

HTTP API Protocol

Version 1.1

Version History

Version	Date	Notes
1.0	2025.07.17	Document created
1.1	2025.07.18	<ol style="list-style-type: none">1. Update 2.4.3 Modified FileType to FileType_n field; file type must correspond to each file2. Update 2.4.3 Modified AudioFile_n to AudioFileUrl_n field; file URL should be full path3. Update 2.4.8 Added FileType field

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1 Message Format

1.1 URL format

`http://<host>[:port][abs_path]`

Host: Device IP address.

Port: If the port number is omitted, the default port is used.

HTTP port defaults to 80.

HTTPs port defaults to 443.

abs_path: The URL address.

1.2 Example

POST /ISAPI/DeviceInfo?ID=3088 HTTP/1.1

Accept: text/plain, */*; q=0.01

X-Requested-With: XMLHttpRequest

Referer: http://192.168.0.112/BaseInforPage.html

Accept-Language: zh-CN

Accept-Encoding: gzip, deflate

User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64; Trident/7.0; rv:11.0) like Gecko

Host: 192.168.0.112

Content-Length: 0

Connection: Keep-Alive

Cache-Control: no-cache

HTTP/1.1 200 OK

Server: GoAhead-Webs/2.5.0

Connection: keep-alive

Content-Length: 256

Content-Type: application/xml

```
<?xml version="1.0" encoding="utf-8"?>
<DeviceInfo>
  <DeviceName>StrobeSpeaker</DeviceName>
  <DeviceID>2507150000</DeviceID>
  <DeviceModel></DeviceModel>
  <SoftwareVer>8C-1F-64-A3-6B-A9</SoftwareVer>
  <FactoryInfo>StrobeSpeaker</FactoryInfo>
</DeviceInfo>
```

1.3 Return Value

The data returned from the server is as follows, with all data returned in HTTP format.

Syntax: HTTP/1.1<HTTP code><HTTP text>

Example: HTTP/1.1 200 OK

HTTP/1.1 404 File Not Found

The following HTTP codes and their meanings

Status Code	HTTP Text	Description
200	OK	The request was successful, but an application error may still occur, which will be returned as an application error code.
204	No Content	The server has completed the request but has no new information to return.
400	Bad Request	The request is invalid or cannot be fulfilled. The request requires user authentication or authorisation, which has been denied.
401	Unauthorised	The request requires authentication, but cannot be completed due to a conflict with the current state.
404	Not Found	The server could not find any content matching the request.
409	Conflict	The request could not be completed due to a conflict with the current state of the resource.
500	Internal Error	The server encountered an unexpected situation and was unable to complete the request.

503	Service	The server is temporarily overloaded and unable to process the request.
-----	---------	---

HTTP/1.1 400 Bad Request

Server: GoAhead-Webs/2.5.0

Connection: keep-alive

Content-Length: 218

Content-Type: application/xml

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

```
<ResponseStatus>
```

```
<RequestURL>/ISAPI/AudioInfo/AudioEncodeOptions?ID=3088</RequestURL>
```

```
<StatusCode>401</StatusCode>
```

```
<StatusString>Invalid Channel number</StatusString>
```

```
</ResponseStatus>
```

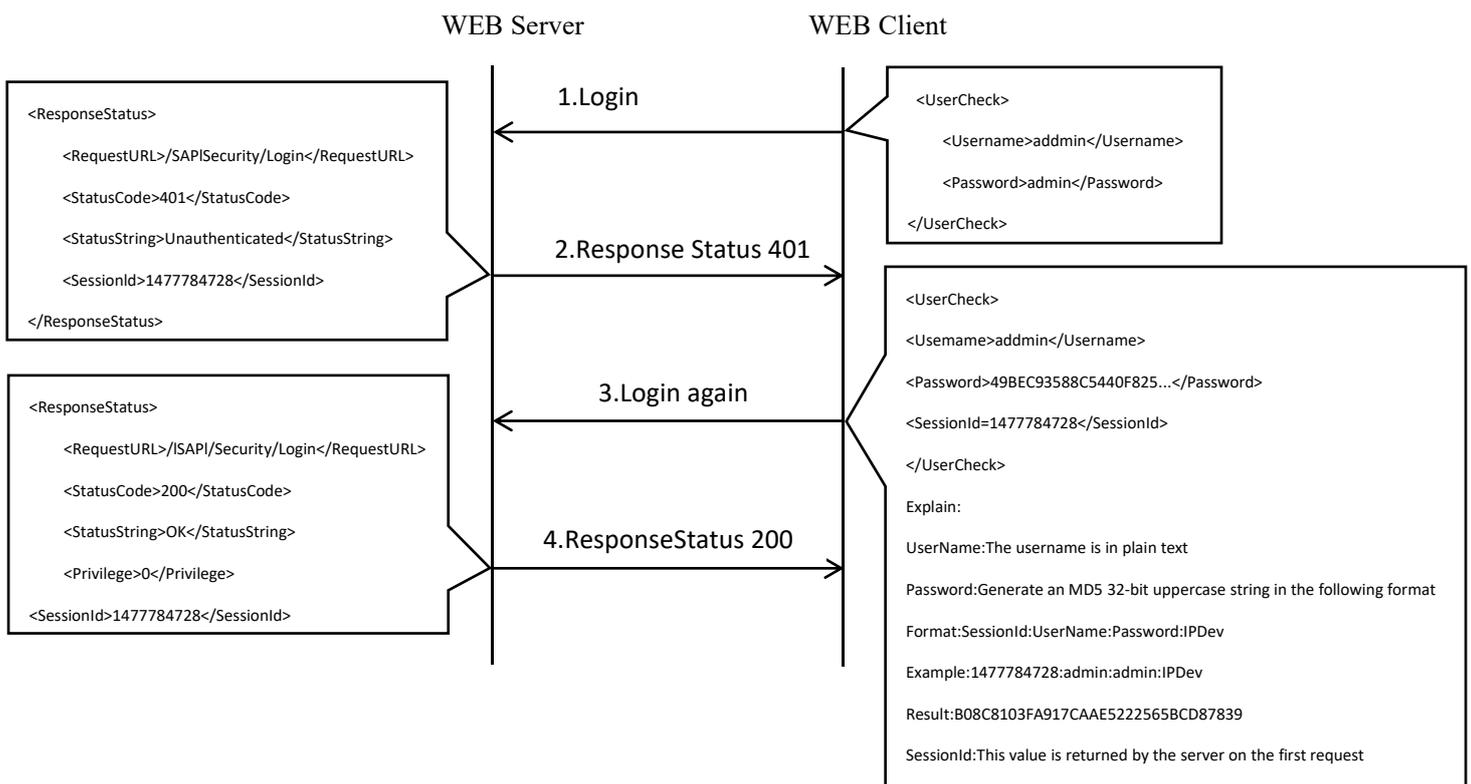
Status Code Range	Status Code	Status Description
2XX	200	Success.
4XX	401	Invalid channel number.
	402	Invalid parameter value.
	403	Invalid parameter name.
5XX	501	The server does not support this feature.
	502	The server supports the feature, but it is unavailable in the current mode.
	503	Server error.
	504	Failed to open NTP server.
	505	Failed to close NTP server.

