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# **Protocol Reference**

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## 1. Protocol Carrier

### 1.1 Package header

All messages and media data adopt a unified Package.

1-2bit	1-2bit 3bit 4bit 5-8bit 9-16bit		17-32bit				
V	V P M CSRC COUNT PAYLOAD TYPE		SSRC				
	PAYLOAD LEN						
	RESERVE						
CSRC(VARIABLE 0-15 ITEMS 32BITS EACH)							
	PAYLOAD						

V: Version number;

P: The mark of padding field is 0.;

M: Mark some important events;

CSRC COUNT(CC): Number of contributors, related with following CSRC, used to distinguish between different sources; If the value is 0, then the following CSRC is null, does not occupy the protocol field, or CSRC based on the actual CSRC.

PAYLOAD TYPE: Payload data type:

SSRC: Synchronization Source Identifier, used to identify the synchronization source.

PAYLOAD LEN: (TCP) payload data length. (UDP) sequence number

RESERVE: Reserved bit

CSRC: Contributing source, used to distinguish different source.

PAYLOAD: The payload data, not include the extend part.

PAYLOAD TYPE	Description	Format
0	SIGNAL (message)	JSON string

### 1.2 Message format and definition

The message is packed in JSON format. There is mapped one-to-one between message packing and device description file, each message is represented by character stings in big endian.

#### Example:

MODULE	AVSTREAM				
CECCION	TYPE		RANGE		
SESSION	STRING				
ODEDATION	NAME				TYPE
OPERATION	SETVIDEOIMAGE				REQUEST-RESPONSE
	NAME	TYPE		RA	NGE
	CHANNEL	INTEGER		1-3	2
PARAMETER	BRIGHTNESS	INTEGER		1-1	.00
	CONTRAST	INTEGER		1-1	.00
	SATURATION	INTEGER		1-1	.00



	HUE	INTEGER	1-100
	T		
RESPONSE	NAME	TYPE	RANGE
RESPONSE	RETURN	BOOLEAN	

#### Request device format:

```
{"module":"avStream", "operation": {"Type": "Request-response", "name": "SetVideo
Image"}, "parameter": {"brightness": {"range": "1-100", "type": "integer", "value":
50}, "channel": {"range": "1-32", "type": "integer", "value": 8}, "contrast": {"range
":"1-100", "type": "integer", "value": 50}, "hue": {"range": "1-100", "type": "integer
r", "value": 50}, "saturation": {"range": "1-100", "type": "integer", "value": 50}}, "
session": "98190dc2-0890-4ef8-ac9a-5940995e6119"}
```

#### **Device return format:**

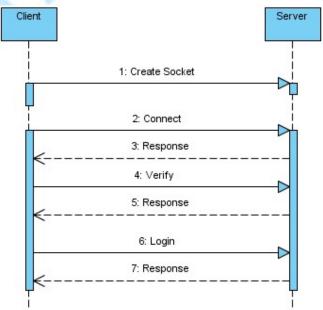
```
{"module":"avStream", "operation": {"Type":"Request-response", "name":"SetVideo Image"}, "response": {"return": {"type":"boolean", "value":true}}, "session":"981 90dc2-0890-4ef8-ac9a-5940995e6119"}
```

## 2. Device Connection and Authentication Protocol

### 2.1 Device authentication process

Device authentication means the process of communication between Client and Device, including that Client connect to device, pass authentication, description, This process duration is limited to 15 seconds, it will be considered as illegal connections, the server can automatically reject the connection, and disconnect the link. Authentication process generates globally unique communication description. Subsequent communication is required by this descriptor marked.

Device authentication process sequence diagram



In Direct mode (passive mode), Client connects to the server entering into TCP, after the connection is established, it sends



CONNECT Package data, the server directly return back SO and global descriptor SESSIONID data for subsequent connection when server receive CONNECT data. Client received the SO data and encrypt it ,the key is SESSIONID, and the encrypted SO Package is returned to the server, server will verify encrypted data, disconnect if it is incorrect ,return verification if it success. Client send user name and password to server, server will verify user name and password and return verification result.

#### **Connection service**

MODULE	CERTIFICATE				
CECCION	TYPE		RANGE	RANGE	
SESSION	STRING				
OPERATION	NAME			TYPE	
OPERATION	CONNECT			REQUEST-RESPONSE	
PARAMETER	NAME	TYPE		RANGE	
PARAIVIETER	MODE	ENUM		link mode 0 : direct mode,	
RESPONSE	NAME	TYPE		RANGE	
RESPONSE	SO	STRING			
	ERRORCODE	INTEGER	00	Valid under MODE 1	
	ERRORCAUSE	STRING		1-100(valid under MODE 1)	

