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LiteAPI Document for IP Speaker

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1 Overview

1.1 Purpose

This document details the open LiteAPIs of IP Speaker, calling methods, application scenarios, etc. This document provides a reference for developers who will develop functions based on these APIs.

1.2 Intended Audience

This document is intended for third-party manufacturers and developers engaging in application development based on the capabilities provided by the IP Speaker.

Readers should possess the following skills to fully comprehend the content of this document:

- Proficient computer programming skills. One or more common programming languages such as Java, C++.
- Good knowledge of networking. Proficiency in network programing and familiarity with common protocols such as UDP, TCP, HTTP, RTSP, etc.

1.3 Reading Instructions

In order to quickly understand the API functions provided by the platform and to get started, it is recommended to follow the following sequence to read the remaining content of this document:

- Refer to the Glossary section to gain preliminary knowledge of the terminologies that may appear in the document.
- Refer to the Preparation section for the integration process.
- Refer to the Protocol Overview section to grasp the API invocation methods.
- Refer to the API Overview section to gain a preliminary understanding and insight into the capabilities provided by the platform.
- Read the Programming Guide section to understand the APIs required for the functionalities of each module and the related dispatch process. By following these steps, you can quickly locate specific module interfaces based on integration requirements and understand the API dispatch process.
- Read the API List section and search for APIs by category. By reading the descriptions of the APIs, understand their specific functions and select the ones that are needed.
- Complete coding and application development in accordance with API definitions.

1.4 Glossary

Terminology	Meaning
LiteAPI	Lightweight open interface based on the Restful style of the HTTP protocol.
Http Method	Method of the HTTP request. Commonly used methods include GET, POST, PUT, and DELETE.
Request Headers	Header information in the HTTP request.

HTTP URL	HTTP request path, referring to the part after the domain name/IP (port number). For example, the request address is "http://192.168.1.1:80/LAPI/V1.0/System/Time/NTP", then the URL refers to " /LAPI/V1.0/System/Time/NTP "
RTSP	Real Time Streaming Protocol (RTSP) is a network application protocol designed specifically for entertainment and communication systems to control streaming media service. This protocol is used to establish and control media sessions between terminals. Clients of the media server issue VCR commands, such as play, record, and pause, in order to control media streams from the server to the client (video on demand) or from the client to the server (voice recording) in real time.
RTP	Real time Transport Protocol (RTP) is a network transport protocol, which was published by the Multimedia Transport Working Group of the IETF in RFC 1889 in 1996.

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2 Preparation

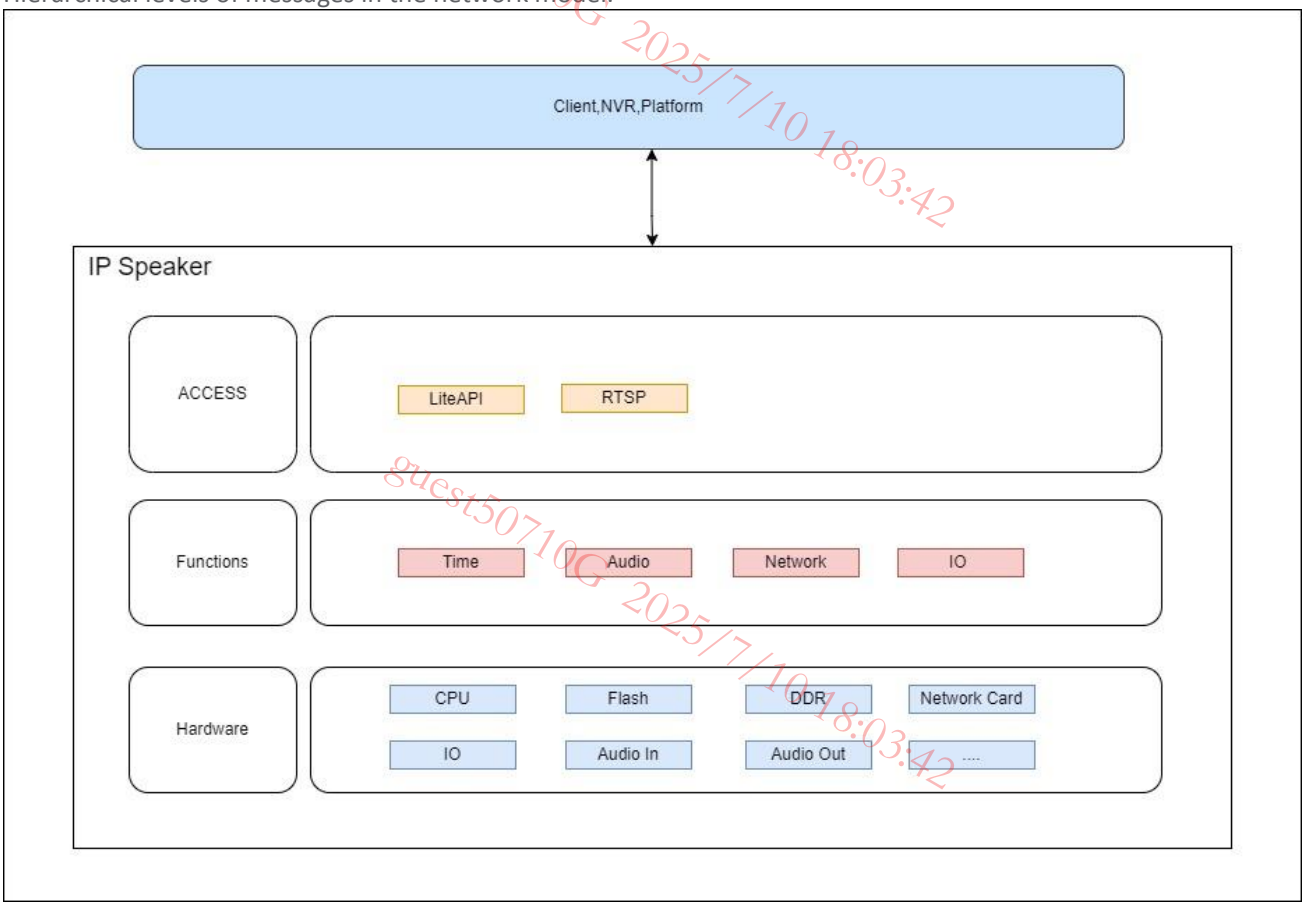
2.1 Environment

When users connect to the device through LiteAPI, the device acts as the server and listens to fixed ports (80, 554), and the user program logs in to the device as the client for communication. This requires the device to have a fixed IP address and ensure that client requests can reach the device.

When the client subscribes to events from the device, it is necessary to ensure that the event push messages sent by the device can reach the event receiving server.

The user program functions as an HTTP client to access and configure the device; or as an RTSP client to play the live and recorded video on the device.

Hierarchical levels of messages in the network model.



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3 Protocol Overview

3.1 Interface Rules

Transport Mode	HTTP/TCP,RTSP/TCP, RTSP/TCP/
URL format	/LAPI/V1.0[/Channels/<ID>]/<service-name>/<resource-name>[/<child-resource-name>][/<ID>]][?<key>=<value>] [ ]: Represents a parameter, which can be a string or an unsigned long integer. < >: Represents a video input channel (referred to as video channel for short) of a device. <ID>: Represents the video channel ID, which is an unsigned long integer. <Service-name>: We categorize services into several types, such as system, media, network, etc. <resource-name>: Includes physical resources and virtual resources.
Submission method	GET, PUT, POST, DELETE
Data format	Both requests and responses are in JSON formats.
Character encoding	All uses UTF-8 encoding.
Security authentication	HTTP Digest

3.2 Call Authentication

See Authentication in the Programming Guide section.

3.3 Rules of Return Values

The APIs are called in Json format.

- The request content format is as follows:

PUT /LAPI/V1.0/System/Time/NTP HTTP/1.1

```
{
   "Enabled":1,
   "AddressType":0,
   "Address":"24.56.178.140",
   "Port":123,
   "SynchronizeInterval":60
}
```

- The return format is as follows:

HTTP/1.1 200 Ok

```
{
   "Response":{
      "ResponseURL":"URL",
      "ResponseCode":0,
      "SubResponseCode":101,
      "ResponseString":"Succeed",
      "StatusCode":0,
```