2 API interface

2.1 Login

/ISAPI/Security/ Login			
POST			
Description	Verify the username and password by sending the following XML message via a POST request. The first login requires authentication; subsequent logins require the encrypted content to be included.		
Field	Type	Description	Required
Username	string	Username	Yes
Password	string	Password	Yes
SessionId	string	Session ID	No
If authentication succeeds, return 200 OK			
<pre><UserCheck> <Username><!-- req, xs: string --></Username> <Password><!-- req, xs: string --></Password> <SessionId><!-- required, xs: string --></SessionId> </UserCheck></pre>			

Note: Following successful authentication, all communication messages must include the SessionId; otherwise, normal communication cannot proceed. Should no messages be exchanged within five minutes, the session will time out and disconnect, requiring re-authentication. For example: /ISAPI/DeviceInfo?ID=1477784728. The authentication process is as follows:



2.2 Logout

/ISAPI/Security/Logout?ID=SessionID			
POST			
Description	Logout message. POST request with the following XML message content. Normal response returns 200 OK.		
Field	Type	Description	Required
SessionID	string	Session ID	Yes
If authentication succeeds, return 200 OK			
<pre><UserCheck> <SessionID><!-- req, xs: string --></SessionID> </UserCheck></pre>			

2.3 Get device information

/ISAPI/DeviceInfo?ID=SessionID			
POST			
Description	Get device information. Send an empty POST request. Upon successful completion, the following XML message content will be returned:		
Field	Type	Description	Required
DeviceName	string	Device Name	No
DeviceID	int	Device ID	No
DeviceModel	string	Device Model	No
SoftwareVer	string	Software Version	No
MACAddress	string	MAC Address	No
IPAddress	string	IP Address	No
FactoryInfo	string	Manufacturer Information	No
<pre><DeviceInfo> <DeviceName><!-- req, xs: string --></DeviceName> < DeviceID ><!-- req, xs: int --></DeviceID> < DeviceModel ><!-- req, xs: string --></DeviceModel> <SoftwareVer><!-- req, xs: string -- ></SoftwareVer> <MACAddress><!-- req, xs: string -- ></MACAddress> <IPAddress><!-- required, xs: string -- ></IPAddress> < FactoryInfo ><!-- req, xs: string --></FactoryInfo> </DeviceInfo></pre>			

2.4 Media Parameters

2.4.1 Get Audio Encoding Parameters

/ISAPI/AudioInfo/AudioEncodeOptions?ID=SessionID			
POST			
Description	Get multi-channel audio encoding Parameters, such as G711A and G711U. Send an empty POST request; a normal response will contain the following XML message content		
Field	Type	Description	Required
Encoding	string	G711A/G711U/G726/AAC	No
BitrateList	int	Bitrate	No
Items	int	Sample rate	No
<pre> <GetAudioEncodeOptions> <Options> <Encoding><!-- req, xs: string --></Encoding> <BitrateList> <Items><!-- req, xs: int --></Items> </BitrateList> < SampleRateList > <Items><!-- req, xs: int --></Items> </SampleRateList> </Options> <Options> <Encoding><!-- req, xs: string --></Encoding> <BitrateList> <Items><!-- req, xs: int --></Items> </BitrateList> <SampleRateList> <Items><!-- req, xs: int --></Items> </SampleRateList> </Options> </GetAudioEncodeOptions> </pre>			

2.4.2 Get/Set Audio Parameters

/ISAPI/AudioInfo/AudioConfig?ID=SessionID	
POST	
Description	Get audio encoding parameters. POST request with empty message body. Normal response returns the following XML message content
PUT	

Description	Set audio encoding parameters. Send the following XML message via a PUT request. A normal response returns 200 OK.		
Field	Type	Description	Required
PCMicEnabled	int	0: Disabled 1: Enabled	No
DevMicEnabled	int	0: Disabled 1: Enabled	No
LineInEnabled	int	0: Disabled 1: Enabled	No
Encoding	string	G711A/G711U/G726/AAC	No
Bitrate	int	bitstream	No
Sample Rate	int	Sample Rate	No
VolumeMax	int	Volume Maximum	No
VolumeMin	int	Minimum Volume	No
AudioInVolume	int	Input Volume	No
AudioOutVolume	int	Output Volume	No
<pre> <AudioConfig> <PCMicEnabled><!-- req, xs: int --></PCMicEnabled> <DevMicEnabled><!-- req, xs: int --></DevMicEnabled> <LineInEnabled><!-- req, xs: int --></LineInEnabled> <Encoding><!-- required, xs: string --></Encoding> <Bitrate><!-- required, xs: integer --></Bitrate> <SampleRate><!-- required, xs: integer --></SampleRate> <VolumeMax><!-- req, xs: int --></VolumeMax> <VolumeMin><!-- required, xs: integer --></VolumeMin> <AudioInVolume><!-- required, xs: integer --></AudioInVolume> <AudioOutVolume><!-- required, xs: integer --></AudioOutVolume> </AudioConfig> </pre>			

2.4.3 Get Audio File

/ISAPI/AudioInfo/GetDelAudioFile?ID=SessionID			
POST			
Description	Get audio file. POST request with empty message body. Normal response returns the following XML message content		
Field	Type	Description	Required
FileCount	int	Number of files	Yes
FileName_n	string	File name	Yes
FileType_n	int	0: System default file 1: Customer-defined file	No
Field Description			
FileName_n:1-50			

```

<GetDelAudioFile>
  <FileCount><!-- req, xs: int --></FileCount>
  <FileName_1><!-- req, xs: int --></FileName_1>
  <FileType_1><!-- required, xs: integer --></FileType_1>
  ...
  <FileName_n><!-- req, xs: int --></FileName_n>
  <FileType_n><!-- required, xs: integer --></FileType_n>
</GetDelAudioFile>

```

2.4.4 Upload Audio File

/ISAPI/UploadFile/AudioFile?offset=0&name=base64?ID=SessionID			
POST			
Description	Upload audio file. POST request with empty XML message content. All parameters in URL. Normal response: 200 OK		
Field	Type	Description	Required
offset	int	File offset, starting from zero, incremented by the length of each transmitted packet	Yes
name	string	Base64 filename	Yes

