

Alex Liang  
2018年7月3日

# SHOW CHAIN

## ShortVideoProtocol 0.1

### 1. 数据结构:

Access\_Key :

```
{  
  'id' : $USER_ID,  
  'name' : $RES_NAME,  
  'encrypt_key' : $ENCRYPT_KEY,  
  'md5' : $RES_MD5,  
  'transfer_md5' : $RES_TRANS_MD5,  
  'size' : $RES_SIZE,  
  'transfer_size' : $RES_TRANS_SIZE,  
  'length' : $RES_PLAY_LENGTH  
}
```

### 2. 文件加密传输编码:

源文件 —> 提取md5 —> LZ4 —> DES ( encrypt\_key ) —> 提取md5 —> base64

### 3. 发布内容:

Request :

```
{
  'op_code' : 0x201,
  'access_key' : $Access_Key,
  'access_key_md5' : $Access_Key_md5,
  'thumbnail' : $Access_Key,
  'seq' : $CLIENT_PACKET_SEQUENCE,
  'ts' : $CLIENT_TIMESTAMP,
  'sign' : [op_code, access_key_md5, seq, ts] RSA Signature
}
```

Response:

```
{
  'op_code' : 0x202,
  'access_key_md5' : $Access_Key_md5,
  'res_uid' : $GENERATE_UUID,
  'seq' : $CLIENT_PACKET_SEQUENCE,
  'ts' : $CLIENT_TIMESTAMP,
  'sign' : [op_code, access_key_md5, res_uid, seq, ts] RSA Signature
}
```

### 4. 请求内容:

Request :

```
{
  'op_code' : 0x203,
  'target' : $TARGET_ID,
  'id' : $USER_ID,
  'md5' : $RES_MD5,
  'session' : $GENERATE_SESSION_ID,
  'seq' : $CLIENT_PACKET_SEQUENCE,
  'ts' : $CLIENT_TIMESTAMP,
  'sign' : [op_code, target, md5, seq, ts] RSA Signature
}
```

## 5. UDP文件传输协议:

Transfer Data :

```
{  
  'op_code' : 0x204,  
  'id' : $USER_ID,  
  'session' : $REQUEST_SESSION_ID,  
  'num' : $FILE_PACKET_NUM,  
  'data' : $FILE_PACKET,  
  'seq' : $CLIENT_PACKET_SEQUENCE,  
  'ts' : $CLIENT_TIMESTAMP  
}
```

Request Transfer Data :

```
{  
  'op_code' : 0x205,  
  'id' : $USER_ID,  
  'session' : $REQUEST_SESSION_ID,  
  'page' : $FILE_PACKET_PAGE,  
  'map' : $FILE_PACKET_MAP,  
  'seq' : $CLIENT_PACKET_SEQUENCE,  
  'ts' : $CLIENT_TIMESTAMP  
}
```