



# **Multicast Player SDK**

**Integrate mcast encryption codes into Android app**

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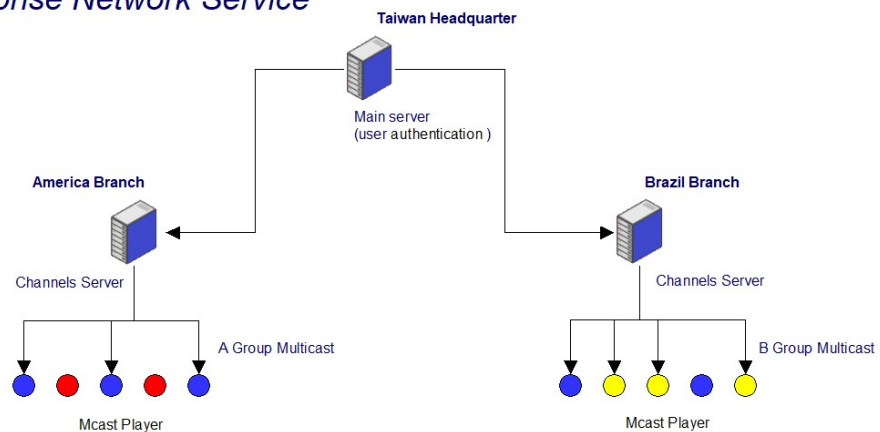
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# 1 Overview of Multicast SDK

Multicast SDK lets your app includes Multicast Encryption codes to play channels from Ezserver v5.2 via UDP encryption protocol.

## *Enterprise Network Service*



## 1.1 Related Information

Ezserver Server API website

[http://www.ezhometech.com/html/server\\_api.html](http://www.ezhometech.com/html/server_api.html)

Ezserver Client API website:

[http://www.ezhometech.com/html/client\\_api.html](http://www.ezhometech.com/html/client_api.html)

Ezserver User Guide website:

[http://www.ezhometech.com/html/ezserver\\_user\\_guide.html](http://www.ezhometech.com/html/ezserver_user_guide.html)

Ezserver Multicast Player:

[http://www.ezhometech.com/multicast\\_player.htm](http://www.ezhometech.com/multicast_player.htm)

## **2 Requirement**

Software :

Items	Version
Ezserver	5.2
Google Android	Above 5.x

Hardware :

Items	Specification
Processor	Above 1.0GHz
Memory	At least 1GB for 200 channels
Network Interface	802.11 a/b/g/n
Disk Space	248K bytes

## **3 Specification**

- **Save Server Bandwidth**
- **Encryption Channel**

### **3 Multicast Java codes integration**

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Login.java:

Variable:

- **g\_bEncryptedMulticast** : AES Type
  - ✧ **Security Level: 0** (No)
  - ✧ **Security Level: 1** (low)
  - ✧ **Security Level: 2** (high)
  - ✧ Defined at **hls\_multicast\_aes** of ezserver\_config.txt

Function

- **AsyncTask\_Start\_Multicast** : get udp streams and decrypt them
  - ✧ For Security Level: 1 and 2 use
- **InitializePlayer**: get udp streams from **AsyncTask\_Start\_Multicast**
  - ✧ **Security Level 0**: exoplayer plays udp streams by mulitcast IP and port
  - ✧ **Security Level 1 & 2**: exoplayer plays udp streams by IP: 0.0.0.0 and port: 1234
- **Get\_MULTICAT\_IP\_Port**: get multicast ip and port, AES Type from Ezserver

## 4 Multicast C codes integration

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NDK

C files:

- **g\_ iptv\_parse\_media\_config.cxx**: Decryption core
- **native-lib.cpp**: Decryption API for java code
  - ✧ **g\_szkey**: Decryption Key is from ezserver\_enterprise/AES.key
  - ✧ **AES.key and g\_szkey mut be same**
- **Add the above two C files into your app ndk**