2.4.5 Delete audio file

/ISAPI/AudioInfo/GetDelAudioFile?ID=SessionID			
PUT			
Description	Delete audio file. The PUT request contains the following XML message content. Normal response: 200 OK		
Field	Type	Description	Required
FileName	string	File name	Yes
<pre> <GetDelAudioFile> <FileName><!-- req, xs: string --></FileName> </GetDelAudioFile> </pre>			

2.4.6 Get LED front and back light color configuration

/ISAPI/LED/ColorConfig?ID=SessionID			
POST			

Description	Get LED front and back light color configuration. POST request with the following XML message content		
Field	Type	Description	Required
FrontBackLight	int	0:FrontLight 1: back Light	No
ColorCount	int	Number of lamp colors	No
ColorType_n	int	1:Redcolor 2:Green 3: Blue color 4:White 5:Yellow 6:Violet 7:Cyan	No
Field Description colorType_n:1-n			
Request XML <ColorConfig> <FrontBackLight><!-- req, xs: int --></FrontBackLight> </colorConfiguration>			
Response XML <ColorConfig> <FrontBackLight><!-- req, xs: int --></FrontBackLight> <colorCount><!-- req, xs: int --></colorCount> <colorType_1><!-- req, xs: int --></colorType_1> ... <ColorType_n><!-- required, xs: integer --></ColorType_n> </ColorConfig>			

2.4.7 Get LED front and back light display mode

Configuration

/ISAPI/LED/DisplayModeConfig?ID=SessionID			
POST			
Description	Get LED front and back light display mode configuration. The POST request contains the following XML message content		
Field	Type	Description	Required
FrontModeCount	int	Number of display modes	No
FrontModeType_n	int	1: Steady 2:One-Second Blink (illuminates 10 times) 3: Two-Second Blink	No

		(illuminates 10 times) 4:Five-Second Blink (illuminates 5 times) 5:Breathe 6:Strobe	
BackModeCount	int	Number of display modes	No
BackModeType_n	int	1: Steady 2:Chase	No
Field Description			
ModeType_n:1-n			
<pre> <DisplayModeConfig> <FrontModeCount><!-- req, xs: int --></FrontModeCount> <FrontModeType_1><!-- req, xs: int --></FrontModeType_1> ... <FrontModeType_n><!-- required, xs: integer --></FrontModeType_n> <BackModeCount><!-- req, xs: int --></BackModeCount> <BackModeType_1><!-- req, xs: int --></BackModeType_1> ... <BackModeType_n><!-- required, xs: integer --></BackModeType_n> </DisplayModeConfig> </pre>			

2.4.8 Get/Set LED Idle Schedule Configuration

/ISAPI/LED/IdleScheduleConfig?ID=SessionID			
POST			
Description	Get LED idle schedule configuration. POST request with empty message body. Normal response returns the following XML message content		
PUT			
Description	Set LED idle schedule configuration. PUT request with the following XML message content. Normal response: 200 OK		
Field	Type	Description	Required
ScheduleCount	int	Number of Schedules	No
ScheduleID	int	ScheduleID (range 0-4)	Yes
ScheduleName	string	Schedule Name	No
ScheduleEnable	int	0: Disabled 1: Enabled	No
PlayEnable	int	0: Disabled 1: Enabled	No
PlayFile	string	File name	No
Volume	int	Volume (0-100)	No
CycleMode	int	Cycle Mode:	No

		0: Once only 1: Multiple times 2: Infinite	
PlayTimes	int	Configure playback count when selecting multiple times	No
Interval	int	Playback interval time, in seconds	No
FrontLightEnable	int	0: Disabled 1: Enabled	No
FrontLightColor1	int	1:RedColor 2: GreenColor 3:BlueColor 4:WhiteColor 5:Yellow 6:Violet 7:Cyan	No
FrontLighColor2	int	0:None 1:RedColor 2: GreenColor 3: BlueColor 4:WhiteColor 5:Yellow 6:Violet 7:Cyan	No
FrontLightDisplayMode	int	Display Mode 1: Steady 2: One-Second Blink (illuminates 10 times) 3: Two-Second Blink (illuminates 10 times) 4: Five-Second Blink (illuminates 5 times) 5: Breathe 6:Strobe	No
FrontLightBrightness	int	Only the following colors can be set to brightness levels 0-255 (low to high): 1:RedColorr 2: GreenColor 3: BlueColor 4:WhiteColor	No
FrontLightFrequency	int	Only Strobe mode allows setting the flashing frequency in milliseconds: default 100	No
BackLightEnable	int	0: Disabled	No

		1: Enabled	
BackLightColor	int	1:RedColor 2: GreenColor 3:BlueColor 4:WhiteColor 5:Yellow 6:Violet 7:Cyan	No
BacklightDisplayMode	int	Display Mode 1: Steady 2:Chase	No
BacklightBrightness	int	Only the following colors can be set to brightness levels 0-255 (low to high): 1:RedColor 2: GreenColor 3: BlueColor 4:WhiteColor	No
BacklightFrequency	int	Only Strobe mode can set the flashing frequency, in milliseconds: default 100	No
WeekDays	string	Select the time period for accepting alarms. For example, 0123456 indicates Sunday to Saturday.	No
BeginTime	string	Start time (HH:MM:SS)	No
EndTime	string	End time (HH:MM:SS)	No
Field Description			
ScheduleCount_n:1-5			
<pre> <IdleScheduleConfig> <ScheduleCount><!-- req, xs: int --></ScheduleCount> <ScheduleCount_1> <ScheduleID><!-- req, xs: int --></ScheduleID> <ScheduleName><!-- required, xs: string --></ScheduleName> <ScheduleEnable><!-- req, xs: int --></ScheduleEnable> <PlayEnable><!-- required, xs: integer --></PlayEnable> <PlayFile><!-- req, xs: string --></PlayFile> <Volume><!-- required, xs: integer --></Volume> <CycleMode><!-- req, xs: int --></CycleMode> <PlayTimes><!-- req, xs: int --></PlayTimes> <Interval><!-- required, xs: integer --></Interval> <FrontLightEnable><!-- required, xs: integer --></FrontLightEnable> <FrontLightColor1><!-- req, xs: int --></FrontLightColor1> <FrontLightColor2><!-- req, xs: int --></FrontLightColor2> </pre>			

```

<FrontLightDisplayMode><!-- req, xs: int --></FrontLightDisplayMode>
<FrontLightBrightness><!-- required, xs: integer --></FrontLightBrightness>
<FrontLightFrequency><!-- req, xs: int --></FrontLightFrequency>
<BackLightEnable><!-- required, xs: integer --></BackLightEnable>
<BackLightcolor><!-- req, xs: int --></BackLightcolor>
<BackLightDisplayMode><!-- required, xs: integer --></BackLightDisplayMode>
<BackLightBrightness><!-- required, xs: integer --></BackLightBrightness>
<BackLightFrequency><!-- required, xs: integer --></BackLightFrequency>
<WeekDays><!-- required, xs: string --></WeekDays>
<BeginTime><!-- required, xs: string --></BeginTime>
<EndTime><!-- required, xs: string --></EndTime>
</ScheduleCount_1>
</IdleScheduleConfig>

```

2.4.9 Get/Set LED Alarm Schedule Configuration

/ISAPI/LED/AlarmScheduleConfig?ID=SessionID			
POST			
Description	Get LED alarm schedule configuration. POST request with empty message body. Normal response returns the following XML message content		
PUT			
Description	Set LED alarm schedule configuration. PUT request with the following XML message content. Normal response: 200 OK		
Field	Type	Description	Required
ScheduleCount	int	Number of schedules	No
ScheduleID	int	ScheduleID (range 0-4)	Yes
ScheduleName	string	Schedule Name	No
ScheduleEnable	int	0: Disabled 1: Enabled	No
AlarmOutEnable	int	0: Disabled 1: Enabled	No
AlarmOutDuration	int	Alarm output duration per trigger, default 60 seconds	No
PlayEnable	int	0: Disabled 1: Enabled	No
PlayFile	string	File name	No
Volume	int	Volume	No
FrontLightEnable	int	0: Disabled 1: Enabled	No
FrontLightColor1	int	1:RedColor 2:GreenColor	No

		3:BlueColor 4:WhiteColor 5:Yellow 6:Violet 7:Cyan	
FrontLightColor2	int	0:None 1:RedColor 2: GreenColor 3: BlueColor 4:WhiteColor 5:Yellow 6:Violet 7:Cyan	No
FrontLightDisplayMode	int	Display Mode 1: Steady 2: One-Second Blink (illuminates 10 times) 3: Two-Second Blink (illuminates 10 times) 4: Five-Second Blink (illuminates 5 times) 5: Breathe 6:Strobe	No
FrontLightBrightness	int	Only the following colors can be set to brightness levels 0-255 (low to high): 1:Redcolor 2: Green 3: Blue 4:Whitcolor	No
FrontLightFrequency	int	Only Strobe mode allows setting the flashing frequency, in milliseconds: default 100	No
BackLightEnable	int	0: Disabled 1: Enabled	No
BackLightColor	int	1:RedColor 2:GreenColor 3:BlueColor 4:WhiteColor 5:Yellow 6:Violet 7:Cyan	No
BacklightDisplayMode	int	Display Mode	No

		1:Steady 2:Chase	
BacklightBrightness	int	Only the following colors can be set to brightness levels 0-255 (low to high): 1:RedColor 2: GreenColorr 3: BlueColor 4:WhiteColor	No
BacklightFrequency	int	Only Strobe mode can set the flashing frequency, in milliseconds: default 100	No
HttpMsgEnabled	int	0: Disabled 1: Enabled	No
EmailEnabled	int	0: Disabled 1: Enabled	No
BroadcastEnabled	int	0: Disabled 1: Enabled	No
WeekDays	string	Select the time period for accepting alerts. For example, 0123456 indicates Sunday to Saturday.	No
BeginTime	string	Start time (HH:MM:SS)	No
EndTime	string	End time (HH:MM:SS)	No
Field Description			
ScheduleCount_n:1-5			
<pre> <AlarmScheduleConfig> <ScheduleCount><!-- req, xs: int --></ScheduleCount> <ScheduleCount_1> <ScheduleID><!-- req, xs: int --></ScheduleID> <ScheduleName><!-- req, xs: string --></ScheduleName> <ScheduleEnable><!-- req, xs: int --></ScheduleEnable> <AlarmOutEnable><!-- req, xs: int --></AlarmOutEnable> <AlarmOutInterval><!-- required, xs: integer --></AlarmOutInterval> <PlayEnable><!-- req, xs: int --></PlayEnable> <PlayFile><!-- required, xs: string --></PlayFile> <Volume><!-- required, xs: integer --></Volume> <FrontLightEnable><!-- required, xs: integer --></FrontLightEnable> <FrontLightcolor1><!-- req, xs: int --></FrontLightcolor1> <FrontLightcolor2><!-- req, xs: int --></FrontLightcolor2> <FrontLightDisplayMode><!-- required, xs: integer --></FrontLightDisplayMode> <FrontLightBrightness><!-- required, xs: integer --></FrontLightBrightness> <FrontLightFrequency><!-- req, xs: int --></FrontLightFrequency> <BackLightEnable><!-- required, xs: integer --></BackLightEnable> </pre>			

```

    <BackLightcolor><!-- req, xs: int --></BackLightcolor>
    <BackLightDisplayMode><!-- req, xs: int --></BackLightDisplayMode>
    <BackLightBrightness><!-- required, xs: integer --></BackLightBrightness>
    <BackLightFrequency><!-- required, xs: integer --></BackLightFrequency>
    <HTTPMsgEnabled><!-- required, xs: integer --></HTTPMsgEnabled>
    <TCPIPMsgEnabled><!-- required, xs: integer --></TCPIPMsgEnabled>
    <MQTTMsgEnabled><!-- required, xs: integer --></MQTTMsgEnabled>
    <EmailEnabled><!-- required, xs: integer --></EmailEnabled>
    <BroadcastEnabled><!-- required, xs: integer --></BroadcastEnabled>
    <WeekDays><!-- required, xs: string --></WeekDays>
    <BeginTime><!-- req, xs: string --></BeginTime>
    <EndTime><!-- required, xs: string --></EndTime>
  </ScheduleCount_1>
</AlarmScheduleConfig>

```

2.4.10 Get/Set OSD Parameters

/ISAPI/OSD/OSDInfo?ID=SessionID			
POST			
Description	Get OSD Parameters		
PUT			
Description	Set OSD Parameters		
Field	Type	Description	Required
OSDType	int	0:Date and Time 1:Custom Information	Yes
Enabled	int	0: Disabled 1: Enabled	No
DateFormat	int	0:YYYY-MM-DD 1:MM-DD-YYYY 2:DD-MM-YYYY	No
OSDText	string	OSDText	No
X	int	X Position(0-1000)	No
Y	int	Y Position(0-1000)	No
FontSize	int	FontSize	No
FontColor	string	FontColor(#000000 - #FFFFFF)	No
<pre> <OSDInfo> <OSDParam_0> <OSDType><!-- req, xs: int --></OSDType> <Position> <Enabled><!-- req, xs: int --></Enabled> <OSDText><!-- req, xs: string --></OSDText> <X><!-- req, xs: int --></X> </pre>			

```

    <Y><!-- req, xs: int --></Y>
  </Position>
  <DateFormat><!-- req, xs: int --></DateFormat>
  <FontSize><!-- req, xs: int --></FontSize>
  <FontColor><!-- req, xs: string --></FontColor>
</OSDParam_0>
</OSDInfo>

```

2.4.11 Testing speaker sound

/ISAPI/TestItem/TestPlayAudio?ID=SessionID			
POST			
Description	Play audio. Send the following XML message via POST request. Normal response: 200 OK		
Field	Type	Description	Required
Enabled	int	0: Disabled 1: Enabled	No
FileType	int	0: System default files 1: Customer-defined files	No
FileName	string	When empty, plays default file	No
<pre> <TestPlayAudio> <Enabled><!-- req, xs: int --></Enabled> <FileType><!-- req, xs: int --></FileType> <FileName><!-- required, xs: string --></FileName> </TestPlayAudio> </pre>			

2.4.12 Testing GPIO

/ISAPI/TestItem/TestGPIO?ID=SessionID			
POST			
Description	Tests whether GPIO input/output functions correctly. Sends the following XML message via POST request. Returns 200 OK if normal.		
Field	Type	Description	Required
Enabled	int	0: Low 1: High Level	Yes
<pre> <TestGPIO> <Enabled><!-- req, xs: int --></Enabled> </TestGPIO> </pre>			

2.4.13 Test LED

/ISAPI/TestItem/TestLED?ID=SessionID			
POST			
Description	Tests whether the LED is functioning correctly. Sends the following XML message via POST request. Returns 200 OK if normal.		
Field	Type	Description	Required
RedEnabled	int	0: Disabled 1: Enabled	No
GreenEnabled	int	0: Disabled 1: Enabled	No
BlueEnabled	int	0: Disabled 1: Enabled	No
<pre><TestLED> <RedEnabled><!-- req, xs: int --></RedEnabled> <GreenEnabled><!-- req, xs: int --></GreenEnabled> <BlueEnabled><!-- req, xs: int --></BlueEnabled> </TestLED></pre>			

2.5 Network Parameters

2.5.1 Get/Set Network Parameters

/ISAPI/Network /NetworkConfig?ID=SessionID			
POST			
Description	Get network parameters. POST request with empty message. Normal response returns the following XML message content		
PUT			
Description	Configure network parameters and send the following XML message via a PUT request. A normal response returns 200 OK.		
Field	Type	Description	Required
MaxLink	int	Maximum link count (1-10), fixed at 10, cannot be set	No
DHCP	int	0: Disabled 1: Enabled	No
RtspAuthentication	int	0: No authentication 1: Authenticate	No
IpAddr	string	IP address	No
SubnetMask	string	Subnet mask	No
Gateway	string	Gateway	No
DNS1	string	Preferred DNS	No

DNS2	string	Alternate DNS	No
IPv6 Prefix Length	int	IPv6 prefix length	No
MACAddress	string	MAC Address	Yes
Name	string	Network card name	No
<pre> <NetworkConfig> <NetLink> <MaxLink><!-- req, xs: int --></MaxLink> <DHCP><!-- required, xs: integer --></DHCP> <RtspAuthentication><!-- required, xs: integer --></RtspAuthentication> <Name ><!-- req, xs: string --></Name> <Ipv4> <IpAddr><!-- req, xs: string --></IpAddr> <SubnetMask><!-- req, xs: string --></SubnetMask> <Gateway><!-- required, xs: string --></Gateway> <DNS1><!-- required, xs: string --></DNS1> <DNS2><!-- required, xs: string --></DNS2> </Ipv4> <Ipv6> <IpAddr><!-- req, xs: string --></IpAddr> <Gateway><!-- req, xs: string --></Gateway> <DNS1><!-- req, xs: string --></DNS1> <DNS2><!-- req, xs: string --></DNS2> <Ipv6PrefixLength><!-- req, xs: int --></Ipv6PrefixLength> </Ipv6> <MACAddress><!-- req, xs: string --></MACAddress> </NetLink> </NetworkConfig> </pre>			

2.5.2 Get/Set Email Parameters

/ISAPI/Network/Email?ID=SessionID			
POST			
Description	Get Email parameter. POST request with empty message returns the following XML message content normally		
PUT			
Description	Set email parameters. Send a PUT request with the following XML message content. A normal response returns 200 OK.		
Field	Type	Description	Required
Enabled	int	0: Disabled 1: Enabled	No
SensorAlarmTitle	string	Probe Alarm Title	No
SmtptServer	string	SMTP Server	No

SmtplibUser	string	Username	No
SmtplibPassword	string	Password	No
Sender	string	Sender	No
Receiver_1	string	Recipient (supports four groups)	No
SmtplibPort	int	SMTP port	No
<pre> <EmailStatus> <Enabled><!-- req, xs: int --></Enabled> <SensorAlarmTitle><!-- req, xs: string --></SensorAlarmTitle> <SmtplibServer><!-- req, xs: string --></SmtplibServer> <SmtplibUser><!-- required, xs: string --></SmtplibUser> <SmtplibPassword><!-- req, xs: string --></SmtplibPassword> <Sender><!-- req, xs: string --></Sender> <Receiver_1><!-- required, xs: string --></Receiver_1> <Receiver_2><!-- required, xs: string --></Receiver_2> <Receiver_3><!-- req, xs: string --></Receiver_3> <Receiver_4><!-- req, xs: string --></Receiver_4> <SmtplibPort><!-- req, xs: int --></SmtplibPort> </EmailStatus> </pre>			

2.5.3 Get/Set WiFi Parameters

/ISAPI/System/WifiConfig?ID=SessionID			
POST			
Description	Get Wi-Fi parameters. POST request with empty message body. Normal response returns the following XML message content		
PUT			
Description	Set Wi-Fi parameters. Send the following XML message via a PUT request. A normal response returns 200 OK.		
Field	Type	Description	Required
Enabled	int	0: Disabled 1: Enabled	No
Status	int	0: Disconnected 1: Connected	No
SSID name	string	Wifi name	No
Passwd	string	Wifi password	No
<pre> <WifiConfig> <Enabled><!-- req, xs: int --></Enabled> <Status><!-- required, xs: integer --></Status> <SSIDname><!-- required, xs: string --></SSIDname> </pre>			

```
<Passwd><!-- required, xs: string --></Passwd>
</WifiConfig>
```

2.5.4 Get WiFi network parameters

/ISAPI/System/WifiInfo?ID=SessionID			
POST			
Description	Get Wi-Fi network parameters. POST request with empty message body. Normal response returns the following XML message content		
Field	Type	Description	Required
IpAddr	string	IP Address	No
SubMask	string	Subnet mask	No
Broadcast	string	Broadcast	No
Gateway	string	Gateway	No
Mac Address	string	Mac Address	No
<pre><WifiInfo> <IpAddr><!-- req, xs: string --></IpAddr> <SubMask><!-- req, xs: string --></SubMask> <Broadcast><!-- req, xs: string --></Broadcast> <Gateway><!-- required, xs: string --></Gateway> <MacAddr><!-- required, xs: string --></MacAddr> </WifiInfo></pre>			

