# IVMS Video web client SDK

## Amendant record

|  |  |  |
| --- | --- | --- |
| Date | Content modification | Person |
| 2018-09-25 | Development of the SDK protocol from the old version of the H5 server to modify the development interface for the latest websocket version   1. Real-time preview and video playback changed to websocket implementation 2. Video search, video download still through http 3. Implement these services directly on the streaming server, reducing the original h5 server intermediate links | 陈发艺 |
| 2019-01-02 | 1. Added http+FLV interface，support realtime monitoring and Playback recordings | 刘军 |
| 2019-04-24 | 1. Added H264 download interface 2. Modify the description of query returned parameters | 刘军 |
| 2019-05-23 | 1．Added Check Code to access Interface | 刘军 |

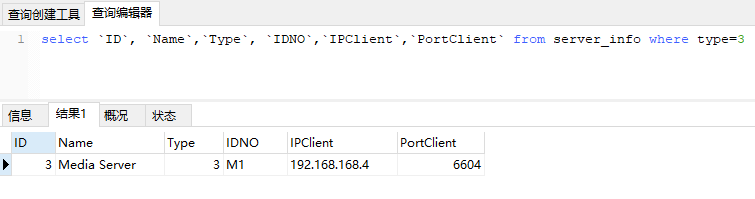
## One . Development preparation

### 1 . How to run

Install the latest version of the IVMS server and ensure that the streaming server is running

### 2 . How to get the IP address and port numbers of the streaming server

In the database, Server\_info tablet type3 records the streaming server IP address



There may be multiple streaming servers that need to be balanced.

### 3 . Related server configuration

In IVMSMediaSvr.ini configuration files, developers could make below settings:

[HTTPService]

WebRootDir=Web

HttpLoginRequired=1

VideoCacheDir=C:\\gIVMSH5Cache

KeepDay=5

Introduction：

|  |  |  |
| --- | --- | --- |
| Paramter | Introduciton | Default |
| WebRootDir | The file root directory of the web service, and the files placed in the directory can be accessed through the http server. | Web |
| HttpLoginRequired | Whether developers need to log in then could provide various servers for h5 video, 1 =need to log in, 0=not need to log in; when log in is needed, all access links need to add uSession parameter, uSession value needs to be consistent with user\_session | 1 |
| VideoCacheDir | At present, cache server will only be available for downloading a full video , partial download and live preview will not be cached. As long as the download is successful, the full recording will be cached. When download the video again, if the cache exists, it will directly give the cache file. | C:\\gIVMSH5Cache |
| KeepDay | The number of days the cache is kept. | 5 |

### 4 . Front End javascript

Need to provide wfs.js on the web server

## Two . Server interface description

Right now there are 5 interfaces related to h5, including 2 websockets, and the rest are http interfaces:

1. . Start and end the live preview interface (websocket)
2. . Video search interface (http get)
3. . Complete video download（avi） (http get)
4. . Partial video download interface（grec） (http get)
5. . Start and end video playback interface (web socket)
6. . FLV real-time preview interface
7. . FLV video playback interface
8. . Flash Real-time preview interface

Websocket interface parameters are passed though json

http interface parameters are passed though URL, and the returned results is though json

Universal response

When it fails, give the result in json

{

“cmd”:

“status” : 1

“message”: “Failed to start real play”,

}

When it succeeds, it returns different data according to different interfaces.

## Three. Web API

### 1 Real-Time Preview(WebSocket)

{

“cmd” : “realPlay”,

“devIDNO” : “10000” ,

“channel” : 0,

“streamType”:0,

“uSession” : “3C2ACCBEC42240888BA2EB9605BB19B5”

“jSession”: “”,

“callBack”:””

}

**Introduction**

|  |  |  |  |
| --- | --- | --- | --- |
| **Parameter** | **Type** | **Value** | **Note** |
| cmd | String | realPlay | Command word (required) |
| devIDNO | String |  | Device number (required) |
| channel | Int | start from 0 | Channel number, 0 means the first channel |
| streamType | Int | 1. . Sub-streaming 2. . Main streaming |  |
| uSession | String |  | User session will required when HttpLoginRequired=1 in IVMSMediaSvr.ini, More details see Section10. |
| jSession | String |  | Cross-domain session parameter |
| callBack | String |  | Cross-domain callback function |

**return value**

json's universal response when it fails

**When successful**

Send video data of websocket directly.

**Stop live preview**

live preview could be stopped by sending the following command or disconnecting the link in an existing websocket link.

{

“cmd” : “stopRealPlay“

}

### 2. Query device recording

[http://server:port//PlaybackSearch.do?DevIDNO={strDeviceIDNO}&Channel={nChannel}&Date={yyyy-mm-dd}&BeginSecond={nBeginSecond}&EndSecond={nEndSecond}&Location={nLocation}&Attribute={nAttribute}](http://server:port//PlaybackSearch.do?DevIDNO=%7bstrDeviceIDNO%7d&Channel=%7bnChannel%7d&Date=%7byyyy-mm-dd%7d&BeginSecond=%7bnBeginSecond%7d&EndSecond=%7bnEndSecond%7d&Location=%7bnLocation%7d&Attribute=%7bnAttribute%7d)&jSession={session}&callback={jsCallback}&uSession={strUserSession}

**Introduction**

|  |  |  |  |
| --- | --- | --- | --- |
| Paramter | type | Value | Note |
| DevIDNO | string | 10010 | Required |
| Channel | Value | Start from 0 | 0 means the first channel |
| Date | string | yyyy-mm-dd | Date, when empty, default as current day |
| BeginSecond | Query start time, converted to seconds | i.e. 09:10:00 => 9 \* 3600 + 10 \* 60 | default 0 |
| EndSecond | Query end time, converted to seconds | 23:59:59 => 86399 | default 86399 |
| Location |  | 1. Device 2. Storage server 3. retain 4. Download server | Query location  Default 1 |
| Attribute |  | 1. Picture 2. Recording | type of data  Default 2 |
| uSession | String |  | User session is required when HttpLoginRequired=1 in IVMSMediaSvr.ini |
| jSession | String |  | Cross-domain session parameter |
| callBack | String |  | Cross-domain callback function |
| AlarmType | Int | -1 all  GPS\_FILE\_TYPE\_ALL  0 normal GPS\_FILE\_TYPE\_NORMAL  1 alarm  GPS\_FILE\_TYPE\_ALARM | Default -1 |

Example:

1. Search files for all channels on the day

<http://127.0.0.1:8088/PlaybackSearch.do?DevIDNO=50092>

1. Search files for one particular channel on the day

<http://127.0.0.1:8088/PlaybackSearch.do?DevIDNO=50092>&Channel=0

1. Search all the video files of the previous day, the current date is 2019-05-27

<http://127.0.0.1:8088/PlaybackSearch.do?DevIDNO=50092>&Date=2019-05-26

**Returned value**

Returned with json data, when failed, result= 1 , success result = 0

**When failed**

{“status” : “1”,”message” : “Device is Offline” }

**When succeed**

{"status" : 0, "message" : "OK", "fileCount" :2 ,”files”: [{file 1},{file 2}]})

Complete example when succeed:

{

"fileCount" : 1,

"files" : [

{

"Attribute" : 2,

"DownloadURL" : "192.168.168.65:6604/RecDownload.do?DevIDNO=1006179&Channel=0&Date=2019-04-22&FileBegin=32748&Begintime=32748&Endtime=33648&AlarmInfo=0&FileName=/sd2/2019-04-22/H20190422-090548PBA1P0.avi&FileLen=18675758&FileOffset=0&FileType=1&Location=1&ServerID=0&Attribute=2",

"DownloadURL\_Part\_Of\_File" : "192.168.168.65:6604/GrecDownload.do?DevIDNO=1006179&Channel=0&Date=2019-04-22&FileBegin=32748&Begintime=32748&Endtime=33648&AlarmInfo=0&FileName=/sd2/2019-04-22/H20190422-090548PBA1P0.avi&FileLen=18675758&FileOffset=0&FileType=1&Location=1&ServerID=0&Attribute=2",

"H264DownloadURL" : "192.168.168.65:6604/H264Download.do?DevIDNO=1006179&Channel=0&Date=2019-04-22&FileBegin=32748&Begintime=32748&Endtime=33648&AlarmInfo=0&FileName=/sd2/2019-04-22/H20190422-090548PBA1P0.avi&FileLen=18675758&FileOffset=0&FileType=1&Location=1&ServerID=0&Attribute=2",