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```
    "Data":"Null"
  }
}
```

ResponseURL: URL carried in the HTTP request. When the request uses the GET/PUT/DELETE method, the URL in the response is the same as the URL in the request. For a POST request, it is the URL of the newly created object. The client can use the URL to directly obtain the new object.

ResponseCode: Indicates the system processing result. 0 means success.

ResponseString: Indicates the analysis of system processing results.

Data: Represents the response to a request (GET), often in JSON format. If the URLs are the same, the data format of the PUT request is the same as that of the GET response. The Data item in the following tables lists the data of each API. If the server processing fails, the data will be “null”. If the HTTP request uses the PUT/POST method, the data in the response will be “null”.

3.4 Public Return Codes

3.4.1 HTTP Error Codes

200 Normal: Request completed.

201 Normal: Followed by POST command.

202 Normal: Request has been received and is still being processed.

203 Normal: Partial info -- Only partial info was returned.

204 Normal: No response -- Request has been received, but there's no response to be returned.

3xx Redirect

301 Moved - The requested data has been moved to a new location permanently.

302 Found - The requested data is temporarily located at a different URL.

303 See Other - Please refer to another URL, where the response to the request can be found, and GET should be used to retrieve the response.

304 Unmodified - The document was not modified as expected.

305 Using Proxy - It is necessary to access the requested resource through the proxy provided in the URL.

306 Unused - No longer in use; this code is kept for future use.

4xx Client Error

400 Bad Request - The request contains a syntax problem or cannot be fulfilled.

401 Unauthorized - The client is not authorized to access the data.

402 Payment Required - Indicates that the billing system is operational.

403 Forbidden - Access is forbidden, even with authorization.

404 Not Found - The server cannot find the requested resource; the document does not exist.

405 Method Not Allowed - The requested resource does not support the corresponding request method.

406 The client browser does not accept the MIME type of the requested page.

407 Proxy Authentication Required - The client must first authenticate itself with the proxy.

410 The requested webpage does not exist.

415 The media type is not supported - The server denies the request because it doesn't support the format of the request entity.

5xx Server Error
500 Internal Error - The server cannot fulfill the request due to unexpected circumstances.
501 Not Executed - The server does not recognize or does not support the corresponding request method.
502 Erroneous Gateway - The server received an invalid response from an upper level server.
503 Service Unavailable - The server is unable to process the request due to temporary overload or maintenance.

3.4.2 Internal Error Codes

Application errors, which are “ResponseCode”:
0: Succeed
1: Common Error
2: Invalid Arguments
3: Not Authorized
4: Not Supported
5: System Busy

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4 API Overview

This document provides APIs for the following functions:

- 1. Basic device information, including the model, name, and IP of the device.
- 2. Parameter configuration of audio channels.
- 3. Audio Media operations including playback, two-way audio.
- 4. Device maintenance: device restart, device upgrade, restoring factory defaults.

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5 Programming Guide

5.1 Security

5.1.1 Authentication

All LAPIs in this manual use Digest authentication. See RFC2617 document for more information.

The calculation rules for Digest authentication are as follows:

If qop=Undefined

Digest=MD5(MD5(A1):<nonce>:MD5(A2))

If qop="auth:"

Digest=MD5(MD5(A1):<nonce>:<nc>:<cnonce>:<qop>:MD5(A2))

If qop="auth-int:"

Digest=MD5(MD5(A1):<nonce>:<nc>:<cnonce>:<qop>:MD5(A2))

Among which, A1 and A2 are the two pieces of data used to calculate the digest.

If the digest algorithm is MD5:

A1=<user>:<realm>:<password>;

If the digest algorithm is MD5-sess:

A1=MD5(<user>:<realm>:<password>):<nonce>:<cnonce>.

If qop is undefined or if qop="auth:"

A2=<request-method>:<uri-directive-value>;

If qop="auth-int:"

A2=<request-method>:<uri-directive-value>:MD5(<request-entity-body>).

5.2 Basic Info and Configuration

Get the basic device info, including device name, device type, device model, firmware version, etc.

Function	API URL
Get the basic device info	GET /LAPI/V1.0/System/DeviceInfo

5.3 System Time Configuration

Set the system time, Daylight Saving Time (DST), NTP server info, and time sync mode.

Function	API URL
Get or set the system time.	GET or PUT /LAPI/V1.0/System/Time

5.4 Media

5.4.1 Audio

Get or set audio input and output parameters.

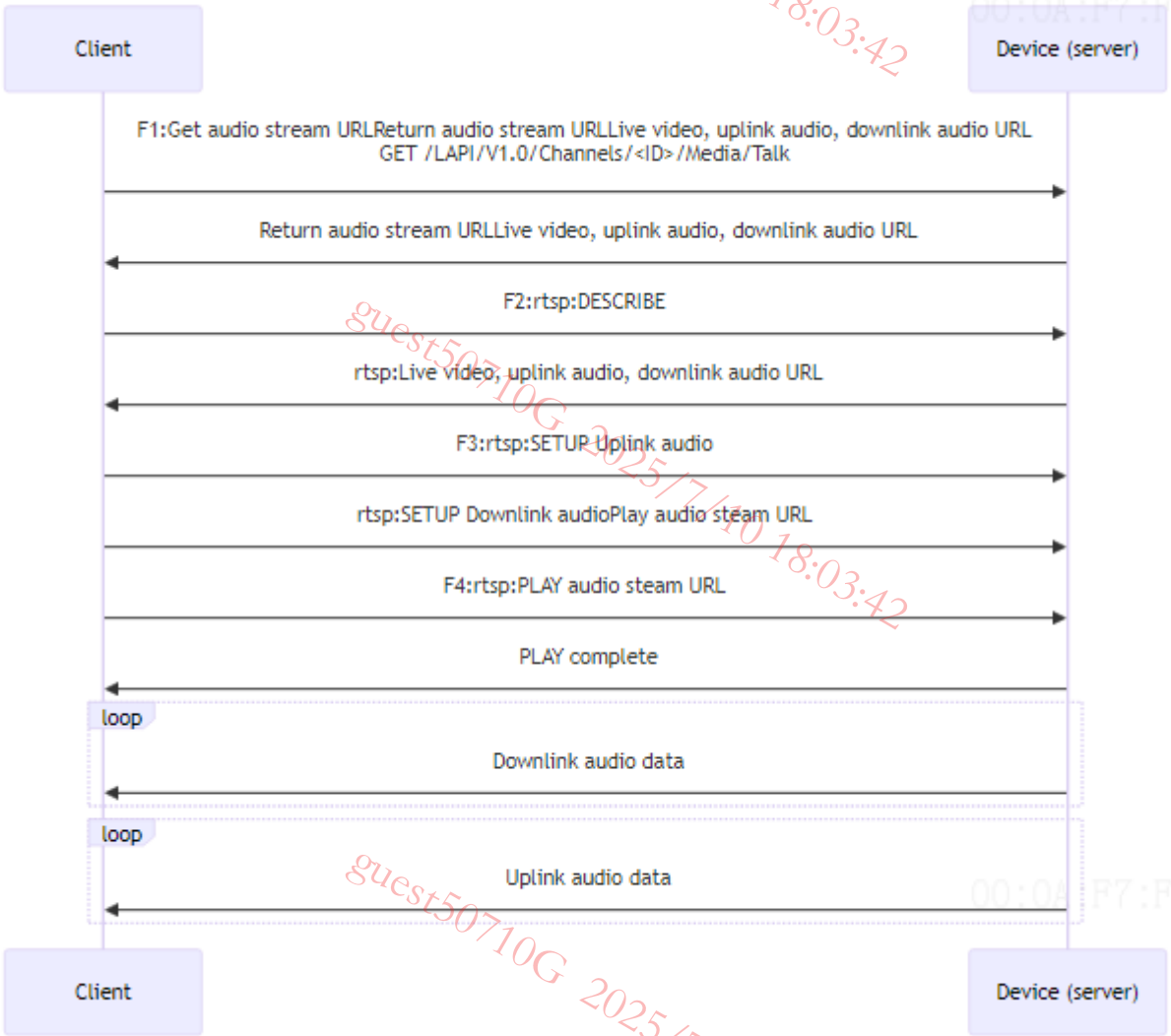
Function	API URL
Get or set audio input parameters.	GET or PUT /LAPI/V1.0/Channels/<ID>/AudioChannel/<ID>/AudioInput
Get or set audio output parameters.	GET or PUT /LAPI/V1.0/Channels/<ID>/AudioChannel/<ID>/AudioInput

5.4.2Two-way audio

Two-way audio uses the API to obtain an RTSP URL, and then uses the RTSP protocol to request for media streams.

Function	API URL
Get the stream URL for two-way audio.	/LAPI/V1.0/Media/Talk[?ChannelType=<Type>&ChannelID=<ID>]

Process description:



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F1: The client sends an LAPI message to the device to obtain the stream URL for two-way audio.

F2: Get the URLs for two-way audio through RTSP's DESCRIBE message.

F3: Initiate stream setup for two-way audio through RTSP's SETUP message.

F4: Transport audio steam data.

5.5 Operation and Maintenance

5.5.1 Device Restart

Restart device.

Function	API URL
Restart device	PUT /LAPI/V1.0/System/Reboot

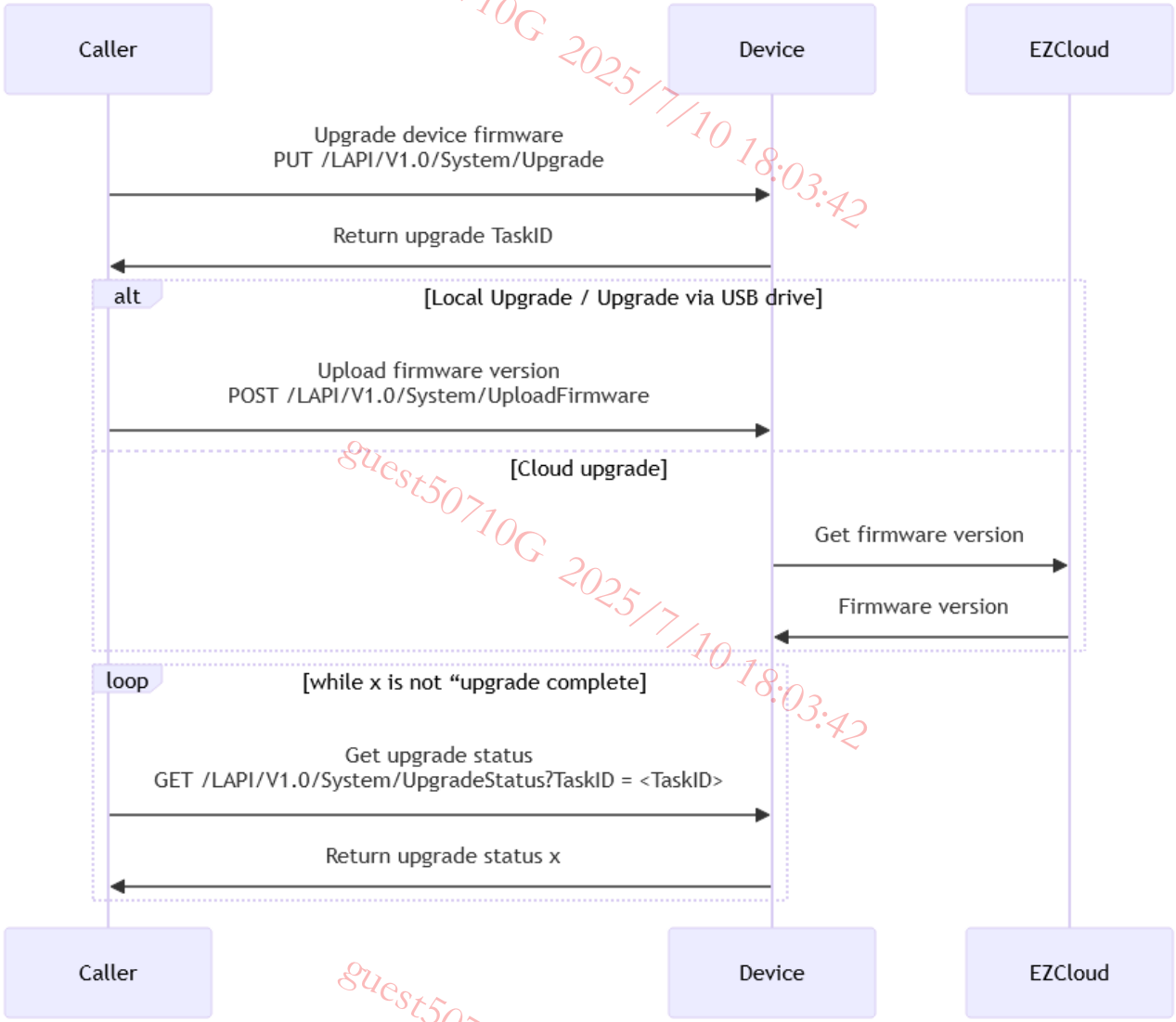
5.5.2 Device Upgrade

Upgrade device firmware version, including performing upgrade, uploading version file, querying upgrade status.

Function	API URL
Upgrade device firmware.	PUT /LAPI/V1.0/System/Upgrade
Upload firmware version	POST /LAPI/V1.0/System/UploadFirmware
Get device upgrade status.	GET /LAPI/V1.0/System/UpgradeStatus

Firmware upgrade flowchart:

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5.5.3 Restore Factory Defaults

Restore the device to defaults, including Default and Factory Default.

Default: Restore factory default settings, except user settings and network settings.

Factory Default: Restore all default settings, including user settings and network settings.

Function	API URL
Restore device to default settings.	PUT /LAPI/V1.0/System/FactoryReset

5.6 Audio File Mangement

Audio File Management:Query Audio Files,Import Audio Files,Modify Audio Files,Delete Audio Files

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Function	API URL
Query Audio Files	GET /LAPI/V1.0/Channels/AudioChannel/<ID>/AudioFile/Info
Import Audio File	POST /LAPI/V1.0/Channels/AudioChannel/<ID>/AudioFile
Modify Audio File	PUT /LAPI/V1.0/Channels/AudioChannel/<ID>/AudioFile/<ID>
Delete Audio Files	DELETE /LAPI/V1.0/Channels/AudioChannel/<ID>/AudioFile/<ID>

5.7 Audio Play Schedule

Audio Play Schedule: Management Audio play plan

Function	API URL
Query Audio Play Schedule	GET /LAPI/V1.0/Channels/AudioChannel/<ID>/AudioFile/Schedule
Create Audio Play Schedule	POST /LAPI/V1.0/Channels/AudioChannel/<ID>/AudioFile/Schedule
Modify Audio Play Schedule	PUT /LAPI/V1.0/Channels/AudioChannel/<ID>/AudioFile/Schedule/<ID>
Delete Audio Play Schedule	DELETE/LAPI/V1.0/Channels/AudioChannel/<ID>/AudioFile/Schedule

5.8 Play Audio File

Play Audio Stored on IPSpeaker

Function	API URL
Play Audio	POST /LAPI/V1.0/Channels/AudioChannel/<ID>/AudioFile/PlayFile
Stop play Audio	DELETE /LAPI/V1.0/Channels/AudioChannel/<ID>/AudioFile/PlayFile

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6 API List

6.1 System

6.1.1 Time

6.1.1.1 Get Device Time Information

6.1.1.1.1 Overview

Names	Description
Interface description	Get Device Time Information
Interface version	V1.0
Interface address	/LAPI/V1.0/System/Time
Interface request method	GET
How to submit data	application/json

6.1.1.1.2 URL Description

None

6.1.1.1.3 Request Parameters

None

6.1.1.1.4 Example for Request Parameters

None

6.1.1.1.5 Return Parameters

Parameter names	Parameter type	Parameter location	Required	Description
Response	object	body	true	
+ResponseURL	string	body	true	URL carried by the HTTP request packet
+ResponseCode	integer	body	true	System processes results. 0 indicates success
+SubResponseCode	integer	body	true	The system processes the child result. 0 indicates success
+ResponseString	string	body	true	Parsing the results of the system's processing

Parameter names	Parameter type	Parameter location	Required	Description
+StatusCode	integer	body	true	Status code
+Data	object	body	false	Response result
++TimeZone	string	body	true	Time zone character string, range: [1, 255], Cannot be entered freely, can only be selected from the following string enumeration: "GMT-12:00" "GMT-11:00" "GMT-10:00" "GMT-09:00" "GMT-08:00" "GMT-07:00" "GMT-06:00" "GMT-05:00" "GMT-04:30" "GMT-04:00" "GMT-03:30" "GMT-03:00" "GMT-02:00" "GMT-01:00" "GMT-00:00" "GMT+01:00" "GMT+02:00" "GMT+03:00 "GMT+03:30" "GMT+04:00" "GMT+04:30" "GMT+05:00" "GMT+05:30" "GMT+05:45" "GMT+06:00" "GMT+06:30" "GMT+07:00" "GMT+08:00" "GMT+09:00" "GMT+09:30" "GMT+10:00" "GMT+11:00" "GMT+12:00" "GMT+13:00"
++DeviceTime	integer	body	true	UTC time, in seconds

6.1.1.1.6 Example for Returning Parameters

```
{
   "Response": {
      "ResponseURL": "/LAPI/V1.0/System/Time",
      "ResponseCode": 0,
      "SubResponseCode": 0,
      "ResponseString": "Succeed",
      "StatusCode": 0,
      "Data": {
         "TimeZone": "string",
         "DeviceTime": 0
      }
```

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```
  }
}
```

6.1.1.2 Configuring Device Time Information

6.1.1.2.1 Overview

Names	Description
Interface description	Example for Returning Parameters
Interface version	V1.0
Interface address	/LAPI/V1.0/System/Time
Interface request method	PUT
How to submit data	application/json

6.1.1.2.2 URL Description

None

6.1.1.2.3 Request Parameters

Parameter names	Parameter type	Parameter location	Required	Description
TimeZone	string	body	true	Time zone character string, range: [1, 255], Cannot be entered freely, can only be selected from the following string enumeration: "GMT-12:00""GMT-11:00""GMT-10:00""GMT-09:00""GMT-08:00""GMT-07:00""GMT-06:00""GMT-05:00""GMT-04:30""GMT-04:00""GMT-03:30""GMT-03:00""GMT-02:00""GMT-01:00""GMT-00:00""GMT+01:00""GMT+02:00""GMT+03:00""GMT+03:30""GMT+04:00""GMT+04:30""GMT+05:00""GMT+05:30""GMT+05:45""GMT+06:00""GMT+06:30""GMT+07:00""GMT+08:00""GMT+09:00""GMT+09:30""GMT+10:00""GMT+11:00""GMT+12: 00""GMT+13:00"
DeviceTime	integer	body	true	Device UTC time, UTC time, in seconds.

6.1.1.2.4 Example for Request Parameters

```
{
   "TimeZone": "string",
   "DeviceTime": 0
}
```

6.1.1.2.5 Return Parameters

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Parameter names	Parameter type	Parameter location	Required	Description
Response	object	body	true	
+ResponseURL	string	body	true	URL carried by the HTTP request packet
+ResponseCode	integer	body	true	System processes results. 0 indicates success
+SubResponseCode	integer	body	true	The system processes the child result. 0 indicates success
+ResponseString	string	body	true	Parsing the results of the system's processing
+StatusCode	integer	body	true	Status code
+Data	object	body	true	Null

6.1.1.2.6 Example for Returning Parameters

```
{
   "Response": {
   "ResponseURL": "/LAPI/V1.0/System/Time",
      "ResponseCode": 0,
      "SubResponseCode": 0,
      "ResponseString": "Succeed",
      "StatusCode": 0,
      "Data": null
   }
}
```

6.1.1.3 Get Device Time Synchronization Method

6.1.1.3.1 Overview

Names	Description
Interface description	Get Device Time Synchronization Method
Interface version	V1.0
Interface address	/LAPI/V1.0/System/Time/SyncMode
Interface request method	GET
How to submit data	application/json

6.1.1.3.2 URL Description

None

6.1.1.3.3 Request Parameters

None

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6.1.1.3.4 Example for Request Parameters

None

6.1.1.3.5 Return Parameters

Parameter name	Parameter type	Parameter location	Required	Description
Response	object	body	true	
+ResponseURL	string	body	true	URL carried by the HTTP request packet
+ResponseCode	integer	body	true	System processes results. 0 indicates success
+SubResponseCode	integer	body	true	The system processes the child result. 0 indicates success
+ResponseString	string	body	true	Parsing the results of the system's processing
+StatusCode	integer	body	true	Status code
+Data	object	body	false	Response result
++Mode	integer	body	true	Time synchronization method 0: The default time synchronization mode is the same as the original time synchronization policy 1: The time synchronization source is from the sdk (UI configuration). 2: Time synchronization source is from stor (photo server) 3: Time synchronization source is from NET (NTP server) 4: Time synchronization source is from cc (management server non-ONVIF protocol) 5: Time synchronization source is from onvif (management server onvif protocol) 6: The time synchronization source is from the cloud server 7: The time synchronization source is from GPS/Beidou module

6.1.1.3.6 Example for Returning Parameters

```
{
   "Response": {
   "ResponseURL": "Request interface URL",
      "ResponseCode": 0,
      "SubResponseCode": 0,
      "ResponseString": "succeed",
      "StatusCode": 0,
      "Data": {
         "Mode": 0
      }
   }
}
```

6.1.1.4 Configuring Device Time Synchronization Mode

6.1.1.4.1 Overview

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Names	Description
Interface description	Configuring Device Time Synchronization Mode
Interface version	V1.0
Interface address	/LAPI/V1.0/System/Time/SyncMode
Interface request method	PUT
How to submit data	application/json

6.1.1.4.2 URL Description

None

6.1.1.4.3 Request Parameters

Parameter names	Parameter type	Parameter location	Required	Description
Mode	integer	body	true	Time synchronization method 0: The default time synchronization mode is the same as the original time synchronization policy 1: The time synchronization source is from the sdk (UI configuration). 2: Time synchronization source is from stor (photo server) 3: Time synchronization source is from NET (NTP server) 4: Time synchronization source is from cc (management server non-ONVIF protocol) 5: Time synchronization source is from onvif (management server onvif protocol) 6: The time synchronization source is from the cloud server 7: The time synchronization source is from GPS/Beidou module

6.1.1.4.4 Example for Request Parameters

```
{
   "Mode": 0
}
```

6.1.1.4.5 Return Parameters

Parameter name	Parameter type	Parameter location	Required	Description
Response	object	body	true	
+ResponseURL	string	body	true	URL carried by the HTTP request packet
+ResponseCode	integer	body	true	System processes results. 0 indicates success
+SubResponseCode	integer	body	true	The system processes the child result. 0 indicates success
+ResponseString	string	body	true	Parsing the results of the system's processing

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Parameter name	Parameter type	Parameter location	Required	Description
+StatusCode	integer	body	true	Status code
+Data	object	body	true	Null

6.1.1.4.6 Example for Returning Parameters

```
{
   "Response": {
      "ResponseURL": "/LAPI/V1.0/System/Time/SyncMode",
      "ResponseCode": 0,
      "SubResponseCode": 0,
      "ResponseString": "Succeed",
      "StatusCode": 0,
      "Data": null
   }
}
```

6.1.1.5 Get NTP Server Information

6.1.1.5.1 Overview

Names	Description
Interface description	Get NTP Server Information
Interface version	V1.0
Interface address	/LAPI/V1.0/System/Time/NTP
Interface request method	GET
How to submit data	application/json

6.1.1.5.2 URL Description

None

6.1.1.5.3 Request Parameters

None

6.1.1.5.4 Example for Request Parameters

None

6.1.1.5.5 Return Parameters

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Parameter name	Parameter type	Parameter location	Required	Description
Response	object	body	true	
+ResponseURL	string	body	true	URL carried by the HTTP request packet
+ResponseCode	integer	body	true	System processes results. 0 indicates success
+SubResponseCode	integer	body	true	The system processes the child result. 0 indicates success
+ResponseString	string	body	true	Parsing the results of the system's processing
+StatusCode	integer	body	true	Status code
+Data	object	body	false	Response result
++Num	integer	body	true	Number of NTP servers Currently, only one Num server is supported. Therefore, the maximum NUM value must be 1 Value range: [1, 1]
++NTPServerInfos	object[]	body	true	NTP Server Information
+++Enabled	integer	body	true	The NTP service is enabled 0: disables the NTP service 1: On
+++AddressType	integer	body	true	Address type IPV6 is not supported yet 0: IPV4 1: IPV6 2: Domain name
+++IPAddress	string	body	false	NTP server IP address If AddressType is 0, this parameter is mandatory String length range: [0, 63]
+++DomainName	string	body	false	NTP server domain name If AddressType is 2, this parameter is mandatory String length range: [0, 63]
+++Port	integer<uint32>	body	false	NTP port Value range: [1, 65535]
+++SynchronizeInterval	integer	body	true	NTP synchronization interval The following time periods need to be converted to a time value in seconds The value ranges from 30 to 86400s