2.5.5 Get WiFi list

/ISAPI/System/WifiScanResult?ID=SessionID			
POST			
Description	Get other Wi-Fi parameters. POST request with empty message body. Normal response returns the following XML message content		
Field	Type	Description	Required
Count	int	Number of Wi-Fi networks	No
Signal Level	int	Signal strength, with the following values representing weak to strong signals, where	No

		0 is weakest and 4 is strongest: 0: (~, -100] dB 1: (-100, -88] dB 2: (-88, -77] dB 3: (-77, -55] dB 4: (-55, ~) dB	
SSID name	string	Wifi name	No
<pre> <ScanResult> <Count><!-- req, xs: int --></Count> <Wifi_0> <SignalLevel><!-- required, xs: string --></SignalLevel> <SSIDname><!-- required, xs: string --></SSIDname> </Wifi_0> ... <Wifi_n> <SignalLevel><!-- required, xs: string --></SignalLevel> <SSIDname><!-- req, xs: string --></SSIDname> </Wifi_n> </ScanResult> </pre>			

2.5.6 Get/Set HTTPs Parameters

/ISAPI/Network/HTTPs?ID=SessionID			
POST			
Description	Get HTTPs parameters. POST request with empty message body. Normal response returns the following XML message content		
PUT			
Description	Set HTTPs parameters. Send the following XML message via PUT request. Normal response: 200 OK		
Field	Type	Description	Required
Enabled	int	0: Disabled 1: Enabled	No
HTTPsPort	int	HTTPs port (443)	No
<pre> <HTTPsStatus> <Enabled><!-- req, xs: int --></Enabled> <HTTPsPort><!-- required, xs: integer --></HTTPsPort> </HTTPsStatus> </pre>			

2.5.7 Get/Set Remote RTSP Parameters

/ISAPI/Network/RemoteRTSP?ID=SessionID			
POST			
Description	Get server RTSP parameters. POST request with empty message body. Normal response returns the following XML message content		
PUT			
Description	Set server RTSP parameters. Send the following XML message via PUT request. A normal response returns 200 OK.		
Field	Type	Description	Required
Enabled	int	0: Disabled 1: Enabled	No
Url	string	Url	Yes
Port	int	port	Yes
UserName	string	Username (maximum 64 characters)	Yes
PassWord	string	Password (maximum 64 characters)	Yes
<pre> <RemoteRTSPConfig> <Enabled><!-- req, xs: int --></Enabled> <Url><!-- required, xs: string --></Url> <Port><!-- required, xs: integer --></Port> <UserName><!-- required, xs: string --></UserName> <PassWord><!-- req, xs: string --></PassWord> </RemoteRTSPConfig> </pre>			

2.5.8 Get/Set Other Parameters

/ISAPI/Network/ExtServerParam?ID=SessionID			
POST			
Description	Get other parameters		
PUT			
Description	Set other parameters		
Field	Type	Description	Required
ServerType	int	1: HTTP Service 2: ONVIF 3: RTSP	Yes
Enabled	int	0: Disabled	No

		1: Enabled	
Port	int	Port	No
<pre> <ExtServer> <Option_1> <ServerType><!-- req, xs: int --></ServerType> <Enabled><!-- req, xs: int --></Enabled> <Port><!-- required, xs: integer --></Port> </Option_1> </ExtServer> </pre>			

2.6 Event

2.6.1 Get/Set Probe Alarm Parameters

/ISAPI/Event/SensorAlarmParam?ID=SessionID			
POST			
Description	Get probe alarm parameters		
PUT			
Description	Set probe alarm parameters		
Field	Type	Description	Required
Enabled	int	0: Disabled 1: Enabled	Yes
AlarmInType	int	0: High level 1: Low Level	Yes
AlarmOutType	int	0: High level 1: Low level	Yes
<pre> <AlarmConfig> <Enabled><!-- req, xs: int --></Enabled> <AlarmInType><!-- req, xs: int --></AlarmInType> <AlarmOutType><!-- req, xs: int --></AlarmOutType> </AlarmConfig> </pre>			

2.6.2 Query Alarm Log

/ISAPI/Log/QueryLog?ID=SessionID			
POST			
Description	Query alarm log		
Field	Type	Description	Required
StartTime	string	Start time: 1 July 2018 18:00:00	Yes

EndTime	string	End Time: 1 July 2018 18:00:00	Yes
AlarmCount	int	Alarm Count	No
AlarmType	int	Alarm Type: 0: Sensor Alarm 1: API Alarm 2: Broadcast	No
AlarmTime	string	Time (TZ format, e.g.: 2018-07-01T18:00:00Z)	No
<p>Request XML</p> <pre><QueryLog> <StartTime><!-- req, xs: string --></StartTime> <EndTime><!-- req, xs: string --></EndTime> </QueryLog></pre> <p>Response XML</p> <pre><QueryLog> <AlarmCount><!-- req, xs: int --></AlarmCount> <AlarmCount_1> <AlarmType><!-- req, xs: int --></AlarmType> <AlarmTime><!-- req, xs: string --></AlarmTime> <AlarmCount_1> ... <AlarmCount_n> <AlarmType><!-- req, xs: int --></AlarmType> <AlarmTime><!-- req, xs: string --></AlarmTime> <AlarmCount_n> </QueryLog></pre>			

2.6.3 API Alarm Input

http://<DeviceIp>/ISAPI/Event/ApiAlarm			
POST			
Description	Api Alarm		
Field	Type	Description	Required
AlarmEnable	int	0: Disabled 1: Enabled	No
AlarmOutEnable	int	0: Disabled 1: Enabled	No
AlarmOutDuration	int	Alarm output duration per trigger, default 60 seconds	No
PlayEnable	int	0: Disabled 1: Enabled	No
PlayFile	string	File name	No

