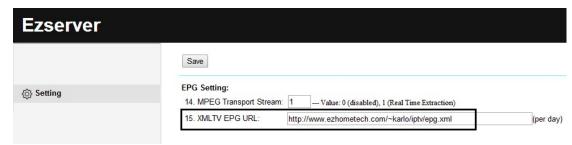




5 EPG and Catup up TV

Panel Setting:

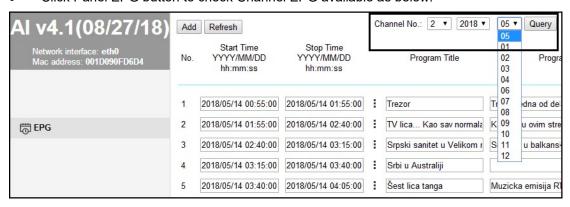
Source from XMLTV: Input XMLTV http link in item#15



- Note: XMLTV More information in TvProfil XMLTV service: http://tvprofil.net/xmltv/
- Source from Embedded MPEG TS stream: set "1" in item#14



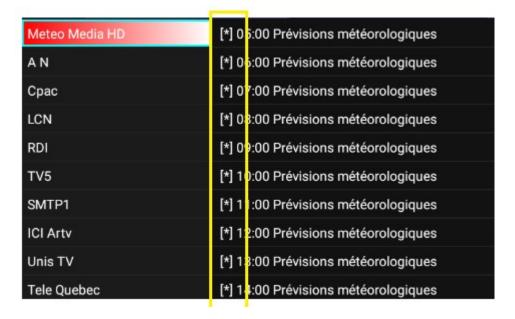
• Click Panel EPG button to check Channel EPG available as below:





Player Setting

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

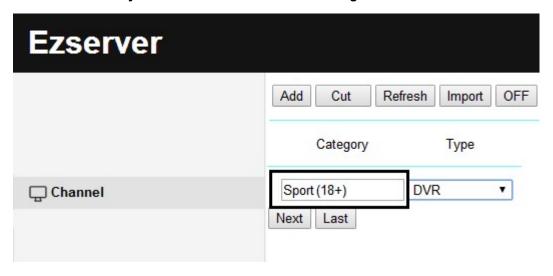




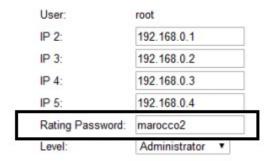
6 Parent Control

Panel Setting:

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



Input rating password in user more profile as below:



Player Side

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



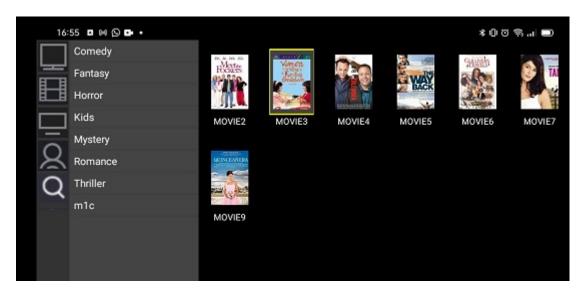
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7 Movies and Series

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:

