

KDT CGI Protocol

**Version 5.1
2019-07**

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Version Specification

Compared with last version 1.0 , there are two commands modified:

Command	Version 1.0	Version 1.1
Encoding Setting	stream, use streamID element	main stream ,sub stream, third stream
Motion Detection	region	region include rownum and colnum

ONE. General Description

1. HTTP Method

This protocol is based on http, only supports one method—POST so far:
Method POST : Be used for getting and modifying the device's parameters.

2. Format of url

http://192.168.9.60/tdkcgi

3. Format of xml

The format is as follows:

Request format

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
<header>
<security>usnametoken</security>
<username>admin</username>
<password>HnJb+pOIZ9w38CBftWSXPQ==</password>
<nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <command></command>
    <content></content>
  </body>
</envelope>
```

security:only support usnametoken

username:input username,for example,admin.

nc: random string does not exceed 64 characters

password: The calculation method is as follows;

user = the value of username node

nonce = the value of nc node

key= [user:nonce]_{hash256}

password = { [plaintext password]_{AES256(key)} }_{base64}

command:input command,for example,get.system.general.

content:generally input parameters.

Response format

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<envelope>
```

```
<body>
```

```
<error></error>
```

```
<content></content>
```

```
</body>
```

```
</envelope>
```

error:must be 0,otherwise the value means incorrect.

content:return detail.

TWO. Detailed Setting

1.System Setting

1.1.System info

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<envelope>
```

```
<header>
```

```
<security>username</security>
<username>admin</username>
<password>HnJb+pOlZ9w38CBftWSXPQ==</password>
<nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
</header>
<body>
  <command>get.system.info</command>
  <content>
  </content>
</body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content>
      <system>
        <info>
          <mac>00:04:75:00:ff:1a</mac>
          <channels>1</channels>
          <audioport>1:1</audioport>
          <alarmport>1:1</alarmport>
          <version>V500.R003.F006.11.C00.B001</version>
          <releasedate>2017-06-06 14:30:14</releasedate>
        </info>
      </system>
    </content>
  </body>
</envelope>
```

Field Meaning

mac: MAC address

channels: number of channels

audioport: number of audio ports for input : number of audio ports for output

alarmport: number of alarm port for input : number of alarm port for output

version: version of IPC

releasedate: release date of the version

1.2.Upgrade status

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="utf-8"?>
<envelope>
  <header>
    <security>usertoken</security>
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <command>get.system.upgradestatus</command>
    <content/>
  </body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
```

```
<body>
  <error>0</error>
  <content>
    <upgradestatus>3</upgradestatus>
  </content>
</body>
</envelope>
```

Field Meaning

upgradestatus:the status of upgradestatus, 1,2,3,4,5,6,7 respectively means querying,downloading,network anomaly,new version,latest version,other errors,downloaded.

1.2.General setting (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <header>
    <security>username</security>
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <command>get.system.general</command>
    <content>
    </content>
  </body>
```

</envelope>

Response

<?xml version="1.0" encoding="UTF-8"?>

<envelope>

<body>

<error>0</error>

<content>

<system>

<general>

<language>

<value>russian</value>

<supported>english,italian,russian,portuguese,turkish,polish,farsi</supported>

</language>

<autosynctime>true</autosynctime>

<timezone>gmt+08:00</timezone>

<datetime>2017-6-6t15:9:30z</datetime>

<datesplit>

<value>-</value>

<supported>.,-,</supported>

</datesplit>

<dateformat>

<value>yyyymmdd</value>

<supported>yyyymmdd,mmddyyyy,ddmmyyyy</supported>

</dateformat>

<timeformat>

<value>24hour</value>

<supported>24hour,12hour</supported>

</timeformat>

<dstset>

<enable>>false</enable>

<type>

```
        <value>week</value>
        <supported>date,week</supported>
    </type>
    <start>
        <year>2009</year>
        <month>3</month>
        <day>0</day>
        <week>-1</week>
        <hour>1</hour>
        <minute>0</minute>
    </start>
    <end>
        <year>2009</year>
        <month>10</month>
        <day>0</day>
        <week>-1</week>
        <hour>1</hour>
        <minute>0</minute>
    </end>
</dstset>
<onstoragefull>overwrite</onstoragefull>
<deviceid>8</deviceid>
<videostandard>
    <value>ntsc</value>
    <supported>pal,ntsc</supported>
</videostandard>
<hostname>IPCAM</hostname>
<ability>
    <support_hostname>1</support_hostname>
</ability>
</general>
</system>
```

```
</content>
</body>
</envelope>
```

Field Meaning

language: language setting

value: current selected language

supported: supported language

autosynctime: 'true' means auto synchronizing time with PC when login, 'false' means no synchronizing

timezone: using gmt+08:00 style, such as gmt+10:00gmt-10:00

datetime: system time, using standard format

datesplit:separator of date

value: current selected separator

supported: supported separators

dateformat: format of date

value: current selected format

supported: supported format

timeformat: format of time

value: current selected format

supported: supported format

dstset: daylight saving time (DST)

enable:'true' means enabling daylight saving, 'false' means disabling

type: DST method

value: current selected method

supported: supported method

start: start time of DST

year:undefined when 'type=week', otherwise means year of the DST time

month: month of the DST time

day: means day in a week when 'type=week', '0' represents Sunday, '1' represents Monday, otherwise means date in a month

week: undefined when 'type=date', otherwise, '1' represents the first week of a month, '2' represents the second week of a month and so on, and '-1' represents the last week of a month

hour: hour of DST time
minute: minute of DST time
end: end time of DST
videostandard: video standard
value: current video standard
supported: supported video standard
hostname: hostname of IPC
ability: current setting ability
support_hostname: '1' means displaying hostname, '0' means no displaying hostname.

1.3.General setting (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <header>
    <security>usnametoken</security>
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <command>set.system.general</command>
    <content>
      <system>
        <general>
          <language>
```



```
<value>russian</value>
</language>
<autosynctime>true</autosynctime>
<timezone>gmt+08:00</timezone>
<datetime>2017-6-6t15:9:30z</datetime>
<datesplit>
  <value>-</value>
</datesplit>
<dateformat>
  <value>yyyymmdd</value>
</dateformat>
<timeformat>
  <value>24hour</value>
</timeformat>
<dstset>
  <enable>>false</enable>
  <type>
    <value>week</value>
  </type>
  <start>
    <year>2009</year>
    <month>3</month>
    <day>0</day>
    <week>-1</week>
    <hour>1</hour>
    <minute>0</minute>
  </start>
  <end>
    <year>2009</year>
    <month>10</month>
    <day>0</day>
    <week>-1</week>
```

```
        <hour>1</hour>
        <minute>0</minute>
    </end>
</dstset>
<videostandard>
    <value>ntsc</value>
</videostandard>
<hostname>IPCAM</hostname>
</general>
</system>
</content>
</body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
    <body>
        <error>0</error>
        <content>(null)</content>
    </body>
</envelope>
```

Field Meaning

See 1.3. General Setting (Get)

1.4.Group info (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="utf-8"?>
<envelope>
  <header>
    <security>usnametoken</security>
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <command>get.group.info</command>
    <content/>
  </body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content>
      <groupinfo>
        <grouplist>
          <group>
            <groupid>1</groupid>
            <groupname>admin</groupname>
            <groupmemo>administrator group</groupmemo>
            <authoritylist>
              <authority>
                <authorityid>1</authorityid>
                <authorityname>CtrlPanel</authorityname>
                <enable>true</enable>
```

```

                </authority>
            ...
        </authoritylist>
    </group>
    ...
</grouplist>
</groupinfo>
</content>
</body>
</envelope>

```

Field Meaning

groupinfo: info of group

grouplist: one list containing all groups

group: one group

groupid: group ID

groupname: name of the group

groupmemo: memo of the group

authoritylist: one list containing all authorities

authority: one authority

authorityid: authority ID

authorityname: name of the authority

enable: 'true' means enable, 'false' means not

1.5.User info (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="utf-8"?>
```

```
<envelope>
  <header>
    <security>usnametoken</security>
    <username>admin</username>
    <password>HnJb+pOlZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <command>get.user.info</command>
    <content/>
  </body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content>
      <userinfo>
        <userlist>
          <user>
            <username>admin</username>
            <usermemo>admin 's account</usermemo>
            <reuseable>true</reuseable>
            <groupname>admin</groupname>
            <authoritylist>
              <authority>
                <authorityid>1</authorityid>
                <authorityname>CtrlPanel</authorityname>
                <enable>true</enable>
              </authority>
            </authoritylist>
          </user>
        </userlist>
      </userinfo>
    </content>
  </body>
</envelope>
```

```
...
    </authoritylist>
  </user>
  ...
</userlist>
</userinfo>
</content>
</body>
</envelope>
```

Field Meaning

userinfo: info of user

userlist: one list containing all users

user: one user

username: name of the user

usermemo: memo of the user

reuseable: 'true' is reuseable, 'false' is not

groupname: name of the group which the user belongs to

authoritylist: one list containing all authorities

authority: one authority

authorityid: authority ID

authorityname: name of the authority

enable: 'true' means enable, 'false' means not

1.6.Authority info (Get)

Command

POST <http://192.168.12.91/tdkcgj>

Request

```
<?xml version="1.0" encoding="utf-8"?>
```

```
<envelope>
  <header>
    <security>usnametoken</security>
    <username>admin</username>
    <password>HnJb+pOlZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <command>get.authority.info</command>
    <content/>
  </body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content>
      <authorityinfo>
        <count>24</count>
        <authoritylist>
          <authority>
            <authorityid>1</authorityid>
            <authorityname>CtrlPanel</authorityname>
          </authority>
          ...
        </authoritylist>
      </authorityinfo>
    </content>
  </body>
</envelope>
```

Field Meaning

authorityinfo: info of authority

count: number of authority

authoritylist: one list containing all authorities

authority: one authority

authorityid: authority ID

authorityname: name of the authority

1.7.User add

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="utf-8"?>
```

```
<envelope>
```

```
  <header>
```

```
    <security>usertoken</security>
```

```
    <username>admin</username>
```

```
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
```

```
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
```

```
  </header>
```

```
  <body>
```

```
    <command>set.user.add</command>
```

```
    <content>
```

```
      <user>
```

```
        <username>test</username>
```

```
        <usermemo>used for test</usermemo>
```

```
        <reuseable>>false</reuseable>
```



```
<nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
<password> HnJb+pOlZ9w38CBftWSXPQ==</password>
<groupname>admin</groupname>
<authoritylist>
  <authority>
    <authorityname>CtrlPanel</authorityname>
    <enable>true</enable>
  </authority>
  ...
</authoritylist>
</user>
</content>
</body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content>(null)</content>
  </body>
</envelope>
```

Field Meaning

user: one user

username: name of the user

usermemo: memo of the user

nc: random string does not exceed 64 characters

password: password of current user

reuseable: 'true' is reuseable, 'false' is not

groupname: name of the group which the user belongs to

authoritylist: one list containing all authorities
authority: one authority
authorityid: authority ID
authorityname: name of the authority
enable: 'true' means enable, 'false' means not

1.8.User delete

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="utf-8"?>
<envelope>
  <header>
    <security>usnametoken</security>
    <username>admin</username>
    <password>HnJb+pOlZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <command>set.user.delete</command>
    <content>
      <user>
        <username>test</username>
      </user>
    </content>
  </body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content>(null)</content>
  </body>
</envelope>
```

Field Meaning

user: one user

username: name of the user

1.9.user modify

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="utf-8"?>
<envelope>
  <header>
    <security>usernetoken</security>
    <username>admin</username>
    <password>HnJb+pOlZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <command>set.user.modify</command>
    <content>
      <user>
```

```

        <newusername>test</newusername>
        <usermemo>used for test</usermemo>
        <reuseable>true</reuseable>
        <groupname>admin</groupname>
        <username>test</username>
        <authoritylist>
            <authority>
                <authorityname>CtrlPanel</authorityname>
                <enable>true</enable>
            </authority>
            ...
        </authoritylist>
    </user>
</content>
</body>
</envelope>

```

Response

```

<?xml version="1.0" encoding="UTF-8"?>
<envelope>
    <body>
        <error>0</error>
        <content>(null)</content>
    </body>
</envelope>

```

Field Meaning

user: one user

newusername: new name of the user

username: original name of the user

usermemo: memo of the user

reuseable: 'true' is reuseable, 'false' is not

groupname: name of the group which the user belongs to
authoritylist: one list containing all authorities
authority: one authority
authorityid: authority ID
authorityname: name of the authority
enable: 'true' means enable, 'false' means not

1.10.Password modify

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="utf-8"?>
<envelope>
  <header>
    <security>usnametoken</security>
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <command>set.user.modify.password</command>
    <content>
      <user>
        <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
        <password> HnJb+pOIZ9w38CBftWSXPQ==</password>
        <newpassword> HnJb+pOIZ9w38CBftWSXPQ==</newpassword>
      </user>
    </content>
  </body>
```

</envelope>

Response

<?xml version="1.0" encoding="UTF-8"?>

<envelope>

 <body>

 <error>0</error>

 <content>(null)</content>

 </body>

</envelope>

Field Meaning

user: one user

username: name of the user nc:

random string does not exceed 64 characters

password: the original password

newpassword: the new password

1.11.Group add

Command

POST <http://192.168.12.91/tdkcgi>

Request

<?xml version="1.0" encoding="utf-8"?>

<envelope>

 <header>

 <security>usnametoken</security>

 <username>admin</username>

 <password>HnJb+pOIZ9w38CBftWSXPQ==</password>

 <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>

```
</header>
<body>
  <command>set.group.add</command>
  <content>
    <group>
      <groupname>testgp</groupname>
      <groupmemo>used for test</groupmemo>
      <authoritylist>
        <authority>
          <authorityname>CtrlPanel</authorityname>
          <enable>true</enable>
        </authority>
        ...
      </authoritylist>
    </group>
  </content>
</body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content>(null)</content>
  </body>
</envelope>
```

Field Meaning

group: one group

groupname: name of the group

groupmemo: memo of the group

authoritylist: one list containing all authorities
authority: one authority
authorityname: name of the authority
enable: 'true' means enable, 'false' means not

1.12. Group delete

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="utf-8"?>
<envelope>
  <header>
    <security>usnametoken</security>
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <command>set.group.delete</command>
    <content>
      <group>
        <groupname>testgp</groupname>
      </group>
    </content>
  </body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
```



```
<envelope>
  <body>
    <error>0</error>
    <content>(null)</content>
  </body>
</envelope>
```

Field Meaning

group: one group

groupname: name of the group

1.13. Group modify

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="utf-8"?>
<envelope>
  <header>
    <security>usernetoken</security>
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <command>set.group.modify</command>
    <content>
      <group>
        <groupname>testgp</groupname>
        <groupmemo>used for test</groupmemo>
```

```
        <authoritylist>
          <authority>
            <authorityname>CtrlPanel</authorityname>
            <enable>>false</enable>
          </authority>
          ...
        </authoritylist>
      </group>
    </content>
  </body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content>(null)</content>
  </body>
</envelope>
```

Field Meaning

group: one group
groupname: name of the group
groupmemo: memo of the group
authoritylist: one list containing all authorities
authority: one authority
authorityname: name of the authority
enable: 'true' means enable, 'false' means not

1.14. System Reboot

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="utf-8"?>
<envelope>
  <header>
    <security>usnametoken</security>
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <command>set.system.reboot</command>
    <content>
    </content>
  </body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content>(null)</content>
  </body>
</envelope>
```

1.15. OEM info

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="utf-8"?>
<envelope>
  <header>
    <security>usnametoken</security>
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <command>get.customer.oem</command>
    <content/>
  </body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content>
      <oem>
        <data>C1202</data>
      </oem>
    </content>
```

2. Network Setting

2.1. Network base (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<envelope>
```

```
  <header>
```

```
    <security>usnametoken</security>
```

```
    <username>admin</username>
```

```
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
```

```
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
```

```
  </header>
```

```
  <body>
```

```
    <Command>get.network.base</Command>
```

```
    <content>
```

```
  </content>
```

```
</body>
```

```
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<envelope>
  <body>
    <error>0</error>
    <content>
      <network>
        <base>
          <lanlist>
            <lan>
              <name>eth0</name>
              <nctype>
                <value>Auto Negotiation</value>
                <supported>10M Half duplex,10M Full duplex,100M Half duplex,100M Full duplex,Auto Negotiation</supported>
              </nctype>
              <dhcp>>false</dhcp>
              <ipaddress>192.168.12.96</ipaddress>
              <mac>00:04:75:00:ff:16</mac>
              <subnetmask>255.255.255.0</subnetmask>
              <gateway>192.168.12.1</gateway>
            </lan>
          </lanlist>
          <dns>192.168.1.1</dns>
          <secondarydns>8.8.8.8</secondarydns>
          <hsdownload>>true</hsdownload>
          <transfermode>>false</transfermode>
          <transferpolicy>
            <value>fluency</value>
            <supported>quality,fluency,adaptive</supported>
          </transferpolicy>
          <maxusers>40</maxusers>
          <mediaport>34567</mediaport>
          <httpport>80</httpport>
          <handsetport>5801</handsetport>
        </base>
      </network>
    </content>
  </body>
</envelope>
```

```

<rtspport>554</rtspport>
<rtspurl>rtsp://[IP]:[PORT]/mode=real&idc=[*]&ids=[*]</rtspurl>
<ability>
  <support_multi_eth>0</support_multi_eth>
  <support_innerip>0</support_innerip>
  <support_dhcp>1</support_dhcp>
  <valid>1</valid>
</ability>
</base>
</network>
</content>
</body>
</envelope>

```

Field Meaning

lanlist: list of total lan.

lan: current lan.

name: name of current lan.

nctype: operate mode of current lan.

supported: supported operate mode of current lan.

dhcp: "true" means enabling DHCP, "false" means disabling that.

ipaddress: IP address.

mac: MAC address.

subnetmask: subnet mask.

gateway: gateway.

dns: preferred DNS server.

secondarydns: alternate DNS server.

hsdownload: "true" means enabling high speed download, "false" means disabling that.

transfermode: "true" means enabling transfer mode setting, "false" means disabling that.

transferpolicy: transfer mode setting, undefined when "transfermode=false".

value: current selected transfer mode

supported: supported mode

maxusers: max number of online users.
mediaport: media port number.
httpport: HTTP port number.
handsetport: handset port number.
rtspport: RTSP port number
rtspurl: RTSP URL.
ability: ability of current setting.
support_multi_eth: '1' means supporting multi-eths, '0' means not.
support_innerip: '1' means supporting innerip, '0' means not.
support_dhcp: '1' means supporting dhcp, '0' means not.

2.2. Network base (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <header>
    <security>usertoken</security>
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <Command> set.network.base </Command>
    <content>
      <network>
        <base>
```



```
<lanlist>
  <lan>
    <name>eth0</name>
    <nctype>
      <value>Auto Negotiation</value>
      <supported>10M Half duplex,10M Full duplex,100M Half duplex,100M Full duplex,Auto Negotiation</supported>
    </nctype>
    <dhcp>false</dhcp>
    <ipaddress>192.168.12.96</ipaddress>
    <mac>00:04:75:00:ff:16</mac>
    <subnetmask>255.255.255.0</subnetmask>
    <gateway>192.168.12.1</gateway>
  </lan>
</lanlist>
<dns>192.168.1.1</dns>
<secondarydns>8.8.8.8</secondarydns>
<innerip>0.0.0.0</innerip>
<hsdownload>true</hsdownload>
<transfermode>false</transfermode>
<transferpolicy>
  <value>fluency</value>
</transferpolicy>
<maxusers>40</maxusers>
<mediaport>34567</mediaport>
<httpport>80</httpport>
<handsetport>5801</handsetport>
<rtspport>554</rtspport>
</base>
</network>
</content>
</body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content></content>
  </body>
</envelope>
```

Field Meaning

See 5.1.Network base(Get)

2.3.IP conflict test

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <header>
    <security>usnametoken</security>
    <username>admin</username>
    <password>HnJb+pOlZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <Command>set.network.ipconflict.test</Command>
    <content>
      <network>
```

```
        <ipconflict>
          <hostip>192.168.12.97</hostip>
        </ipconflict>
      </network>
    </content>
  </body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content>
      <network>
        <ipconflict>
          <code>1</code>
          <description>ip not conflict</description>
        </ipconflict>
      </network>
    </content>
  </body>
</envelope>
```

Field Meaning

1) Request:

hostip: IP address to be tested

2) Response:

code: code of test result

description: description of test result.

2.4.Email (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<envelope>
```

```
  <header>
```

```
    <security>usnametoken</security>
```

```
    <username>admin</username>
```

```
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
```

```
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
```

```
  </header>
```

```
  <body>
```

```
    <Command> get.network.email </Command>
```

```
    <content>
```

```
  </content>
```

```
</body>
```

```
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<envelope>
```

```
  <body>
```

```
    <error>0</error>
```

```
    <content>
```

```
      <network>
```

```
        <email>
```

```
          <smtpserver> smtp.263.net </smtpserver>
```

```
          <port>25</port>
```

```
<ssl>false</ssl>
<captureinterval>
  <value>2</value>
  <supported>2,3,4,5</supported>
</captureinterval>
<username>abcd@qualivision.cn</username>
<password>1234565</password>
<sender>abcd@qualivision.cn</sender>
<title>ALARM</title>
<receiver1>abcdefg@qualivision.cn</receiver1>
<receiver2>abcdefg11@qualivision.cn</receiver2>
<receiver3></receiver3>
</email>
</network>
</content>
</body>
</envelope>
```

Field Meaning

smtpserver: URL of SMTP server

port: port number of SMTP server

ssl: "true" means sending email with SSL, "false" means sending email without SSL.

captureinterval: time interval of alarm snapshot (sec)

value: current selected interval.

supported: supported interval

username: username of email sender

password: password of email sender

sender: email address of email sender

title: email subject

receiver1: email address of the first receiver

receiver2: email address of the second receiver

receiver3: email address of the third receiver

2.5.Email (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

<?xml version="1.0" encoding="UTF-8"?>

<envelope>

 <header>

 <security>usnametoken</security>

 <username>admin</username>

 <password>HnJb+pOIZ9w38CBftWSXPQ==</password>

 <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>

 </header>

 <body>

 <Command> set.network.email </Command>

 <content>

 <network>

 <email>

 <smtpserver> smtp.263.net </smtpserver>

 <port>25</port>

 <ssl>>false</ssl>

 <captureinterval>

 <value>2</value>

 </captureinterval>

 <username>abcd@qualivision.cn</username>

 <password>1234565</password>

 <sender>abcd@qualivision.cn</sender>

 <title>ALARM</title>

 <receiver1>abcdefg@qualivision.cn</receiver1>

 <receiver2>abcdefg11@qualivision.cn</receiver2>

```
        <receiver3></receiver3>
      </email>
    </network>
  </content>
</body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content></content>
  </body>
</envelope>
```