Volume	int	Volume(0-100)	No
CycleMode	int	CycleMode: 0:Once only 1:Multiple times 2:Infinite	No
PlayTimes	int	Configure playback count when selecting multiple times	No
Interval	int	Playback interval time, in seconds	No
FrontLightEnable	int	0: Disabled 1: Enabled	No
FrontLightColor1	int	1:RedColor 2:GreenColor 3:BlueColor 4:WhiteColor 5:Yellow 6:Violet 7:Cyan	No
FrontLightColor2	int	0:None 1:RedColor 2:GreenColor 3:BlueColor 4:WhiteColor 5:Yellow 6:Violet 7:Cyan	No
FrontLightDisplayMode	int	Display Mode 1: Steady 2: One-Second Blink (illuminates 10 times) 3: Two-Second Blink (illuminates 10 times) 4: Five-Second Blink (illuminates 5 times) 5: Breathe 6:Strobe	No
FrontLightBrightness	int	Only the following colors can be set to brightness levels 0-255 (low to high): 1:RedColor 2:GreenColor 3:BlueColor 4:WhiteColor	No
FrontLightFrequency	int	Only Strobe mode allows setting the flashing frequency, in	No

		milliseconds: default 100	
BackLightEnable	int	0: Disabled 1: Enabled	No
BackLightColor	int	1:RedColor 2:GreenColor 3:BlueColor 4:WhiteColor 5:Yellow 6:Violet 7:Cyan	No
BackLightDisplayMode	int	Display Mode 1:Steady 2:Chase	No
BackLightBrightness	int	Only the following colors can be set to brightness levels 0-255 (low to high): 1:RedColor 2:GreenColor 3:BlueColor 4:WhiteColor	No
BackLightFrequency	int	Only Strobe mode can set the flashing frequency, in milliseconds: default 100	
HttpMsgEnabled	int	0: Disabled 1: Enabled	No
EmailEnabled	int	0: Disabled 1: Enabled	No
BroadcastEnabled	int	0: Disabled 1: Enabled	No
<pre> <ApiAlarm> <AlarmEnable><!-- req, xs: int --></AlarmEnable> <AlarmOutEnable><!-- req, xs: int --></AlarmOutEnable> <AlarmOutDuration><!-- req, xs: int --></AlarmOutDuration> <PlayEnable><!-- req, xs: int --></PlayEnable> <PlayFile><!-- req, xs: string --></PlayFile> <Volume><!-- req, xs: int --></Volume> <CycleMode><!-- req, xs: int --></CycleMode> <PlayTimes><!-- req, xs: int --></PlayTimes> <Interval><!-- req, xs: int --></Interval> <FrontLightEnable><!-- req, xs: int --></FrontLightEnable> <FrontLightColor1><!-- req, xs: int --></FrontLightColor1> <FrontLightColor2><!-- req, xs: int --></FrontLightColor2> <FrontLightDisplayMode><!-- req, xs: int --></FrontLightDisplayMode> <FrontLightBrightness><!-- req, xs: int --></FrontLightBrightness> </pre>			

```

<BackLightEnable><!-- req, xs: int --></BackLightEnable>
<BackLightColor><!-- req, xs: int --></BackLightColor>
<BackLightDisplayMode><!-- req, xs: int --></BackLightDisplayMode>
<BackLightBrightness><!-- req, xs: int --></BackLightBrightness>
<HttpMsgEnabled ><!-- req, xs: int --></HttpMsgEnabled >
<EmailEnabled><!-- req, xs: int --></EmailEnabled>
<BroadcastEnabled><!-- req, xs: int --></BroadcastEnabled>
</ApiAlarm>

```

2.7 System Parameters

2.7.1 Get/Set NTP

/ISAPI/System/NTP?ID=SessionID			
POST			
Description	Get NTP,POST request with empty message body. Normal response returns the following XML message content		
PUT			
Description	Set NTP, PUT request with the following XML message content. Normal response: 200 OK		
Field	Type	Description	Required
TZ	string	Time Zone e.g.: GMT+08:00 or GMT-08:00	No
IsUpdateTime	int	Update time: 0: No 1: Yes	No
Enabled	int	0: Disabled 1: Enabled	No
DST	int	Daylight Saving Time: 0: No 1: Yes	No
UTCDateTime	string	TZ format, e.g.: 2018-07-01T18:00:00Z	No
NTPServer	string	NTP server	No
<pre> <NTPStatus> <TimeZone> <TZ><!-- req, xs: string --></TZ> </TimeZone> <IsUpdateTime><!-- req, xs: int --></IsUpdateTime> <Enabled><!-- required, xs: integer --></Enabled> <DST><!-- required, xs: integer --></DST> </pre>			

```

<UTCDateTime><!-- required, xs: string --></UTCDateTime>
<NTPServer><!-- required, xs: string --></NTPServer>
</NTPStatus>

```

2.7.2 Restore Factory Settings

/ISAPI/System/RestoreDefault?ID=SessionID	
PUT	
Description	Restore factory settings. The POST request contains the following XML message content
Field Description Enabled: Factory reset (0: Disabled 1: Enabled)	
<pre> <RestoreDefault> <Enabled><!-- req, xs: int --></Enabled> </RestoreDefault> </pre>	

2.7.3 Device Reboot

/ISAPI/System/Reboot?ID=SessionID	
PUT	
Description	Device restart. POST request with the following XML message content
Field Description Enabled: Device reboot (0: Disabled 1: Enabled)	
<pre> <Reboot> <Enabled><!-- req, xs: int --></Enabled> </Reboot> </pre>	

2.8 User Management

2.8.1 User Configuration

/ISAPI/UserManagement/UsrConfig?ID=SessionID			
POST			
Description	Get user information. POST request with empty message body. Normal response returns the following XML message content		
PUT			
Description	Set user information		
Field	Type	Description	Required
UserName	string	Username (maximum	Yes

		32 characters)	
Password	string	Password (maximum 32 characters)	Yes
Privilege	int	0: Administrator 1: Maintenance personnel 2: Ordinary User	Yes
<pre> <UserManagement > <UserName ><!-- req, xs: string--></ UserName > <Password ><!-- req, xs: string--></ Password > <Privilege ><!-- req, xs: int --></ Privilege > </UserManagement > </pre>			

2.8.2 Add User

/ISAPI/UserManagement/AddUsr?ID=SessionID			
PUT			
Description	Add User		
Field	Type	Description	Required
UserName	string	Username (maximum 32 characters)	Yes
Password	string	Password (maximum 32 characters)	Yes
Privilege	int	0: Administrator 1: Maintenance personnel 2: Ordinary User	Yes
<pre> <AddUsr> <UserName ><!-- req, xs: string--></ UserName > <PassWord ><!-- required, xs: string--></ PassWord > <Privilege ><!-- required, xs: integer --></ Privilege > </AddUsr> </pre>			

2.8.3 Delete User

/ISAPI/UserManagement/DelUsr?ID=SessionID			
PUT			
Description	Delete User		
Field	Type	Description	Required
UserName	string	Username (maximum 32 characters)	Yes
<pre> <DelUsr> <UserName ><!-- req, xs: string--></ UserName > </DelUsr> </pre>			

Note: Maximum of 30 users.

