

Ezserver Player

For Android Devices

Revision: 10/17/2024



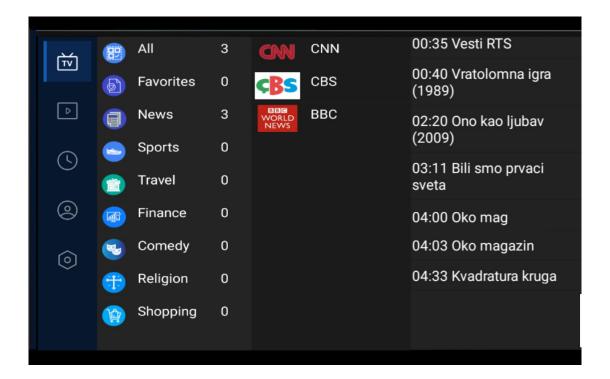
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1 Overview

Ezserver Player is an Android native player that plays channels, movies and series from Ezserver with user authentication.



1.1 Related Information

Ezserver Documents:

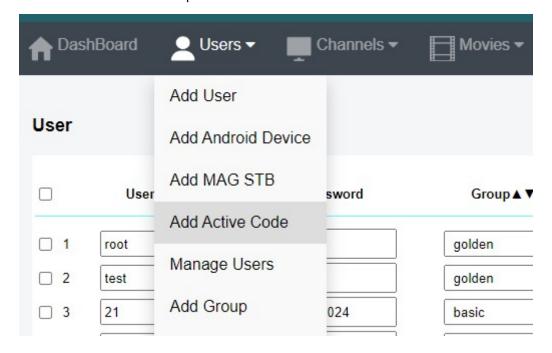
http://www.ezhometech.com/document/Ezserver v5 Tutorial.pdf https://www.ezhometech.com/document/Ezserver v6 Tutorial.pdf https://www.ezhometech.com/html/ezserver user guide.html

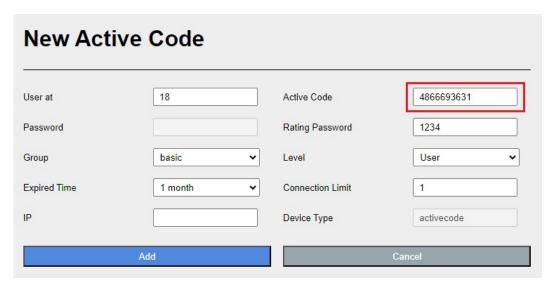


2 Panel User Management

There are 2 options for player activation.

Click "Add Active Code" and Input Device Serial number

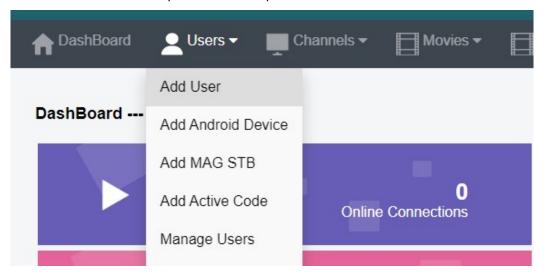




- ♦ Active Code is auto generated by system random generator.
- ♦ Each active code is limited by one device.



• Click "Add User" and Input User name / password

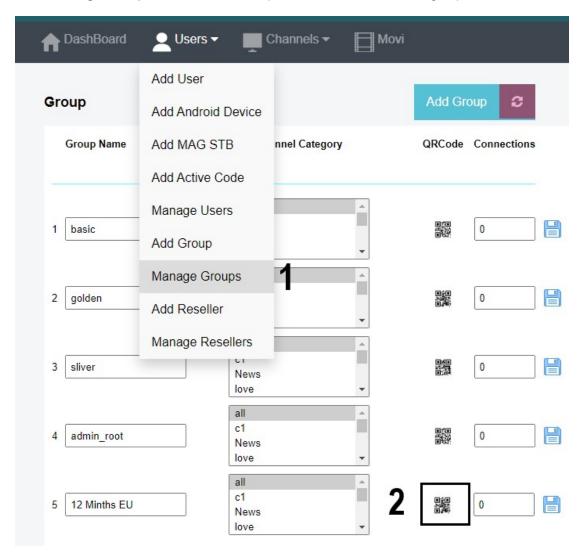






3 Billing QR Code for Service Package

Click "Manage Group" and Click one Group QRCode for QRCode image upload



Upload Package QRCode





4 Ezserver Player

It is a streaming player on android mobile / TV / STB devices. That plays channels, movies and series from Ezserver for Internet users.

Features:

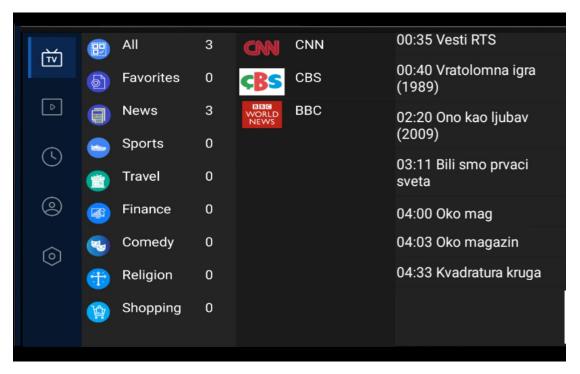
- TV, Movie and Series
- Support YouTube Channel Links
- EPG and Catch up TV
- Support Multicast AES Encrypted Channels
- Support OTT AES Encrypted Channels
- Parent Control of adult content
- Support TMBD for Movie and Series
- Channel Video Format: MPEG2/H264 Transport Stream
- Channel Audio Format: 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+



Categories Channels EPG



4.1 Player Setting

Content Refresh:

Download new content from Ezserver.

Auto Start:

• ON: **automatically** starts App after android starts within 30 seconds.

Channel Player:

Switch video player by VLC and Exo Player.

Movie Player:

• Switch video player by VLC and Exo Player.

Domain Name:

Ezserver Domain name or IP

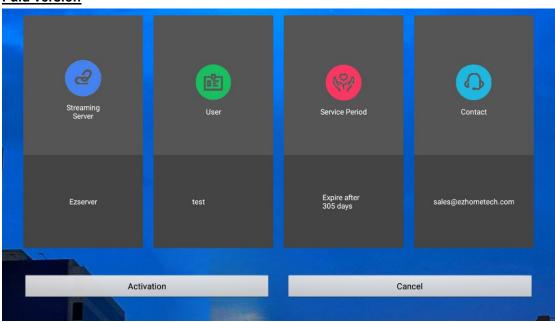




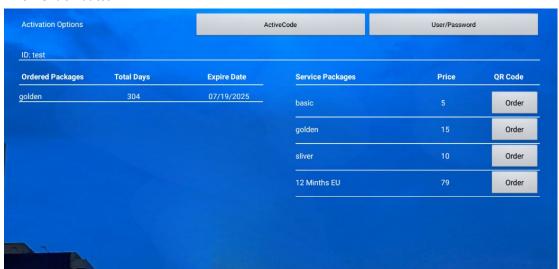
4.2 User Setting

Click Activation Button

Paid version

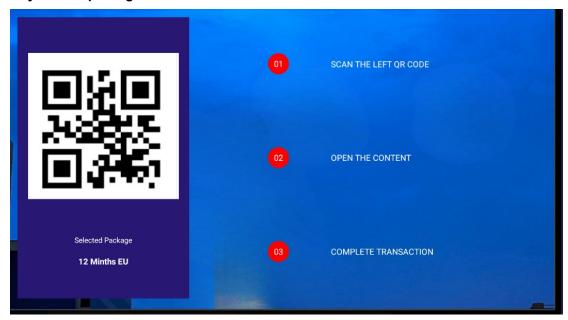


Click Order button





Buy service package via QRCode



Free version

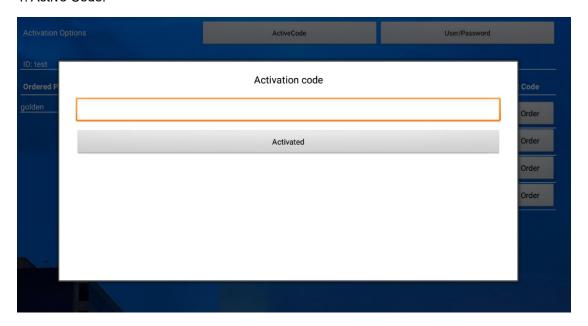




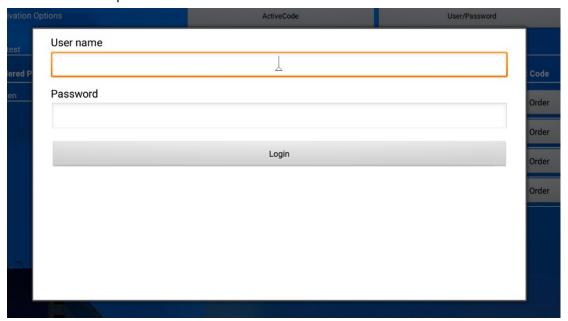
4.3 User Activation

There are 2 options for player activation.