"PlaybackURL" : "192.168.168.65:6604/PlaybackFlv.do?DevIDNO=1006179&Channel=0&Date=2019-04-22&FileBegin=32748&Begintime=32748&Endtime=33648&AlarmInfo=0&FileName=/sd2/2019-04-22/H20190422-090548PBA1P0.avi&FileLen=18675758&FileOffset=0&FileType=1&Location=1&ServerID=0&Attribute=2",

"bRecording" : 0,

"nAlarmInfo" : 0,

"nChannel" : 0,

"nDay" : 22,

"nFileLen" : 18675758,

"nFileOffset" : 0,

"nFileType" : 1,

"nLocation" : 1,

"nMonth" : 4,

"nSvrID" : 0,

"nYear" : 2019,

"szDevIDNO" : "1006179",

"szFile" : "/sd2/2019-04-22/H20190422-090548PBA1P0.avi",

"uiBegintime" : 32748,

"uiEndtime" : 33648

},

],

"message" : "OK",

"status" : 0

}

#### 2.1 Returned parameter description

##### 2.1.1 DownloadURL

Complete video download interface, download the entire video file using this interface

##### 2.1.2 DownloadURL\_Part\_Of\_File

Partial file download interface

##### 2.1.3 H264DownloadURL

Download the h264 stream of the video file. For details, see Section 9 H264 Download.

##### 2.1.4 PlaybackURL

FLV playback address。

**Returned value field description**

|  |  |  |  |
| --- | --- | --- | --- |
| **Parameter** | **type** | **Value** | **Note** |
| bRecording | data | 0 means not recording  1 means that the video is being written | Whether under recording or not |
| nAlarmInfo |  |  | Alarm type, valid only when the file is an alarm type |
| nChannel |  |  | Channel number, 0 means the first channel |
| nYear |  |  |  |
| nMonth |  |  |  |
| nDay |  |  |  |
| uiBegintime |  | The number of seconds since the start of the day | Start time, seconds |
| uiEndtime |  |  | End time, seconds |
| nFileLen |  |  | File bytes |
| nFileOffset |  |  | The offset from the beginning of the file |
| nFileType |  | 0 | #define GPS\_FILE\_TYPE\_NORMAL 0  #define GPS\_FILE\_TYPE\_ALARM 1  #define GPS\_FILE\_TYPE\_ALL  -1 |
| nLocation |  |  | File location |
| nSvrID |  | 0 means on the device  Other means on the specified server. | The server where it is located, if it is searched from the server, indicating inside that server, 0 means corresponding to the device. id and server\_info table |
| szFile |  |  | File name |

Field description

|  |  |  |  |
| --- | --- | --- | --- |
| **Parameter** | **Type** | **Value** | **Note** |
| DevIDNO |  |  | Device number |
| nChannel |  |  | Channel number, 0 means the first channel |
| Date |  | **2019-04-24** | Date |
| FileBegin |  |  | The number of seconds when the file starts recording |
| Begintime |  |  | Start download time, seconds |
| Endtime |  |  | End of download time |
| AlarmInfo |  | **0** | Default 0 |
| FileName |  | /sd2/2019-04-22/H20190422-090548PBA1P0.avi |  |
| nFileOffset |  | **0** | The offset from the beginning of the file |
| nFileType |  | 0 | #define GPS\_FILE\_TYPE\_NORMAL 0  #define GPS\_FILE\_TYPE\_ALARM 1  #define GPS\_FILE\_TYPE\_ALL  -1 |
| nLocation |  |  | File location |
| nSvrID |  | 0 means on the device  Other means on the specified server. | The server where it is located, if it is searched from the server, indicating inside that server, 0 means corresponding to the device. id and server\_info table |
| Attribute |  | File type: picture, video file, log | FILE\_ATTRIBUTE\_IMAGE = 1,  FILE\_ATTRIBUTE\_RECORD = 2,  FILE\_ATTRIBUTE\_LOG = 3 |

### 3 . Complete video download

<http://Server:Port/RecDownload.do?DevIDNO=50092&Channel=0&FileLen=70764008&AlarmInfo=0&FileType=0&Offset=0&Location=1&ServerID=0&Date=2017-07-26&FileBegin=34&Begintime=34&Endtime=2734&FileName=/sd1/2017-07-26/H20170726-000034NBN1P0.avi>

The parameters of the playback interface are taken from the query results. For each parameter, refer to the parameter description of the query structure.