3 Device Search

3.1 Device Search

Protocol Type: UDP Multicast

Protocol Port: 3704

Multicast IP Address: 239.255.255.250

UDP			
Description	Device Discovery		
Field	Type	Description	Required
DeviceName	string	Device Name	Yes
DeviceModel	string	Device Model	Yes
SerialNumber	string	Serial Number	Yes
SoftwareVersion	string	Software Version	Yes
IP Address	string	IP Address	Yes
MacAddr	string	MAC address	Yes
SubnetMask	string	Subnet Mask	Yes
Gateway	string	Gateway	Yes
DNSIPAddress 1	string	Preferred DNS	Yes
DNSIPAddress 2	string	Alternate DNS	Yes
HTTPPort	int	HTTP port	Yes
HTTPSPort	int	HTTPS port	Yes
ONVIFPort	int	ONVIF port	Yes
RTSPPort	int	RTSP port	Yes
DHCPEnabled	int	0: Disabled 1: Enabled	Yes
Request XML			
<Discovery/>			
Response XML			
<Discovery>			
<DeviceName><!-- req, xs: string --></DeviceName>			
<DeviceModel><!-- req, xs: string --></DeviceModel>			
<SerialNumber><!-- req, xs: string --></SerialNumber>			
<SoftwareVersion><!-- req, xs: string --></SoftwareVersion>			
<IPAddr><!-- required, xs: string --></IPAddr>			
<MacAddr><!-- required, xs: string --></MacAddr>			
<SubnetMask><!-- required, xs: string --></SubnetMask>			

```

<Gateway><!-- required, xs: string --></Gateway>
<DNSIpAddr1><!-- required, xs: string --></DNSIpAddr1>
<DNSIpAddr2><!-- req, xs: string --></DNSIpAddr2>
<HTTPPort><!-- req, xs: int --></HTTPPort>
<HTTPSPort><!-- required, xs: integer --></HTTPSPort>
<ONVIFPort><!-- required, xs: integer --></ONVIFPort>
<RTSPPort><!-- required, xs: integer --></RTSPPort>
<DHCPEnabled><!-- required, xs: integer --></DHCPEnabled>
</Discovery>

```

3.2 Modify device information

Protocol Type: UDP Multicast

Protocol port: 3704

Multicast IP Address: 239.255.255.250

UDP			
Description	Modify device information		
Field	Type	Description	Required
DeviceUsername	string	Username	DevicePassword
DevicePassword	string	Password	Yes
IPAddr	string	IP address	Yes
MacAddr	string	MAC Address	Yes
NewIP	string	New IP	Yes
SubnetMask	string	Subnet Mask	Yes
Gateway	string	Gateway	Yes
DHCPEnabled	int	0: Disabled 1: Enabled	Yes
DNSIPAddress1	string	Preferred DNS	No
DNSIPAddress2	string	Alternate DNS	No
Request XML			
<pre> <ModifyDevice> <DeviceUsername><!-- req, xs: string --></DeviceUsername> <DevicePassword><!-- required, xs: string --></DevicePassword> <IPAddr><!-- required, xs: string --></IPAddr> <MacAddr><!-- required, xs: string --></MacAddr> <NewIP><!-- required, xs: string --></NewIP> <SubnetMask><!-- required, xs: string --></SubnetMask> <Gateway><!-- required, xs: string --></Gateway> <DHCPEnabled><!-- required, xs: integer --></DHCPEnabled> <DNSIPAddr1><!-- required, xs: string --></DNSIPAddr1> <DNSIPAddr2><!-- required, xs: string --></DNSIPAddr2> </ModifyDevice> </pre>			

UDP			
Description	Modify device information response		
Field	Type	Description	Required
Result	string	Result (Success/Fail)	Yes
MAC	string	Device MAC address	Yes
IPAddr	string	Device IP address	Yes
Response XML <ModifyDevice> <Result><!-- req, xs: string --></Result> <MAC><!-- req, xs: string --></MAC> <IPAddr><!-- req, xs: string --></IPAddr> </ModifyDevice>			

4 Alarm Linkage

4.1 Configure HTTP integration

/ISAPI/AlarmLink/HttpLinkConfig?ID=SessionID			
POST			
Description	HTTP message transmission; POST request with empty message body; normal response returns the following XML message content		
PUT			
Description	HTTP message configuration: PUT request with the following XML message content, returns 200 OK as expected.		
Field	Type	Description	Required
Enabled	int	0: Disable 1: Enabled	No
Server	string	Server	No
AuthMethod	int	0:None 1:Private Key Value Pairs 2:Bearer Authentication 3: Basic Authentication	No
AuthKey	string	AuthKey	No
AuthValue	string	AuthValue	No
<HttpLinkConfig> <Enabled><!-- req, xs: int --></Enabled> <Server><!-- required, xs: string --></Server> <AuthMethod><!-- required, xs: string --></AuthMethod> <AuthKey><!-- req, xs: string --></AuthKey> <AuthValue><!-- req, xs: string --></AuthValue> </HttpLinkConfig>			

4.2 Configure Broadcast Link

/ISAPI/AlarmLink/BroadcastLinkConfig?ID=SessionID			
POST			
Description	Get BroadcastConfig message transmission. POST request with empty message returns the following XML message content as normal		
PUT			
Description	Configure BroadcastConfig message sending. PUT request with the following XML message content. Normal response: 200 OK		
Field	Type	Description	Required
BroadcastType	int	0: Disabled 1: Full Network 2: IP List 3: IP Segment	No
IpCount	int	IpCount	
IpAddr_n-1	string	Each IP separated by a line break	No
BeginIp	string	Start IP	
EndIp	string	End IP	
IsAcceptBroadcast	int	Accept Broadcast Alarm Messages from Other Devices 0: Disabled 1: Enabled	No
<pre> <BroadcastLinkConfig> <BroadcastType><!-- req, xs: int --></BroadcastType> <IpCount><!-- req, xs: int --></IpCount> <IpAddr_0><!-- req, xs: string --></IpAddr_0> ... <IpAddr_n-1><!-- req, xs: string --></IpAddr_n-1> <BeginIp><!-- req, xs: string --></BeginIp> <EndIp><!-- req, xs: string --></EndIp> <IsAcceptBroadcast><!-- req, xs: int --></IsAcceptBroadcast> </BroadcastLinkConfig> </pre>			

4.3 Alarm Content

/ISAPI/AlarmLink/AlarmLinkMsg?ID=SessionID	
POST	

Description	Alarm message transmission		
Field	Type	Description	Required
DeviceID	int	Device ID	No
SoftwareVer	string	Software Version	No
MAC Address	string	MAC Address	No
IPAddress	string	IP Address	No
AlarmType	int	0: GPIO 1:HTTP	No
AlarmTime	string	Time (TZ format, e.g.: 2018-07-01T18:00:00Z)	No
<pre> <AlarmLinkMsg> <DeviceID><! -- req, xs: int --></DeviceID> <SoftwareVer><! -- required, xs: string --></SoftwareVer> <MACAddress><! -- req, xs: string --></MACAddress> <IPAddress><! -- required, xs: string --></IPAddress> <AlarmType><! -- required, xs: integer --></AlarmType> <AlarmTime><! -- required, xs: string --></AlarmTime> </AlarmLinkMsg> </pre>			