#### **Authentication service**

MODULE	CERTIFICATE	A		·
SESSION	TYPE		RANGE	
SESSION	STRING	0		
OPERATION	NAME	1)		ТҮРЕ
OPERATION	VERIFY			REQUEST-RESPONSE
PARAMETER	NAME TYPE		1	RANGE
PARAIVIETER	SO (MD5 encryption)	STRING		
RESPONSE	NAME	TYPE	1	RANGE
RESPONSE	RETURN	BOOLEAN		
	ERRORCODE	INTEGER		
	ERRORCAUSE	STRING	:	1-100

### **Login service**

MODULE	CERTIFICATE				
TYPE			RANGE		
SESSION	STRING				
OPERATION	NAME			TYPE	
OPERATION	LOGIN		REQUEST-F	RESPONSE	
	NAME	TYPE		RANGE	
PARAMETER	USER	STRING			
	PASSWD	STRING			



	LOGINTYPE		0: Field is empty or a value of 0 for retention。 1: NVR connection
	NAME	ТҮРЕ	RANGE
RESPONSE	RETURN	BOOLEAN	
	ERRORCODE	INTEGER	
	ERRORCAUSE	STRING	

### 2.2 Device keep connection process

#### **Device heartbeat**

Device heartbeat is used to keep connection, heartbeat packet is set to trigger every 10 seconds, no heartbeat or response for continuous 30 seconds is regard as disconnection, heartbeat packet is created in message link and start by Client to connect.

MDVR in transmit mode, heartbeat packet time interval is 45 seconds, heartbeat for 5 times, no response for 5 times is regard as disconnection.

MODULE	CERTIFICATE		///	
SESSION	ТҮРЕ	TYPE		
SESSION	STRING			
ODEDATION	NAME	- 1		TYPE
OPERATION	KEEPALIVE			REQUEST-RESPONSE
			W.	
PARAMETER	NAME	TYPE	F	RANGE
PARAIVIETER				
RESPONSE	NAME	TYPE	F	RANGE
RESPUNSE				

## 3. Parameter Configuration

### 3.1. Parameter list

The parameter configuration format is different from other instructions and need to do the resolve and package work in the parameter module, refer to the parameter module in 2.2. The device will return the upper layer corresponding value according to the name which contains in the instruction. As long as the instruction contains a parameter name and the range is '?', the device will return a corresponding parameter name and range. The first two fields are error code and then it will judge the error code and then to resolve the parameters.

MDVR	(MDVR PARAM MODULE)					
	NAME TYPE RANGE					
	ATP		3.1.1 Time-sync			
	SSP		3.1.2 Device On/Off			
	TIMEP		3.1.3 Date and time			



RIP	3.1.4 P2 Registration
-----	-----------------------

## 3.1.1 Time-sync parameter

The JSON combination of the	Atomic data structure	Remark
paramAdjustTime_t parameters		
ATP	GE	Whether to turn on the sign for GPS schooling, 1:
		On, 0: Off.
	NE	NTP function switch
		1: enabled
		0: disabled
	CE	Whether to turn on the sign for N9 protocol
		schooling, 1; On, 0: Off.
	SID	CMS(N9 protocol) server number
	NS	NTP server address (name),64 Byte

## **3.1.2** Device On/Off parameter

The JSON combination of the	Atomic data structure	Remark
paramSwitchSetting_t parameters		
SSP	UPT	Power mode:
		0: Ignition
	1/7	1: Timing
		2: Ignition or Timing
SSP	DDS	The shutdown delay time, unit: second,
		non-negative integer

## 3.1.3 Date and time parameter

The JSON combination of the	Atomic data structure	Remark
paramTimeSetting_t time parameters		
TIMEP	DATEM	Data format
		0: MM/DD/YY
		1: YY-MM-DD
		2: DD-MM-YY
	TIMEM	Time format
		0: 24H
		1: 12H
	TIMEZ	6.2.6 Time zone definitions Chart
	OFS	Time zone shift, MSB is the sign bit, 1
		is negative, 0 is positive, stored in
		minutes.
	DST	7.3.1 DST parameters



## 3.1.3.1 DST parameter

The JSON combination of the stuDst	Atomic data structure	Remark
DST parameters		
DST	SW	DST function switch
		0: disabled
		1: enabled
	DSTM	DST using mode
		0: Default(From SMON to ES)
		1: Universal Custom mode
		2: The date can be customized, etc. (From
		STARTTIME to ENDTIME)
	DSTS	DST shifting time, hours
	SMON	The start month, 0-11 integer.
	SWEEK	Start week, represents the starting week (0: The
		first week 1: The second week 2: The third week
		3: The fourth week 4: The last week)
	SWIND	Represent the day (0-Monday, 1-6From Monday
		to Saturday ) Integer
	EMON	The stop month $0{\sim}11$ integer
	EWEEK	End week, the first four bits represents the
		week (0: The first week 1: The second week 2:
		The third week 3: The fourth week 4: The last
		week)
	EWIND	Represent the day (0-Monday, 1-6From Monday
		to Saturday ) Integer
	SH	Start hour of DST
	SM	Start minute
	SS	Start second
	EH	End hour
	EM	End minute
	ES	End second
	STARTTIME	The start date of DST and the UTC time, used to
		custom date mode.
	ENDTIME	The end date of DST and the UTC time, used to
		custom date mode.