6.1.1.5.6 Example for Returning Parameters

```
{
   "Response": {
   "ResponseURL": "/LAPI/V1.0/System/Time/NTP",
      "ResponseCode": 0,
      "SubResponseCode": 0,
      "ResponseString": "Succeed",
      "StatusCode": 0,
      "Data": {
```

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```
        "Num": 1,
        "NTPServerInfos": [
          {
            "Enabled": 1,
            "AddressType": 0,
            "IPAddress": "192.168.1.13",
            "DomainName": "string",
            "Port": 8088,
            "SynchronizeInterval": 300
          }
        ]
      }
    }
}
```


6.1.1.6 Configuring NTP Server Information

6.1.1.6.1 Overview

Names	Description
Interface description	Configure NTP Server Information
Interface version	V1.0
Interface address	/LAPI/V1.0/System/Time/NTP
Interface request method	PUT
How to submit data	application/json

6.1.1.6.2 URL Description

None

6.1.1.6.3 Request Parameters

Parameter names	Parameter type	Parameter location	Required	Description
Num	integer	body	true	Number of NTP servers Currently, only one Num is supported. Therefore, the maximum value of NUM is 1 Value range: [1, 1]
NTPServerInfos	object[]	body	true	NTP Server Information
+Enabled	integer	body	true	The NTP service is enabled 0: disables the NTP service 1: On
+AddressType	integer	body	true	Address type IPV6 is not supported yet 0: IPV4 1: IPV6 2: Domain name

Parameter names	Parameter type	Parameter location	Required	Description
+IPAddress	string	body	false	NTP server IP address If AddressType is 0, this parameter is mandatory String length range: [0, 63]
+DomainName	string	body	false	NTP server domain name If AddressType is 2, this parameter is mandatory String length range: [0, 63]
+Port	integer<uint32>	body	false	NTP port Value range: [1, 65535]
+SynchronizeInterval	integer	body	true	NTP synchronization interval The following time periods need to be converted to time values in seconds The value ranges from 30 to 86400s

6.1.1.6.3 Example for Request Parameters

```
{
  "Num": 1,
  "NTPServerInfo": [
    {
      "Enabled": 1,
      "AddressType": 0,
      "SynchronizeInterval": 300,
      IPAddress: "192.168.1.13",
      "Port": 8088
    }
  ]
}
```

6.1.1.6.5 Return Parameters

Parameter name	Parameter type	Parameter location	Required	Description
Response	object	body	true	
+ResponseURL	string	body	true	URL carried by the HTTP request packet
+ResponseCode	integer	body	true	System processes results. 0 indicates success
+SubResponseCode	integer	body	true	The system processes the child result. 0 indicates success
+ResponseString	string	body	true	Parsing the results of the system's processing
+StatusCode	integer	body	true	Status code
+Data	object	body	true	Null

6.1.1.6.6 Example for Returning Parameters

```
{
```


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```
  "Response": {
    "ResponseURL": "/LAPI/V1.0/System/Time/NTP",
    "ResponseCode": 0,
    "SubResponseCode": 0,
    "ResponseString": "Succeed",
    "StatusCode": 0,
    "Data": null
  }
}
```


6.1.2 Reboot

6.1.2.1 Restarting The Device

6.1.2.1.1 Overview

Names	Description
Interface description	Restarting The Device
Interface version	V1.0
Interface address	/LAPI/V1.0/System/Reboot
Interface request method	PUT
How to submit data	application/json

6.1.2.1.2 URL Description

None

6.1.2.1.3 Request Parameters

None

6.1.2.1.4 Example for Request Parameters

None

6.1.2.1.5 Return Parameters

Parameter names	Parameter type	Parameter location	Required	Description
Response	object	body	true	
+ResponseURL	string	body	true	URL carried by the HTTP request packet
+ResponseCode	integer	body	true	System processes results. 0 indicates success
+SubResponseCode	integer	body	true	The system processes the child result. 0 indicates success

Parameter names	Parameter type	Parameter location	Required	Description
+ResponseString	string	body	true	Parsing the results of the system's processing
+StatusCode	integer	body	true	Status code
+Data	object	body	true	Null

6.1.2.1.6 Example for Returning Parameters

```
{
   "Response": {
      "ResponseURL": "/LAPI/V1.0/System/Reboot".
      "ResponseCode": 0,
      "SubResponseCode": 0,
      "ResponseString": "Succeed",
      "StatusCode": 0,
      "Data": null
   }
}
```

6.1.3 Upgrade

6.1.3.1 Performing Device Software Upgrade

6.1.3.1.1 Overview

Names	Description
Interface description	When local upgrade, can pass/LAPI/V1.0/System/UploadFirmware upload software version. Can/LAPI/V1.0/System/UpgradeStatus interface to track the status of upgrade
Interface version	V1.0
Interface address	/LAPI/V1.0/System/Upgrade
Interface request method	PUT
How to submit data	application/json

6.1.3.1.2 URL Description

None

6.1.3.1.3 Request Parameters

Parameter names	Parameter type	Parameter location	Required	Description
UpgradeType	integer	body	true	Upgrade type Some device models do not support 2 1: Cloud upgrade

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Parameter names	Parameter type	Parameter location	Required	Description
				2: USB flash drive upgrade 3: Local upgrade 4: Peripheral upgrade (not supported by some device models)
PeripheralID	integer	body	true	This parameter is required for upgrade. This parameter is supported when the upgrade type is 4
FilePath	string	body	false	The cloud upgrade gets the URL of the image, the URL does not need authentication, length [1,512] bytes Not supported by some device models

6.1.3.1.4 Examples Of Request Parameters

```
{
   "UpgradeType": 1,
   "PeripheralID": 0,
   "FilePath": "http://Path..."
}
```

6.1.3.1.5 Return Parameters

Parameter names	Parameter type	Parameter location	Required	Description
Response	object	body	true	
+ResponseURL	string	body	true	URL carried by the HTTP request packet
+ResponseCode	integer	body	true	System processes results. 0 indicates success
+SubResponseCode	integer	body	true	The system processes the child result. 0 indicates success
+ResponseString	string	body	true	Analysis of system processing results
+StatusCode	integer	body	true	Status code
+Data	object	body	true	Response results

6.1.3.1.6 Example for Returning Parameters

```
{
   "Response": {
      "ResponseURL": "/LAPI/V1.0/System/Upgrade",
      "ResponseCode": 0,
      "SubResponseCode": 0,
      "ResponseString": "Succeed",
      "StatusCode": 0,
      "Data": {}
   }
}
```

6.1.3.2 Uploading Software Version

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6.1.3.2.1 Overview

Names	Description
Interface description	Can/LAPI/V1.0/System/UpgradeStatus interface to track the status of upgrade Not supported by some device models
Interface version	V1.0
Interface address	/LAPI/V1.0/System/UploadFirmware
Interface request method	POST
How to submit data	application/json

6.1.3.2.2 URL Description

None

6.1.3.2.3 Request Parameters

Description
The Content-Dispostion line, Content-Type line, and blank line are also standard file transfer http message bodies

6.1.3.2.4 Example for Request Parameters

```
Accept-Encoding: gzip, deflate
Content-Length: 25665652
Content-Type: multipart/form-data;  boundary=----------------------------5851473516029
-- -- -- -
```

6.1.3.2.6 Example for Returning Parameters

```
{
   "Response": {
      "ResponseURL": "/LAPI/V1.0/System/UploadFirmware",
      "ResponseCode": 0,
      "SubResponseCode": 0,
      "ResponseString": "Succeed",
      "StatusCode": 0,
      "Data": null
   }
}
```

6.1.3.3 Query The Upgrade Status Of The Device

6.1.3.3.1 Overview

Names	Description
Interface description	Query The Upgrade Status Of The Device
Interface version	V1.0
Interface address	/LAPI/V1.0/System/UpgradeStatus
Interface request method	GET
How to submit data	application/json

6.1.3.3.2 URL Description

None

6.1.3.3.3 Request Parameters

None

6.1.3.3.4 Example for Request Parameters

None

6.1.3.3.5 Return Parameters

Parameter names	Parameter type	Parameter location	Required	Description
Response	object	body	true	
+ResponseURL	string	body	true	URL carried by the HTTP request packet
+ResponseCode	integer	body	true	System processes results. 0 indicates success
+SubResponseCode	integer	body	true	The system processes the child result. 0 indicates success

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Parameter names	Parameter type	Parameter location	Required	Description
+ResponseString	string	body	true	Parsing the results of the system's processing
+StatusCode	integer	body	true	Status code
+Data	object	body	true	Response results
++ID	integer	body	true	Video input channel number At the interface/LAPI/V1.0/System/UpgradeStatus the value in the meaningless, the default is 0 At the interface/LAPI/V1.0/Channels/System/UpgradeStatuses the value is in the video input channel number
++Status	integer	body	true	Upgrade status 0: Initializing 1: Query 2: Downloading 3: in transit 4: Upgrading 5: Upgrade error 6: It is the latest version 7: A later version is available 8: Upgrade completed 9: Failed to Get the upgrade progress 10: The version does not match 11: Multiple upgrade processes cannot be loaded at the same time 14: The version firmware package is abnormal and the conference movement is used
++Percent	integer	body	true	Percentage of upgrade progress The transfer progress percentage is displayed only when the upgrade begins to transfer data (3: in transit), and the rest is 0 Value range: [0, 100]

6.1.3.3.6 Example for Returning Parameters

```
{
   "Response": {
      "ResponseURL": "/LAPI/V1.0/System/UpgradeStatus",
      "ResponseCode": 0,
      "SubResponseCode": 0,
      "ResponseString": "Succeed",
      "StatusCode": 0,
      "Data": {
         "ID": 0,
         "Status": 4,
         "Percent": 50
      }
   }
}
```

6.1.4 Equipment

6.1.4.1 Get Device Information

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6.1.4.1.1 Overview

Names	Description
Interface description	Get Device Information
Interface version	V1.0
Interface address	/LAPI/V1.0/System/DeviceInfo
Interface request method	GET
How to submit data	application/json