**Returned value**

If the request fails, the return format is json, status= 1, message is the reason

Example

{“status” : “1”,”message” : “Device is Offline” }

If the request is successful, download the video file in AVI format.

### 4 . Partial video download

When segment downloading, Begintime is the start time and EndEndtime is the end time.Example:

File time period：34s-2734s

Download files from 1 minute to 2 minutes in segments

Begintime: 60s

Endtime : 120s

<http://Server:Port/GrecDownload.do?DevIDNO=50092&Channel=0&FileLen=70764008&AlarmInfo=0&FileType=0&Offset=0&Location=1&ServerID=0&Date=2017-07-26&FileBegin=34&Begintime=60&Endtime=120&FileName=/sd1/2017-07-26/H20170726-000034NBN1P0.avi>

The parameters of the playback interface are taken from the query results. For other parameters, refer to the parameter description of the query structure.

**Returned value**

If the request fails, the return format is json, status= 1, message is the reason

Example

{“status” : “1”,”message” : “Device is Offline” }

If the request is successful,then download the video file in gre format

### 5. Play video

{

“cmd” : “playBack”,

“devIDNO” : “10000” ,

“channel” : 0,

“location”:0,

“serverID” :

“fileLen”: “”,

“alarmInfo”:

“date”:”yyyy-mm-dd”,

“fileBegin”:

“beginTime”:

“endTime”:

“fileName”

“iFrameOnly”,

“jt”:0

“uSession” : “3C2ACCBEC42240888BA2EB9605BB19B5”

“jSession”: “”,

“callBack”:””

}

**Parameter Description :**  :

The parameters of the playback interface are taken from the query results. For other parameters, refer to the parameter description of the query structure.

|  |  |  |  |
| --- | --- | --- | --- |
| **Parameter** | **Type** | **Value** | **Note** |
| cmd | String | playBack |  |
| AlarmInfo |  |  | Search for returned alarm information |
| location | Int | 1 Device  2 Storage Server  3 Retain  4 Download server |  |
| serverID |  | 0 means on the device  Other means on the specified server. | The server where it is located, if it is searched from the server, indicating inside that server, 0 means corresponding to the device. id and server\_info table |
| fileLen | UINT |  | File length, byte, value provided by search results |
| alarmInfo | UINT |  | Alarm information, value provided by search results |
| date | String | YYYY-MM-DD | File date, value provided by search results |
| fileBegin | Uint |  | File start time seconds, corresponding to the uiBegintime of the search results |
| beginTime | Uint | The number of seconds since the start of the day  Note that this is the start time of the play. | The time at which playback starts, in seconds, may not be played from the time of the most file (beginTime>=fileBegin) |
| endTime | Uint | Note that this is the end time of playback. | Play end time, seconds |
| fileLen | Uint |  |  |
| fileName |  |  |  |
| iFrameOnly | Int | 1. ：play all frames 2. ：Play only I frames | Play video frame |
| uSession | String |  | User session will required when HttpLoginRequired=1 in IVMSMediaSvr.ini, More details see Section10. |
| jSession | String |  | Cross-domain session parameter |
| callBack | String |  | Cross-domain callback function |

**Returned value**

If the request fails, the return format is json, status= 1, message is the reason

{“status” : “1”,”message” : “Device is Offline” }

If the request is successful, websocket sends the video stream directly

**Stop Recording playback**

Stop live preview could be stopped by sending the following command or disconnecting the link in an existing websocket link.