Field Meaning

See 5.4.Email (Get)

2.6.Email test status (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <header>
    <security>usnametoken</security>
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
```

```
        <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
    </header>
    <body>
        <Command>get.network.email.test.status</Command>
        <content>
        </content>
    </body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
    <body>
        <error>0</error>
        <content>
            <network>
                <emailteststatus>
                    <code>6</code>
                    <description>test ready</description>
                </emailteststatus>
            </network>
        </content>
    </body>
</envelope>
```

Field Meaning

code: code of email test status

description: description of email test status.

2.7.Email test (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

<?xml version="1.0" encoding="UTF-8"?>

<envelope>

 <header>

 <security>usnametoken</security>

 <username>admin</username>

 <password>HnJb+pOIZ9w38CBftWSXPQ==</password>

 <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>

 </header>

 <body>

 <Command> set.network.email.test </Command>

 <content>

 <network>

 < emailtest >

 <smtpserver> smtp.263.net </smtpserver>

 <port>25</port>

 <ssl>>false</ssl>

 <captureinterval>

 <value>2</value>

 </captureinterval>

 <username>abcd@qualivision.cn</username>

 <password>1234565</password>

 <sender>abcd@qualivision.cn</sender>

 <title>ALARM</title>

 <receiver1>abcdefg@qualivision.cn</receiver1>

 <receiver2>abcdefg11@qualivision.cn</receiver2>

```
        <receiver3></receiver3>
      </ emailtest >
    </network>
  </content>
</body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content>
      <system>
        <info>
          <mac>00:04:75:00:ff:1a</mac>
          <channels>1</channels>
          <audioport>1:1</audioport>
          <alarmport>1:1</alarmport>
          <version>V500.R003.F006.11.C00.B001</version>
          <releasedate>2017-06-06 14:30:14</releasedate>
        </info>
      </system>
    </content>
  </body>
</envelope>
```

Field Meaning

mac: MAC address

channels: number of channels

audioport: number of audio ports for input : number of audio ports for output

alarmport: number of alarm port for input : number of alarm port for output

version: version of IPC
releasedate: release date of the version

2.8.FTP (Get)

Command

POST <http://192.168.12.91/tdkcgj>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
  <envelope>
    <header>
      <security>usnametoken</security>
      <username>admin</username>
      <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
      <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
    </header>
    <body>
      <Command> get.network.ftp </Command>
      <content></content>
    </body>
  </envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content>
      <network>
        <ftp>
```

```

        <recordftp>
            <enable>>false</enable>
            <server>192.168.12.99</server>
            <port>21</port>
            <username>123</username>
            <password>123</password>
            <anonymous>>false</anonymous>
            <directory>/record</directory>
            <filelength>0</filelength>
        </recordftp>
        <pictureftp>
            ...
        </pictureftp>
    </ftp>
</network>
</content>
</body>
</envelope>

```

Field Meaning

recordftp: FTP server setting for record

enable: "true" means enabling sending files(record/picture) to FTP server when there are files stored in device, "false" means disabling that.

server: URL/IP address of FTP server

port: port number of FTP server

username: name of user of FTP server. Undefined when "anonymous = true"

password: password of user of FTP server. Undefined when "anonymous = true"

anonymous: "true" means sending file with anonymous user

directory: directory of FTP server to store file

filelength: max length of a single file (MB), if a file is larger than it, the file will be truncated. "0" means length of file is unlimited.

pictureftp: FTP server setting for picture

2.9.FTP (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <header>
    <security>usnametoken</security>
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <Command> set.network.ftp</Command>
    <content>
      <network>
        <ftp>
          <recordftp>
            <enable>>false</enable>
            <server>192.168.12.99</server>
            <port>21</port>
            <username>123</username>
            <password>123</password>
            <anonymous>>false</anonymous>
            <directory>/record</directory>
            <filelength>0</filelength>
          </recordftp>
          <pictureftp>
            ...
```

```
        </pictureftp>
      </ftp>
    </network>
  </content>
</body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content></content>
  </body>
</envelope>
```

Field Meaning

See 5.8.FTP (Get)

2.10.FTP test

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <header>
    <security>usnametoken</security>
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
```

```
        <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
</header>
<body>
  <Command> set.network.ftp.test</Command>
  <content>
    <network>
      <ftptest>
        <enable>>false</enable>
        <server>192.168.12.99</server>
        <port>21</port>
        <username>123</username>
        <password>123</password>
        <anonymous>>false</anonymous>
        <directory>/record</directory>
        <filelength>0</filelength>
      </ftptest>
    </network>
  </content>
</body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content>
      <network>
        <ftptest>
          <code>0</code>
          <description>test success</description>
        </ftptest>
      </network>
    </content>
  </body>
</envelope>
```

```
        </network>
    </content>
</body>
</envelope>
```

Field Meaning

1) Request:

See 5.8.FTP (Get)

2) Response:

code: code of FTP test result

description: description of test result

2.11.FTP schedule (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<envelope>
```

```
    <header>
```

```
        <security>username</security>
```

```
        <username>admin</username>
```

```
        <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
```

```
        <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
```

```
    </header>
```

```
    <body>
```

```
        <Command>get.network.ftp.schedule</Command>
```

```
        <content>
```

```
        </content>
```

```
    </body>
```


</envelope>

Response

<?xml version="1.0" encoding="UTF-8"?>

<envelope>

 <body>

 <error>0</error>

 <content>

 <channel>

 <id>1</id>

 <ftp>

 <recordftp>

 <schedule>

 <sunday>

 <time1>

 <start>0:0:0</start>

 <end>24:0:0</end>

 <standard>>false</standard>

 <event>>false</event>

 </time1>

 <time2>

 ...

 </time2>

 </sunday>

 <monday>

 ...

 </monday>

 ...

 <saturday>

 ...

 </saturday>

 </schedule>

```

        </recordftp>
        <pictureftp>
            ...
        </pictureftp>
    </ftp>
</channel>
</content>
</body>
</envelope>

```

Field Meaning

channel: there is only one channel in an IPC

id: channel ID

ftp: FTP setting

schedule: schedule of sending file with FTP

day(day=sunday,monday,tuesday,wednesday,thursday,friday,saturday): day of schedule

timeX(X=1,2): a time section of each day

start: start time of a time section

end: end time of a time section

standard: "true" means enabling sending standard files to FTP server in a time section, "false" means disabling that

event: "true" means enabling sending event-triggered or alarm-triggered files to FTP server in a time section, "false" means disabling that

2.12.FTP schedule (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```

<?xml version="1.0" encoding="UTF-8"?>
<envelope>
    <header>

```

```
<security>username</security>
<username>admin</username>
<password>HnJb+pOlZ9w38CBftWSXPQ==</password>
<nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
</header>
<body>
  <Command>set.network.ftp.schedule</Command>
  <content>
    <channel>
      <id>1</id>
      <ftp>
        <recordftp>
          <schedule>
            <sunday>
              <time1>
                <start>0:0:0</start>
                <end>24:0:0</end>
                <standard>false</standard>
                <event>false</event>
              </time1>
              <time2>
                ...
              </time2>
            </sunday>
            <monday>
              ...
            </monday>
            ...
            <saturday>
              ...
            </saturday>
          </schedule>
```

```
        </recordftp>
        <pictureftp>
            ...
        </pictureftp>
    </ftp>
</channel>
</content>
</body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
    <body>
        <error>0</error>
        <content></content>
    </body>
</envelope>
```

Field Meaning

See 5.11.FTP schedule (Get)

2.13.NTP (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
    <header>
```

```
<security>username</security>
<username>admin</username>
<password>HnJb+pOlZ9w38CBftWSXPQ==</password>
<nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
</header>
<body>
  <Command>get.network.ntp</Command>
  <content>
  </content>
</body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content>
      <network>
        <ntp>
          <enable>false</enable>
          <server>time.nist.gov</server>
          <port>123</port>
          <updateTime>10</updateTime>
        </ntp>
      </network>
    </content>
  </body>
</envelope>
```

Field Meaning

enable: "true" means adjusting local time with NTP

server: URL of NTP server
port: port number of NTP server
updatetime: time interval to update local time with NTP (min)

2.14.NTP (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <header>
    <security>usnametoken</security>
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <Command> set.network.ntp </Command>
    <content>
      <network>
        <ntp>
          <enable>false</enable>
          <server>time.nist.gov</server>
          <port>123</port>
          <updatetime>10</updatetime>
        </ntp>
      </network>
    </content>
  </body>
```

</envelope>

Response

<?xml version="1.0" encoding="UTF-8"?>

<envelope>

<body>

<error>0</error>

<content></content>

</body>

</envelope>

Field Meaning

See 5.13.NTP (Get)

2.15.Cloud (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

<?xml version="1.0" encoding="UTF-8"?>

<envelope>

<header>

<security>usertoken</security>

<username>admin</username>

<password>HnJb+pOIZ9w38CBftWSXPQ==</password>

<nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>

</header>

<body>

<Command>get.network.cloud</Command>

<content>

```
        </content>
    </body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
    <body>
        <error>0</error>
        <content>
            <network>
                <cloud>
                    <enable>true</enable>
                    <status>3</status>
                    <failcode>4</failcode>
                    <cloudid>umks58hchm9a</cloudid>
                    <ieweb>http://qveye.net</ieweb>
                    <iphone>http://qveye.net/ClientForIOS.html</iphone>
                    <android>http://qveye.net/ClientForAndroid.html</android>
                    <mac>00:74:4d:16:53:5b</mac>
                </cloud>
            </network>
        </content>
    </body>
</envelope>
```

Field Meaning

enable: "true" means enabling cloud service, "false" means disabling that.

status: connected status of cloud service. Options are "0" (Not connected), "1" (Connecting), "2" (Connected), "3" (Connection failed)

failcode: code of failure, defined when "status = 3". Options are "0" (Success), "1" (DNS failure), "2" (Connect to the server failed), "3" (Login authentication failed), "4" (Other failures)

cloudid: cloud ID

ieweb: URL of IE web to login with cloud ID
iphone: URL of iphone to login with cloud ID
android: URL of android to login with cloud ID
mac: MAC address of the current device

2.16.Cloud (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <header>
    <security>usnametoken</security>
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <Command>set.network.cloud</Command>
    <content>
      <network>
        <cloud>
          <enable>true</enable>
        </cloud>
      </network>
    </content>
  </body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content></content>
  </body>
</envelope>
```

Field Meaning

See 5.16.Cloud (Get)

2.17.DDNS (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <header>
    <security>usernetoken</security>
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <Command>get.network.ddns</Command>
    <content>
    </content>
  </body>
```

</envelope>

Response

<?xml version="1.0" encoding="UTF-8"?>

<envelope>

 <body>

 <error>0</error>

 <content>

 <network>

 <ddns>

 <datalist>

 <data>

 <enable>true</enable>

 <ddnstype>orayddns</ddnstype>

 <domainname>abc.oicp.net</domainname>

 <username>ccc</username>

 <password>ccc</password>

 </data>

 ...

 <data>

 ...

 </data>

 </datalist>

 <option>

 <ddnstype>orayddns,cn99ddns,dyndnsddns,noipddns</ddnstype>

 </option>

 </ddns>

 </network>

 </content>

 </body>

</envelope>

Field Meaning

ddns: DDNS setting

datalist: list of DDNS

data: a DDNS

enable: "true" means enabling the DDNS service

ddnstype: DDNS type

domainname: domain name of DDNS

username: user name of DDNS

password: password of user

option: supported DDNS type

ddnstype: list of supported DDNS type

2.18.DDNS (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

<?xml version="1.0" encoding="UTF-8"?>

<envelope>

 <header>

 <security>usnametoken</security>

 <username>admin</username>

 <password>HnJb+pOIZ9w38CBftWSXPQ==</password>

 <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>

 </header>

 <body>

 <Command>set.network.ddns</Command>

 <content>

 <network>

 <ddns>

```

        <datalist>
          <data>
            <enable>true</enable>
            <ddnstype>orayddns</ddnstype>
            <domainname>abc.oicp.net</domainname>
            <username>ccc</username>
            <password>ccc</password>
          </data>
          ...
          <data>
            ...
          </data>
        </datalist>
      </ddns>
    </network>
  </content>
</body>
</envelope>

```

```

Response
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content></content>
  </body>
</envelope>

```

Field Meaning
See 5.18.DDNS (Get)

2.19.UPnP (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <header>
    <security>usernetoken</security>
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <Command>get.network.upnp</Command>
    <content>
    </content>
  </body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content>
      <network>
        <upnp>
          <enable>false</enable>
          <mediaport>0</mediaport>
        </upnp>
      </network>
    </content>
  </body>
</envelope>
```

```

        <httpport>0</httpport>
        <handsetport>0</handsetport>
    </upnp>
</network>
</content>
</body>
</envelope>

```

Field Meaning

enable: “true” means enabling UPnP service, “false” means disabling that.

mediaport: mapping port number of media

httpport: mapping port number of HTTP

handsetport: mapping port number of handset port

2.20.UPnP (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```

<?xml version="1.0" encoding="UTF-8"?>
<envelope>
    <header>
        <security>usertoken</security>
        <username>admin</username>
        <password>HnJb+pOlZ9w38CBftWSXPQ==</password>
        <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
    </header>
    <body>
        <Command>set.network.upnp</Command>
        <content>

```

```
<network>
  <upnp>
    <enable>false</enable>
  </upnp>
</network>
</content>
</body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content></content>
  </body>
</envelope>
```

Field Meaning

See 5.19.UPnP (Get)

2.21.Network access control (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <header>
    <security>usnametoken</security>
```



```
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
</header>
<body>
  <Command>get.network.accesscontrol</Command>
  <content>
  </content>
</body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content>
      <network>
        <accesscontrol>
          <type>blocked</type>
          <blockedlist>
            <ip>192.168.1.11</ip>
            <ip>192.168.1.12</ip>
          </blockedlist>
          <trustedlist>
            <ip>192.168.12.99</ip>
          </trustedlist>
        </accesscontrol>
      </network>
    </content>
  </body>
</envelope>
```

Field Meaning

type: type of list showing on screen, options are "blocked", "trusted"

blockedlist: blocked list

ip: one IP address in the list

trustedlist: trusted list

2.22.Network access control (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<envelope>
```

```
  <header>
```

```
    <security>usnametoken</security>
```

```
    <username>admin</username>
```

```
    <password>HnJb+pOlZ9w38CBftWSXPQ==</password>
```

```
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
```

```
  </header>
```

```
  <body>
```

```
    <Command>set.network.accesscontrol</Command>
```

```
    <content>
```

```
      <network>
```

```
        <accesscontrol>
```

```
          <type>blocked</type>
```

```
          <blockedlist>
```

```
            <ip>192.168.1.11</ip>
```

```
            <ip>192.168.1.12</ip>
```

```
          </blockedlist>
```

```
        <trustedlist>
          <ip>192.168.12.99</ip>
        </trustedlist>
      </accesscontrol>
    </network>
  </content>
</body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content></content>
  </body>
</envelope>
```

Field Meaning

See 5.21.Network access control (Get)

2.23.SNMP (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <header>
    <security>usernetoken</security>
```

```
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
</header>
<body>
  <Command>get.network.snmp</Command>
  <content>
  </content>
</body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content>
      <network>
        <snmp>
          <v1v2>
            <enablev1>false</enablev1>
            <enablev2c>false</enablev2c>
            <readunitname>public</readunitname>
            <writeunitname>private</writeunitname>
            <trapaddr>127.0.0.1</trapaddr>
            <trapport>162</trapport>
            <trapunitname>public</trapunitname>
          </v1v2>
          <v3>
            <enablev3>false</enablev3>
            <read>
              <securename>public</securename>
```

```

        <securelevel>
            <value>no auth_no priv</value>
            <supported>auth_no priv,auth_priv,no auth_no priv</supported>
        </securelevel>
        <authalgo>md5</authalgo>
        <authpassword></authpassword>
        <keyalgo>des</keyalgo>
        <keypassword></keypassword>
    </read>
    <write>
        <securename>private</securename>
        <securelevel>
            <value>no auth_no priv</value>
            <supported>auth_no priv,auth_priv,no auth_no priv</supported>
        </securelevel>
        <authalgo>md5</authalgo>
        <authpassword></authpassword>
        <keyalgo>des</keyalgo>
        <keypassword></keypassword>
    </write>
</v3>
<extension>
    <snmpport>161</snmpport>
</extension>
</snmp>
</network>
</content>
</body>
</envelope>

```

Field Meaning

v1v2: setting of SNMPv1 and SNMPv2c

enablev1: "true" means enabling SNMPv1, "false" means disabling that
enablev2c: "true" means enabling SNMPv2c, "false" means disabling that
readunitname: read community name
writeunitname: write community name
trapaddr: trap address
trapport: trap port
trapunitname: trap community name
v3: setting of SNMPv3
enablev3: "true" means enabling SNMPv3, "false" means disabling that
read: setting of SNMP reading
securename: security name
securelevel: security level
value: current selected level
supported: supported level
authalgo: authentication algorithm, options are "md5", "sha", undefined when value of securelevel is "no auth_XX"
authpassword: authentication password, at least 7 characters, undefined when value of securelevel is "no auth_XX"
keyalgo: authentication algorithm, options are "des", "aes", undefined when value of securelevel is "XX_no priv"
keypassword: private key password, undefined when value of securelevel is "XX_no priv"
write: setting of SNMP writing
extension: other configuration of SNMP
snmpport: SNMP port number

2.24.SNMP (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <header>
```

```
<security>usernetoken</security>
<username>admin</username>
<password>HnJb+pOlZ9w38CBftWSXPQ==</password>
<nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
</header>
<body>
  <Command>set.network.snmp</Command>
  <content>
    <network>
      <snmp>
        <v1v2>
          <enablev1>false</enablev1>
          <enablev2c>false</enablev2c>
          <readunitname>public</readunitname>
          <writeunitname>private</writeunitname>
          <trapaddr>127.0.0.1</trapaddr>
          <trapport>162</trapport>
          <trapunitname>public</trapunitname>
        </v1v2>
        <v3>
          <enablev3>false</enablev3>
          <read>
            <securename>public</securename>
            <securelevel>
              <value>no auth_no priv</value>
              <supported>auth_no priv,auth_priv,no auth_no priv</supported>
            </securelevel>
            <authalgo>md5</authalgo>
            <authpassword></authpassword>
            <keyalgo>des</keyalgo>
            <keypassword></keypassword>
          </read>
        </v3>
      </snmp>
    </network>
  </content>
</body>
```

```

        <write>
          <securename>private</securename>
          <securelevel>
            <value>no auth_no priv</value>
            <supported>auth_no priv,auth_priv,no auth_no priv</supported>
          </securelevel>
          <authalgo>md5</authalgo>
          <authpassword></authpassword>
          <keyalgo>des</keyalgo>
          <keypassword></keypassword>
        </write>
      </v3>
    <extension>
      <snmpport>161</snmpport>
    </extension>
  </snmp>
</network>
</content>
</body>
</envelope>

```

Response

```

<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content></content>
  </body>
</envelope>

```

Field Meaning

See 5.24.SNMP (Get)

2.25.Multicast (Get)

Command

POST http://192.168.12.91/tdkcgi

Request

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<envelope>
```

```
  <header>
```

```
    <security>usnametoken</security>
```

```
    <username>admin</username>
```

```
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
```

```
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
```

```
  </header>
```

```
  <body>
```

```
    <Command>get.network.multicast</Command>
```

```
    <content>
```

```
  </content>
```

```
</body>
```

```
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<envelope>
```

```
  <body>
```

```
    <error>0</error>
```

```
    <content>
```

```
      <network>
```

```
        <multicast>
```

```
          <enable>true</enable>
```

```
          <ipaddr>224.1.2.4</ipaddr>
```

```

        <port>40000</port>
      </multicast>
    </network>
  </content>
</body>
</envelope>

```

Field Meaning

enable: "true" means enabling multicasting service, "false" means disabling that
 ipaddr: IP address of multicasting, range is between 224.0.0.0 and 239.255.255.255
 port: multicasting Port number. (between 1025 and 25535)

2.26.Multicast (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```

<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <header>
    <security>usnametoken</security>
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <Command>set.network.multicast</Command>
    <content>
      <network>
        <multicast>

```

```
        <enable>true</enable>
        <ipaddr>224.1.2.4</ipaddr>
        <port>40000</port>
    </multicast>
</network>
</content>
</body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content></content>
  </body>
</envelope>
```

Field Meaning

See 5.26.Multicast (Get)

2.27.UPnP(TM) (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <header>
    <security>usnametoken</security>
```

```
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
</header>
<body>
  <Command>get.network.upnptm</Command>
  <content>
  </content>
</body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content>
      <network>
        <upnptm>
          <enable>true</enable>
          <name>IPCamera - umks58hchm9a</name>
        </upnptm>
      </network>
    </content>
  </body>
</envelope>
```

Field Meaning

enable: “true” means enabling UPnP(TM) service, “false” means disabling that

name: friendly name of UPnP(TM)

2.28.UPnP(TM) (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <header>
    <security>usnametoken</security>
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <Command>set.network.upnptm</Command>
    <content>
      <network>
        <upnptm>
          <enable>true</enable>
          <name>IPCamera - umks58hchm9a</name>
        </upnptm>
      </network>
    </content>
  </body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
```

```
<error>0</error>
<content></content>
</body>
</envelope>
```

Field Meaning

See 5.28.UPnP(TM) (Get)

2.29.3G/4G (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="utf-8"?>
<envelope>
  <header>
    <security>usernetoken</security>
    <username>admin</username>
    <password>HnJb+pOlZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <command>get.network.cellular</command>
    <content/>
  </body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
```

```
<body>
  <error>0</error>
  <content>
    <network>
      <cellular>
        <enable>false</enable>
        <status>nodevice</status>
        <type>wcdma</type>
        <typeoption>wcdma</typeoption>
        <accesspoint>3G/4GNET</accesspoint>
        <dialnumber>*99#</dialnumber>
        <username>card</username>
        <password>CARD</password>
        <ipaddress>0.0.0.0</ipaddress>
      </cellular>
    </network>
  </content>
</body>
</envelope>
```

Field Meaning

enable: 'true' is enable, 'false' is not

status: current status

type: type of 3G/4G

typeoption: all supported options

accesspoint: access point

dialnumber: number of dialing

username: name of user

password: password of the user

ipaddress: IP address

2.30. 3G/4G (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="utf-8"?>
<envelope>
  <header>
    <security>usnametoken</security>
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <command>set.network.cellular</command>
    <content>
      <network>
        <cellular>
          <enable>>false</enable>
          <status>设备不存在</status>
          <type>wcdma</type>
          <accesspoint>3G/4GNET</accesspoint>
          <dialnumber>*99#</dialnumber>
          <username>card</username>
          <password>CARD</password>
          <ipaddress>0.0.0.0</ipaddress>
        </cellular>
      </network>
    </content>
  </body>
```