6.1.4.1.2 URL Description

None

6.1.4.1.3 Request Parameters

None

6.1.4.1.4 Example for Request Parameters

None

6.1.4.1.5 Return Parameters

Parameter names	Parameter type	Parameter location	Required	Description
Response	object	body	true	
+ResponseURL	string	body	true	URL carried by the HTTP request packet
+ResponseCode	integer	body	true	System processes results. 0 indicates success
+SubResponseCode	integer	body	true	The system processes the child result. 0 indicates success
+ResponseString	string	body	true	Parsing the results of the system's processing
+StatusCode	integer	body	true	Status code
+Data	object	body	true	Response results
++ID	integer	body	true	Video input channel number The ID in DeviceInfo returned by this interface is always 0, meaningless Value range: [0,]
++DeviceName	string	body	true	Device name String length range: [0, 127]
++DeviceTypeV2	string	body	false	Device Type 2

Parameter names	Parameter type	Parameter location	Required	Description
				For details, see 7.1.3 Device Type. This field prevails after implementation Some models are not supported
++DeviceCode	integer	body	true	Device number Value range: [0, 255] Default value: 1
++DeviceModel	string	body	true	Device model number String length range: [0, 255]
++SerialNumber	string	body	true	Device serial number String length range: [0, 255]
++FirmwareVersion	string	body	true	Software version program version. The value contains 0 to 255 characters String length range: [0, 255]
++HardwareID	string	body	true	Hardware identification String length range: [0, 255]
++UbootVersion	string	body	true	UBOOT Boot version String length range: [0, 255]
++BuildDate	object	body	false	Release time Not supported on some device models
+++Year	integer	body	true	Vintage Not supported on some device models
+++Month	integer	body	true	Months Not supported on some device models Value range: [1, 12]
+++Day	integer	body	true	day Not supported on some device models Value range: [1, 31]
+++Hour	integer	body	true	when Not supported by some device models Value range: [0, 23]
+++Minute	integer	body	true	points Not supported on some device models Value range: [0, 59]
++Manufacturer	string	body	false	Vendor name Some device models are not supported String length range: [1, 64] Default: UNIVIEW
++ProtoName	string	body	false	Device prototype name (using BASE64 encryption) Not supported by some device models String length range: [0, 255]
++PowerType	integer<uint32>	body	false	Power supply method Not supported by some device models 0: normal power supply (power supply equipment)

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Parameter names	Parameter type	Parameter location	Required	Description
				1: Low power supply (low power battery powered devices)

6.1.4.1.6 Example for Returning Parameters


```
{
  "Response": {
    "ResponseURL": "/LAPI/V1.0/System/DeviceInfo",
    "ResponseCode": 0,
    "SubResponseCode": 0,
    "ResponseString": "Succeed",
    "StatusCode": 0,
    "Data": {
      "ID": 1,
      "DeviceName": "NVR-B200-E4",
      "DeviceTypeV2": "IPSpeaker",
      "DeviceModel": "NVR-B200-E4",
      "SerialNumber": "210235C1MPF158000503",
      "FirmwareVersion": "R2318P05",
      "HardwareID": "A",
      "UbootVersion": "V1.4",
      "BuildDate": {
        "Year": 1949,
        "Month": 10,
        "Day": 1,
        "Hour": 15,
        "Minute": 0
      },
      "Manufacturer": "UNIVIEW",
      "ProtoName": "T1ZSMzAxLTA0Uy1EVA==",
      "PowerType": 0
    }
  }
}
```


6.1.5 Abilities

6.1.5.1 Get The System Capability Set Of The Device

6.1.5.1.1 Overview

Names	Description
Interface description	Get The System Capability Set Of The Device
Interface version	V1.0
Interface address	/LAPI/V1.0/System/Capabilities
Interface request method	GET
How to submit data	application/json

6.1.5.1.2 URL Description

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None

6.1.5.1.3 Request Parameters

None

6.1.5.1.4 Example for Request Parameters

None

6.1.5.1.5 Return Parameters

Parameter names	Parameter type	Parameter location	Required	Description
Response	object	body	true	
+ResponseURL	string	body	true	URL carried by the HTTP request packet
+ResponseCode	integer	body	true	System processes results. 0 indicates success
+SubResponseCode	integer	body	true	The system processes the child result. 0 indicates success
+ResponseString	string	body	true	Parsing the results of the system's processing
+StatusCode	integer	body	true	Status code
+Data	object	body	true	Response results
++AudioFile	object	body	true	Import audio file ability
+++MaxNum	integer<uint32>	body	true	The maximum number of alarm audio files supported The alarm files can be imported and built-in audio files
+++MaxSize	integer<uint32>	body	true	Supports importing the maximum size of a single audio file In KB

6.1.5.1.6 Example for Returning Parameters

```
{
  "Response": {
    "ResponseURL": "/LAPI/V1.0/System/Capabilities",
    "ResponseCode": 0,
    "SubResponseCode": 0,
    "ResponseString": "Succeed",
    "StatusCode": 0,
    "Data": {
      "AudioFile": {
        "MaxNum": 10,
        "MaxSize": 100
      }
    }
  }
}
```

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6.1.6 Factory Reset

6.1.6.1 Restoring The Device To Default Sets

6.1.6.1.1 Overview

Names	Description
Interface description	Restoring The Device To Default Sets
Interface version	V1.0
Interface address	/LAPI/V1.0/System/FactoryReset
Interface request method	PUT
How to submit data	application/json

6.1.6.1.2 URL Description

None

6.1.6.1.3 Request Parameters

Parameter names	Parameter type	Parameter position	Required	Description
Mode	integer	body	true	Recovery Mode 0: Simple restore, retaining network configuration and user configuration 1: Full restore, restore to factory Sets
Reboot	integer	body	true	Whether to restart the device after restoring the configuration Not supported by some models 0: does not restart after the default Sets are restored 1: Restart after the default configuration is restored

6.1.6.1.4 Example for Request Parameters

```
{
   "Mode": 0,
   "Reboot": 1
}
```

6.1.6.1.5 Return Parameters

Parameter names	Parameter type	Parameter location	Required	Description
Response	object	body	true	
+ResponseURL	string	body	true	URL carried by the HTTP request packet
+ResponseCode	integer	body	true	System processes results. 0 indicates success

Parameter names	Parameter type	Parameter location	Required	Description
+SubResponseCode	integer	body	true	The system processes the child result. 0 indicates success
+ResponseString	string	body	true	Parsing the results of the system's processing
+StatusCode	integer	body	true	Status code
+Data	object	body	true	Null

6.1.6.1.6 Example for Returning Parameters

```
{
   "Response": {
      "ResponseURL": "/LAPI/V1.0/System/FactoryReset",
      "ResponseCode": 0,
      "SubResponseCode": 0,
      "ResponseString": "Succeed",
      "StatusCode": 0,
      "Data": null
   }
}
```

6.2 Media

6.2.1 Audio

6.2.1.1 Query Audio Input Parameters

6.2.1.1.1 Overview

Names	Description
Interface description	Query Audio Input Parameters
Interface version	V1.0
Interface address	/LAPI/V1.0/Channels/AudioChannel/<ID>/AudioInput
Interface request method	GET
How to submit data	application/json

6.2.1.1.2 URL Description

None

6.2.1.1.3 Request Parameters

None

6.2.1.1.4 Example for Request Parameters

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None

6.2.1.1.5 Return Parameters

Parameter names	Parameter type	Parameter location	Required	Description
Response	object	body	true	
+ResponseURL	string	body	true	URL carried by the HTTP request packet
+ResponseCode	integer	body	true	System processes results. 0 indicates success
+SubResponseCode	integer	body	true	The system processes the child result. 0 indicates success
+ResponseString	string	body	true	Analysis of system processing results
+StatusCode	integer	body	true	Status code
+Data	object	body	true	Response results
++IsMute	integer	body	true	Mute or not 0: not mute 1: Silent
++Type	integer	body	true	Capture port type 0: Audio input port 1: serial port
++EncodeFormat	integer	body	true	Audio encoding format 2: G.711U
++SampleRate	integer	body	true	Audio sampling rate 0:8 KHz
++InputGain	integer	body	true	Audio gain Range: [0, 255]
++NoiseReduction	object	body	true	Noise reduction Information
+++Enabled	integer	body	true	Whether noise cancellation is enabled 0: Disabled 1: Enabled

6.2.1.1.6 Example for Returning Parameters

```
{
   "Response": {
      "ResponseURL": "/LAPI/V1.0/Media/Audio/Input",
      "ResponseCode": 0,
      "SubResponseCode": 0,
      "ResponseString": "Succeed",
      "StatusCode": 0,
      "Data": {
         "IsMute": 0,
         "Type": 0,
         "EncodeFormat": 2,
```

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```
        "SampleRate": 0,
        "InputGain": 128,
        "NoiseReduction": {
          "Enabled": 0
        }
      }
    }
}
```

6.2.1.2 Set Audio Input Parameters

6.2.1.2.1 Overview

Names	Description
Interface description	Set Audio Input Parameters
Interface version	V1.0
Interface address	/LAPI/V1.0/Channels/AudioChannel/<ID>/AudioInput
Interface request method	PUT
How to submit data	application/json

6.2.1.2.2 URL Description

None

6.2.1.2.3 Request Parameters

Parameter names	Parameter type	Parameter location	Required	Description
InputGain	integer	body	true	Audio gain Range: [0, 255]

6.2.1.2.4 Example for Request Parameters

```
{
  "InputGain": 128,
}
```

6.2.1.2.5 Return Parameters

Parameter names	Parameter type	Parameter location	Required	Description
Response	object	body	true	
+ResponseURL	string	body	true	URL carried by the HTTP request packet

Parameter names	Parameter type	Parameter location	Required	Description
+ResponseCode	integer	body	true	System processes results. 0 indicates success
+SubResponseCode	integer	body	true	The system processes the child result. 0 indicates success
+ResponseString	string	body	true	Parsing the results of the system's processing
+StatusCode	integer	body	true	Status code
+Data	object	body	true	Null

6.2.1.2.6 Example for Returning Parameters

```
{
   "Response": {
      "ResponseURL": "/LAPI/V1.0/Media/Audio/Input",
      "ResponseCode": 0,
      "SubResponseCode": 0,
      "ResponseString": "Succeed",
      "StatusCode": 0,
      "Data": null
   }
}
```

6.2.1.3 Get Audio Output Parameters

6.2.1.3.1 Overview

Names	Description
Interface description	Get Audio Output Parameters
Interface version	V1.0
Interface address	/LAPI/V1.0/Channels/AudioChannel/<ID>/AudioOutOutput
Interface request method	GET
How to submit data	application/json

6.2.1.3.2 URL Description

None

6.2.1.3.3 Request Parameters

None

6.2.1.3.4 Example for Request Parameters

None

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6.2.1.3.5 Return Parameters

Parameter names	Parameter type	Parameter position	Required	Description
Response	object	body	true	
+ResponseURL	string	body	true	URL carried by the HTTP request packet
+ResponseCode	integer	body	true	System processing result. 0 indicates success
+SubResponseCode	integer	body	true	The system processes the child result. 0 indicates success
+ResponseString	string	body	true	Parsing the results of the system's processing
+StatusCode	integer	body	true	Status code
+Data	object	body	true	Response results
++Gain	integer	body	true	Audio output gain Value range: [0, 255]
++AlarmGain	integer	body	true	Audio alert output gain Value range: [0, 255]

6.2.1.3.6 Example for Returning Parameters

```
{
   "Response": {
      "ResponseURL": "/LAPI/V1.0/Media/Audio/Output",
      "ResponseCode": 0,
      "SubResponseCode": 0,
      "ResponseString": "Succeed",
      "StatusCode": 0,
      "Data": {
         "Gain": 242,
         "AlarmGain": 255
      }
   }
}
```

6.2.1.4 Set Audio Output Parameters

6.2.1.4.1 Overview

Names	Description
Interface description	Set Audio Output Parameters
Interface version	V1.0
Interface address	/LAPI/V1.0/Channels/AudioChannel/<ID>/AudioOutput
Interface request method	PUT
How to submit data	application/json

6.2.1.4.2 URL Description

None

6.2.1.4.3 Request Parameters

Parameter names	Parameter type	Parameter location	Required	Description
Gain	integer	body	true	Audio output gain Value range: [0, 255]
AlarmGain	integer	body	true	Audio alert output gain Value range: [0, 255]

6.2.1.4.4 Example for Request Parameters

```
{
   "Gain": 242,
   "AlarmGain": 255
}
```

6.2.1.4.5 Return Parameters

Parameter names	Parameter type	Parameter location	Required	Description
Response	object	body	true	
+ResponseURL	string	body	true	URL carried by the HTTP request packet
+ResponseCode	integer	body	true	System processes results. 0 indicates success
+SubResponseCode	integer	body	true	The system processes the child result. 0 indicates success
+ResponseString	string	body	true	Parsing the results of the system's processing
+StatusCode	integer	body	true	Status code
+Data	object	body	true	Null

6.2.1.4.6 Example for Returning Parameters

```
{
   "Response": {
      "ResponseURL": "/LAPI/V1.0/Media/Audio/Output",
      "ResponseCode": 0,
      "SubResponseCode": 0,
      "ResponseString": "Succeed",
      "StatusCode": 0,
      "Data": null
   }
}
```

6.2.2 Audio File Management

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6.2.2.1 Query Audio File Information

6.2.2.1.1 Overview

Names	Description
Interface description	Query Audio File Information
Interface version	V1.0
Interface address	/LAPI/V1.0/Channels/AudioChannel/<ID>/AudioFile/Info
Interface request method	GET
How to submit data	application/json

6.2.2.1.2 URL DESCRIPTION

None

6.2.2.1.3 Request Parameters

None

6.2.2.1.4 Example for Request Parameters

None

6.2.2.1.5 Return Parameters

Parameter names	Parameter type	Parameter location	Required	Description
Response	object	body	true	
+ResponseURL	string	body	true	URL CARRIED BY THE HTTP REQUEST PACKET
+ResponseCode	integer	body	true	System processes results. 0 indicates success
+SubResponseCode	integer	body	true	The system processes the child result. 0 indicates success
+ResponseString	string	body	true	Parsing the results of the system's processing
+StatusCode	integer	body	true	Status code
+Data	object	body	true	Response result
++Num	integer	body	true	Number of Audio Files
++FileInfoList	object	body	true	Audio File List

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Parameter names	Parameter type	Parameter location	Required	Description
+++ID	integer	body	true	Audio File Index
+++Status	integer	body	true	Audio File Status 0: Disabled 1: Enabled
+++InstallType	integer	body	true	Type 0: Built-in 1: External
+++FileName	string	body	true	FileName String length range: [0,255]
+++Size	integer<uint32>	body	true	Audio File Size, Unit Byte
++MaxNum	integer<uint32>	body	true	Maximum Number of Files, Default Value: 100
++AudioFileCapacity	integer<uint32>	body	true	Total Audio File Size in KB
++AudioFileFreeCapacity	integer<uint32>	body	true	Remaining Audio File Size in KB

6.2.2.1.6 Example for Returning Parameters


```
{
  "Response": {
    "ResponseURL": "/LAPI/V1.0/Channels/AudioChannel/1/AudioFile/Info",
    "ResponseCode": 0,
    "ResponseString": "Succeed",
    "StatusCode": 0,
    "Data": {
      "Num": 2,
      "FileInfoList": [
        {
          "ID": 1,
          "Status": 1,
          "InstallType": 0,
          "FileName": "Please be aware! You are in the monitored area!.mp3",
          "Size": 159405,
          "Duration": 0
        },
        {
          "ID": 2,
          "Status": 0,
          "InstallType": 0,
          "FileName": "Startup Sound.mp3",
          "Size": 28865,
          "Duration": 0
        }
      ],
      "MaxNum": 100,
```

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```
        "AudioFileCapacity": 65536,
        "AudioFileFreeCapacity": 53458
      }
    }
}
```

6.2.2.2 Upload Audio File

6.2.2.2.1 Overview

Names	Description
Interface description	Upload Audio File
Interface version	V1.0
Interface address	/LAPI/V1.0/Channels/AudioChannel/<ID>/AudioFile
Interface request method	POST
How to submit data	application/json

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6.2.2.2.2 URL DESCRIPTION

None

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6.2.2.2.3 Request Parameters

6.2.2.2.4 Example for Request Parameters

```
Content-Length: 167603
Content-Type: multipart/form-data; boundary=----boundaryString
------boundaryString
Content-Disposition: form-data; name="file"; filename="1.mp3"
Content-Type: audio/mpeg
data
------boundaryString--
```

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6.2.2.2.5 Return Parameters

Parameter names	Parameter type	Parameter location	Required	Description
Response	object	body	true	
+ResponseURL	string	body	true	URL CARRIED BY THE HTTP REQUEST PACKET
+ResponseCode	integer	body	true	System processes results. 0 indicates success

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Parameter names	Parameter type	Parameter location	Required	Description
+SubResponseCode	integer	body	true	The system processes the child result. 0 indicates success
+ResponseString	string	body	true	Parsing the results of the system's processing
+StatusCode	integer	body	true	Status code
+Data	string	body	false	Response result Default value: null

6.2.2.2.6 Example for Returning Parameters

```
{
  "Response": {
    "ResponseURL": "/LAPI/V1.0/Channels/AudioChannel/<ID>/AudioFile",
    "ResponseCode": 0,
    "SubResponseCode": 0,
    "ResponseString": "Succeed",
    "StatusCode": 0,
    "Data": "null"
  }
}
```

6.2.2.3 Rename Audio File

6.2.2.3.1 Overview

Names	Description
Interface description	Rename Audio File
Interface version	V1.0
Interface address	/LAPI/V1.0/Channels/AudioChannel/<ID>/AudioFile/<ID>
Interface request method	PUT
How to submit data	application/json

6.2.2.3.2 URL DESCRIPTION

None

6.2.2.3.3 Request Parameters

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Parameter names	Parameter type	Parameter location	Required	Description
FileName	string	body	true	Audio File Name String Length Range: [0, 127]

6.2.2.3.4 Example for Request Parameters

```
{
  "FileName": "AudiofileName.mp3"
}
```

6.2.2.3.5 Return Parameters

Parameter names	Parameter type	Parameter location	Required	Description
Response	object	body	true	
+ResponseURL	string	body	true	URL CARRIED BY THE HTTP REQUEST PACKET
+ResponseCode	integer	body	true	System processes results. 0 indicates success
+SubResponseCode	integer	body	true	The system processes the child result. 0 indicates success
+ResponseString	string	body	true	Parsing the results of the system's processing
+StatusCode	integer	body	true	Status code
+Data	object	body	true	Null

6.2.2.3.6 Example for Returning Parameters

```
{
  "Response": {
    "ResponseURL": "/LAPI/V1.0/Channels/AudioChannel/1/AudioFile/<ID>",
    "ResponseCode": 0,
    "ResponseString": "Succeed",
    "StatusCode": 0,
    "Data": null
  }
}
```

6.2.2.3 Delete Audio File

6.2.2.3.1 Overview

Names	Description
Interface description	Delete Audio File
Interface version	V1.0

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Names	Description
Interface address	/LAPI/V1.0/Channels/AudioChannel/<ID>/AudioFile/<ID>
Interface request method	DELETE
How to submit data	application/json

6.2.2.3.2 URL DESCRIPTION

None

6.2.2.3.3 Request Parameters

None

6.2.2.3.4 Example for Request Parameters

None

6.2.2.3.5 Return Parameters

Parameter names	Parameter type	Parameter location	Required	Description
Response	object	body	true	
+ResponseURL	string	body	true	URL CARRIED BY THE HTTP REQUEST PACKET
+ResponseCode	integer	body	true	System processes results. 0 indicates success
+SubResponseCode	integer	body	true	The system processes the child result. 0 indicates success
+ResponseString	string	body	true	Parsing the results of the system's processing
+StatusCode	integer	body	true	Status code
+Data	string	body	true	Response result

6.2.2.3.6 Example for Returning Parameters

```
{
  "Response": {
    "ResponseURL": "/LAPI/V1.0/Channels/AudioChannel/<ID>/AudioFile/<ID>",
    "ResponseCode": 0,
    "SubResponseCode": 0,
    "ResponseString": "Succeed",
    "StatusCode": 0,
    "Data": null
  }
}
```

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6.2.3 Audio Play Schedule

6.2.3.1 Query Audio Play Schedul

6.2.3.1.1 Overview

Names	Description
Interface description	Query Audio Play Schedul
Interface version	V1.0
Interface address	/LAPI/V1.0/Channels/AudioChannel/<ID>/AudioFile/Schedule
Interface request method	GET
How to submit data	application/json

6.2.3.1.2 URL DESCRIPTION

None

6.2.3.1.3 Request Parameters

None

6.2.3.1.4 Example for Request Parameters

None

6.2.3.1.5 Return Parameters

Parameter names	Parameter type	Parameter location	Required	Description
Response	object	body	true	
+ResponseURL	string	body	true	URL CARRIED BY THE HTTP REQUEST PACKET
+ResponseCode	integer	body	true	System processes results. 0 indicates success
+SubResponseCode	integer	body	true	The system processes the child result. 0 indicates success
+ResponseString	string	body	true	Parsing the results of the system’s processing
+StatusCode	integer	body	true	Status code
+Data	object	body	true	Response result