{

“cmd” : “stopPlayback“

}

### 6. FLV Real time Preview API( need to use flv.js demo)

http://server:port//RealplayFlv.do?DevIDNO={strDeviceIDNO}&Channel={nChannel}&StreamType={streamtype}&uSession={strUserSession}

**Introduction**

|  |  |  |  |
| --- | --- | --- | --- |
| Parameter | Type | Value | Note |
| DevIDNO | string | 10010 | required |
| Channel | value | Start from 0 | 0means the first channel |
| StreamType | string | 0:main streaming  1: sub streaming | default as sub streaming |
| uSession | string |  | User session will required when HttpLoginRequired=1 in IVMSMediaSvr.ini, More details see Section10. |

http://192.168.168.65:6604/RealplayFlv.do?DevIDNO=10000&Channel=0&StreamType=1



**Returned value**

If the request fails, the return format is json, status= 1, message is the reason

Example

{“status” : “1”,”message” : “Device is Offline” }

If the request is successful, http+FLV sends the video stream directly

**Stop Recording playback**

Live preview can be stopped by sending the following command or disconnecting the link in an existing link.

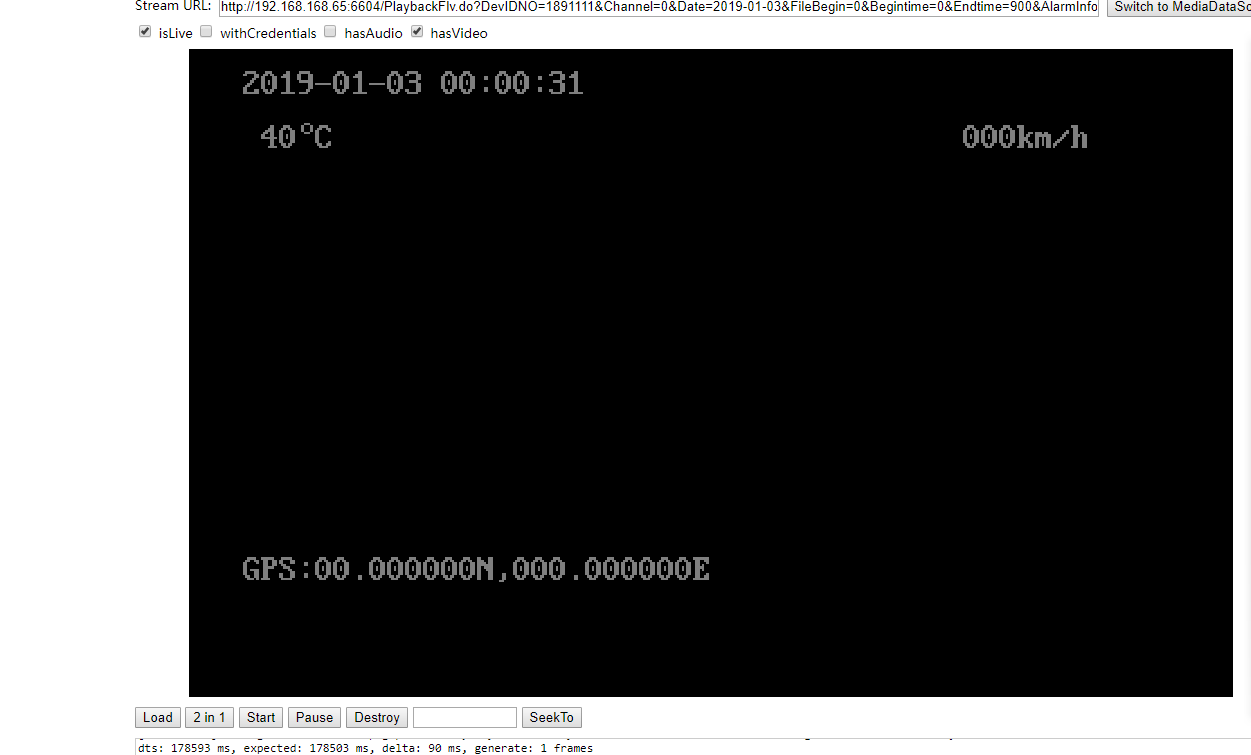
### 7. FLV Video playback API (need to use flv.js demo)