</envelope>

Response

<?xml version="1.0" encoding="UTF-8"?>

<envelope>

<body>

<error>0</error>

<content></content>

</body>

</envelope>

Field Meaning

See 2.30.3G/4G (Get)

3. Image Setting

3.1. Image (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

<?xml version="1.0" encoding="UTF-8"?>

<envelope>

<header>

<security>usnametoken</security>

<username>admin</username>

<password>HnJb+pOIZ9w38CBftWSXPQ==</password>

```
        <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
    </header>
    <body>
        <Command> get.image_setting</Command>
        <content>
        </content>
    </body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
    <body>
        <error>0</error>
        <content>
            <channel>
                <id>1</id>
                <image_setting>
                    <swith_mode>
                        <value>general</value>
                        <supported>general,schedule</supported>
                    </swith_mode>
                    <start_time>8:0:0</start_time>
                    <end_time>20:0:0</end_time>
                    <image_setting_general>
                        <image_adjust>
                            <brightness>
                                <value>19</value>
                                <range>0,100</range>
                            </brightness>
                            <contrast>
```

```
        <value>80</value>
        <range>0,100</range>
    </contrast>
    <saturation>
        <value>50</value>
        <range>0,100</range>
    </saturation>
    <hue>
        <value>50</value>
        <range>0,100</range>
    </hue>
    <sharpness>
        <value>50</value>
        <range>0,100</range>
    </sharpness>
</image_adjust>
<exposure>
    <exp>
        <mode>
            <value>auto</value>
            <supported>auto,manual</supported>
        </mode>
        <time>
            <auto_index>7</auto_index>
            <manual_index>0</manual_index>
            <supported>3,4,5,6,8,10,12,15,25,30,50,60,100,120,250,500,1000,2000,4000,10000</supported>
        </time>
        <gain>
            <value>30</value>
            <range>1,100</range>
        </gain>
    </exp>
```

```
<iris>
  <mode>
    <value>auto</value>
    <supported>auto,manual</supported>
  </mode>
  <sensitivity>
    <value>50</value>
    <range>0,100</range>
  </sensitivity>
</iris>
</exposure>
<backlight>
  <hlc>
    <mode>
      <value>close</value>
      <supported>close,open</supported>
    </mode>
    <level>
      <value>50</value>
      <range>1,100</range>
    </level>
  </hlc>
  <blc>
    <mode>
      <value>close</value>
      <supported>close,center,custom</supported>
    </mode>
    <region>
      <x>0</x>
      <y>0</y>
      <width>50</width>
      <height>50</height>
```

```
        <max>8192</max>
    </region>
</blc>
<wdr>
    <mode>
        <value>close</value>
        <supported>close,dwdr,wdr</supported>
    </mode>
    <level>
        <dwdr_value>50</dwdr_value>
        <wdr_value>50</wdr_value>
        <range>0,100</range>
    </level>
</wdr>
</backlight>
<white_balance>
    <mode>
        <value>auto</value>
        <supported>auto>manual</supported>
    </mode>
    <r_gain>
        <value>50</value>
        <range>0,100</range>
    </r_gain>
    <b_gain>
        <value>50</value>
        <range>0,100</range>
    </b_gain>
</white_balance>
<day_night>
    <switch_control>
        <mode>
```

```
        <value>auto</value>
        <supported>auto,color_on,color_off</supported>
    </mode>
    <filter_time>
        <value>5</value>
        <range>1,120</range>
    </filter_time>
    <switch_thresh>
        <value>5</value>
        <range>1,100</range>
    </switch_thresh>
    <start_time>0:0:0</start_time>
    <end_time>0:0:0</end_time>
</switch_control>
<smart_ir>
    <mode>
        <value>manual</value>
        <supported>close,auto,manual</supported>
    </mode>
    <level>
        <value>50</value>
        <range>1,100</range>
    </level>
</smart_ir>
</day_night>
<video_adjust>
    <mirror>
        <value>close</value>
        <supported>close,up_down,left_right,middle</supported>
    </mirror>
    <rotate>
        <value>close</value>
```

```
        <supported>close,r90,r180,r270</supported>
    </rotate>
</video_adjust>
<enhancement>
    <nr>
        <level>
            <value>3</value>
            <range>0,6</range>
        </level>
    </nr>
    <defog>
        <mode>
            <value>close</value>
            <supported>close,auto,manual</supported>
        </mode>
        <level>
            <value>50</value>
            <range>1,100</range>
        </level>
    </defog>
    <smart_light>
        <mode>
            <value>close</value>
            <supported>close,auto,manual</supported>
        </mode>
        <level>
            <value>50</value>
            <range>1,100</range>
        </level>
    </smart_light>
</enhancement>
</image_setting_general>
```

```

        <image_setting_day>
            ...
        </image_setting_day>
        <image_setting_night>
            ...
        </image_setting_night>
    </image_setting>
</channel>
</content>
</body>
</envelope>

```

Field Meaning

channel: a channel

id: channel ID

image: image setting

switch_mode: mode of conversion in the day and night

value: current mode of conversion

supported: "general" means manual conversion, "schedule" means automatic conversion

start_time: time of start

end_time: time of end

image_setting_general: general image setting

image_adjust: image adjust

brightness: value of brightness, (range 0:100)

contrast: value of contrast (range 0:100)

saturation: value of saturation (range 0:100)

hue: value of hue (range 0:100)

sharpness: value of sharpness (range 0:100)

exposure: image exposure

exp: exposure setting

mode: exposure mode

value: current selected mode

supported: supported mode
time: exposure time
auto_index: index of supported automatic exposure time
manual_index: index of supported manual exposure time
supported: supported exposure time
gain: automatic exposure gain
value: current value of gain(range 1:100)
iris: iris setting
mode: iris mode
value: current selected mode
supported: supported mode
value: value of iris(range 0:100)
backlight:backlight setting
hlc: strong light suppression setting
mode:HLC mode
value: current selected mode
supported: supported mode
level:level of strong light suppression
value:value of level(range 1:100)
blc: automatic backlight compensation setting
mode: mode of automatic backlight compensation
value: current selected mode
supported: supported mode
region: BLC region
x: x-coordinate of region
y: y-coordinate of region
width: width of region
height: height region
wdr: wide dynamic range(WDR) setting
mode: WDR mode
value: current selected mode
supported: supported mode

level:level of WDR
dwdr_value:value of dwdr mode
wdr_value:value of wdr mode
white_balance:white balance setting
mode: :white balance mode
value:current selected mode
supported: supported mode
r_gain:R gain
value:current value(range 0:100)
b_gain: B gain
value:current value(range 0:100)
limit: WDR limit value (range 1:100)
day_night: Parameters of the day and night
switch_control:switch control
mode: control mode
value current mode
supported: supported mode
filter_time:delay time of switch control
value:current time(range 1:120)
switch_thresh: threshold of day and night conversion
value:current threshold(range 1:100)
start_time:time of start
end_time:end of time
smart_ir:smart IR setting
mode:smart IR mode
value: current mode
supported: supported mode
level: smart IR level
value: current level(range 1:100)
video_adjust:vide adjust setting
mirror: mirror setting
value:current mode of mirror

supported:supported mode
rotate:rotate setting
value: current mode of rotate
supported:supported mode
enhancement: enhancement setting
nr: noise reduction
level: level of noise reduction
value:current level(range 0:6)
defog: penetrating fog
mode:mode of penetrating fog
value:current mode
supported:supported mode
level:level of penetrating fog
value:current level(range 1:100)
smart_light:smart light
mode:mode of smart light
value:current mode
supported: supported mode
level:level of smart light
value:current level(range 1:100)
image_setting_day: image setting of day
image_setting_night: image setting of night

3.2.Image (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>  
<envelope>
```

```
<header>
  <security>usernetoken</security>
  <username>admin</username>
  <password>HnJb+pOlZ9w38CBftWSXPQ==</password>
  <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
</header>
<body>
  <Command>set.image</Command>
  <content>
    <channel>
      <id>1</id>
      <image_setting>
        <swith_mode>
          <value>general</value>
        </swith_mode>
        <start_time>8:0:0</start_time>
        <end_time>20:0:0</end_time>
        <image_setting_general>
          <image_adjust>
            <brightness>
              <value>19</value>
            </brightness>
            <contrast>
              <value>80</value>
            </contrast>
            <saturation>
              <value>50</value>
            </saturation>
            <hue>
              <value>50</value>
            </hue>
            <sharpness>
```

```
        <value>50</value>
    </sharpness>
</image_adjust>
<exposure>
    <exp>
        <mode>
            <value>auto</value>
        </mode>
        <time>
            <auto_index>7</auto_index>
            <manual_index>0</manual_index>
        </time>
        <gain>
            <value>30</value>
        </gain>
    </exp>
    <iris>
        <mode>
            <value>auto</value>
        </mode>
        <sensitivity>
            <value>50</value>
        </sensitivity>
    </iris>
</exposure>
<backlight>
    <hlc>
        <mode>
            <value>close</value>
        </mode>
        <level>
            <value>50</value>
```

```
        </level>
    </hlc>
    <blc>
        <mode>
            <value>close</value>
        </mode>
        <region>
            <x>0</x>
            <y>0</y>
            <width>50</width>
            <height>50</height>
        </region>
    </blc>
    <wdr>
        <mode>
            <value>close</value>
        </mode>
        <level>
            <dwd_r_value>50</dwd_r_value>
            <wdr_value>50</wdr_value>
        </level>
    </wdr>
</backlight>
<white_balance>
    <mode>
        <value>auto</value>
    </mode>
    <r_gain>
        <value>50</value>
    </r_gain>
    <b_gain>
        <value>50</value>
```

```
</b_gain>
</white_balance>
<day_night>
  <switch_control>
    <mode>
      <value>auto</value>
    </mode>
    <filter_time>
      <value>5</value>
    </filter_time>
    <switch_thresh>
      <value>5</value>
    </switch_thresh>
    <start_time>0:0:0</start_time>
    <end_time>0:0:0</end_time>
  </switch_control>
  <smart_ir>
    <mode>
      <value>manual</value>
    </mode>
    <level>
      <value>50</value>
    </level>
  </smart_ir>
</day_night>
<video_adjust>
  <mirror>
    <value>close</value>
  </mirror>
  <rotate>
    <value>close</value>
  </rotate>
```

```
</video_adjust>
<enhancement>
  <nr>
    <level>
      <value>3</value>
    </level>
  </nr>
  <defog>
    <mode>
      <value>close</value>
    </mode>
    <level>
      <value>50</value>
    </level>
  </defog>
  <smart_light>
    <mode>
      <value>close</value>
    </mode>
    <level>
      <value>50</value>
    </level>
  </smart_light>
</enhancement>
</image_setting_general>
<image_setting_day>
  ...
</image_setting_day>
<image_setting_night>
  ...
</image_setting_night>
</image_setting>
```



```
        </channel>
    </content>
</body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content></content>
  </body>
</envelope>
```

Field Meaning

See 6.1.Image (Get)

3.3.Encode cover(Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <header>
    <security>usnametoken</security>
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
```

```
<body>
  <command>get.encode.cover</command>
  <content></content>
</body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content>
      <channel>
        <id>1</id>
        <cover>
          <regionlist>
            <region>
              <regionid>1</regionid>
              <preview>true</preview>
              <pos>
                <left>
                  <value>4096</value>
                  <max>8192</max>
                </left>
                <top>
                  <value>4096</value>
                  <max>8192</max>
                </top>
                <right>
                  <value>4096</value>
                  <max>8192</max>
                </right>
              </pos>
            </region>
          </regionlist>
        </cover>
      </channel>
    </content>
  </body>
</envelope>
```

```

        <bottom>
            <value>4096</value>
            <max>8192</max>
        </bottom>
    </pos>
</region>
...
</regionlist>
<enable>false</enable>
</cover>
</channel>
</content>
</body>
</envelope>

```

Field Meaning

channel: there is only one channel in an IPC

id: ID of a channel

cover: cover setting

regionlist: list of total region

region:one region

regionid: id of region

preview:'ture' means showing ,false means not

pos: position of a region, which is a rectangle and defined by two points, (left, top) and (right, bottom)

left: left-coordinate

value: current value of coordinate

max: max value of coordinate, min value is 0

top: top-coordinate

right: right-coordinate

bottom: bottom-coordinate

enable:"true" is enable,"false" is not

3.4.Encode cover(Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <header>
    <security>usnametoken</security>
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <command>set.encode.cover</command>
  </body>
  <content>
    <channel>
      <id>1</id>
      <cover>
        <regionlist>
          <region>
            <regionid>1</regionid>
            <preview>true</preview>
          </region>
        </regionlist>
        <pos>
          <left>
            <value>4096</value>
          </left>
          <top>
            <value>4096</value>
          </top>
        </pos>
      </cover>
    </channel>
  </content>
</envelope>
```

```
        </top>
        <right>
            <value>4096</value>
        </right>
        <bottom>
            <value>4096</value>
        </bottom>
    </pos>
</region>
...
</regionlist>
<enable>false</enable>
</cover>
</channel>
</content>
</body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
    <body>
        <error>0</error>
        <content></content>
    </body>
</envelope>
```

Field Meaning

See 2.4.Encode cover(Get)

4.Audio and Video Setting

4.1.Encode basic(Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <header>
    <security>username</security>
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <command>get.encode</command>
    <content></content>
  </body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content>
      <channel>
```

```
<id>1</id>
<name>conf_img.channel1</name>
<ability>4904</ability>
<mainstream>
  <videoformat>
    <enabled>true</enabled>
    <compression>
      <value>h264 </value>
      <supported>h264,h265</supported>
    </compression>
    <encodingcomplexity>
      <value>mainprofile</value>
      <supported>baseline,mainprofile,highprofile</supported>
    </encodingcomplexity>
    <resolution>
      <value>22:2560x1440</value>
      <supported>9:1280x720,10:1920x1080,18:1280x960,21:2048x1536,22:2560x1440,24:2304x1728</supported>
    </resolution>
    <fps>
      <value>25</value>
      <range>1:25</range>
      <max>30</max>
    </fps>
    <bitratecontrol>
      <value>vbr</value>
      <supported>cbr,vbr</supported>
    </bitratecontrol>
    <quality>
      <value>4</value>
      <supported>1,2,3,4,5,6</supported>
    </quality>
    <bitrate>
```

```
<value>5253</value>
<supported>1313,2627,3502,5253,7005,8756</supported>
</bitrate>
<sefdefbitrate>
  <bitratemode>
    <data>
      <resolutionid>10</resolutionid>
      <min>192,381,572,763,1145,1527</min>
      <max>1024,2048,3072,4096,6144,8192</max>
    </data>
    <data>
      <resolutionid>18</resolutionid>
      <min>192,312,432,552,732,960</min>
      <max>1024,1664,2304,2944,3904,5120</max>
    </data>
    <data>
      <resolutionid>21</resolutionid>
      <min>286,572,763,1145,1527,1909</min>
      <max>1536,3072,4096,6144,8192,10240</max>
    </data>
    <data>
      <resolutionid>22</resolutionid>
      <min>286,572,763,1145,1527,1909</min>
      <max>1536,3072,4096,6144,8192,10240</max>
    </data>
    <data>
      <resolutionid>23</resolutionid>
      <min>381,572,763,1145,1527,1909</min>
      <max>2048,3072,4096,6144,8192,10240</max>
    </data>
    <data>
      <resolutionid>24</resolutionid>
```



```
        <min>286,572,763,1145,1527,1909</min>
        <max>1536,3072,4096,6144,8192,10240</max>
    </data>
    <data>
        <resolutionid>25</resolutionid>
        <min>381,572,763,1145,1527,1909</min>
        <max>2048,3072,4096,6144,8192,10240</max>
    </data>
    <data>
        <resolutionid>26</resolutionid>
        <min>381,572,763,1145,1527,1909</min>
        <max>3072,4096,6144,8192,12288,16384</max>
    </data>
</bitratemode>
</sefdefbitrate>

    <gop>
        <value>20</value>
        <range>10:100</range>
    </gop>
</videoformat>
<audioformat>
    <enabled>>false</enabled>
</audioformat>
</mainstream>
<substream>
    ...
</substream>
<thirdstream>
    ...
</thirdstream>
</channel>
```

```
</content>
</body>
</envelope>
```

Field Meaning

channel: there is only one channel in an IPC.

id: id of a channel

name: name of a channel

ability: total encoding ability of a channel

mainstream: mainstream setting of a channel

videoformat: video format setting of a stream type

enabled: 'true' means enabling video preview, 'false' means disabling video preview.

compression: video compression format

value: current selected format

supported: supported format

encodingcomplexity: video encodingcomplexity

value: current encodingcomplexity

supported: supported encodingcomplexity

resolution: video resolution (resolution id: width x height)

value: current selected resolution

supported: supported resolution

fps: frame rate of video

value: current value of frame rate

range: current range of value that can be set

max: default max value

bitratecontrol: bit rate control type of video,, "cbr" means constant bit rate, "vbr" means variable bit rate

value: current selected control type

supported: supported control type

quality: image quality level

value: current selected level

supported: supported level, '1' means lowest, '2' means low, '3' means standard, '4' means good, '5' means better, '6' means best

bitrate: bit rate of video (Kb/s).

value: current value of bit rate

supported: supported value of bit rate, it corresponds to resolution and frame rate. You can get each supported bit rate group by command 'get encode bitrate'(see 2.10)

gop: the interval between two I-Frame (100ms)

value: current value of GoP

range: the range of value that can be set

audioformat: audio format setting of a stream type

enabled: 'true' means enabling audio preview, 'false' means disabling that

substream: sub stream setting of a channel

thirdstream: the third stream setting of a channel

4.2.Encode basic(Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<envelope>
```

```
  <header>
```

```
    <security>usertoken</security>
```

```
    <username>admin</username>
```

```
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
```

```
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
```

```
  </header>
```

```
  <body>
```

```
    <command>set.encode</command>
```

```
    <content>
```

```
      <channel>
```

```
        <id>1</id>
```

```
        <name>conf_img.channel1</name>
```

```
<mainstream>
  <videoformat>
    <enabled>true</enabled>
    <compression>
      <value>h264 </value>
    </compression>
    <encodingcomplexity>
      <value>mainprofile</value>
    </encodingcomplexity>
    <resolution>
      <value>22:2560x1440</value>
    </resolution>
    <fps>
      <value>25</value>
    </fps>
    <bitratecontrol>
      <value>vbr</value>
    </bitratecontrol>
    <quality>
      <value>4</value>
    </quality>
    <bitrate>
      <value>5253</value>
    </bitrate>
    <gop>
      <value>20</value>
    </gop>
  </videoformat>
  <audioformat>
    <enabled>>false</enabled>
  </audioformat>
</mainstream>
```

```
        <substream>
            ...
        </substream>
        <thirdstream>
            ...
        </thirdstream>
    </channel>
</content>
</body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
    <body>
        <error>0</error>
        <content></content>
    </body>
</envelope>
```

Field Meaning

See 2.1.Encode basic(Get)

4.3.Encode audio(Get)

Command

POST <http://192.168.12.91/tdkcgj>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<envelope>
  <header>
    <security>usnametoken</security>
    <username>admin</username>
    <password>HnJb+pOlZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <command>get.encode.audio</command>
    <content></content>
  </body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content>
      <channel>
        <id>1</id>
        <audioformat>
          <encode>
            <currvalue>g711</currvalue>
            <value>g711</value>
            <supported>g711,g711u</supported>
          </encode>
          <input>
            <value>line</value>
            <supported>line,mic</supported>
          </input>
          <volume>
```

```

        <value>31</value>
        <range>0:100</range>
    </volume>
    <noisereduce>true</noisereduce>
    <encode>
        <currvalue>g711</currvalue>
        <value>g711u</value>
        <supported>g711,g711u</supported>
    </encode>
    <input>
        <value>line</value>
        <supported>line,mic</supported>
    </input>
    <volume>
        <value>50</value>
        <range>0:100</range>
    </volume>
    <noisereduce>true</noisereduce>
</audioformat>
</channel>
</content>
</body>
</envelope>

```

Field Meaning

channel: there is only one channel in an IPC

id: ID of a channel

audioformat: audio format setting of a channel

encode: audio coding mode

currvalue: current selected mode

value: one mode

supported: supported mode

input: audio input

value: current selected input
supported: supported input
volume: volume of audio
value: current value of volume
range: range of value that can be set
noisereduce: 'true' means enabling noise reduction, 'false' means disabling that

4.4.Encode audio(Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <header>
    <security>usnametoken</security>
    <username>admin</username>
    <password>HnJb+pOlZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <command>set.encode.audio</command>
    <content>
      <channel>
        <id>1</id>
        <audioformat>
          <encode>
            <currvalue>g711</currvalue>
          </encode>
          <input>
```



```
        <value>line</value>
      </input>
    <volume>
      <value>50</value>
    </volume>
    <noisereduce>true</noisereduce>
  </audioformat>
</channel>
</content>
</body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content>(null)</content>
  </body>
</envelope>
```

Field Meaning

See 2.5.Encode audio (Get)

4.5.Encode OSD(Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
  <envelope>
    <header>
      <security>usernetoken</security>
      <username>admin</username>
      <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
      <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
    </header>
    <body>
      <command>get.encode.cover</command>
      <content></content>
    </body>
  </envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
  <envelope>
    <body>
      <error>0</error>
      <content>
        <channel>
          <id>1</id>
          <osd>
            <timeosd>
              <pos>
                <left>
                  <value>6144</value>
                  <max>8192</max>
                </left>
                <top>
                  <value>186</value>
```

```

        <max>8192</max>
    </top>
    <right>
        <value>8192</value>
        <max>8192</max>
    </right>
    <bottom>
        <value>1024</value>
        <max>8192</max>
    </bottom>
</pos>
<enable>true</enable>
</timeosd>
<channelosd>
    ...
</channelosd>
</osd>
</channel>
</content>
</body>
</envelope>

```

Field Meaning

channel: there is only one channel in an IPC

id: id of a channel

osd: OSD setting

timeosd: OSD of time title

pos: position of a region, which is a rectangle and defined by two points, (left, top) and (right, bottom)

left: left-coordinate

value: current value of coordinate

max: max value of coordinate, min value is 0

top: top-coordinate

right: right-coordinate
bottom: bottom-coordinate
enable:"true" is enable,"false" is not
channelosd: OSD of channel title

4.6.Encode OSD(Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <header>
    <security>usnametoken</security>
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <command>set.encode.osd</command>
    <content>
      <channel>
        <id>1</id>
        <osd>
          <timeosd>
            <pos>
              <left>
                <value>6144</value>
              </left>
```

```

        <top>
            <value>186</value>
        </top>
        <right>
            <value>8192</value>
        </right>
        <bottom>
            <value>1024</value>
        </bottom>
    </pos>
    <enable>true</enable>
</timeosd>
<channelosd>
    ...
</channelosd>
</osd>
</channel>
</content>
</body>
</envelope>

```

Response

```

<?xml version="1.0" encoding="UTF-8"?>
<envelope>
    <body>
        <error>0</error>
        <content>(null)</content>
    </body>
</envelope>

```

Field Meaning

See 2.6.Encode osd (Get)

4.7.Encode ROI(Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <header>
    <security>usnametoken</security>
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <command>get.encode.roi</command>
    <content></content>
  </body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content>
      <channel>
        <id>1</id>
        <roi>
          <mainstream>
            <totalarea>8</totalarea>
```

```
<area>
  <id>1</id>
  <enabled>>false</enabled>
  <levelup>
    <quality>
      <value>4</value>
      <supported>1,2,3,4,5,6</supported>
    </quality>
  </levelup>
  <regionname></regionname>
  <pos>
    <left>
      <value>4096</value>
      <max>8192</max>
    </left>
    <top>
      <value>4096</value>
      <max>8192</max>
    </top>
    <right>
      <value>4096</value>
      <max>8192</max>
    </right>
    <bottom>
      <value>4096</value>
      <max>8192</max>
    </bottom>
  </pos>
</area>
...
<area>
  ...
```

```

        </area>
      </mainstream>
    <substream>
      ...
    </substream>
  </roi>
</channel>
</content>
</body>
</envelope>

```

Field Meaning

channel: there is only one channel in an IPC

id: id of a channel

roi: ROI setting of a channel

mainstream: ROI setting of main stream

totalarea: count of ROI in a stream

area: aregionwith ROI setting

id: ID of a region

enabled: 'true' means enabling ROI setting of a region, 'false' means disabling that

levelup: set the region to a level

quality: image quality level

value: current selected level

supported: supported level, '1' means lowest, '2' means low, '3' means standard, '4' means good, '5' means better, '6' means best

regionname: friendly name of a region

pos: position of a region, which is a rectangle and defined by two points, (left, top) and (right, bottom)

left: left-coordinate

value: current value of coordinate

max: max value of coordinate, min value is 0

top: top-coordinate

right: right-coordinate

bottom: bottom-coordinate

substream: ROI setting of sub stream

4.8.Encode ROI(Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

<?xml version="1.0" encoding="UTF-8"?>

<envelope>

<header>

<security>usnametoken</security>

<username>admin</username>

<password>HnJb+pOIZ9w38CBftWSXPQ==</password>

<nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>

</header>

<body>

<command>set.encode.roi</command>

<content>

<channel>

<id>1</id>

<roi>

<mainstream>

<area>

<id>1</id>

<enabled>>false</enabled>

<levelup>

<quality>

<value>4</value>

</quality>

</levelup>

```
<regionname>abc</regionname>
<pos>
  <left>
    <value>4096</value>
  </left>
  <top>
    <value>4096</value>
  </top>
  <right>
    <value>4096</value>
  </right>
  <bottom>
    <value>4096</value>
  </bottom>
</pos>
</area>
<area>
  ...
</area>
  ...
</mainstream>
<substream>
  ...
</substream>
</roi>
</channel>
</content>
</body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<envelope>
  <body>
    <error>0</error>
    <content>(null)</content>
  </body>
</envelope>
```

Field Meaning

See 2.8.Encode ROI(Get)

4.9.Encode bitrate

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <header>
    <security>usertoken</security>
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <command> get.encode.bitrate</command>
    <content></content>
  </body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content>
      <capture>
        <id>1</id>
        <mode>pal</mode>
        <resolutionlist>
          <resolution>
            <id>0</id>
            <fpslist>
              <fps>
                <value>1</value>
                <bitrate>95,143,190,286,381,477</bitrate>
              </fps>
              <fps>
                <value>2</value>
                <bitrate>112,169,225,338,450,564</bitrate>
              </fps>
              <fps>
                <value>3</value>
                <bitrate>130,195,260,390,520,651</bitrate>
              </fps>
              ...
              <fps>
                <value>25</value>
                <bitrate>512,768,1024,1536,2048,2560</bitrate>
              </fps>
            </fpslist>
          </resolution>
          <resolution>
```

```

        <id>1</id>
        <fpslist>
            <fps>
                <value>1</value>
                <bitrate>71,95,143,190,286,381</bitrate>
            </fps>
            ...
        </fpslist>
    </resolution>
    ...
</resolutionlist>
</capture>
<capture>
    <id>1</id>
    <mode>ntsc</mode>
    <resolutionlist>
        ...
    </resolutionlist>
</capture>
</content>
</body>
</envelope>

```

Field Meaning

capture: there is only one capture in an IPC

id: ID of a capture

mode: video standard mode

resolutionlist: list of supported resolution of a video standard mode

resolution: a type of resolution in the list

id: ID of the resolution

fpslist: list of supported frame rate

fps: one fps in the list

value: value of fps

bitrate: a group of supported bit rate value

4.10.Encode resolution

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<envelope>
```

```
  <header>
```

```
    <security>usertoken</security>
```

```
    <username>admin</username>
```

```
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
```

```
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
```

```
  </header>
```

```
  <body>
```

```
    <command>get.encode.resolution</command>
```

```
    <content></content>
```

```
  </body>
```

```
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<envelope>
```

```
  <body>
```

```
    <error>0</error>
```

```
    <content>
```

```
      <channel>
```

```
        <id>1</id>
```

```

<ability>4904</ability>
<mainstreamlist>
  <mainstream>
    <value>9:1280x720</value>
    <substream>0:704x480,3:352x240</substream>
    <thirdstream>3:352x240</thirdstream>
  </mainstream>
  ...
  <mainstream>
    <value>24:2304x1728</value>
    <substream>0:704x480,3:352x240</substream>
    <thirdstream>3:352x240</thirdstream>
  </mainstream>
</mainstreamlist>
<divnumlist>
  <divnum>0:16</divnum>
  <divnum>1:8</divnum>
  <divnum>2:1</divnum>
  ...
  <divnum>29:419</divnum>
</divnumlist>
</channel>
</content>
</body>
</envelope>

```

Field Meaning

channel: there is only one channel in an IPC

id: ID of a channel

ability: total encoding ability of IPC

mainstreamlist: list by main stream

mainstream: a type of resolution of main stream

value: value of a type of resolution, resolution id : width x height
substream: a group of supported resolution of sub stream, which corresponds to resolution of main stream
thirdstream: a group of supported resolution of the third stream, which corresponds to resolution of main stream
divnumlist: list of divnum
divnum: resolution id : ability used of a frame

4.11.Encode channelname(Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <header>
    <security>usnametoken</security>
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <Command>get.encode.channelname</Command>
    <content></content>
  </body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content>
```



```
<channel>
  <id>1</id>
  <name>dgherd</name>
  <channeltype>digital</channeltype>
  <serialno>0</serialno>
</channel>
</content>
</body>
</envelope>
```

Field Meaning

channel: there is only one channel in IPC

id: channel ID

name: name of channel

channeltype: type of channel

serialno: serial number of channel

4.12. Encode channelname(Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <header>
    <security>username</security>
    <username>admin</username>
    <password>1</password>
  </header>
  <body>
```

```
<Command>set.encode.channelname</Command>
<content>
  <name>dgherd</name>
</content>
</body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content>(null)</content>
  </body>
</envelope>
```

Field Meaning

See 2.13.Encode ROI(Get)

4.13.Audio Samplerate(Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="utf-8"?>
<envelope>
  <header>
    <security>usnametoken</security>
```

```
<username>admin</username>
<password/>
<nc>0lVHMprQe4V0d7DS9c2QyWt388GYUUSD</nc>
</header>
<body>
  <command>g.audio.samplerate</command>
  <content/>
</body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <content>
      <rate>8000</rate>
      <sup>8000</sup>
    </content>
    <error>0</error>
  </body>
</envelope>
Field Meaning
rate: current audio samplerate
sup: all support samplerate listed
```

4.14.Audio Samplerate(Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="utf-8"?>
<envelope>
  <header>
    <security>usertoken</security>
    <username>admin</username>
    <password/>
    <nc>0IVHMprQe4V0d7DS9c2QyWt388GYUUSD</nc>
  </header>
  <body>
    <command>s.audio.samplerate</command>
    <content>
      <rate>8000</rate>
    </content>
  </body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <content>
    </content>
    <error>0</error>
  </body>
</envelope>
```

Field Meaning

rate: current audio samplerate

5.Event Setting

5.1.Motion detection base (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <header>
    <security>username token</security>
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <Command> get.alarm.motiondetection </Command>
    <content>
    </content>
  </body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content>
```

```
<channel>
  <id>1</id>
  <motiondetection>
    <enabled>>false</enabled>
    <sensitivity>3</sensitivity>
    <region>
      <rownum>18</rownum>
      <colnum>22</colnum>
      <datalist>
        <data>11111111111111111111</data>
        <data>11111111111111111111</data>
        <data>11111111111111111111</data>
        <data>11111111111111111111</data>
        <data>11111111111111111111</data>
        <data>11111111111111111111</data>
        <data>11111111111111111111</data>
        <data>11111111111111111111</data>
        <data>11111111111111111111</data>
        <data>11111111111111111111</data>
        <data>11111111111111111111</data>
        <data>11111111111111111111</data>
        <data>11111111111111111111</data>
        <data>11111111111111111111</data>
        <data>11111111111111111111</data>
        <data>11111111111111111111</data>
        <data>11111111111111111111</data>
        <data>11111111111111111111</data>
      </datalist>
    </region>
  </motiondetection>
</channel>
</content>
```

```
</body>
</envelope>
```

Field Meaning

channel: a channel

id: channel ID

motiondetection: motion detection setting

enabled: "true" means enabling motion detection, "false" means disabling

sensitivity: sensitivity of motion detection, options are "1"(lowest), "2"(lower), "3"(middle), "4"(high), "5"(higher), "6"(highest)

region: the whole region is separated into rownum* colnum blocks, each block can be set to be interested in motion detection or not.

rownum: the number of row of region

colnum: the number column of region

datalist: list of data, each represents a row of region, and it is consist of colnum data(see following).

data: consist of 'column' character, "1" means the block is interested in motion detection, "0" means not.

5.2.Motion detection base (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<envelope>
```

```
  <header>
```

```
    <security>usnametoken</security>
```

```
    <username>admin</username>
```

```
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
```

```
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
```

```
  </header>
```

```
  <body>
```

```
    <Command>set.alarm.motiondetection </Command>
```

```
<content>
  <channel>
    <id>1</id>
    <motiondetection>
      <enabled>false</enabled>
      <sensitivity>3</sensitivity>
      <region>
        <datalist>
          <data>11111111111111111111</data>
          <data>11111111111111111111</data>
          <data>11111111111111111111</data>
          <data>11111111111111111111</data>
          <data>11111111111111111111</data>
          <data>11111111111111111111</data>
          <data>11111111111111111111</data>
          <data>11111111111111111111</data>
          <data>11111111111111111111</data>
          <data>11111111111111111111</data>
          <data>11111111111111111111</data>
          <data>11111111111111111111</data>
          <data>11111111111111111111</data>
          <data>11111111111111111111</data>
          <data>11111111111111111111</data>
          <data>11111111111111111111</data>
          <data>11111111111111111111</data>
          <data>11111111111111111111</data>
          <data>11111111111111111111</data>
        </datalist>
      </region>
    </motiondetection>
  </channel>
</content>
</body>
```


</envelope>

Response

<?xml version="1.0" encoding="UTF-8"?>

<envelope>

<body>

<error>0</error>

<content></content>

</body>

</envelope>

Field Meaning

See 7.1.Motion detection base (Get)

5.3.Motion detection schedule (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

<?xml version="1.0" encoding="UTF-8"?>

<envelope>

<header>

<security>usnametoken</security>

<username>admin</username>

<password>HnJb+pOlZ9w38CBftWSXPQ==</password>

<nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>

</header>

<body>

<Command> get.alarm.motiondetection.schedule </Command>

<content>

```
        </content>
    </body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
    <body>
        <error>0</error>
        <content>
            <channel>
                <id>1</id>
                <motiondetection>
                    <schedule>
                        <sunday>
                            <time1>
                                <enabled>true</enabled>
                                <start>0:0:0</start>
                                <end>24:0:0</end>
                            </time1>
                            ...
                            <time6>
                                ...
                            </time6>
                        </sunday>
                        ...
                        <saturday>
                            ...
                        </saturday>
                    </schedule>
                </motiondetection>
            </channel>
```

```
</content>
</body>
</envelope>
```

Field Meaning

channel: a channel

id: channel ID

motiondetection: motion detection setting

schedule: motion detection schedule

day(day=sunday,monday,tuesday,wednesday,thursday,friday,saturday): day of schedule

timeX(X=1,2,3,...,6): a time section of each day

start: start time of a time section

end: end time of a time section

standard: 'true' means enabling motion detection in a time section, 'false' means disable that

5.4.Motion detection schedule (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<envelope>
```

```
  <header>
```

```
    <security>usnametoken</security>
```

```
    <username>admin</username>
```

```
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
```

```
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
```

```
  </header>
```

```
  <body>
```

```
    <Command>set.alarm.motiondetection.schedule</Command>
```

```
<content>
  <channel>
    <id>1</id>
    <motiondetection>
      <schedule>
        <sunday>
          <time1>
            <enabled>true</enabled>
            <start>0:0:0</start>
            <end>24:0:0</end>
          </time1>
          ...
          <time6>
            ...
          </time6>
        </sunday>
        ...
        <saturday>
          ...
        </saturday>
      </schedule>
    </motiondetection>
  </channel>
</content>
</body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
```

```
        <content></content>
    </body>
</envelope>
```

Field Meaning

See 7.3.Motion detection schedule (Get)

5.5.Motion detection event handler (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
    <header>
        <security>usnametoken</security>
        <username>admin</username>
        <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
        <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
    </header>
    <body>
        <Command> get.alarm.motiondetection.eventhandler </Command>
        <content>
        </content>
    </body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
```

```
<body>
  <error>0</error>
  <content>
    <channel>
      <id>1</id>
      <motiondetection>
        <eventhandler>
          <interval>5</interval>
          <alarmout>>false</alarmout>
          <alarmoutmask>1</alarmoutmask>
          <alarmdelay>10</alarmdelay>
          <message>>false</message>
          <email>>false</email>
          <buzzer>>false</buzzer>
          <record>>false</record>
          <recordmask>1</recordmask>
          <recorddelay>10</recorddelay>
          <ptzact>>false</ptzact>
          <ptzlist>
            </ptzlist>
          <tour>>false</tour>
          <tourmask>1</tourmask>
          <snap>>false</snap>
          <snapmask>1</snapmask>
          <smartlight>>false</smartlight>
          <smartlightdelay>10</smartlightdelay>
        </eventhandler>
      </motiondetection>
    </channel>
  </content>
</body>
</envelope>
```

Field Meaning

channel: a channel

id: channel ID

motiondetection: motion detection setting

eventhandler: event handlers setting of motion detection

interval: minimum interval time between two motion detection triggered (range 0:600)(sec)

alarmout: "true" means triggering alarm out when motion detection triggered.

alarmoutmask: list of channel ID, each represents a alarm out of the channel to be triggered.

alarmdelay: duration of alarm out after motion detection triggered.

message: "true" means enabling showing message on preview screen when motion detection triggered, "false" means disabling that.

email: "true" means enabling sending email when motion detection triggered, "false" means disabling that.

buzzer: "true" means enabling turning on buzzer when motion detection triggered, "false" means disabling that.

record: "true" means enabling making record when motion detection triggered, "false" means disabling that.

recordmask: list of channel ID , each represents a channel to be recorded

recorddelay: duration of making record after motion detection triggered

ptzact: ptz action setting when motion detection triggered

ptzlist: list of ptz

tour: "true" means enabling touring when motion detection triggered, "false" means disabling

tourmask: list of channel ID, each represents the tour of a channel to be triggered.

snap: "true" means enabling to make a snapshot when motion detection triggered, "false" means disabling

snapmask: list of channel ID, each represents a channel to make a snapshot.

smartlight: "true" means enabling turning on smartlight when motion detection triggered, "false" means disabling that.

smartlightdelay: duration of keeping smartlight on after motion detection triggered

5.6.Motion detection event handler (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <header>
    <security>usertoken</security>
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <Command> set.alarm.motiondetection.eventhandler </Command>
    <content>
      <channel>
        <id>1</id>
        <motiondetection>
          <eventhandler>
            <interval>5</interval>
            <alarmout>false</alarmout>
            <alarmoutmask>1</alarmoutmask>
            <alarmdelay>10</alarmdelay>
            <message>false</message>
            <email>false</email>
            <buzzer>false</buzzer>
            <record>false</record>
            <recordmask>1</recordmask>
            <recorddelay>10</recorddelay>
            <ptzact>false</ptzact>
            <ptzlist>
            </ptzlist>
            <tour>false</tour>
            <tourmask>1</tourmask>
            <snap>false</snap>
            <snapmask>1</snapmask>
```



```
        <smartlight>false</smartlight>
        <smartlightdelay>10</smartlightdelay>
    </eventhandler>
</motiondetection>
</channel>
</content>
</body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content></content>
  </body>
</envelope>
```

Field Meaning

See 7.5.Motion detection event handler (Get)

5.7.Video shelter base (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <header>
    <security>usertoken</security>
```

```
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
</header>
<body>
  <Command> get.alarm.videoshelter </Command>
  <content>
  </content>
</body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content>
      <channel>
        <id>1</id>
        <videoshelter>
          <enabled>false</enabled>
          <sensitivity>3</sensitivity>
        </videoshelter>
      </channel>
    </content>
  </body>
</envelope>
```

Field Meaning

Refer to 7.1.Motion detection base (Get).

(Replace “motion detection” with “video sheltering” in the Field Meaning of 7.1.)

5.8.Video shelter base (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <header>
    <security>username</security>
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <Command> set.alarm.videoshelter </Command>
    <content>
      <channel>
        <id>1</id>
        <videoshelter>
          <enabled>>false</enabled>
          <sensitivity>3</sensitivity>
        </videoshelter>
      </channel>
    </content>
  </body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
```

```
<body>
  <error>0</error>
  <content></content>
</body>
</envelope>
```

Field Meaning

Refer to 7.1.Motion detection base (Get).

(Replace “motion detection” with “video sheltering” in the Field Meaning of 7.1.)

5.9.Video shelter schedule (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <header>
    <security>usertoken</security>
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <Command>get.alarm.videoshelter.schedule </Command>
    <content>
    </content>
  </body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<envelope>
```

```
  <body>
```

```
    <error>0</error>
```

```
    <content>
```

```
      <channel>
```

```
        <id>1</id>
```

```
        <videoshelter>
```

```
          <schedule>
```

```
            <sunday>
```

```
              <time1>
```

```
                <enabled>true</enabled>
```

```
                <start>0:0:0</start>
```

```
                <end>24:0:0</end>
```

```
              </time1>
```

```
              ...
```

```
              <time6>
```

```
              ...
```

```
              </time6>
```

```
            </sunday>
```

```
            ...
```

```
            <saturday>
```

```
            ...
```

```
            </saturday>
```

```
          </schedule>
```

```
        </videoshelter>
```

```
      </channel>
```

```
    </content>
```

```
  </body>
```

```
</envelope>
```

Field Meaning

Refer to 7.2.Motion detection schedule (Get).

(Replace “motion detection” with “video sheltering” in the Field Meaning of 7.2.)

5.10.Video shelter schedule (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <header>
    <security>usnametoken</security>
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <Command>set.alarm.videoshelter.schedule </Command>
    <content>
      <channel>
        <id>1</id>
        <videoshelter>
          <schedule>
            <sunday>
              <time1>
                <enabled>true</enabled>
                <start>0:0:0</start>
                <end>24:0:0</end>
              </time1>
            </sunday>
          </schedule>
        </videoshelter>
      </channel>
    </content>
  </body>
</envelope>
```

```

...
<time6>
...
</time6>
</sunday>
...
<saturday>
...
</saturday>
</schedule>
</videoshelter>
</channel>
</content>
</body>
</envelope>

```

Response

```

<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content></content>
  </body>
</envelope>

```

Field Meaning

Refer to 7.2.Motion detection schedule (Get).

(Replace “motion detection” with “video sheltering” in the Field Meaning of 7.2.)

5.11.Video shelter event handler (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<envelope>
```

```
  <header>
```

```
    <security>username</security>
```

```
    <username>admin</username>
```

```
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
```

```
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
```

```
  </header>
```

```
  <body>
```

```
    <Command> get.alarm.videoshelter.eventhandler</Command>
```

```
    <content>
```

```
  </content>
```

```
</body>
```

```
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<envelope>
```

```
  <body>
```

```
    <error>0</error>
```

```
    content>
```

```
      <channel>
```

```
        <id>1</id>
```

```
        <videoshelter>
```

```
          <eventhandler>
```



```
<interval>5</interval>
<alarmout>false</alarmout>
<alarmoutmask>1</alarmoutmask>
<alarmdelay>10</alarmdelay>
<message>false</message>
<email>false</email>
<buzzer>false</buzzer>
<record>false</record>
<recordmask>1</recordmask>
<recorddelay>10</recorddelay>
<ptzact>false</ptzact>
<ptzlist>
</ptzlist>
<tour>false</tour>
<tourmask>1</tourmask>
<snap>false</snap>
<snapmask>1</snapmask>
<smartlight>false</smartlight>
<smartlightdelay>10</smartlightdelay>
</eventhandler>
</videoshelter>
</channel>
</content>
</body>
</envelope>
```

Field Meaning

Refer to 7.3.Motion detection event handler (Get).

(Replace “motion detection” with “video sheltering” in the Field Meaning of 7.3.)

5.12.Video shelter event handler (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

<?xml version="1.0" encoding="UTF-8"?>

<envelope>

 <header>

 <security>username</security>

 <username>admin</username>

 <password>HnJb+pOIZ9w38CBftWSXPQ==</password>

 <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>

 </header>

 <body>

 <Command> set.alarm.videoshelter.eventhandler </Command>

 content>

 <channel>

 <id>1</id>

 <videoshelter>

 <eventhandler>

 <interval>5</interval>

 <alarmout>>false</alarmout>

 <alarmoutmask>1</alarmoutmask>

 <alarmdelay>10</alarmdelay>

 <message>>false</message>

 <email>>false</email>

 <buzzer>>false</buzzer>

 <record>>false</record>

 <recordmask>1</recordmask>

 <recorddelay>10</recorddelay>

```

        <ptzact>false</ptzact>
        <ptzlist>
        </ptzlist>
        <tour>false</tour>
        <tourmask>1</tourmask>
        <snap>false</snap>
        <snapmask>1</snapmask>
        <smartlight>false</smartlight>
        <smartlightdelay>10</smartlightdelay>
    </eventhandler>
</videoshelter>
</channel>
</content>
</body>
</envelope>

```

Response

```

<?xml version="1.0" encoding="UTF-8"?>
<envelope>
    <body>
        <error>0</error>
        <content></content>
    </body>
</envelope>

```

Field Meaning

Refer to 7.3.Motion detection event handler (Get).

(Replace “motion detection” with “video sheltering” in the Field Meaning of 7.3.)

5.13.Alarm input base (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <header>
    <security>username token</security>
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <Command> get.alarm.alarmin </Command>
    <content>
    </content>
  </body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content>
      <channel>
        <id>1</id>
        <alarmin>
          <enabled>>false</enabled>
```

```

        <type>open</type>
      </alarmin>
    </channel>
  </content>
</body>
</envelope>

```

Field Meaning

channel: a channel

id: channel ID

enable: "true" means enabling alarm input, "false" means disabling that

type: sensor type of alarm input, options are "open" (normal open), "close" (normal close)

5.14.Alarm input base (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<envelope>
```

```
  <header>
```

```
    <security>usertoken</security>
```

```
    <username>admin</username>
```

```
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
```

```
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
```

```
  </header>
```

```
  <body>
```

```
    <Command>set.alarm.alarmin</Command>
```

```
    content>
```

```
      <channel>
```

```
        <id>1</id>
        <alarmin>
            <enabled>>false</enabled>
            <type>open</type>
        </alarmin>
    </channel>
</content>
</body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
    <body>
        <error>0</error>
        <content></content>
    </body>
</envelope>
```

Field Meaning

See 7.14.Alarm input base (Get)

5.15.Alarm input schedule (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
    <header>
```

```
    <security>username</security>
    <username>admin</username>
    <password>HnJb+pOlZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
</header>
<body>
  <Command> get.alarm.alarmin.schedule </Command>
  <content>
  </content>
</body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    content>
      <channel>
        <id>1</id>
        <alarmin>
          <schedule>
            <sunday>
              <time1>
                <enabled>true</enabled>
                <start>0:0:0</start>
                <end>24:0:0</end>
              </time1>
              ...
            <time6>
              ...
            </time6>
```

```

        </sunday>
        ...
        <saturday>
        ...
        </saturday>
    </schedule>
</alarmin>
</channel>
</content>
</body>
</envelope>

```

Field Meaning

Refer to 7.2.Motion detection schedule (Get).

(Replace “motion detection” with “alarm input” in the Field Meaning of 7.2.)

5.16.Alarm input schedule (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```

<?xml version="1.0" encoding="UTF-8"?>
<envelope>
    <header>
        <security>usertoken</security>
        <username>admin</username>
        <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
        <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
    </header>
    <body>

```



```
<Command> set.alarm.alarmin.schedule </Command>
content>
  <channel>
    <id>1</id>
    <alarmin>
      <schedule>
        <sunday>
          <time1>
            <enabled>true</enabled>
            <start>0:0:0</start>
            <end>24:0:0</end>
          </time1>
          ...
          <time6>
            ...
          </time6>
        </sunday>
        ...
        <saturday>
          ...
        </saturday>
      </schedule>
    </alarmin>
  </channel>
</content>
</body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
```

```
<error>0</error>
<content></content>
</body>
</envelope>
```

Field Meaning

Refer to 7.2.Motion detection schedule (Get).

(Replace “motion detection” with “alarm input” in the Field Meaning of 7.2.)

5.17.Alarm input event handler (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <header>
    <security>usertoken</security>
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <Command> get.alarm.alarminput.eventhandler</Command>
    <content>
    </content>
  </body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content>
      <channel>
        <id>1</id>
        <alarmin>
          <eventhandler>
            <interval>5</interval>
            <alarmout>>false</alarmout>
            <alarmoutmask>1</alarmoutmask>
            <alarmdelay>10</alarmdelay>
            <message>>false</message>
            <email>>false</email>
            <buzzer>>false</buzzer>
            <record>>false</record>
            <recordmask>1</recordmask>
            <recorddelay>10</recorddelay>
            <ptzact>>false</ptzact>
            <ptzlist>
            </ptzlist>
            <tour>>false</tour>
            <tourmask>1</tourmask>
            <snap>>false</snap>
            <snapmask>1</snapmask>
            <smartlight>>false</smartlight>
            <smartlightdelay>10</smartlightdelay>
          </eventhandler>
        </alarmin>
      </channel>
    </content>
  </body>
</envelope>
```

```
</body>
</envelope>
```

Field Meaning

Refer to 7.3.Motion detection event handler (Get).

(Replace “motion detection” with “alarm intpu” in the Field Meaning of 7.3.)

5.18.Alarm input event handler (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <header>
    <security>usernetoken</security>
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <Command> set.alarm.alarmin.eventhandler </Command>
    <content>
      <channel>
        <id>1</id>
        <alarmin>
          <eventhandler>
            <interval>5</interval>
            <alarmout>false</alarmout>
            <alarmoutmask>1</alarmoutmask>
```

```
        <alarmdelay>10</alarmdelay>
        <message>>false</message>
        <email>>false</email>
        <buzzer>>false</buzzer>
        <record>>false</record>
        <recordmask>1</recordmask>
        <recorddelay>10</recorddelay>
        <ptzact>>false</ptzact>
        <ptzlist>
        </ptzlist>
        <tour>>false</tour>
        <tourmask>1</tourmask>
        <snap>>false</snap>
        <snapmask>1</snapmask>
        <smartlight>>false</smartlight>
        <smartlightdelay>10</smartlightdelay>
    </eventhandler>
</alarmin>
</channel>
</content>
</body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content></content>
  </body>
</envelope>
```

Field Meaning

Refer to 7.3.Motion detection event handler (Get).

(Replace “motion detection” with “alarm intpu” in the Field Meaning of 7.3.)

5.19.Alarm output status (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<envelope>
```

```
  <header>
```

```
    <security>usertoken</security>
```

```
    <username>admin</username>
```

```
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
```

```
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
```

```
  </header>
```

```
  <body>
```

```
    <Command> get.alarm.alarmout </Command>
```

```
    <content>
```

```
  </content>
```

```
</body>
```

```
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<envelope>
```

```
  <body>
```

```
    <error>0</error>
```

```
    <content>
```

```

        <channel>
          <id>1</id>
          <alarmout>
            <type>schedule</type>
            <status>off</status>
          </alarmout>
        </channel>
      </content>
    </body>
  </envelope>

```

Field Meaning

channel: an alarmout port

id: alarmport id

alarmout: alarm output setting

type: mode of alarm output, options are "manual", "schedule", "stop"

status: status of alarm output, options are "on", "off"

5.20.Alarm output status (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<envelope>
```

```
  <header>
```

```
    <security>usertoken</security>
```

```
    <username>admin</username>
```

```
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
```

```
  <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
```

```
</header>
<body>
  <Command>set.alarm.alarmout </Command>
  <content>
    <channel>
      <id>1</id>
      <alarmout>
        <type>schedule</type>
      </alarmout>
    </channel>
  </content>
</body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content></content>
  </body>
</envelope>
```

Field Meaning

See 7.19.Alarm output status (Get)

5.21.Line crossing base (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <header>
    <security>usertoken</security>
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <Command> get.smart.linecrossing </Command>
    <content>
    </content>
  </body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content>
      <channel>
        <id>1</id>
        <linecrossing>
          <enabled>false</enabled>
          <sublist>
            <sub>
              <subid>1</subid>
              <head>0,0</head>
              <tail>0,0</tail>
              <exist>0</exist>
            </sub>
          </sublist>
        </linecrossing>
      </channel>
    </content>
  </body>
</envelope>
```

```

        <direction>a-b</direction>
        <sensitivity>50</sensitivity>
    </sub>
    ...
    <sub>
        <subid>4</subid>
        ...
    </sub>
</sublist>
<option>
    <direction>a-b,a2b,b2a</direction>
    <sensitivity>1,100</sensitivity>
</option>
</linecrossing>
</channel>
</content>
</body>
</envelope>

```

Field Meaning

channel: a channel

id: channel ID

linecrossing: line crossing detection setting

enabled: “true” means enabling line crossing detection, “false” means disabling

sublist: list of line

sub: information of a line

subid: id of a line

head: coordinate of the head of a line

tail: coordinate of the tail of a line

exist: “true” means the it is a line of interest, “false” means not

direction: the direction of crossing line

sensitivity: sensitivity of line crossing detection

option: supported option of line crossing detection setting

direction: optional direction, "a2b" means left to right, "b2a" means right to left, "a-b" means both

sensitivity: the range of sensitivity value that can be set

5.22.Line crossing base (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<envelope>
```

```
  <header>
```

```
    <security>usertoken</security>
```

```
    <username>admin</username>
```

```
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
```

```
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
```

```
  </header>
```

```
  <body>
```

```
    <Command> set.smart.linecrossing </Command>
```

```
    <content>
```

```
      <channel>
```

```
        <id>1</id>
```

```
        <linecrossing>
```

```
          <enabled>>false</enabled>
```

```
          <sublist>
```

```
            <sub>
```

```
              <subid>1</subid>
```

```
              <head>0,0</head>
```

```
              <tail>0,0</tail>
```

```
              <exist>0</exist>
```

```

        <direction>a-b</direction>
        <sensitivity>50</sensitivity>
    </sub>
    ...
    <sub>
        <subid>4</subid>
        ...
    </sub>
</sublist>
</linecrossing>
</channel>
</content>
</body>
</envelope>

```

Response

```

<?xml version="1.0" encoding="UTF-8"?>
<envelope>
    <body>
        <error>0</error>
        <content></content>
    </body>
</envelope>

```

Field Meaning

See 8.1.Line crossing base (Get)

5.23.Line crossing schedule (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <header>
    <security>usnametoken</security>
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <Command> get.smart.linecrossing.schedule </Command>
    <content>
    </content>
  </body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content>
      <channel>
        <id>1</id>
        <linecrossing>
          <schedule>
            <sunday>
              <time1>
                <enabled>true</enabled>
                <start>0:0:0</start>
                <end>24:0:0</end>
```

```

        </time1>
        ...
        <time6>
        ...
        </time6>
    </sunday>
    ...
    <saturday>
    ...
    </saturday>
</schedule>
</linecrossing>
</channel>
</content>
</body>
</envelope>

```

Field Meaning

Refer to 7.2.Motion detection schedule (Get).

(Replace “motion detection” with “line crossing detection” in the Field Meaning of 7.2.)

5.24.Line crossing schedule (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```

<?xml version="1.0" encoding="UTF-8"?>
<envelope>
    <header>
        <security>usnametoken</security>
    
```

```
<username>admin</username>
<password>HnJb+pOIZ9w38CBftWSXPQ==</password>
<nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
</header>
<body>
  <Command> set.smart.linecrossing.schedule</Command>
  <content>
    <channel>
      <id>1</id>
      <linecrossing>
        <schedule>
          <sunday>
            <time1>
              <enabled>true</enabled>
              <start>0:0:0</start>
              <end>24:0:0</end>
            </time1>
            ...
            <time6>
              ...
            </time6>
          </sunday>
          ...
          <saturday>
            ...
          </saturday>
        </schedule>
      </linecrossing>
    </channel>
  </content>
</body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content></content>
  </body>
</envelope>
```

Field Meaning

Refer to 7.2.Motion detection schedule (Get).

(Replace “motion detection” with “line crossing detection” in the Field Meaning of 7.2.)

5.25.Line crossing event handler (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <header>
    <security>usertoken</security>
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <Command> get.smart.linecrossing.eventhandler </Command>
    <content>
```



```
        </content>
    </body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content>
      <channel>
        <id>1</id>
        <linecrossing>
          <eventhandler>
            <interval>5</interval>
            <alarmout>>false</alarmout>
            <alarmoutmask>1</alarmoutmask>
            <alarmdelay>10</alarmdelay>
            <message>>false</message>
            <email>>false</email>
            <buzzer>>false</buzzer>
            <record>>false</record>
            <recordmask>1</recordmask>
            <recorddelay>10</recorddelay>
            <ptzact>>false</ptzact>
            <ptzlist>
            </ptzlist>
            <tour>>false</tour>
            <tourmask>1</tourmask>
            <snap>>false</snap>
            <snapmask>1</snapmask>
            <smartlight>>false</smartlight>
```

```

        <smartlightdelay>10</smartlightdelay>
      </eventhandler>
    </linecrossing>
  </channel>
</content>
</body>
</envelope>

```

Field Meaning

Refer to 7.3.Motion detection event handler (Get).

(Replace “motion detection” with “line crossing detection” in the Field Meaning of 7.3.)

5.26.Line crossing event handler (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<envelope>
```

```
  <header>
```

```
    <security>username token</security>
```

```
    <username>admin</username>
```

```
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
```

```
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
```

```
  </header>
```

```
  <body>
```

```
    <Command> set.smart.linecrossing.eventhandler</Command>
```

```
    <content>
```

```
      <channel>
```

```
        <id>1</id>
```

```

<linecrossing>
  <eventhandler>
    <interval>5</interval>
    <alarmout>>false</alarmout>
    <alarmoutmask>1</alarmoutmask>
    <alarmdelay>10</alarmdelay>
    <message>>false</message>
    <email>>false</email>
    <buzzer>>false</buzzer>
    <record>>false</record>
    <recordmask>1</recordmask>
    <recorddelay>10</recorddelay>
    <ptzact>>false</ptzact>
    <ptzlist>
    </ptzlist>
    <tour>>false</tour>
    <tourmask>1</tourmask>
    <snap>>false</snap>
    <snapmask>1</snapmask>
    <smartlight>>false</smartlight>
    <smartlightdelay>10</smartlightdelay>
  </eventhandler>
</linecrossing>
</channel>
</content>
</body>
</envelope>

```

Response

```

<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>

```

```
<error>0</error>
<content></content>
</body>
</envelope>
```

Field Meaning

Refer to 7.3.Motion detection event handler (Get).

(Replace “motion detection” with “line crossing detection” in the Field Meaning of 7.3.)

5.27.Area intrusion base (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <header>
    <security>usertoken</security>
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <Command> get.smart.areaintrusion</Command>
    <content>
    </content>
  </body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content>
      <channel>
        <id>1</id>
        <areaintrusion>
          <enabled>false</enabled>
          <sublist>
            <sub>
              <subid>1</subid>
              <area>
                <a>0,0</a>
                <b>0,0</b>
                <c>0,0</c>
                <d>0,0</d>
              </area>
              <exist>0</exist>
              <timethreshold>0</timethreshold>
              <sensitivity>50</sensitivity>
              <percent>1</percent>
            </sub>
            ...
            <sub>
              <subid>4</subid>
              ...
            </sub>
          </sublist>
        </areaintrusion>
      </channel>
    </content>
```

```
</body>
</envelope>
```

Field Meaning

channel: a channel

id: channel ID

areaintrusion: area intrusion detection setting

enabled: "true" means enabling area intrusion detection

sublist: list of region

sub: one region, which is a convex quadrilateral and determined by 4 points

subid: ID of region

area: position of region

a: coordinate of the first point (max 8192)

b: coordinate of the second point (max 8192)

c: coordinate of the third point (max 8192)

d: coordinate of the fourth point (max 8192)

exist: "true" means it is a region of interest, "false" means not

timethreshold: one prerequisite of area intrusion event triggered is the time duration of area intrusion reach this value. (range 0-10 sec)

sensitivity: sensitivity of area intrusion detection.(range 1-100)

percent: one prerequisite of area intrusion event triggered is the percentage of covered area of area intrusion reach this value.

5.28.Area intrusion base (set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<envelope>
```

```
  <header>
```

```
    <security>usnametoken</security>
```

```
<username>admin</username>
<password>HnJb+pOIZ9w38CBftWSXPQ==</password>
<nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
</header>
<body>
  <Command> set.smart.areaintrusion </Command>
  <content>
    <channel>
      <id>1</id>
      <areaintrusion>
        <enabled>false</enabled>
        <sublist>
          <sub>
            <subid>1</subid>
            <area>
              <a>0,0</a>
              <b>0,0</b>
              <c>0,0</c>
              <d>0,0</d>
            </area>
            <exist>0</exist>
            <timethreshold>0</timethreshold>
            <sensitivity>50</sensitivity>
            <percent>1</percent>
          </sub>
          ...
          <sub>
            <subid>4</subid>
            ...
          </sub>
        </sublist>
      </areaintrusion>
    </channel>
  </content>
</body>
```

```
        </channel>
    </content>
</body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
    <body>
        <error>0</error>
        <content></content>
    </body>
</envelope>
```

Field Meaning

See 8.7.Area intrusion base (Get)

5.29.Area intrusion schedule (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
    <header>
        <security>usnametoken</security>
        <username>admin</username>
        <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
        <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
    </header>
```



```
<body>
  <Command> get.smart.areaintrusion.schedule </Command>
  <content>
  </content>
</body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content>
      <channel>
        <id>1</id>
        <areaintrusion>
          <schedule>
            <sunday>
              <time1>
                <enabled>true</enabled>
                <start>0:0:0</start>
                <end>24:0:0</end>
              </time1>
              ...
              <time6>
                ...
              </time6>
            </sunday>
            ...
            <saturday>
              ...
            </saturday>
```

```
        </schedule>
      </areaintrusion>
    </channel>
  </content>
</body>
</envelope>
```

Field Meaning

Refer to 7.2.Motion detection schedule (Get).

(Replace “motion detection” with “area intrusion detection” in the Field Meaning of 7.2.)

5.30.Area intrusion schedule (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <header>
    <security>usertoken</security>
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <Command> set.smart.areaintrusion.schedule</Command>
    <content>
      <channel>
        <id>1</id>
        <areaintrusion>
```

```
<schedule>
  <sunday>
    <time1>
      <enabled>true</enabled>
      <start>0:0:0</start>
      <end>24:0:0</end>
    </time1>
    ...
    <time6>
      ...
    </time6>
  </sunday>
  ...
  <saturday>
    ...
  </saturday>
</schedule>
</areaintrusion>
</channel>
</content>
</body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content></content>
  </body>
</envelope>
```

Field Meaning

Refer to 7.2.Motion detection schedule (Get).

(Replace “motion detection” with “area intrusion detection” in the Field Meaning of 7.2.)

5.31.Area intrusion event handler (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <header>
    <security>usertoken</security>
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <Command> get.smart.areaintrusion.eventhandler</Command>
    <content>
    </content>
  </body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content>
```

```
<channel>
  <id>1</id>
  <areaintrusion>
    <eventhandler>
      <interval>5</interval>
      <alarmout>false</alarmout>
      <alarmoutmask>1</alarmoutmask>
      <alarmdelay>10</alarmdelay>
      <message>false</message>
      <email>false</email>
      <buzzer>false</buzzer>
      <record>false</record>
      <recordmask>1</recordmask>
      <recorddelay>10</recorddelay>
      <ptzact>false</ptzact>
      <ptzlist>
      </ptzlist>
      <tour>false</tour>
      <tourmask>1</tourmask>
      <snap>false</snap>
      <snapmask>1</snapmask>
      <smartlight>false</smartlight>
      <smartlightdelay>10</smartlightdelay>
    </eventhandler>
  </areaintrusion>
</channel>
</content>
</body>
</envelope>
```

Field Meaning

Refer to 7.3.Motion detection event handler (Get).

(Replace “motion detection” with “area intrusion detection” in the Field Meaning of 7.3.)

5.32.Area intrusion event handler (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

<?xml version="1.0" encoding="UTF-8"?>

<envelope>

 <header>

 <security>usnametoken</security>

 <username>admin</username>

 <password>HnJb+pOIZ9w38CBftWSXPQ==</password>

 <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>

 </header>

 <body>

 <Command> set.smart.areaintrusion.eventhandler </Command>

 <content>

 <channel>

 <id>1</id>

 <areaintrusion>

 <eventhandler>

 <interval>5</interval>

 <alarmout>>false</alarmout>

 <alarmoutmask>1</alarmoutmask>

 <alarmdelay>10</alarmdelay>

 <message>>false</message>

 <email>>false</email>

 <buzzer>>false</buzzer>

 <record>>false</record>

```

        <recordmask>1</recordmask>
        <recorddelay>10</recorddelay>
        <ptzact>false</ptzact>
        <ptzlist>
        </ptzlist>
        <tour>false</tour>
        <tourmask>1</tourmask>
        <snap>false</snap>
        <snapmask>1</snapmask>
        <smartlight>false</smartlight>
        <smartlightdelay>10</smartlightdelay>
    </eventhandler>
</areaintrusion>
</channel>
</content>
</body>
</envelope>

```

Response

```

<?xml version="1.0" encoding="UTF-8"?>
<envelope>
    <body>
        <error>0</error>
        <content></content>
    </body>
</envelope>

```

Field Meaning

Refer to 7.3.Motion detection event handler (Get).

(Replace “motion detection” with “area intrusion detection” in the Field Meaning of 7.3.)

5.33.Object left base(Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

Refer to 5.1.Motion detection base (Get).

Replace “get.alarm.motiondetection” with “get.smart.unattendedobject” in the Field named “command”.

Response

Refer to 5.1.Motion detection base (Set).

Field Meaning

Refer to 5.1.Motion detection base (Get).

5.34.Object left base(Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

Refer to 5.2.Motion detection base (Set).

Replace “set.alarm.motiondetection” with “set.smart.unattendedobject” in the Field named “command”.

Response

Refer to 5.2.Motion detection base (Set).

Field Meaning

Refer to 5.1.Motion detection base (Get).

5.35.Object left schedule (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

Refer to 5.3.Motion detection schedule (Get).

Replace “get.alarm.motiondetection.schedule” with “get.smart.unattendedobject.schedule” in the Field named “command”.

Response

Refer to 5.3.Motion detection schedule (Get).

Field Meaning

Refer to 5.3.Motion detection schedule (Get).

5.36. Object left schedule (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

Refer to 5.4.Motion detection schedule (Set).

Replace “set.alarm.motiondetection.schedule” with “set.smart.unattendedobject.schedule” in the Field named “command”.

Response

Refer to 5.3.Motion detection schedule (Set).

Field Meaning

Refer to 5.3.Motion detection schedule (Get).

5.37. Object left event handler (Get)

Request

Refer to 5.5.Motion detection event handler (Get).

Replace “get.alarm.motiondetection.eventhandler” with “get.smart.unattendedobject.eventhandler” in the Field named “command”.

Response

Refer to 5.5.Motion detection event handler (Set).

Field Meaning

Refer to 5.5.Motion detection event handler (Get).

5.38. Object left event handler (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

Refer to 5.6.Motion detection event handler (Set).

Replace “set.alarm.motiondetection.eventhandler” with “set.smart.unattendedobject.eventhandler” in the Field named “command”.

Response

Refer to 5.6.Motion detection event handler (Set).

Field Meaning

Refer to 5.5.Motion detection event handler (Get).

5.39.Object losing base (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

Refer to 5.1.Motion detection base (Get).

Replace “get.alarm.motiondetection” with “get.smart. objectmissing” in the Field named “command”.

Response

Refer to 5.1.Motion detection base (Set).

Field Meaning

Refer to 5.1.Motion detection base (Get).

5.40. Object losing base (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

Refer to 5.2.Motion detection base (Set).

Replace “set.alarm.motiondetection” with “set.smart.objectmissing” in the Field named “command”.

Response

Refer to 5.2.Motion detection base (Set).

Field Meaning

Refer to 5.1.Motion detection base (Get).

5.41. Object losing schedule (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

Refer to 5.3.Motion detection schedule (Get).

Replace “get.alarm.objectmissing.schedule” with “get.smart. objectmissing.schedule” in the Field named “command”.

Response

Refer to 5.3.Motion detection schedule (Get).

Field Meaning

Refer to 5.3.Motion detection schedule (Get).

5.42. Object losing schedule (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Refer to 5.4.Motion detection schedule (Set).

Replace “set.alarm.objectmissing.schedule” with “set.smart. objectmissing.schedule” in the Field named “command”.

Response

Refer to 5.3.Motion detection schedule (Set).

Field Meaning

Refer to 5.3.Motion detection schedule (Get).

5.43. Object losing event handler (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

Refer to 5.5.Motion detection event handler (Get).

Replace “get.alarm.motiondetection.eventhandler” with “get.smart. objectmissing.eventhandler” in the Field named “command”.

Response

Refer to 5.5.Motion detection event handler (Set).

Field Meaning

Refer to 5.5.Motion detection event handler (Get).

5.44. Object losing event handler (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

Refer to 5.6.Motion detection event handler (Set).

Replace “set.alarm.motiondetection.eventhandler” with “set.smart. objectmissing.eventhandler” in the Field named “command”.

Response

Refer to 5.6.Motion detection event handler (Set).

Field Meaning

Refer to 5.5.Motion detection event handler (Get).

5.45.Area in base (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

Refer to 5.1.Motion detection base (Get).

Replace “get.alarm.motiondetection” with “get.smart. regionentrance” in the Field named “command”.

Response

Refer to 5.1.Motion detection base (Set).

Field Meaning

Refer to 5.1.Motion detection base (Get).

5.46. Area in base (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

Refer to 5.2.Motion detection base (Set).

Replace “set.alarm.motiondetection” with “set.smart. regionentrance” in the Field named “command”.

Response

Refer to 5.2.Motion detection base (Set).

Field Meaning

Refer to 5.1.Motion detection base (Get).

5.47. Area in schedule (Get)

Command

POST <http://192.168.12.91/tdkcgj>

Request

Refer to 5.3.Motion detection schedule (Get).

Replace “get.alarm.motiondetection.schedule” with “get.smart. regionentrance.schedule” in the Field named “command”.

Response

Refer to 5.3.Motion detection schedule (Get).

Field Meaning

Refer to 5.3.Motion detection schedule (Get).

5.48. Area in schedule (Set)

Command

POST <http://192.168.12.91/tdkcgj>

Refer to 5.4.Motion detection schedule (Set).

Replace “set.alarm.objectmissing.schedule” with “set.smart. regionentrance.schedule” in the Field named “command”.

Response

Refer to 5.3.Motion detection schedule (Set).

Field Meaning

Refer to 5.3.Motion detection schedule (Get)

5.49. Area in event handler (Get)

Command

POST <http://192.168.12.91/tdkcgj>

Request

Refer to 5.5.Motion detection event handler (Get).

Replace “get.alarm.motiondetection.eventhandler” with “get.smart. regionentrance.eventhandler” in the Field named “command”.

Response

Refer to 5.5.Motion detection event handler (Set).

Field Meaning

Refer to 5.5.Motion detection event handler (Get).

5.50. Area in event handler (Set)

Command

POST <http://192.168.12.91/tdkcgj>

Request

Refer to 5.6.Motion detection event handler (Set).

Replace “set.alarm.motiondetection.eventhandler” with “set.smart. regionentrance.eventhandler” in the Field named “command”.

Response

Refer to 5.6.Motion detection event handler (Set).

Field Meaning

Refer to 5.5.Motion detection event handler (Get).

5.51. Area out base (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

Refer to 5.1.Motion detection base (Get).

Replace “get.alarm.motiondetection” with “get.smart. regionexiting” in the Field named “command”.

Response

Refer to 5.1.Motion detection base (Set).

Field Meaning

Refer to 5.1.Motion detection base (Get).

5.52. Area out base (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

Refer to 5.2.Motion detection base (Set).

Replace “set.alarm.motiondetection” with “set.smart. regionexiting” in the Field named “command”.

Response

Refer to 5.2.Motion detection base (Set).

Field Meaning

Refer to 5.1.Motion detection base (Get).

5.53. Area out schedule (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

Refer to 5.3.Motion detection schedule (Get).

Replace “get.alarm.motiondetection.schedule” with “get.smart. regionexiting.schedule” in the Field named “command”.

Response

Refer to 5.3.Motion detection schedule (Get).

Field Meaning

Refer to 5.3.Motion detection schedule (Get).

5.54. Area out schedule (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Refer to 5.4.Motion detection schedule (Set).

Replace “set.alarm.objectmissing.schedule” with “set.smart. regionexiting.schedule” in the Field named “command”.

Response

Refer to 5.3.Motion detection schedule (Set).

Field Meaning

Refer to 5.3.Motion detection schedule (Get)

5.55. Area out event handler (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

Refer to 5.5.Motion detection event handler (Get).

Replace “get.alarm.motiondetection.eventhandler” with “get.smart. regionexiting.eventhandler” in the Field named “command”.

Response

Refer to 5.5.Motion detection event handler (Set).

Field Meaning

Refer to 5.5.Motion detection event handler (Get).

5.56. Area out event handler (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

Refer to 5.6.Motion detection event handler (Set).

Replace “set.alarm.motiondetection.eventhandler” with “set.smart. regionexiting.eventhandler” in the Field named “command”.

Response

Refer to 5.6.Motion detection event handler (Set).

Field Meaning

Refer to 5.5.Motion detection event handler (Get).

5.57.Fast moving base(Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

Refer to 5.1.Motion detection base (Get).

Replace “get.alarm.motiondetection” with “get.smart. fastmoving” in the Field named “command”.

Response

Refer to 5.1.Motion detection base (Set).

Field Meaning

Refer to 5.1.Motion detection base (Get).

5.58. Fast moving base (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

Refer to 5.2.Motion detection base (Set).

Replace “set.alarm.motiondetection” with “set.smart. fastmoving” in the Field named “command”.

Response

Refer to 5.2.Motion detection base (Set).

Field Meaning

Refer to 5.1.Motion detection base (Get).

5.59. Fast moving schedule (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

Refer to 5.3.Motion detection schedule (Get).

Replace “get.alarm.motiondetection.schedule” with “get.smart. fastmoving.schedule” in the Field named “command”.

Response

Refer to 5.3.Motion detection schedule (Get).

Field Meaning

Refer to 5.3.Motion detection schedule (Get).

5.60. Fast moving schedule (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Refer to 5.4.Motion detection schedule (Set).

Replace “set.alarm.objectmissing.schedule” with “set.smart. fastmoving.schedule” in the Field named “command”.

Response

Refer to 5.3.Motion detection schedule (Set).

Field Meaning

Refer to 5.3.Motion detection schedule (Get)

5.61. Fast moving event handler (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

Refer to 5.5.Motion detection event handler (Get).

Replace “get.alarm.motiondetection.eventhandler” with “get.smart. fastmoving.eventhandler” in the Field named “command”.

Response

Refer to 5.5.Motion detection event handler (Set).

Field Meaning

Refer to 5.5.Motion detection event handler (Get).

5.62. Fast moving event handler (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

Refer to 5.6.Motion detection event handler (Set).

Replace “set.alarm.motiondetection.eventhandler” with “set.smart. fastmoving.eventhandler” in the Field named “command”.

Response

Refer to 5.6.Motion detection event handler (Set).

Field Meaning

Refer to 5.5.Motion detection event handler (Get).

5.63.Face detection base (Get)

Command

POST <http://192.168.12.91/tdkcgj>

Request

Refer to 5.1.Motion detection base (Get).

Replace “get.alarm.motiondetection” with “get.smart. facedetection” in the Field named “command”.

Response

Refer to 5.1.Motion detection base (Set).

Field Meaning

Refer to 5.1.Motion detection base (Get).

5.64. Face detection base (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

Refer to 5.2.Motion detection base (Set).

Replace “set.alarm.motiondetection” with “set.smart. facedetection” in the Field named “command”.

Response

Refer to 5.2.Motion detection base (Set).

Field Meaning

Refer to 5.1.Motion detection base (Get).

5.65. Face detection schedule (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

Refer to 5.3.Motion detection schedule (Get).

Replace “get.alarm.motiondetection.schedule” with “get.smart. facedetection.schedule” in the Field named “command”.

Response

Refer to 5.3.Motion detection schedule (Get).

Field Meaning

Refer to 5.3.Motion detection schedule (Get).

5.66. Face detection schedule (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Refer to 5.4.Motion detection schedule (Set).

Replace “set.alarm.objectmissing.schedule” with “set.smart. facedetection.schedule” in the Field named “command”.

Response

Refer to 5.3.Motion detection schedule (Set).

Field Meaning

Refer to 5.3.Motion detection schedule (Get)

5.67. Face detection event handler (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

Refer to 5.5.Motion detection event handler (Get).

Replace “get.alarm.motiondetection.eventhandler” with “get.smart. facedetection.eventhandler” in the Field named “command”.

Response

Refer to 5.5.Motion detection event handler (Set).

Field Meaning

Refer to 5.5.Motion detection event handler (Get).

5.68. Face detection event handler (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

Refer to 5.6.Motion detection event handler (Set).

Replace “set.alarm.motiondetection.eventhandler” with “set.smart. facedetection.eventhandler” in the Field named “command”.

Response

Refer to 5.6.Motion detection event handler (Set).

Field Meaning

Refer to 5.5.Motion detection event handler (Get).

5.69. Area park base(Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

Refer to 5.1.Motion detection base (Get).

Replace “get.alarm.motiondetection” with “get.smart. parkingdetection” in the Field named “command”.

Response

Refer to 5.1.Motion detection base (Set).

Field Meaning

Refer to 5.1.Motion detection base (Get).

5.70. Area park base (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

Refer to 5.2.Motion detection base (Set).

Replace “set.alarm.motiondetection” with “set.smart. parkingdetection” in the Field named “command”.

Response

Refer to 5.2.Motion detection base (Set).

Field Meaning

Refer to 5.1.Motion detection base (Get).

5.71. Area park schedule (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

Refer to 5.3.Motion detection schedule (Get).

Replace “get.alarm.motiondetection.schedule” with “get.smart. parkingdetection.schedule” in the Field named “command”.

Response

Refer to 5.3.Motion detection schedule (Get).

Field Meaning

Refer to 5.3.Motion detection schedule (Get).

5.72. Area park schedule (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Refer to 5.4.Motion detection schedule (Set).

Replace “set.alarm.objectmissing.schedule” with “set.smart. parkingdetection.schedule” in the Field named “command”.

Response

Refer to 5.3.Motion detection schedule (Set).

Field Meaning

Refer to 5.3.Motion detection schedule (Get)

5.73. Area park event handler (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

Refer to 5.5.Motion detection event handler (Get).

Replace “get.alarm.motiondetection.eventhandler” with “get.smart. parkingdetection.eventhandler” in the Field named “command”.

Response

Refer to 5.5.Motion detection event handler (Set).

Field Meaning

Refer to 5.5.Motion detection event handler (Get).

5.74. Area park event handler (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

Refer to 5.6.Motion detection event handler (Set).

Replace “set.alarm.motiondetection.eventhandler” with “set.smart. parkingdetection.eventhandler” in the Field named “command”.

Response

Refer to 5.6.Motion detection event handler (Set).

Field Meaning

Refer to 5.5.Motion detection event handler (Get).

5.75. Wandering detection base (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

Refer to 5.1.Motion detection base (Get).

Replace “get.alarm.motiondetection” with “get.smart. loiteringdetection” in the Field named “command”.

Response

Refer to 5.1.Motion detection base (Set).

Field Meaning

Refer to 5.1.Motion detection base (Get).

5.76. Wandering detection base (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

Refer to 5.2.Motion detection base (Set).

Replace “set.alarm.motiondetection” with “set.smart. loiteringdetection” in the Field named “command”.

Response

Refer to 5.2.Motion detection base (Set).

Field Meaning

Refer to 5.1.Motion detection base (Get).

5.77. Wandering detection schedule (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

Refer to 5.3.Motion detection schedule (Get).

Replace “get.alarm.motiondetection.schedule” with “get.smart. loiteringdetection.schedule” in the Field named “command”.

Response

Refer to 5.3.Motion detection schedule (Get).

Field Meaning

Refer to 5.3.Motion detection schedule (Get).

5.78. Wandering detection schedule(Set)

Command

POST <http://192.168.12.91/tdkcgi>

Refer to 5.4.Motion detection schedule (Set).

Replace “set.alarm.objectmissing.schedule” with “set.smart.loiteringdetection.schedule” in the Field named “command”.

Response

Refer to 5.3.Motion detection schedule (Set).

Field Meaning

Refer to 5.3.Motion detection schedule (Get)

5.79. Wandering detection event handler (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

Refer to 5.5.Motion detection event handler (Get).

Replace “get.alarm.motiondetection.eventhandler” with “get.smart.loiteringdetection.eventhandler” in the Field named “command”.

Response

Refer to 5.5.Motion detection event handler (Set).

Field Meaning

Refer to 5.5.Motion detection event handler (Get).

5.80. Wandering detection event handler (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

Refer to 5.6.Motion detection event handler (Set).

Replace “set.alarm.motiondetection.eventhandler” with “set.smart. loiteringdetection.eventhandler” in the Field named “command”.

Response

Refer to 5.6.Motion detection event handler (Set).

Field Meaning

Refer to 5.5.Motion detection event handler (Get).

5.81. Gathering detection base (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

Refer to 5.1.Motion detection base (Get).

Replace “get.alarm.motiondetection” with “get.smart. gatheringdetection” in the Field named “command”.

Response

Refer to 5.1.Motion detection base (Set).

Field Meaning

Refer to 5.1.Motion detection base (Get).

5.82. Gathering detection base (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

Refer to 5.2.Motion detection base (Set).

Replace “set.alarm.motiondetection” with “set.smart. gatheringdetection” in the Field named “command”.

Response

Refer to 5.2.Motion detection base (Set).

Field Meaning

Refer to 5.1.Motion detection base (Get).

5.83. Gathering detection schedule (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

Refer to 5.3.Motion detection schedule (Get).

Replace “get.alarm.motiondetection.schedule” with “get.smart. gatheringdetection.schedule” in the Field named “command”.

Response

Refer to 5.3.Motion detection schedule (Get).

Field Meaning

Refer to 5.3.Motion detection schedule (Get).

5.84. Gathering detection schedule (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Refer to 5.4.Motion detection schedule (Set).

Replace “set.alarm.objectmissing.schedule” with “set.smart. gatheringdetection.schedule” in the Field named “command”.

Response

Refer to 5.3.Motion detection schedule (Set).

Field Meaning

Refer to 5.3.Motion detection schedule (Get)

5.85. Gathering detection event handler (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

Refer to 5.5.Motion detection event handler (Get).

Replace “get.alarm.motiondetection.eventhandler” with “get.smart. gatheringdetection.eventhandler” in the Field named “command”.

Response

Refer to 5.5.Motion detection event handler (Set).

Field Meaning

Refer to 5.5.Motion detection event handler (Get).

5.86. Gathering detection event handler (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

Refer to 5.6.Motion detection event handler (Set).

Replace “set.alarm.motiondetection.eventhandler” with “set.smart. gatheringdetection.eventhandler” in the Field named “command”.

Response

Refer to 5.6.Motion detection event handler (Set).

Field Meaning

Refer to 5.5.Motion detection event handler (Get).

5.87. Video loss base (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

Refer to 5.1.Motion detection base (Get).

Replace “get.alarm.motiondetection” with “get.alarm.videolost” in the Field named “command”.

Response

Refer to 5.1.Motion detection base (Set).

Field Meaning

Refer to 5.1.Motion detection base (Get).

5.88. Video loss base (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

Refer to 5.2.Motion detection base (Set).

Replace “set.alarm.motiondetection” with “set.alarm.videolost” in the Field named “command”.

Response

Refer to 5.2.Motion detection base (Set).

Field Meaning

Refer to 5.1.Motion detection base (Get).

5.89. Video loss schedule (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

Refer to 5.3.Motion detection schedule (Get).

Replace “get.alarm.motiondetection.schedule” with “get.alarm.videolost.schedule” in the Field named “command”.

Response

Refer to 5.3.Motion detection schedule (Get).

Field Meaning

Refer to 5.3.Motion detection schedule (Get).

5.90. Video loss schedule (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Refer to 5.4.Motion detection schedule (Set).

Replace “set.alarm.objectmissing.schedule” with “set.alarm.videolost.schedule” in the Field named “command”.

Response

Refer to 5.3.Motion detection schedule (Set).

Field Meaning

Refer to 5.3.Motion detection schedule (Get)

5.91. Video loss event handler (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

Refer to 5.5.Motion detection event handler (Get).

Replace “get.alarm.motiondetection.eventhandler” with “get.alarm.videolost.eventhandler” in the Field named “command”.

Response

Refer to 5.5.Motion detection event handler (Set).

Field Meaning

Refer to 5.5.Motion detection event handler (Get).

5.92. Video loss event handler (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

Refer to 5.6.Motion detection event handler (Set).

Replace “set.alarm.motiondetection.eventhandler” with “set.alarm.videolost.eventhandler” in the Field named “command”.

Response

Refer to 5.6.Motion detection event handler (Set).

Field Meaning

Refer to 5.5.Motion detection event handler (Get).

6. Storage Setting

6.1.Record config (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="utf-8"?>
<envelope>
  <header>
    <security>usertoken</security>
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <command>get.record.config</command>
    <content>
      <channel>1</channel>
    </content>
  </body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content>
      <channel>
        <id>1</id>
        <recordconfig>
          <recordstream>main</recordstream>
          <prerecord>5</prerecord>
          <redundancy>false</redundancy>
          <packetlength>60</packetlength>
          <recordcontrol>schedule</recordcontrol>
        </recordconfig>
      </channel>
    </content>
  </body>
</envelope>
```

```

    <schedule>
      <sunday>
        <time1>
          <type>md,alarm</type>
          <start>00:00:00</start>
          <end>24:00:00</end>
        </time1>
        ...
        <time6>
          ...
        </time6>
      </sunday>
      ...
      <saturday>
        ...
      </saturday>
    </schedule>
  </recordconfig>
</channel>
</content>
</body>
</envelope>

```

Field Meaning

channel: there is only one channel in IPC

id: channel ID

recordconfig: the config of record

recordstream: the stream type of record

prerecord: pre-record for the specified seconds

redundancy: 'true' means enable, 'false' means not

packetlength: length of packetlength

recordcontrol: the method of control record

schedule: the arrangement of schedule
sunday: day of the week
time1: the first period
type: the type of record
start: time of start recording
end: time pf end recording

6.2.Record config (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="utf-8"?>
<envelope>
  <header>
    <security>usnametoken</security>
    <username>admin</username>
    <password>HnJb+pOlZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <command>set.record.config</command>
    <content>
      <channel>
        <id>1</id>
        <recordconfig>
          <recordstream>main</recordstream>
          <prerecord>5</prerecord>
          <redundancy>false</redundancy>
          <packetlength>60</packetlength>
```

```
<recordcontrol>schedule</recordcontrol>
<schedule>
  <sunday>
    <time1>
      <type>md,alarm</type>
      <start>00:00:00</start>
      <end>24:00:00</end>
    </time1>
    ...
    <time6>
      ...
    </time6>
  </sunday>
  ...
  <saturday>
    ...
  </saturday>
</schedule>
</recordconfig>
</channel>
</content>
</body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content>(null)</content>
  </body>
</envelope>
```

Field Meaning

See 3.1.Record config(Get)

6.3.Record control (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="utf-8"?>
<envelope>
  <header>
    <security>usnametoken</security>
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <command>get.record.control</command>
    <content/>
  </body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content>
      <channel>
```

```

        <id>1</id>
      <record>
        <mode>schedule</mode>
        <supported>stop,manual,schedule</supported>
      </record>
    </channel>
  </content>
</body>
</envelope>

```

Field Meaning

channel: there is only one channel in IPC

id: channel ID

record: record control

mode: the current mode

supported: supported mode

6.4.Record control (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```

<?xml version="1.0" encoding="utf-8"?>
<envelope>
  <header>
    <security>usertoken</security>
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>

```

```
<body>
  <command>set.record.control</command>
  <content>
    <channel>
      <id>1</id>
      <record>
        <mode>schedule</mode>
      </record>
    </channel>
  </content>
</body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content/>
  </body>
</envelope>
```

Field Meaning

See 3.1.Record control(Get)

6.5.Snapshot (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <header>
    <security>usnametoken</security>
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <command> get.snapshotsetting</command>
    <content></content>
  </body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <channel>
      <id>1</id>
      <snapshot>
        <format>
          <pictureformat>
            <value>jpeg</value>
            <supported>jpeg</supported>
          </pictureformat>
          <resolution>
            <value>0:704x480</value>
            <supported>0:704x480,9:1280x720,10:1920x1080</supported>
          </resolution>
          <quality>
```

```
        <value>3</value>
        <supported>1,2,3,4,5,6</supported>
    </quality>
</format>
<worksheet>
    <snaptype>
        <value>time</value>
        <supported>time,alarm,event</supported>
    </snaptype>
    <timesnapshot>
        <enabled>false</enabled>
        <interval>
            <value>1000</value>
            <unit>ms</unit>
            <supportedunit>ms,sec,min,hour,day</supportedunit>
            <range>1000ms:604800000ms</range>
        </interval>
        <schedule>
            <sunday>
                <time1>
                    <start>0:0:0</start>
                    <end>24:0:0</end>
                    <enabled>true</enabled>
                </time1>
                <time2>
                    ...
                </time2>
                ...
                <time6>
                    ...
                </time6>
            </sunday>
```

```
<monday>
  ...
</monday>
<tuesday>
  ...
</tuesday>
<wednesday>
  ...
</wednesday>
<thursday>
  ...
</thursday>
<friday>
  ...
</friday>
<saturday>
  ...
</saturday>
</schedule>
</timesnapshot>
<alarmsnapshot>
  <enabled>true</enabled>
  <interval>
    <value>1000</value>
    <unit>ms</unit>
    <supportedunit>ms,sec</supportedunit>
    <range>1000ms:65000ms</range>
  </interval>
  <snapcount>
    <value>1</value>
    <range>1:20</range>
  </snapcount>
```



```

        </alarmsnapshot>
        <eventsnapshot>
            <enabled>true</enabled>
            <interval>
                <value>1000</value>
                <unit>ms</unit>
                <supportedunit>ms,sec</supportedunit>
                <range>1000ms:65000ms</range>
            </interval>
            <snapcount>
                <value>1</value>
                <range>1:20</range>
            </snapcount>
        </eventsnapshot>
    </worksheet>
</snapshot>
</channel>
</content>
</body>
</envelope>

```

Field Meaning

channel: there is only one channel in IPC

id: channel ID

snapshot: snapshot setting

format: format of snapshot picture

pictureformat: compression format of picture

value: current selected compression format

supported: supported compression format

resolution: picture resolution (resolution id: width x height)

value: current selected resolution

supported: supported resolution

quality: image quality level
value: current selected level
supported: supported level, '1' means lowest, '2' means low, '3' means standard, '4' means good, '5' means better, '6' means best
worksheet: worksheet of snapshot
snaptype: type of snapshot
value: current selected type
supported: supported type
timesnapshot: timing snapshot setting
enabled: "true" means enabling timing snapshot, "false" means disabling that
interval: minimum time interval between two snapshot
unit: unit of interval
supportedunit: supported unit
range: range of interval time that can be set
schedule: schedule setting of timing snapshot
day(day=sunday,monday,tuesday,wednesday,thursday,friday,saturday): day of schedule
timeX(X=1,2,3,...,6): a time section of each day
start: start time of a time section
end: end time of a time section
enabled: "true" means enabling snapshot in a time section, "false" means disabling that
alarmsnapshot: alarm triggered snapshot setting
enabled: "true" means enabling alarm snapshot, "false" means disabling that
interval, value, unit, supportedunit, range: see interval above
snapcount: the number of continual snapshot to make after alarm triggered.
value: current value of snapcount
range: range of value that can be set
eventsnapshot: event triggered snapshot setting

6.6.Snapshot (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <header>
    <security>usnametoken</security>
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <command>set.snapshotsetting</command>
    <content>
      <channel>
        <id>1</id>
        <snapshot>
          <format>
            <pictureformat>
              <value>jpeg</value>
            </pictureformat>
            <resolution>
              <value>0:704x480</value>
            </resolution>
            <quality>
              <value>3</value>
            </quality>
          </format>
          <worksheet>
            <timesnapshot>
              <enabled>>false</enabled>
            <interval>
              <value>1000</value>
            </interval>
          </worksheet>
        </snapshot>
      </channel>
    </content>
  </body>
</envelope>
```

```
        <unit>ms</unit>
</interval>
<schedule>
  <sunday>
    <time1>
      <start>0:0:0</start>
      <end>24:0:0</end>
      <enabled>true</enabled>
    </time1>
    <time2>
      ...
    </time2>
    ...
    <time6>
      ...
    </time6>
  </sunday>
  <monday>
    ...
  </monday>
  <tuesday>
    ...
  </tuesday>
  <wednesday>
    ...
  </wednesday>
  <thursday>
    ...
  </thursday>
  <friday>
    ...
  </friday>
```

```
        <saturday>
            ...
        </saturday>
    </schedule>
</timesnapshot>
<alarmsnapshot>
    <enabled>true</enabled>
    <interval>
        <value>1000</value>
        <unit>ms</unit>
    </interval>
    <snapcount>
        <value>1</value>
    </snapcount>
</alarmsnapshot>
<eventsnapshot>
    <enabled>true</enabled>
    <interval>
        <value>1000</value>
        <unit>ms</unit>
    </interval>
    <snapcount>
        <value>1</value>
    </snapcount>
</eventsnapshot>
</worksheet>
</snapshot>
</channel>
</content>
</body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content>(null)</content>
  </body>
</envelope>
```

Field Meaning

See 4.1.Snapshot (Get)

6.7.Storage plan(get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="utf-8"?>
<envelope>
  <header>
    <security>usertoken</security>
    <username>admin</username>
    <password>HnJb+pOlZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <command>get.hdd.base</command>
    <content/>
  </body>
```

</envelope>

Response

<?xml version="1.0" encoding="UTF-8"?>

<envelope>

 <body>

 <error>0</error>

 <content>

 <hdd>

 <base>

 <groupmax>1</groupmax>

 <hddmax>1</hddmax>

 <nasmax>8</nasmax>

 <datalist>

 <data>

 <exist>>false</exist>

 <diskid>1</diskid>

 <status>nodisk</status>

 </data>

 ...

 </datalist>

 <totalsum>0</totalsum>

 <freesum>0</freesum>

 <recordcapacity>0</recordcapacity>

 <recordused>0</recordused>

 <picturecapacity>0</picturecapacity>

 <pictureused>0</pictureused>

 <recordquota>80</recordquota>

 <picturequota>20</picturequota>

 <totalrecdays>7</totalrecdays>

 <freerecdays>3</freerecdays>

 <sleep>>false</sleep>

```
        <full>overwrite</full>
        <fulloption>stoprecord,overwrite</fulloption>
    </base>
</hdd>
</content>
</body>
</envelope>
```

Field Meaning

hdd: Hard Disk setting

base: bascial setting

groupmax: max number of group

hddmax: max number of Hard Disk

nasmax: max number of NAS Disk

datalist: one list containing all disk info

data: one disk info

exist: 'true' means existing, 'false' means not

diskid: disk ID

status: status of the disk

totalsum: total capacity

freesum: remain capacity

totalrecdays: total record days

freerecdays: free record days

sleep: disk sleep , 'true' is sleep, 'false' means not

recordcapacity: capacity of record

recordused: used capacity of record

picturecapacity: capacity of picture

pictureused: used capacity of picture

recordquota: quota of record

picturequota: quota of picture

full: the current option when remain capacity is 0

fulloption: supported options when remain capacity is 0

6.8. Storage plan (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

<?xml version="1.0" encoding="utf-8"?>

<envelope>

 <header>

 <security>usertoken</security>

 <username>admin</username>

 <password>HnJb+pOlZ9w38CBftWSXPQ==</password>

 <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>

 </header>

 <body>

 <command>set.hdd.base</command>

 <content>

 <hdd>

 <base>

 <datalist>

 <data>

 <exist>>false</exist>

 <diskid>1</diskid>

 <status>nodisk</status>

 </data>

 </datalist>

 <totalsum>0</totalsum>

 <freesum>0</freesum>

 <recordcapacity>0</recordcapacity>

```

        <recordused>0</recordused>
        <picturecapacity>0</picturecapacity>
        <pictureused>0</pictureused>
        <recordquota>80</recordquota>
        <picturequota>20</picturequota>
        <full>overwrite</full>
    </base>
</hdd>
</content>
</body>
</envelope>

```

Response

```

<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content>(null)</content>
  </body>
</envelope>

```

Field Meaning

See 6.7.Record config(Get)

6.9.Nas setting (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```

<?xml version="1.0" encoding="utf-8"?>

```

```
<envelope>
  <header>
    <security>usnametoken</security>
    <username>admin</username>
    <password>HnJb+pOlZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <command>get.hdd.nas</command>
    <content/>
  </body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content>
      <nas>
        <maxnas>8</maxnas>
        <datalist>
          <data>
            <nasid>1</nasid>
            <valid>false</valid>
            <type>
              <value>nfs</value>
              <supported>nfs,cifs</supported>
            </type>
            <size>
              <value>2</value>
              <range>1:61440</range>
            
```

```

        </size>
        <path/>
        <hostname/>
        <username/>
        <password/>
    </data>
    ...
</datalist>
</nas>
</content>
</body>
</envelope>

```

Field Meaning

nas:NAS setting

maxnas: max number of NAS

datalist: one list containing all NAS info

data: one NAS info

nasid: NAS ID

valid: 'true' is valid,'false' is not

type: type of NAS

value: current type

supported: supported type

size: size of NAS

value: current size(GB) (rang: 1:61440MB)

6.10. Nas setting (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="utf-8"?>
<envelope>
  <header>
    <security>usnametoken</security>
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <command>set.hdd.nas</command>
    <content>
      <nas>
        <maxnas>8</maxnas>
        <datalist>
          <data>
            <nasid>1</nasid>
            <valid>true</valid>
            <type>
              <value>nfs</value>
            </type>
            <size>
              <value>2</value>
            </size>
            <path> </path>
            <hostname> </hostname>
            <username> </username>
            <password> </password>
          </data>
          ...
        </datalist>
      </nas>
    </content>
  </body>
</envelope>
```

```
        </content>
    </body>
</envelope>
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
    <body>
        <error>0</error>
        <content/>
    </body>
</envelope>
```

Field Meaning

See 6.9.Nas setting(Get)

6.11.Nas test

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="utf-8"?>
<envelope>
    <header>
        <security>usnametoken</security>
        <username>admin</username>
        <password>HnJb+pOlZ9w38CBftWSXPQ==</password>
        <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
    </header>
    <body>
        <command>set.hdd.nas.test</command>
        <content>
```

```
<nastest>
  <data>
    <nasid>1</nasid>
    <valid>true</valid>
    <type>
      <value>nfs</value>
    </type>
    <size>
      <value>2</value>
    </size>
    <path> </path>
    <hostname> </hostname>
    <username/>
    <password/>
  </data>
</nastest>
</content>
</body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content>
      <testresult>
        <successed>>false</successed>
      </testresult>
    </content>
  </body>
</envelope>
```

Field Meaning

See 6.9.Nas setting(Get)

6.12.Hdd add

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="utf-8"?>
<envelope>
  <header>
    <security>usnametoken</security>
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <command>set.hdd.base.add</command>
    <content>
      <hdd>
        <base>
          <diskid>1</diskid>
        </base>
      </hdd>
    </content>
  </body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
```



```
<envelope>
  <body>
    <error>0</error>
    <content/>
  </body>
</envelope>
```

Field Meaning

See 6.7.Storage plan(Get)

6.13.Hdd format (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="utf-8"?>
<envelope>
  <header>
    <security>usertoken</security>
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <command>set.hdd.base.format</command>
    <content>
      <hdd>
        <base>
          <diskid>2</diskid>
        </base>
      </hdd>
    </content>
  </body>
</envelope>
```

```
        </content>
    </body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
    <body>
        <error>0</error>
        <content/>
    </body>
</envelope>
```

Field Meaning

See 6.7.Storage plan(Get)

7. System maintenance

7.1.Auto maintenance (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
    <header>
        <security>usertoken</security>
```

```
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
</header>
<body>
  <command> get.system.automaintenance</command>
  <content>
  </content>
</body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<envelope>
  <body>
    <error>0</error>
    <content>
      <system>
        <automaintenance>
          <rebootday>
            <value>tuesday</value>
            <supported>never,everyday,sunday,monday,tuesday,wednesday,thursday,friday,saturday</supported>
          </rebootday>
          <reboothour>
            <value>2</value>
            <range>0:23</range>
          </reboothour>
        </automaintenance>
      </system>
    </content>
  </body>
</envelope>
```

Field Meaning

rebootday: day of auto reboot

value: current selected day

supported: supported day

reboothour: hour in the day of auto reboot

value: current selected hour

range: range of hour

7.2.Auto maintenance (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<envelope>
```

```
  <header>
```

```
    <security>usertoken</security>
```

```
    <username>admin</username>
```

```
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
```

```
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
```

```
  </header>
```

```
  <body>
```

```
    <command>set.system.automaintenance</command>
```

```
    <content>
```

```
      <system>
```

```
        <automaintenance>
```

```
          <rebootday>
```

```
            <value>tuesday</value>
```

```
          </rebootday>
```

```
        <reboothour>
            <value>2</value>
            <range>0:23</range>
        </reboothour>
    </automaintenance>
</system>
</content>
</body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
    <body>
        <error>0</error>
        <content>(null)</content>
    </body>
</envelope>
```

Field Meaning

See 1.4.Auto maintenance(Get)

7.3.Log Setting (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
    <header>
```

```
<security>username</security>
<username>admin</username>
<password>HnJb+pOlZ9w38CBftWSXPQ==</password>
<nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
</header>
<body>
  <command>get.system.log</command>
  <content></content>
</body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content>
      <system>
        <log>
          <system>true</system>
          <config>true</config>
          <storage>true</storage>
          <alarm>true</alarm>
          <record>true</record>
          <account>true</account>
          <clear>true</clear>
          <playback>true</playback>
          <full>
            <value>overwrite</value>
            <supported>stop,overwrite</supported>
          </full>
        </log>
      </system>
    </content>
  </body>
</envelope>
```

```
        </system>
    </content>
</body>
</envelope>
```

Field Meaning

log: log filtering setting

system: 'true' means logging about system setting, 'false' means not logging about that

config: 'true' means logging about configure setting, 'false' means not logging about that

storage: 'true' means logging about storage setting, 'false' means not logging about that

alarm: 'true' means logging about alarm setting, 'false' means not logging about that

record: 'true' means logging about record setting, 'false' means not logging about that

account: 'true' means logging about account setting, 'false' means not logging about that

clear: 'true' means logging about clearing log, 'false' means not logging about that

playback: 'true' means logging about playback setting, 'false' means not logging about that

full: operation when log is full

value: current selected operation

supported: supported operation

7.4.Log Setting (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<envelope>
```

```
  <header>
```

```
    <security>usertoken</security>
```

```
    <username>admin</username>
```

```
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
```

```
        <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
</header>
<body>
  <command>set.system.log</command>
  <content>
    <system>
      <log>
        <system>true</system>
        <config>true</config>
        <storage>true</storage>
        <alarm>true</alarm>
        <record>true</record>
        <account>true</account>
        <clear>true</clear>
        <playback>true</playback>
        <full>
          <value>overwrite</value>
        </full>
      </log>
    </system>
  </content>
</body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content>(null)</content>
  </body>
</envelope>
```


Field Meaning

See 1.6. Log Setting (Get)

7.5.Log Clearing

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <header>
    <security>usnametoken</security>
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <command>get.system.log.clear</command>
    <content></content>
  </body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content>(null)</content>
  </body>
</envelope>
```

Field Meaning

7.6.Log Searching

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <header>
    <security>usnametoken</security>
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <command>get.system.log.search</command>
    <content>
      <system>
        <log>
          <type>all</type>
          <starttime>2017-6-6t0:0:0z</starttime>
          <endtime>2017-6-6t23:59:59z</endtime>
        </log>
      </system>
    </content>
  </body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content>
      <system>
        <log>
          <datalist>
            <data>
              <id>1</id>
              <type>1280</type>
              <flag>0</flag>
              <value>0</value>
              <time>2017-06-6t17:57:00z</time>
              <info>YWRtaW4Acbg=</info>
            </data>
            ...
            <data>
              ...
            </data>
          </datalist>
          <count>3</count>
        </log>
      </system>
    </content>
  </body>
</envelope>
```

Field Meaning

1) Reques:

type: type of log to search, options include 'all', 'system', 'config', 'storage', 'alarm', 'record', 'account', 'clear', 'playback'

starttime: start time of time range to search
endtime: end time of time range to search
2) Response:
datalist: log list
data: one log
id: id of one log
type: type of one log
flag: flag of one log
value: value of one log
time: occurring time of one log
info: content of one log, encoded in base64
count: number of log in log list

7.7.Config default

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <header>
    <security>usertoken</security>
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <command>set.system.config.default </command>
    <content>
      <system>
```

```

        <config>
            <general>true</general>
            <record>true</record>
            <network>false</network>
            <alarm>false</alarm>
            <motiondetect>true</motiondetect>
            <ptz>false</ptz>
            <channelname>true</channelname>
            <imagesetting>true</imagesetting>
            <smart>true</smart>
            <encode>true</encode>
            <snapshotsetting>true</snapshotsetting>
            <storagemanage>true</storagemanage>
            <all>false</all>
        </config>
    </system>
</content>
</body>
</envelope>

```

Response

```

<?xml version="1.0" encoding="UTF-8"?>
<envelope>
    <body>
        <error>0</error>
        <content>(null)</content>
    </body>
</envelope>

```

Field Meaning

general: 'true' means setting general configuration to be default value, otherwise not modify.

record: 'true' means setting record configuration to be default value, otherwise not modify.

network:'true' means setting network configuration to be default value, otherwise not modify.
alarm:'true' means setting alarm configuration to be default value, otherwise not modify.
motiondetect:'true' means setting motiondetect configuration to be default value, otherwise not modify.
ptz:'true' means setting ptz configuration to be default value, otherwise not modify.
channelname:'true' means setting channelname to be default value, otherwise not modify.
imagesetting:'true' means setting image configuration to be default value, otherwise not modify.
smart:'true' means setting smart configuration to be default value, otherwise not modify.
encode:'true' means setting encode configuration to be default value, otherwise not modify.
snapshotsetting:'true' means setting snapshot configuration to be default value, otherwise not modify.
storagemanage:'true' means setting storagemanage configuration to be default value, otherwise not modify.
all: 'true' means the configuration of above type set to be default value and above type would be undefined.

7.8.Factory reset

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <header>
    <security>usertoken</security>
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <command>set.system.factoryreset </command>
    <content>
      <system>
        < factoryreset>true</ factoryreset>
```

```
        </system>
      </content>
    </body>
  </envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content>(null)</content>
  </body>
</envelope>
```

Field Meaning

Factoryreset: 'true' means setting all confirmation to be default value include account setting, otherwise not modify.

8. Preview

8.1.Ptz preset (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="utf-8"?>
<envelope>
  <header>
    <security>usertoken</security>
```

```
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
</header>
<body>
    <command>get.ptz.preset</command>
    <content/>
</body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
    <body>
        <error>0</error>
        <content>
            <channel>
                <id>1</id>
                <presetlist>
                    <preset>
                        <presetid>4</presetid>
                        <presetname>0</presetname>
                    </preset>
                    ...
                </presetlist>
            </channel>
        </content>
    </body>
</envelope>
```

Field Meaning

channel: there is only one channel in IPC

id: channel ID
presetlist: one list containing all presets of current channel
preset: one preset
presetid: preset ID
presetname: name of the preset

8.2.Ptz preset (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="utf-8"?>
<envelope>
  <header>
    <security>usnametoken</security>
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <command>set.ptz.preset</command>
    <content>
      <channel>
        <id>1</id>
        <presetlist>
          <preset>
            <presetid>4</presetid>
            <presetname>0</presetname>
          </preset>
        </presetlist>
      </channel>
    </content>
  </body>
</envelope>
```

```
        </channel>
    </content>
</body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content>(null)</content>
  </body>
</envelope>
```

Field Meaning

See 8.1.Ptz tour(Get)

8.3.Ptz preset goto

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="utf-8"?>
<envelope>
  <header>
    <security>usertoken</security>
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
```

```
<body>
  <command>set.ptz.preset.goto</command>
  <content>
    <ptz>
      <channel>1</channel>
      <presetid>1</presetid>
    </ptz>
  </content>
</body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content>(null)</content>
  </body>
</envelope>
```

Field Meaning

ptz: PTZ control

channel: channel ID

presetid: preset ID

8.4.Ptz preset clear

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="utf-8"?>
<envelope>
  <header>
    <security>usnametoken</security>
    <username>admin</username>
    <password>HnJb+pOlZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <command>set.ptz.preset.clear</command>
    <content>
      <channel>
        <id>1</id>
        <presetlist>
          <preset>
            <presetid>4</presetid>
          </preset>
        </presetlist>
      </channel>
    </content>
  </body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content>(null)</content>
  </body>
</envelope>
```

Field Meaning

channel: there is only one channel in IPC

id: channel ID

presetlist: one list containing all presets of current channel

preset: one preset

presetid: preset ID

8.5.Ptz tour (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="utf-8"?>
```

```
<envelope>
```

```
  <header>
```

```
    <security>usertoken</security>
```

```
    <username>admin</username>
```

```
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
```

```
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
```

```
  </header>
```

```
  <body>
```

```
    <command>get.ptz.tour</command>
```

```
    <content/>
```

```
  </body>
```

```
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<envelope>
```

```
  <body>
```

```
<error>0</error>
<content>
  <channel>
    <id>1</id>
    <tourlist>
      <tour>
        <tourid>1</tourid>
        <presetnum>2</presetnum>
        <presetlist>
          <preset>
            <posid>1</posid>
            <presetid>4</presetid>
            <speed>4</speed>
            <staytime>4</staytime>
          </preset>
          <preset>
            <posid>2</posid>
            <presetid>5</presetid>
            <speed>5</speed>
            <staytime>4</staytime>
          </preset>
        </presetlist>
      </tour>
      <tour>
        <tourid>2</tourid>
        <presetnum>0</presetnum>
        <presetlist>
        </presetlist>
      </tour>
    </tourlist>
  </channel>
</content>
```

```
</body>
</envelope>
```

Field Meaning

channel: there is only one channel in IPC

id: channel ID

tourlist: one list containing all tour of current channel

tour: one tour

tourid: tour ID

presetnum: the number of preset

presetlist: one list containing all presets

preset: one preset

posid: current position ID

presetid: preset ID

speed: speed of motion

staytime: time of staying in one position

8.6.Ptz tour (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="utf-8"?>
```

```
<envelope>
```

```
  <header>
```

```
    <security>usertoken</security>
```

```
    <username>admin</username>
```

```
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
```

```
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
```

```
</header>
<body>
  <command>set.ptz.tour</command>
  <content>
    <channel>
      <id>1</id>
      <tourlist>
        <tour>
          <tourid>1</tourid>
          <presetlist>
            <preset>
              <presetid>1</presetid>
              <speed>1</speed>
              <staytime>4</staytime>
            </preset>
            <preset>
              <presetid>1</presetid>
              <speed>1</speed>
              <staytime>4</staytime>
            </preset>
            <preset>
              <presetid>16</presetid>
              <speed>1</speed>
              <staytime>4</staytime>
            </preset>
            <preset>
              <presetid>47</presetid>
              <speed>1</speed>
              <staytime>4</staytime>
            </preset>
            <preset>
              <presetid>1</presetid>
```



```

        <speed>1</speed>
        <staytime>4</staytime>
    </preset>
    <preset>
        <presetid>1</presetid>
        <speed>1</speed>
        <staytime>4</staytime>
    </preset>
    <preset>
        <presetid>22</presetid>
        <speed>1</speed>
        <staytime>4</staytime>
    </preset>
</presetlist>
</tour>
</tourlist>
</channel>
</content>
</body>
</envelope>

```

Response

```

<?xml version="1.0" encoding="UTF-8"?>
<envelope>
    <body>
        <error>0</error>
        <content>(null)</content>
    </body>
</envelope>

```

Field Meaning

See 8.3.Ptz tour(Get)

8.7.Ptz tour start

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="utf-8"?>
<envelope>
  <header>
    <security>usnametoken</security>
    <username>admin</username>
    <password>HnJb+pOlZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <command>set.ptz.tour.start</command>
    <content>
      <tour>
        <channel>13</channel>
        <tourid>1</tourid>
      </tour>
    </content>
  </body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
```

```
<error>0</error>
<content>(null)</content>
</body>
</envelope>
```

Field Meaning

tour: tour control

channel: channel ID

tourid: tour ID

8.8. Ptz tour stop

Command

POST <http://192.168.12.91/tdkcgi>

Request

Refer to 8.7.Ptz tour stop

Replace “set.ptz.tour.start” with “set.ptz.tour.stop” in the Field named “command”.

Response

Refer to 8.7. Ptz tour stop

Field Meaning

Refer to 8.7. Ptz tour stop

8.9. Ptz tour clear

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="utf-8"?>
<envelope>
  <header>
    <security>username</security>
    <username>admin</username>
    <password></password>
  </header>
  <body>
    <command>set.ptz.tour.clear</command>
    <content>
      <channel_id>13</channel_id>
      <tour_tourid>01</tour_tourid>
    </content>
  </body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content>(null)</content>
  </body>
</envelope>
```

Field Meaning

channel_id: channel ID

tour_tourid: tour ID

8.10. Ptz control

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="utf-8"?>
<envelope>
  <header>
    <security>usnametoken</security>
    <username>admin</username>
    <password>HnJb+pOlZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <command>set.ptz.control.start</command>
    <content>
      <ptz>
        <channel>1</channel>
        <control>up</control>
        <step>5</step>
      </ptz>
    </content>
  </body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
```

```
<body>
  <error>0</error>
  <content>(null)</content>
</body>
</envelope>
```

Field Meaning

channel: channel ID

control: mode of control (up,down,left,right,zoomin,zoomout,focusfar,focusnear)

step:step length of control

8.11.Ptz Pos (Get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="utf-8"?>
```

```
<envelope>
```

```
  <header>
```

```
    <security>usertoken</security>
```

```
    <username>admin</username>
```

```
    <password/>
```

```
    <nc>0IVHMPRQe4V0d7DS9c2QyWt388GYUUSD</nc>
```

```
  </header>
```

```
  <body>
```

```
    <command>g.ptz.pos</command>
```

```
    <content/>
```

```
  </body>
```

```
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content>
      <p>2</p>
      <t>2</t>
      <z>2</z>
    </content>
  </body>
</envelope>
```

Field Meaning

p: Pan Pos, 0~36000

t: Tilt Pos, 0~9000

z: zoom Pos, 0~32

8.12.Ptz Pos (Set)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="utf-8"?>
<envelope>
  <header>
    <security>usertoken</security>
    <username>admin</username>
```

```
        <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
        <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
    </header>
    <body>
        <command>s.ptz.pos</command>
        <content>
            <p>2</p>
            <t>2</t>
            <z>2</z>
        </content>
    </body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
    <body>
        <error>0</error>
        <content>(null)</content>
    </body>
</envelope>
```

Field Meaning

See 8.11.Ptz Pos(Get)

9. Backup

9.1.File search param setting

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="utf-8"?>
<envelope>
  <header>
    <security>username</security>
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <command>g.rec.session</command>
    <content>
      <record>
        <filetype>video</filetype>
        <occurtype>all</occurtype>
        <stream>all</stream>
        <channel>1</channel>
        <starttime>2020-01-11t00:00:00z</starttime>
        <endtime>2020-01-11t23:59:59z</endtime>
      </record>
    </content>
  </body>
</envelope>
```

```
</body>
</envelope>
```

Field Meaning

filetype: type of file to search (video, picture)

occurtype: specific type of file

stream: type of stream (main, sub, all)

channel: channel id

starttime: starttime to search

endtime: endtime to search

Response

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<envelope>
```

```
  <body>
```

```
    <error>0</error>
```

```
    <content>
```

```
      <record>
```

```
        <id>1</id>
```

```
      </record>
```

```
    </content>
```

```
  </body>
```

```
</envelope>
```

Field Meaning

id: session id of current search

9.2. File get info

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="utf-8"?>
<envelope>
  <header>
    <security>usnametoken</security>
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <command>g.rec.msg</command>
    <content>
      <record>
        <id>4</id>
      </record>
    </content>
  </body>
</envelope>
```

Field Meaning

id: get by command "g.rec.session"

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content>
      <filename>00_2020-01-11-09-13-59_427_00_01_3014657_46_00_04_254462_1</filename>
      <filename>00_2020-01-11-09-21-06_405_00_01_3080193_47_00_04_254277_1</filename>
```

```
....  
    <page>0</page>  
  </content>    </body>  
</envelope>
```

Field Meaning

filename: file name, include file information

such as "00_2020-01-11-09-13-59_427_00_01_3014657_46_00_04_254462_1"

00: Chanel

2020-01-11-09-13-59: time

427: length of file, unit s

00_01_3014657_46: File index information on disk

00: 00 means video and audio, 01 means pic

04: 00 means timing record, 01 or 02 means alarm record, 04 means hand record

page: "0" means search finished, "1" means continue to use current command to search

10. Alarm Info

10.1.Alarm Info Subscribe (get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="utf-8"?>  
<envelope>  
  <header>  
    <security>usertoken</security>
```

```
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
</header>
<body>
  <command> get.event.subscribe </command>
  <content>
  </content>
</body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content>
      <record>
        <id>1</id>
      </record>
    </content>
  </body>
</envelope>
```

Field Meaning

id: session id of current search

10.2.Alarm Info(get)

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="utf-8"?>
<envelope>
  <header>
    <security>usnametoken</security>
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <command>get.event.message</command>
    <content>
      <id>1</id>
    </content>
  </body>
</envelope>
```

Field Meaning

id: get by command "get. event.session"

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<envelope>
  <body>
    <error>0</error>
    <content>
      <event>
        <messagelist>
          <message>
            <chan>1</chan>
```

```

                <type>nodisk</type>
                <time>2018-6-21t11:12:7z</time>
            </message>
            ...
        </messagelist>
    </event>
</content>
</body>

```

</envelope>

Field Meaning

messagelist: one list of alarminfo list

data: one alarminfo

chan: channel

type: type of alarm,such us

nodisk: no disk or SD card

motiondetection: motion detection

videoshelter: video is sheltered

videolost: lost video

diskerror: disk or sd card error

diskfull: disk or sd card is full

alarmin: alarm input

linecrossing: Cross-Line detection

areaintrusion: Regional invasion

unattendedobject: Remains of goods

objectmissing: Lost goods

regionentrance: Regional entry

regionexiting: Area departure

fastmoving: Fast-moving

facedetection: Face detection

loiteringdetection: Loitering detection

gatheringdetection: People gatherint detection

parkingdetection: Parking detection

time: time of alarm occurred

11. Channel management

11.1.Channel Status

Command

POST <http://192.168.12.91/tdkcgi>

Request

```
<?xml version="1.0" encoding="utf-8"?>
<envelope>
  <header>
    <security>usnametoken</security>
    <username>admin</username>
    <password>HnJb+pOIZ9w38CBftWSXPQ==</password>
    <nc>KJ7i2FeDKyz47qA9sKrUvA8xMtjUeboc</nc>
  </header>
  <body>
    <command>get.channelmanagement.status</command>
    <content/>
  </body>
</envelope>
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
```



```
<envelope>
  <body>
    <error>0</error>
    <content>
      <channel>
        <id>1</id>
        <status>
          <limit>0</limit>
          <main>0</main>
          <sub>0</sub>
          <connection>connecting</connection>
          <motiondetection>disable</motiondetection>
          <videoshelter>disable</videoshelter>
          <videolost>disable</videolost>
        </status>
      </channel>
      <channel>
        <id>2</id>
        <status>
          <limit>0</limit>
          <main>0</main>
          <sub>0</sub>
          <connection>connecting</connection>
          <motiondetection>on</motiondetection>
          <videoshelter>disable</videoshelter>
          <videolost>occur</videolost>
        </status>
      </channel>
      .....
    </content>
  </body>
</envelope>
```

Field Meaning

channel: one channel

id: id of channel

status: some channel status

motiondetection: detection of motion, “disable” means not enable; “on” means enable; “occur” means current alarm occurred.

videoshelter: sheltering video, like motiondetection

videolost: lost video, like motiondetection

12. Smart Application

THREE. Streaming

1.System Upgrade

System upgrade is done interactively through the http post command, Totally divided into 3 processes

Step1: Send the following command

Request:

POST /cgi.bin?upgrade HTTP/1.1

Host: 192.168.11.73

Connection: keep-alive

Authorization: Digest username="admin", realm="QVHTTPSERVICE", nonce="e75722f8cf4150aba55443c830e3d06e", uri="/cgi.bin?upgrade",
cnonce="006FE020", nc=00000001, qop="auth", response="2be1d4c10b6821d70c5c41e813de39cc"

Pragma: no-cache

Cache-Control: no-store

Content-Type: application/json

Content-Length: 61

`{"file":"test.upf","obj":"UPGTask","size":14001084}`

Field Meaning

Authorization: http Digest certification

file: filename, this must exist

obj: "UPGTask", this must exist

size: size of file, this must exist

resp:

HTTP/1.1 200 OK

Connection: keep-alive

Session: 11vnioEwo6EQmN1Ulr/+wZaNaAg=

Pragma: no-cache

Cache-Control: no-store

Field Meaning

Session: the sessionid being given to the process

Step2: Send the following command, send file data

Request:

POST /cgi.bin?upgrade=test.upf HTTP/1.1

Connection: keep-alive

Session: 11vnioEwo6EQmN1Ulr/+wZaNaAg=

Pragma: no-cache

Cache-Control: no-store

Transfer-Encoding: chunked

Field Meaning

Session: The session id obtained in step 1, this must exit

Transfer-Encoding: must be "chunked", The size of each package is recommended to be 4k, the maximum is not more than 16k

resp:

HTTP/1.1 200 OK

Connection: keep-alive

Session: 11vnioEwo6EQmN1Ulr/+wZaNaAg=

Pragma: no-cache

Cache-Control: no-store

Step2: Send the following command,the file transfer is complete and the upgrade begins

Request:

POST /cgi.bin?upgrade=start HTTP/1.1

Host: 192.168.11.73

Connection: keep-alive

Session: 11vnioEwo6EQmN1Ulr/+wZaNaAg=

Pragma: no-cache

Cache-Control: no-store

Field Meaning

Session: The session id obtained in step 1, this must exit

resp:

HTTP/1.1 200 OK

Connection: keep-alive

Session: 11vnioEwo6EQmN1Ulr/+wZaNaAg=

Pragma: no-cache

Cache-Control: no-store

Content-Type: multipart/mixed;boundary="CGIUPGProgress"

--"CGIUPGProgress"
Content-Type: application/json
Content-Length: 44

```
{"obj": "Progress", "progress": 28, "timeused": 7662}
```

Field Meaning

Session: The session id obtained in step 1, this must exit

Content-Type: by “multipart/mixed;”, use this method to transfer upgrade progress”

progress: upgrade progress, percentage

timeused: time-consuming size

2.Talk

The conversation uses websocket to transmit, and uses http digest authentication. After the websocket is successfully established, the g.711a audio data stream is directly transmitted.

For g.711a audio data stream, the following 8-byte data header must be added

Stream[0] = 0x00;

Stream[1] = 0x00;

Stream[2] = 0x01;

Stream[3] = 0xf0;

Stream[4] = 0x0e;

Stream[5] = 0x02;

Stream[6] = 224;

Stream[7] = 0x01;

The client audio data will be continuously generated and sent multiple times, and it is required before each time it is sent.

Url: [http://192.168.11.153/cgi.bin?talk\[=channel\]\[talkin\[=channel\]\]](http://192.168.11.153/cgi.bin?talk[=channel][talkin[=channel]])

talk: data from client to server

channel: device audio output/input channel number

talkin: data from server to client

websocket is established as follows:

request:

GET /cgi.bin?talk&talkin=0 HTTP/1.1

Upgrade: websocket

Host: 192.168.11.153

Authorization: Digest username="admin", realm="QVHTTPSERVICE", nonce="e75722f8cf4150aba55443c830e3d06e", uri="/cgi.bin?talk&talkin=0",
cnonce="0093DF88", nc=00000001, qop="auth", response="a7d96b8ba57af612d0d51879d9925f5f"

Origin: ws://192.168.11.153/cgi.bin?talk&talkin=0

Sec-WebSocket-Key: wdo7Pps603yNs/UOZEsvOM6cMFU=

Sec-WebSocket-Version: 13

response:

HTTP/1.1 101 Switching Protocols

Upgrade: websocket

Connection: Upgrade

Session: Rp9WfIKIMv9IJBhLjewgnVCxkS4=

Sec-WebSocket-Location: ws://192.168.11.153/cgi.bin?talk&talkin=0

Sec-WebSocket-Protocol: talk

Sec-WebSocket-Accept: dnDn7SEtEhTenDAgaFLOXusH6lY=

3.File Playback

File playback uses standard rtsp protocol, supports tcp, udp and rtsp over http. For rtsp standard protocol, please refer to RFC 7826.

url: rtsp://192.168.11.153:554/mode=file&type=rec&filename=00_2020-06-26-12-32-54_161_00_01_3932164_60_00_04_106150_1

“rtsp://192.168.11.153:554/mode=file&type=rec&filename=” Is unchanged.

“00_2020-06-26-12-32-54_161_00_01_3932164_60_00_04_106150_1” is by cgi cmd(g.rec.session and g.rec.msg), refer to TWO.Detailed Setting.

9.Backup.9.1File Search param setting and 9.2 File get info

The rtsp connection is established as follows:

OPTIONS rtsp://192.168.11.153:554/mode=file&type=rec&filename=00_2020-07-01-09-04-12_459_00_01_65537_01_00_04_240228_1 RTSP/1.0
CSeq: 5
User-Agent: LibVLC/3.0.8 (LIVE555 Streaming Media v2016.11.28)

RTSP/1.0 200 OK
CSeq: 5
Server: QV RTSP Server(v0.1.0.0)
Public: OPTIONS, DESCRIBE, SETUP, TEARDOWN, PLAY, GET_PARAMETER, SET_PARAMETER

DESCRIBE rtsp://192.168.11.153:554/mode=file&type=rec&filename=00_2020-07-01-09-04-12_459_00_01_65537_01_00_04_240228_1 RTSP/1.0
CSeq: 6
User-Agent: LibVLC/3.0.8 (LIVE555 Streaming Media v2016.11.28)
Accept: application/sdp

RTSP/1.0 401 Unauthorized
WWW-Authenticate: Digest realm="c42f90342aa5", nonce="e75722f8cf4150aba55443c830e3d06e", stale="FALSE"
WWW-Authenticate: Basic realm="c42f90342aa5"
CSeq: 6
Server: QV RTSP Server(v0.1.0.0)
Allow: OPTIONS, DESCRIBE, SETUP, TEARDOWN, PLAY, GET_PARAMETER, SET_PARAMETER

DESCRIBE rtsp://192.168.11.153:554/mode=file&type=rec&filename=00_2020-07-01-09-04-12_459_00_01_65537_01_00_04_240228_1 RTSP/1.0
CSeq: 7
Authorization: Digest username="admin", realm="c42f90342aa5", nonce="e75722f8cf4150aba55443c830e3d06e",
uri="rtsp://192.168.11.153:554/mode=file&type=rec&filename=00_2020-07-01-09-04-12_459_00_01_65537_01_00_04_240228_1",
response="6a60bdc86c43bf91d09dbb614e528481"
User-Agent: LibVLC/3.0.8 (LIVE555 Streaming Media v2016.11.28)
Accept: application/sdp

RTSP/1.0 200 OK

RTSP/1.0 200 OK
CSeq: 8
Session: 00BCE188
Transport: RTP/AVP;unicast;client_port=65074-65075;server_port=41690-41691;ssrc=00BCE3A0
Server: QV RTSP Server(v0.1.0.0)
Allow: OPTIONS, DESCRIBE, SETUP, TEARDOWN, PLAY, PAUSE, GET_PARAMETER, SET_PARAMETER

PLAY rtsp://192.168.11.153:554/mode=file&type=rec&filename=00_2020-07-01-09-04-12_459_00_01_65537_01_00_04_240228_1/ RTSP/1.0
CSeq: 9
Authorization: Digest username="admin", realm="c42f90342aa5", nonce="e75722f8cf4150aba55443c830e3d06e",
uri="rtsp://192.168.11.153:554/mode=file&type=rec&filename=00_2020-07-01-09-04-12_459_00_01_65537_01_00_04_240228_1/",
response="bedfc4fcd0133fc55f67f9f1ef789eb2"
User-Agent: LibVLC/3.0.8 (LIVE555 Streaming Media v2016.11.28)
Session: 00BCE188
Range: npt=0.000-

RTSP/1.0 200 OK
CSeq: 9
Session: 00BCE188
Range: npt=0.000-459.000
RTP-Info: url=rtsp://192.168.11.153:554/mode=file&type=rec&filename=00_2020-07-01-09-04-12_459_00_01_65537_01_00_04_240228_1/video;seq=0;rtptime=0
Server: QV RTSP Server(v0.1.0.0)
Allow: OPTIONS, DESCRIBE, SETUP, TEARDOWN, PLAY, PAUSE, GET_PARAMETER, SET_PARAMETER

Pause /Start:

PAUSE rtsp://192.168.11.153:554/mode=file&type=rec&filename=00_2020-07-01-09-04-12_459_00_01_65537_01_00_04_240228_1/ RTSP/1.0
CSeq: 43
Authorization: Digest username="admin", realm="c42f90342aa5", nonce="e75722f8cf4150aba55443c830e3d06e",
uri="rtsp://192.168.11.153:554/mode=file&type=rec&filename=00_2020-07-01-09-04-12_459_00_01_65537_01_00_04_240228_1/",
response="ea5a73e88fcf7aaf54ba0107b7b3796a"

User-Agent: LibVLC/3.0.8 (LIVE555 Streaming Media v2016.11.28)

Session: 00BCE188

RTSP/1.0 200 OK

CSeq: 43

Server: QV RTSP Server(v0.1.0.0)

Session: 00BCE188

Allow: OPTIONS, DESCRIBE, SETUP, TEARDOWN, PLAY, PAUSE, GET_PARAMETER, SET_PARAMETER

PLAY rtsp://192.168.11.153:554/mode=file&type=rec&filename=00_2020-07-01-09-04-12_459_00_01_65537_01_00_04_240228_1/ RTSP/1.0

CSeq: 44

Authorization: Digest username="admin", realm="c42f90342aa5", nonce="e75722f8cf4150aba55443c830e3d06e",
uri="rtsp://192.168.11.153:554/mode=file&type=rec&filename=00_2020-07-01-09-04-12_459_00_01_65537_01_00_04_240228_1/",
response="bedfc4fcd0133fc55f67f9f1ef789eb2"

User-Agent: LibVLC/3.0.8 (LIVE555 Streaming Media v2016.11.28)

Session: 00BCE188

Scale: 1.041667

RTSP/1.0 200 OK

CSeq: 44

Session: 00BCE188

Scale: 1.041667

Range: npt=125.384-459.000

RTP-Info: url=rtsp://192.168.11.153:554/mode=file&type=rec&filename=00_2020-07-01-09-04-12_459_00_01_65537_01_00_04_240228_1/video;seq=12540;rtptime=2682000

Server: QV RTSP Server(v0.1.0.0)

Allow: OPTIONS, DESCRIBE, SETUP, TEARDOWN, PLAY, PAUSE, GET_PARAMETER, SET_PARAMETER

Accelerate/decelerate playback

Scale: means play speed

PLAY rtsp://192.168.11.153:554/mode=file&type=rec&filename=00_2020-07-01-09-04-12_459_00_01_65537_01_00_04_240228_1/ RTSP/1.0

CSeq: 42

Authorization: Digest username="admin", realm="c42f90342aa5", nonce="e75722f8cf4150aba55443c830e3d06e",
uri="rtsp://192.168.11.153:554/mode=file&type=rec&filename=00_2020-07-01-09-04-12_459_00_01_65537_01_00_04_240228_1/",
response="bedfc4fcd0133fc55f67f9f1ef789eb2"
User-Agent: LibVLC/3.0.8 (LIVE555 Streaming Media v2016.11.28)
Session: 00BCE188
Scale: 1.041667

RTSP/1.0 200 OK

CSeq: 42

Session: 00BCE188

Scale: 1.041667

Range: npt=120.384-459.000

RTP-Info: url=rtsp://192.168.11.153:554/mode=file&type=rec&filename=00_2020-07-01-09-04-12_459_00_01_65537_01_00_04_240228_1/video;seq=10418;rtptime=2232000

Server: QV RTSP Server(v0.1.0.0)

Allow: OPTIONS, DESCRIBE, SETUP, TEARDOWN, PLAY, PAUSE, GET_PARAMETER, SET_PARAMETER

Frame-by-frame playback:

Play-Method: if this is equal "Play-Method: frame-by-frame", means frame-by-frame playback, else means cancel this play mode

PLAY rtsp://192.168.11.153:554/mode=file&type=rec&filename=00_2020-07-01-09-04-12_459_00_01_65537_01_00_04_240228_1/ RTSP/1.0

CSeq: 42

Authorization: Digest username="admin", realm="c42f90342aa5", nonce="e75722f8cf4150aba55443c830e3d06e",
uri="rtsp://192.168.11.153:554/mode=file&type=rec&filename=00_2020-07-01-09-04-12_459_00_01_65537_01_00_04_240228_1/",
response="bedfc4fcd0133fc55f67f9f1ef789eb2"

User-Agent: LibVLC/3.0.8 (LIVE555 Streaming Media v2016.11.28)

Session: 00BCE188

Play-Method: frame-by-frame

RTSP/1.0 200 OK

CSeq: 42

Session: 00BCE188

Range: npt=120.384-459.000

RTP-Info: url=rtsp://192.168.11.153:554/mode=file&type=rec&filename=00_2020-07-01-09-04-12_459_00_01_65537_01_00_04_240228_1/video;seq=10418;rtpptime=2232000
Server: QV RTSP Server(v0.1.0.0)
Allow: OPTIONS, DESCRIBE, SETUP, TEARDOWN, PLAY, PAUSE, GET_PARAMETER, SET_PARAMETER