Parameter names	Parameter type	Parameter location	Required	Description
++Num	integer	body	true	Number of Audio Play Plan
++AudioPlayScheduleList	object[]	body	true	PlaySchedule List
+++ID	integer	body	true	Play Plan ID, Required for Retrieval
+++Enabled	integer	body	true	Plan Enable: 0: Disabled, 1: Enabled
+++Name	string	body	true	Playback Plan Name, Range: [1, 127] Bytes
+++BeginDate	string	body	true	Start Date, Format: YYYY-MM-DD, Day Range: [1, 31]
+++EndDate	string	body	true	End Date, Format: YYYY-MM-DD, Day Range: [1, 31]
+++TimeMode	integer	body	true	Arming Time Mode: 1: By Day, 2: By Week
+++WeekPlan	object	body	true	Weekly Plan Time List, When TimeMode is 1, the Plan is Based on the First Day's Plan
++++Enabled	integer	body	false	Arming Plan Switch Default Value: 1 0: Disabled 1: Enabled
++++Num	integer	body	true	Planning Days Maximum: 8 (Seven days of the week and one holiday) Range: [1,] Default Value: 7
++++Days	object[]	body	true	Weekly Arming Plan List for Each Day
+++++ID	integer	body	true	Day Index Default Value: 1 1: Monday 2: Tuesday 3: Wednesday 4: Thursday 5: Friday 6: Saturday

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Parameter names	Parameter type	Parameter location	Required	Description
				7: Sunday 8: Holiday
+++++Num	integer	body	true	Number of Time Segments per Day Range: [1, 8]
+++++TimeSectionInfos	object[]	body	true	Arming Configuration Information
++++++Begin	string	body	true	Start Time Format: hh:mm:ss not support seconds Default Value: 00:00:00
++++++End	string	body	true	End Time Format: hh:mm:ss not support seconds Default Value: 00:00:00
++++++AudioActParamInfoV1	object	body	false	ArmingParam
+++++++AudioFileNum	integer	body	true	Number of Audio Files
+++++++AudioFileIDList	integer[]	body	true	Audio File ID List
+++++++Mode	integer	body	true	Audio Play Mode 0: By Number of Times 1: By Duration 2: Continuous Loop
+++++++Count	integer	body	false	Audio Playback Count Mode: 0 (By Number of Times) - Required
+++++++Duration	integer	body	false	Audio Playback Duration Mode: 1 (By Duration) - Required Unit: Seconds
+++++++Volumn	integer	body	false	Audio Playback Volume

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Parameter names	Parameter type	Parameter location	Required	Description
				Range: [0, 255]]

6.2.3.1.6 Example for Returning Parameters


```
{
  "Response": {
    "ResponseURL": "/LAPI/V1.0/Media/Audio/Schedule",
    "ResponseCode": 0,
    "ResponseString": "Succeed",
    "StatusCode": 0,
    "Data": {
      "Num": 2,
      "AudioPlayScheduleList": [
        {
          "ID": 0,
          "Enabled": 0,
          "Name": "123",
          "BeginDate": "2024-09-09",
          "EndDate": "2024-09-10",
          "TimeMode": 1,
          "WeekPlan": {
            "Num": 1,
            "Days": [
              {
                "ID": 1,
                "Num": 1,
                "TimeSectionInfos": [
                  {
                    "Begin": "00:00:00",
                    "End": "00:00:03",
                    "AudioActParamInfoV1": {
                      "AudioFileNum": 1,
                      "AudioFileIDList": [
                        3
                      ],
                      "Mode": 0,
                      "Count": 4,
                      "Volumn": 69
                    }
                  }
                ]
              }
            ]
          }
        },
        {
          "ID": 1,
          "Enabled": 1,
          "Name": "txb",
          "BeginDate": "2024-11-08",
          "EndDate": "2024-11-30",
          "TimeMode": 2,
          "WeekPlan": {
            "Num": 7,
            "Days": [
              {
                "ID": 1,
```


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```
    "Num": 1,
    "TimeSectionInfos": [
      {
        "Begin": "07:07:06",
        "End": "22:07:39",
        "AudioActParamInfoV1": {
          "AudioFileNum": 1,
          "AudioFileIDList": [
            4
          ],
          "Mode": 2,
          "Count": 0,
          "Volumn": 179
        }
      }
    ]
  },
  {
    "ID": 2,
    "Num": 1,
    "TimeSectionInfos": [
      {
        "Begin": "07:07:06",
        "End": "22:07:39",
        "AudioActParamInfoV1": {
          "AudioFileNum": 1,
          "AudioFileIDList": [
            4
          ],
          "Mode": 2,
          "Count": 0,
          "Volumn": 179
        }
      }
    ]
  },
  {
    "ID": 3,
    "Num": 1,
    "TimeSectionInfos": [
      {
        "Begin": "07:07:06",
        "End": "22:07:39",
        "AudioActParamInfoV1": {
          "AudioFileNum": 1,
          "AudioFileIDList": [
            4
          ],
          "Mode": 2,
          "Count": 0,
          "Volumn": 179
        }
      }
    ]
  },
  {
    "ID": 4,
    "Num": 1,
    "TimeSectionInfos": [
      {
        "Begin": "07:07:06",
        "End": "22:07:39",
```

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```
        "AudioActParamInfoV1": {
          "AudioFileNum": 1,
          "AudioFileIDList": [
            4
          ],
          "Mode": 2,
          "Count": 0,
          "Volumn": 179
        }
      }
    ]
  },
  {
    "ID": 5,
    "Num": 1,
    "TimeSectionInfos": [
      {
        "Begin": "07:07:06",
        "End": "22:07:39",
        "AudioActParamInfoV1": {
          "AudioFileNum": 1,
          "AudioFileIDList": [
            4
          ],
          "Mode": 2,
          "Count": 0,
          "Volumn": 179
        }
      }
    ]
  },
  {
    "ID": 6,
    "Num": 1,
    "TimeSectionInfos": [
      {
        "Begin": "07:07:06",
        "End": "22:07:39",
        "AudioActParamInfoV1": {
          "AudioFileNum": 1,
          "AudioFileIDList": [
            4
          ],
          "Mode": 2,
          "Count": 0,
          "Volumn": 179
        }
      }
    ]
  },
  {
    "ID": 7,
    "Num": 1,
    "TimeSectionInfos": [
      {
        "Begin": "07:07:06",
        "End": "22:07:39",
        "AudioActParamInfoV1": {
          "AudioFileNum": 1,
          "AudioFileIDList": [
            4
          ],
```

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```
                    "Mode": 2,
                    "Count": 0,
                    "Volumn": 179
                }
            }
        ]
    }
]
}
]
}
]
}
}
```

6.2.3.2 Create Audio Play Plan

6.2.3.2.1 Overview

Names	Description
Interface description	Create Audio Play Plan
Interface version	V1.0
Interface address	/LAPI/V1.0/Channels/AudioChannel/<ID>/AudioFile/Schedule
Interface request method	POST
How to submit data	application/json

6.2.3.2.2 URL DESCRIPTION

None

6.2.3.2.3 Request Parameters

Parameter names	Parameter type	Parameter location	Required	Description
ID	integer	body	true	Play Plan ID, Required for Retrieval
Enabled	integer	body	true	Plan Enable: 0: Disabled, 1: Enabled
Name	string	body	true	Playback Plan Name, Range: [1, 127] Bytes
BeginDate	string	body	true	Start Date, Format: YYYY-MM-DD, Day Range: [1, 31]
EndDate	string	body	true	End Date, Format: YYYY-MM-DD, Day Range: [1, 31]

Parameter names	Parameter type	Parameter location	Required	Description
TimeMode	integer	body	true	Arming Time Mode: 1: By Day, 2: By Week
WeekPlan	object	body	true	Weekly Plan Time List, When TimeMode is 1, the Plan is Based on the First Day's Plan
+Enabled	integer	body	false	Arming Plan Switch Default Value: 1 0: Disabled 1: Enabled
+Num	integer	body	true	Planning Days Maximum: 8 (Seven days of the week and one holiday) Range: [1,] Default Value: 7
+Days	object[]	body	true	Weekly Arming Plan List for Each Day
++ID	integer	body	true	Day Index Default Value: 1 1: Monday 2: Tuesday 3: Wednesday 4: Thursday 5: Friday 6: Saturday 7: Sunday 8: Holiday
++Num	integer	body	true	Number of Time Segments per Day Range: [1, 8]
++TimeSectionInfos	object[]	body	true	Arming Configuration Information
+++Begin	string	body	true	Start Time Format: hh:mm:ss

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Parameter names	Parameter type	Parameter location	Required	Description
				not support seconds Default Value: 00:00:00
+++End	string	body	true	End Time Format: hh:mm:ss not support seconds Default Value: 00:00:00
+++AudioActParamInfoV1	object	body	false	ArmingParam
++++AudioFileNum	integer	body	true	Number of Audio Files
++++AudioFileIDList	integer[]	body	true	Audio File ID List
++++Mode	integer	body	true	Audio Play Mode 0: By Number of Times 1: By Duration 2: Continuous Loop
++++Count	integer	body	false	Audio Playback Count Mode: 0 (By Number of Times) - Required
++++Duration	integer	body	false	Audio Playback Duration Mode: 1 (By Duration) - Required Unit: Seconds
++++Volumn	integer	body	false	Audio Playback Volume Range: [0, 255]]

6.2.3.2.4 Example for Request Parameters

```
{
        "Enabled": 1,
        "Name": "123",
        "BeginDate": "2024-09-09",
        "EndDate": "2024-09-10",
        "TimeMode": 1,
        "WeekPlan": {
          "Num": 1,
          "Days": [
            {
              "ID": 1,
```

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```
            "Num": 1,
            "TimeSectionInfos": [
              {
                "Begin": "00:00:00",
                "End": "00:00:03",
                "AudioActParamInfoV1": {
                  "AudioFileNum": 1,
                  "AudioFileIDList": [
                    3
                  ],
                  "Mode": 0,
                  "Count": 4,
                  "Volumn": 69
                }
              }
            ]
          }
        ]
      }
    }
```


6.2.3.2.5 Return Parameters

Parameter names	Parameter type	Parameter location	Required	Description
Response	object	body	true	
+ResponseURL	string	body	true	URL CARRIED BY THE HTTP REQUEST PACKET
+ResponseCode	integer	body	true	System processes results. 0 indicates success
+SubResponseCode	integer	body	true	The system processes the child result. 0 indicates success
+ResponseString	string	body	true	Parsing the results of the system’s processing
+StatusCode	integer	body	true	Status code
+Data	object	body	true	Response result
++ID	integer	body	true	资源编号 新增资源成功后返回的资源编号
++ResultCode	integer	body	true	返回错误码，0 成功，1 失败

6.2.3.2.6 Example for Returning Parameters


```
{
  "Response": {
    "ResponseURL": "/LAPI/V1.0/Channels/AudioChannel/<ID>/AudioFile/Schedule",
    "ResponseCode": 0,
    "SubResponseCode": 0,
    "ResponseString": "Succeed",
    "StatusCode": 0,
    "Data": {
      "ID": 0,
      "ResultCode": 0
    }
  }
}
```

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Delete Audio Play Plan

Overview

Names	Description
Interface description	Delete Audio Play Plan
Interface version	V1.0
Interface address	/LAPI/V1.0/Channels/AudioChannel/<ID>/AudioFile/Schedule
Interface request method	DELETE
How to submit data	application/json