[http://server:port//PlaybackFlv.do?DevIDNO={strDeviceIDNO}&Channel={nChannel}&Date={yyyy-mm-dd}&BeginSecond={nBeginSecond}&EndSecond={nEndSecond}&Location={nLocation}&Attribute={nAttribute}](http://server:port//PlaybackFlv.do?DevIDNO=%7bstrDeviceIDNO%7d&Channel=%7bnChannel%7d&Date=%7byyyy-mm-dd%7d&BeginSecond=%7bnBeginSecond%7d&EndSecond=%7bnEndSecond%7d&Location=%7bnLocation%7d&Attribute=%7bnAttribute%7d)&jSession={session}&callback={jsCallback}&uSession={strUserSession}

**Introduction**

|  |  |  |  |
| --- | --- | --- | --- |
| Parameter | Type | Value | Note |
| DevIDNO | String | 10010 | Required |
| Channel | value | Start from 0 | 0means the first channel |
| Date | string | yyyy-mm-dd | Date, when empty, default as current day |
| BeginSecond | Query start time, converted to seconds | example 09:10:00 => 9 \* 3600 + 10 \* 60 | default 0 |
| EndSecond | Query end time, change to seconds | 23:59:59 => 86399 | default 86399 |
| Location |  | 1. Device 2. Storage Server 3. Retain 4. Download Server | Query location  Default 1 |
| Attribute |  | 1. Picture 2. Recording | Data type  default 2 |
| uSession | String |  | User session will required when HttpLoginRequired=1 in IVMSMediaSvr.ini, |
| jSession | String |  | Cross-domain session parameters (optional) |
| callBack | String |  | Cross-domain callback function (optional) |
| AlarmType | Int | -1 all  GPS\_FILE\_TYPE\_ALL  0 normal GPS\_FILE\_TYPE\_NORMAL  1 alarm  GPS\_FILE\_TYPE\_ALARM | default -1 |
| FileName | String | /sd1/2019-01-03/H20190103-000000PAN1P0.avi | The name of the file to be played back (returned by the PlaybackSearch.do interface) |
| FileLen |  |  | File length (returned by the PlaybackSearch.do interface) |
| FileOffset |  |  | Default as 0 |
| FileType |  |  | Default as 0 |

http://192.168.168.65:6604/PlaybackFlv.do?DevIDNO=1891111&Channel=0&Date=2019-01-03&FileBegin=0&Begintime=0&Endtime=900&AlarmInfo=0&FileName=/sd1/2019-01-03/H20190103-000000PAN1P0.avi&FileLen=16634240&FileOffset=0&FileType=0&Location=1&ServerID=0&Attribute=2



**Returned value**

If the request fails, the return format is json, status= 1, message is the reason

Example

{“status” : “1”,”message” : “Device is Offline” }

If the request is successful, http+FLV sends the video stream directly

**Stop Recording playback**

Live preview can be stopped by sending the following command or disconnecting the link in an existing link.

### 8. Flash Real-Time Preview API (need to use flash demo)

Support flash to watch live video, see flash-demo.zip

### 9. H264 Download

[http://Server:Port/H264Download.do?DevIDNO=50092&Channel=0&FileLen=70764008&AlarmInfo=0&FileType=0&Offset=0&Location=1&ServerID=0&Date=2017-07-26&FileBegin=34&Begintime=34&Endtime=2734&FileName=/sd1/2017-07-26/H20170726-000034NBN1P0.avi](http://Server:Port/H264Download.do?DevIDNO=50092&Channel=0&FileLen=70764008&AlarmInfo=0&FileType=0&Offset=0&Location=1&ServerID=0&Date=2017-07-26&Begintime=34&Endtime=2734&FileName=/sd1/2017-07-26/H20170726-000034NBN1P0.avi)

The parameters of the playback interface are taken from the query results. For other parameters, refer to the parameter description of the query structure.

**Returned value**

If the request fails, the return format is json, status= 1, message is the reason

Example

{“status” : “1”,”message” : “Device is Offline” }

If the request is successful, download the video file in H264 format. The file name is:

XXXXXXXX-190422-090908-091048-20000100.H264

#### 9.1 Download the complete file

When downloading the complete file, directly use the download URL returned by the query interface