1. Active Code:



2. User name and password

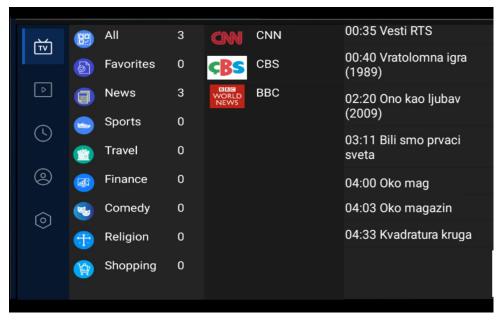




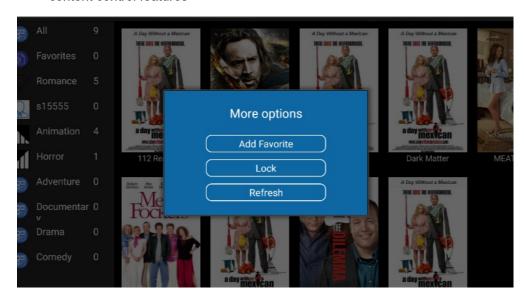
5 Channels

Movies:

Select in main menu to get all channels with epg as below:

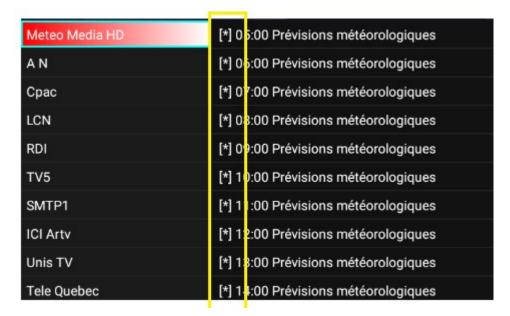


- Click the first column (category) to show its channels
- Click the 2nd column (channel) to show its EPG
- Double click the 2nd column (channel) to play the channel
- Hold the OK button or press Touch to open the More options dialog for Favorite and content control features





 Click the 3nd column [EPG with *] optiion of one program name is for Catch up TV that was recorded by its EPG time





6 Movies

Movies:

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



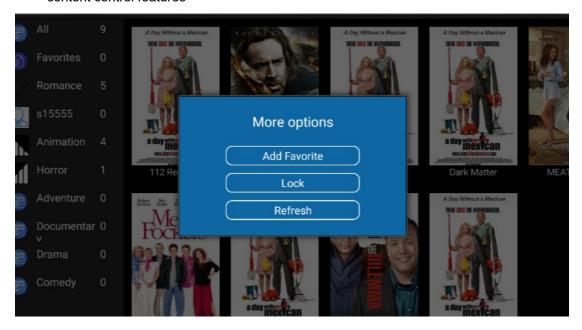
Movie TMDB information





Content Control

 Hold the OK button or press Touch to open the More options dialog for Favorite and content control features







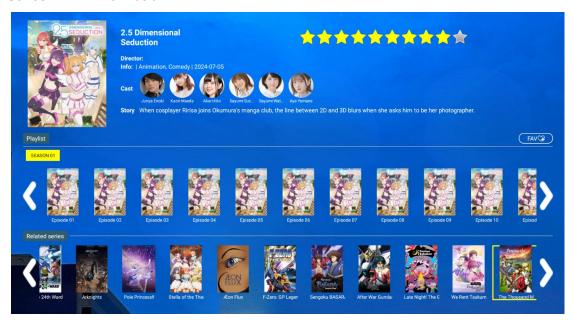
6 Series

Series:

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



Series TMDB information

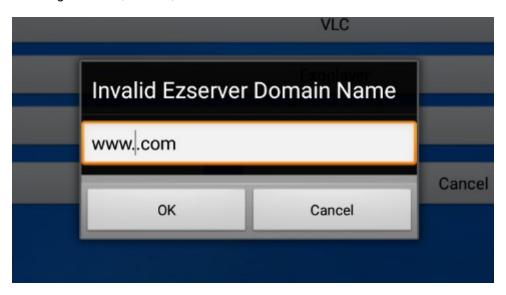




8 Initial setting

8.1 Player Initial setting

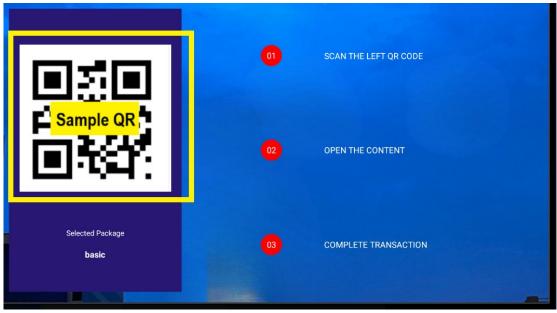
Initially, when opening the Ezserver Player, the user will be prompted to input the domain name of the available service to access content. This domain would point to the Ezserver service hosting channels, movies, and series



8.2 Ezserver Initial setting

8.2.1 QRCode setting:

If shows below default image in player, Administrator needs to refer Section 4: Billing QR Code for Service Package

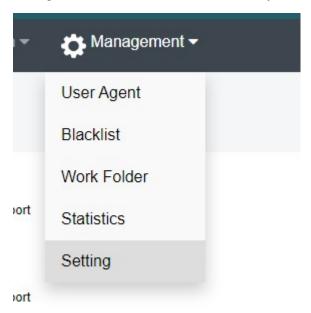


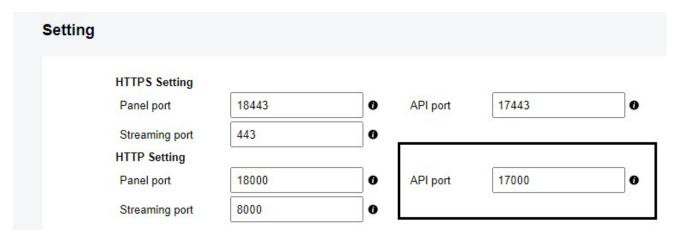
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8.2.2 API Port setting:

Login Panel and Click Setting menu. Set API Port to 17000 for Player connection.







9 IPTV Mutlicast Encryption

9.1 Server setting

Set Multicast output IP and Port



Login ssh console and use tcpdump to check udp streams

```
root@u20:~# tcpdump -i enp0s25 | grep 224.1.1.1

04:43:57.581563 IP u20.55797 > 224.1.1.1.9000: UDP, length 1316
04:43:57.661703 IP u20.55797 > 224.1.1.1.9000: UDP, length 1316
04:43:57.661734 IP u20.55797 > 224.1.1.1.9000: UDP, length 1316
04:43:57.661762 IP u20.55797 > 224.1.1.1.9000: UDP, length 1316
04:43:57.661790 IP u20.55797 > 224.1.1.1.9000: UDP, length 1316
04:43:57.661817 IP u20.55797 > 224.1.1.1.9000: UDP, length 1316
04:43:57.661844 IP u20.55797 > 224.1.1.1.9000: UDP, length 1316
04:43:57.661871 IP u20.55797 > 224.1.1.1.9000: UDP, length 1316
04:43:57.742015 IP u20.55797 > 224.1.1.1.9000: UDP, length 1316
04:43:57.742047 IP u20.55797 > 224.1.1.1.9000: UDP, length 1316
04:43:57.742047 IP u20.55797 > 224.1.1.1.9000: UDP, length 1316
04:43:57.742102 IP u20.55797 > 224.1.1.1.9000: UDP, length 1316
04:43:57.742102 IP u20.55797 > 224.1.1.1.9000: UDP, length 1316
04:43:57.742130 IP u20.55797 > 224.1.1.1.9000: UDP, length 1316
04:43:57.742157 IP u20.55797 > 224.1.1.1.9000: UDP, length 1316
```

9.2 Encrption 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)
 - restart ezserer

9.3 Encrption Key

- add AES.key into /home/ezserver_enterprise/ folder
 - any 16-byte key inside



10 OTT Unicast Encryption

10.1 Panel setting

• Enable AES Encrption