URL DESCRIPTION

None

Request Parameters

Parameter names	Parameter type	Parameter location	Required	Description
Num	integer	body	true	Number
IDList	integer[]	body	false	IDList

Example for Request Parameters

```
{
  "Num": 0,
  "IDList": [
    0
  ]
}
```

Return Parameters

Parameter names	Parameter type	Parameter location	Required	Description
Response	object	body	true	
+ResponseURL	string	body	true	URL CARRIED BY THE HTTP REQUEST PACKET
+ResponseCode	integer	body	true	System processes results. 0 indicates success

Parameter names	Parameter type	Parameter location	Required	Description
+SubResponseCode	integer	body	true	The system processes the child result. 0 indicates success
+ResponseString	string	body	true	Parsing the results of the system's processing
+StatusCode	integer	body	true	Status code
+Data	string	body	true	Response result

Example for Returning Parameters

```
{
  "Response": {
    "ResponseURL": "/LAPI/V1.0/Channels/AudioChannel/<ID>/AudioFile/Schedule",
    "ResponseCode": 0,
    "SubResponseCode": 0,
    "ResponseString": "Succeed",
    "StatusCode": 0,
    "Data": "string"
  }
}
```

Set Up Audio File Playback Plan

Overview

Names	Description
Interface description	Set Up Audio File Playback Plan
Interface version	V1.0
Interface address	/LAPI/V1.0/Channels/AudioChannel/<ID>/AudioFile/Schedule/<ID>
Interface request method	PUT
How to submit data	application/json

URL DESCRIPTION

None

Request Parameters

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Parameter names	Parameter type	Parameter location	Required	Description
ID	integer	body	true	Play Plan ID, Required for Retrieval
Enabled	integer	body	true	Plan Enable: 0: Disabled, 1: Enabled
Name	string	body	true	Playback Plan Name, Range: [1, 127] Bytes
BeginDate	string	body	true	Start Date, Format: YYYY-MM-DD, Day Range: [1, 31]
EndDate	string	body	true	End Date, Format: YYYY-MM-DD, Day Range: [1, 31]
TimeMode	integer	body	true	Arming Time Mode: 1: By Day, 2: By Week
WeekPlan	object	body	true	Weekly Plan Time List, When TimeMode is 1, the Plan is Based on the First Day's Plan
+Enabled	integer	body	false	Arming Plan Switch Default Value: 1 0: Disabled 1: Enabled
+Num	integer	body	true	Planning Days Maximum: 8 (Seven days of the week and one holiday) Range: [1,] Default Value: 7
+Days	object[]	body	true	Weekly Arming Plan List for Each Day
++ID	integer	body	true	Day Index Default Value: 1 1: Monday 2: Tuesday 3: Wednesday 4: Thursday 5: Friday 6: Saturday 7: Sunday 8: Holiday

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Parameter names	Parameter type	Parameter location	Required	Description
++Num	integer	body	true	Number of Time Segments per Day Range: [1, 8]
++TimeSectionInfos	object[]	body	true	Arming Configuration Information
+++Begin	string	body	true	Start Time Format: hh:mm:ss not support seconds Default Value: 00:00:00
+++End	string	body	true	End Time Format: hh:mm:ss not support seconds Default Value: 00:00:00
+++AudioActParamInfoV1	object	body	false	ArmingParam
++++AudioFileNum	integer	body	true	Number of Audio Files
++++AudioFileIDList	integer[]	body	true	Audio File ID List
++++Mode	integer	body	true	Audio Play Mode 0: By Number of Times 1: By Duration 2: Continuous Loop
++++Count	integer	body	false	Audio Playback Count Mode: 0 (By Number of Times) - Required
++++Duration	integer	body	false	Audio Playback Duration Mode: 1 (By Duration) - Required Unit: Seconds
++++Volumn	integer	body	false	Audio Playback Volume Range: [0, 255]]

Example for Request Parameters

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```
{
  "ID": 0,
  "Enabled": 0,
  "Name": "string",
  "BeginDate": "string",
  "EndDate": "string",
  "TimeMode": 1,
  "WeekPlan": {
    "Enabled": 1,
    "Num": 7,
    "Days": [
      {
        "ID": 1,
        "Num": 4,
        "TimeSectionInfos": [
          {
            "Begin": "00:00:00",
            "End": "24:00:00",
            "AudioActParamInfoV1": {
              "AudioFileNum": 2,
              "AudioFileIDList": [
                0
              ],
              "Mode": 0,
              "Count": 0,
              "Duration": 0,
              "Volumn": 0
            }
          }
        ]
      }
    ]
  }
}
```

Return Parameters

Parameter names	Parameter type	Parameter location	Required	Description
Response	object	body	true	
+ResponseURL	string	body	true	URL CARRIED BY THE HTTP REQUEST PACKET
+ResponseCode	integer	body	true	System processes results. 0 indicates success
+SubResponseCode	integer	body	true	The system processes the child result. 0 indicates success
+ResponseString	string	body	true	Parsing the results of the system’s processing
+StatusCode	integer	body	true	Status code
+Data	string	body	true	Response result

Example for Returning Parameters

```
{
  "Response": {
```

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```
    "ResponseURL": "/LAPI/V1.0/Channels/AudioChannel/<ID>/AudioFile/Schedule/<ID>",
    "ResponseCode": 0,
    "SubResponseCode": 0,
    "ResponseString": "Succeed",
    "StatusCode": 0,
    "Data": "string"
  }
}
```

6.2.4 Play Audio File

6.2.4.1 Play Audio File

6.2.4.1.1 Overview

Names	Description
Interface description	Play Audio File
Interface version	V1.0
Interface address	/LAPI/V1.0/Channels/AudioChannel/<ID>/AudioFile/PlayFile
Interface request method	POST
How to submit data	application/json

6.2.4.1.2 URL DESCRIPTION

None

6.2.4.1.3 Request Parameters

Parameter names	Parameter type	Parameter location	Required	Description
FileID	integer<uint32>	body	true	File ID
Mode	integer	body	true	Audio Playback Mode: Default to Play by Number of Times if Not Specified 0: Play by Number of Times 1: Play by Duration
Count	integer	body	false	Audio Playback Count: Required when Mode is 0
Duration	integer	body	false	Audio Playback Duration: Unit in Seconds, Required when Mode is 1

6.2.4.1.4 Example for Request Parameters

```
{
  "FileID": 76,
  "Mode": 43,
  "Count": 96,
  "Duration": 10
}
```

6.2.4.1.5 Return Parameters

Parameter names	Parameter type	Parameter location	Required	Description
Response	object	body	true	
+ResponseURL	string	body	true	URL CARRIED BY THE HTTP REQUEST PACKET
+ResponseCode	integer	body	true	System processes results. 0 indicates success
+SubResponseCode	integer	body	true	The system processes the child result. 0 indicates success
+ResponseString	string	body	true	Parsing the results of the system's processing
+StatusCode	integer	body	true	Status code
+Data	string	body	true	Response result

6.2.4.1.6 Example for Returning Parameters

```
{
  "Response": {
    "ResponseURL": "/LAPI/V1.0/Channels/AudioChannel/<ID>/AudioFile/PlayFile",
    "ResponseCode": 0,
    "SubResponseCode": 0,
    "ResponseString": "Succeed",
    "StatusCode": 0,
    "Data": "string"
  }
}
```

6.2.4.2 Stop Audio File Play

6.2.4.2.1 Overview

Names	Description
Interface description	Stop Audio File Playback
Interface version	V1.0
Interface address	/LAPI/V1.0/Channels/AudioChannel/<ID>/AudioFile/PlayFile

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Names	Description
Interface request method	DELETE
How to submit data	application/json

6.2.4.2.2 URL DESCRIPTION

6.2.4.2.3 Request Parameters

None

6.2.4.2.4 Example for Request Parameters

None

6.2.4.2.5 Return Parameters

Parameter names	Parameter type	Parameter location	Required	Description
Response	object	body	true	
+ResponseURL	string	body	true	URL CARRIED BY THE HTTP REQUEST PACKET
+ResponseCode	integer	body	true	System processes results. 0 indicates success
+SubResponseCode	integer	body	true	The system processes the child result. 0 indicates success
+ResponseString	string	body	true	Parsing the results of the system’s processing
+StatusCode	integer	body	true	Status code
+Data	string	body	true	Response result

6.2.4.2.6 Example for Returning Parameters

```
{
  "Response": {
    "ResponseURL": "/LAPI/V1.0/Channels/AudioChannel/<ID>/AudioFile/PlayFile",
    "ResponseCode": 0,
    "SubResponseCode": 0,
    "ResponseString": "Succeed",
    "StatusCode": 0,
    "Data": "string"
  }
}
```

6.2.5 Voice Intercom

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6.2.5.1 Get The Audio URL Of The Voice Intercom For The Specified Video Channel

6.2.5.1.1 Overview

Names	Description
Interface description	The caller Gets the audio stream related to the voice intercom through the RTSP protocol after Get the URL
Interface version	V1.0
Interface address	/LAPI/V1.0/Media/Talk/[?ChannelType=<Type>&ChannelID=<ID>]
Interface request method	GET
How to submit data	application/json

6.2.5.1.2 URL Description

Parameter names	Parameter type	Parameter location	Required	Description
ChannelType	string	URL	true	Default Value : “AudioChannel"

6.2.5.1.3 Request Parameters

None

6.2.5.1.4 Example for Request Parameters

None

6.2.5.1.5 Return Parameters

Parameter names	Parameter type	Parameter location	Required	Description
Response	object	body	true	
+ResponseURL	string	body	true	URL carried by the HTTP request packet
+ResponseCode	integer	body	true	System processes results. 0 indicates success
+SubResponseCode	integer	body	true	The system processes the child result. 0 indicates success
+ResponseString	string	body	true	Analysis of system processing results
+StatusCode	integer	body	true	Status code
+Data	object	body	true	Response results
++URL	string	body	true	Specify the live stream URL to which the audio stream corresponds

6.2.5.1.6 Example for Returning Parameters

```
{
   "Response": {
      "ResponseURL": "/LAPI/V1.0/Media/Talk/ChannelType="AudioChannel"&ChannelID=1 ",
      "ResponseCode": 0,
      "SubResponseCode": 0,
      "ResponseString": "Succeed",
      "StatusCode": 0,
      "Data": {
         "URL": "RTSP://192.160.1.22:554/media/video1"
      }
   }
}
```

7 Appendix

7.1 Channel Type

Code	Description
AudioChannel	AudioChannel

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8 Update record

8.1 Update record

Date	Version	Modify chapter	Update content	Reviset
2024-12-06	V1.0		Officially released the external LAPI interface document for IP Speaker	t00764
2025-02-25	V1.01	5.7 6.2.2	URL changes for query audio file feature. This API URL is: /LAPI/V1.0/Channels/AudioChannel/<ID>/AudioFile/Info	d04464
2025-04-10	V1.02	5.4	Delete 5.4 Alarm Input and Configuer	d04464

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