[http://Server:Port/H264Download.do?DevIDNO=50092&Channel=0&FileLen=70764008&AlarmInfo=0&FileType=0&Offset=0&Location=1&ServerID=0&Date=2017-07-26&FileBegin=34&Begintime=34&Endtime=2734&FileName=/sd1/2017-07-26/H20170726-000034NBN1P0.avi](http://Server:Port/H264Download.do?DevIDNO=50092&Channel=0&FileLen=70764008&AlarmInfo=0&FileType=0&Offset=0&Location=1&ServerID=0&Date=2017-07-26&Begintime=34&Endtime=2734&FileName=/sd1/2017-07-26/H20170726-000034NBN1P0.avi)

#### 9.2 Segment Download

When segment downloading, Begintime is the start time and EndEndtime is the end time.Example:

File time period：34s-2734s

Download files from 1 minute to 2 minutes in segments

Begintime: 60s

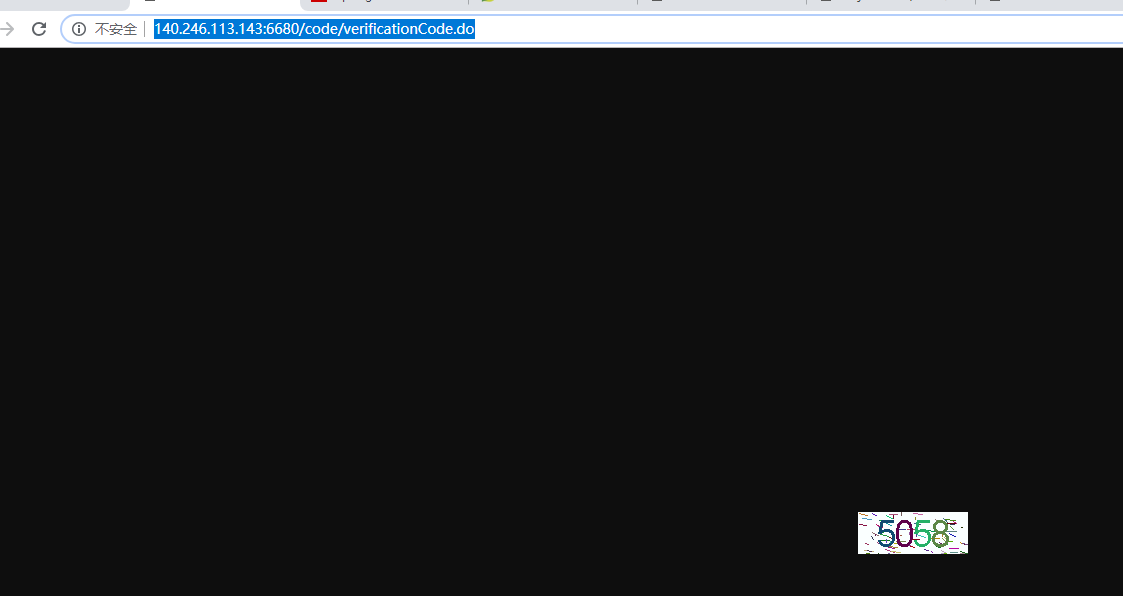
Endtime : 120s

<http://Server:Port/H264Download.do?DevIDNO=50092&Channel=0&FileLen=70764008&AlarmInfo=0&FileType=0&Offset=0&Location=1&ServerID=0&Date=2017-07-26&FileBegin=34&Begintime=60&Endtime=120&FileName=/sd1/2017-07-26/H20170726-000034NBN1P0.avi>

### 10. Get the authentication API

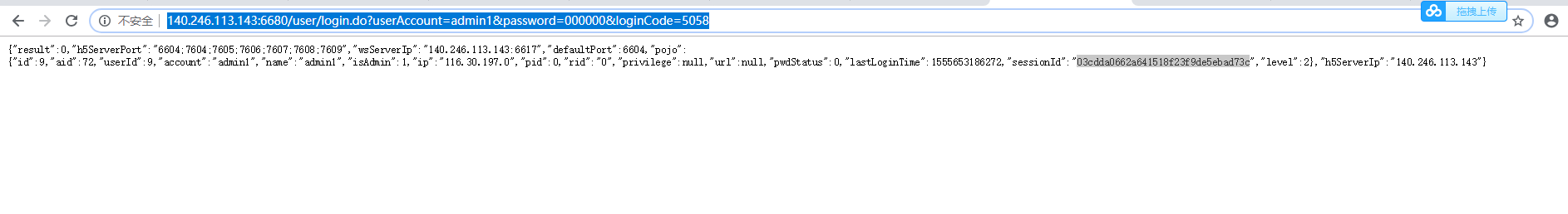
#### 10.1 Call verification code API

[http://140.46.13.43:6680/code/verificationCode.do](http://140.246.113.143:6680/code/verificationCode.do)



#### 10.2 Call login API loginCode is obtained from above

[http://140.46.13.43:6680/user/login.do?userAccount=admin1&password=000000&loginCode=5058](http://140.246.113.143:6680/user/login.do?userAccount=admin1&password=000000&loginCode=5058)



sessionId":"03cdda0662a641518f23f9de5ebad73c

### 11 Playback control

Function description: Support drag and drop function during playback.

http://server:port//PlaybackDrag.do?DevIDNO={strDeviceIDNO}&Channel={nChannel}&CmdSession={strComSession}&PlayBackControl={PlayBackControl}&SpeedControl={SpeedControl}&JumpTime={Time}&uSession={strUserSession}

**Introduction**

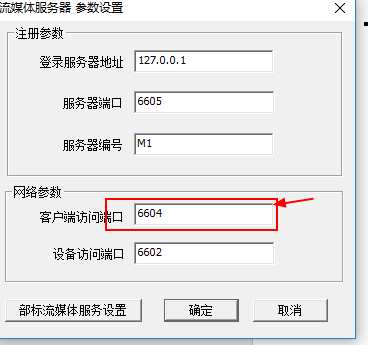
|  |  |  |  |
| --- | --- | --- | --- |
| Parameter | Type | Value | Note |
| DevIDNO | string | 10010 | Required |
| Channel | value | Start from 0 | 0means the first channel |
| CmdSession | string |  | Required, CmdSession is passed by the client when playing back the interface |
| PlayBackControl | int | const int M\_VOD\_CTRL\_IFRAME = 1; //Only play I frame  const int M\_VOD\_CTRL\_OFFSET = 2; //position offset  //1078 proprietary  const int M\_VOD\_CTRL\_PLAY\_FAST = 3; //speed up  const int M\_VOD\_CTRL\_IFRAME\_BACKUP = 4; //I frame fast reverse | Playback control |
| SpeedControl | int | 0 invalid  1 1x  2 2x  3 4x  4 8x  5 16x | speed control,  PlayBackControl is valid when 3 &4,default as 0 |
| JumpTime | Int | Unit: milliseconds, start from 0 | Relative time, such as a file with a duration of [0, 10], starts playing from the middle,this value is 5000  PlayBackControl =2 then will be valid |
| AbleIFrame | Int | [0,1] | Valid when PlayBackContorl = 1,  0: Reply to normal playback  1: Enable I frame playback |
| FileBegin | Int | [0,86399] | Video file start time |
| Endtime | int | [0,86399] | Video file end time |
| uSession | string |  |  |

Note: ivms devices only support PlaybackControl [1,2] mode, China domestic devices support all modes

## Four. Concurrent real-time preview of more than 6 Road Solutions

Because the browser only supports 6-way concurrent, more than six real-time videos need to access other video ports.

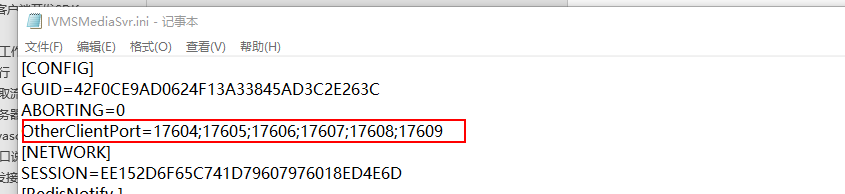
1. Streaming media default port



1. Streaming other video ports

In the server installation directory E:\Program Files (x86)\IVMS Server open IVMSMediaSvr.ini configuration files， Add below configurations on [CONFIG]:

OtherClientPort=17604;17605;17606;17607;17608;17609



OtherClientPort can be configured on demand. After configuration, please map the configured port

1. Check whether other video ports are configured to take effect.

Log in to the database to see if the value of the field PortOtherClient in the table server\_info is the configured value.