## 3.1.4 P2 registration parameter

The JS	ON combination	of the	Atomic data structure	Remark
paramReg	isterInfo_t paramet	er		
RIP			DEVP	P2 installation position: 0~7 means
				door-1 to door-8



## 3.2 Parameter operation

### 3.2.1 Obtain parameter

MODULE	CONFIGMODEL		
SESSION	TYPE RANGE		IGE
SESSION	STRING		
OPERATION	NAME		ТҮРЕ
OPERATION	GET		REQUEST-RESPONSE
	NAME	NAME	VALUE
	MODULE1	PARAMETER1	
PARAMETER	WODOLLI		
	MODULE2	PARAMETER1	The second secon
	WIODOLLZ		
	NAME	NAME	VALUE
	MODULE1	PARAMETER1	
RESPONSE	WODOLLI		
INLOFONOL	MODULE2	PARAMETER1	

### 3.2.2 Setup parameter

MODULE	CONFIGMODEL				
CECCION	ТҮРЕ		RANGE		
SESSION	STRING				
ODERATION	NAME				TYPE
OPERATION	SET				REQUEST-RESPONSE
	NAME	NAME	,	VALUE	
		PARAMETER1			
PARAMETER	MODULE1				
	MODULE2	PARAMETER1			
	WIODOLLZ				
	NAME	TYPE	TYPE		RANGE
RESPONSE	ERRORCODE	ENUM	ENUM		
	ERRORCAUSE	STRING	STRING		1-100
	ERRORDESCRIPTION	STRING	•		1-100

Examples:



is GET, the parameters: PARAM, PARAM may contain several modules and parameters, so it is an array type when defining. If there is one module then the array only has one element, which is PARAM[0], every element in PARAM is a whole JSON. There are parameters in MODULE1 and MODULE2 contained in the PARAM, they can be the same for it is only getting the parameters, so there are only parameter name without the range. (This example uses "?" instead.)

```
{MODULE:"CONFIGMODEL", SESSION:" 98190DC2-0890-4EF8-AC9A-5940995E6119", OPERATION:"GET", PARAMETER:

[
{" MODULE1": {A:"?", B:{A:"?", B:{"?"}}, C:"?"}},

{" MODULE2": {D:"?",E:"?",F:"?"}}

]
}
```

## 4. Door Status and Counting Data Sync

## 4.1 Door open/close status

MODULE	DEVEMM(DEVICEM	DEVEMM(DEVICEMANAGEMODEL)		
CECCION	TYPE		RANGE	
SESSION	STRING			
OPERATION	NAME		TYPE	
OPERATION	INTELLIGENTCONTR	OL	REQUEST-RESPONSE	
		1		
	NAME	TYPE	RANGE	
PARAMETER	CMD	INTEGER	Control command	
PANAIVILIEN			1: door open, start counting	
			2: door close, stop counting	
	1			
	NAME	TYPE	RANGE	
RESPONSE	ERRORCODE	ENUM		
	ERRORCAUSE	STRING	1-100	

## 4.2 Passenger counting data

MODULE	DEVEMM(DEVICEMANAGEMODEL)			
CECCION	TYPE		RANGE	
SESSION	STRING			
OPERATION	NAME		TYPE	
OPERATION	UPSUPPLEDEVINFO		REQUEST-RESPONSE	
	NAME	TYPE	RANGE	
	DT	INTEGER	Device type	
PARAMETER			0: P2	
	SID	INTEGER	Unique, bring back in response	



	SUF	INTEGER	Supplement uploading mark
			0: real time upload
			1: supplement upload
	P2	OBJECT	4.2.1: JSON structure of P2 counting data
	NAME	TYPE	RANGE
	ERRORCODE	ENUM	
RESPONSE	ERRORCAUSE	STRING	1-100
	DT	INTEGER	Same DT as in PARAMETER
	SID	INTEGER	Same SID as in PARAMETER

## 4.2.1 P2 counting result

P2	Atomic data structure	Remark
	PNI	Boarding passenger counts
	PNO	Alighting passenger counts
	OFP	Door opening time, unit: ms
	CFP	Door closing time, unit: ms
	CTG	Algorithm time consuming, unit: ms
	SN	Station ID

# 5. Time Sync

## **5.1 Setup device UTC time**

MODULE	DEVEMM(DEVICEMANAGEMODEL)				
CECCION	TYPE		RANGE		
SESSION	STRING				
ODEDATION	NAME			TYPE	
OPERATION	SETCTRLUTC			REQUEST-RESPONSE	
	9				
	NAME	TYPE		RANGE	
PARAMETER	CURT	INTEGER		UTC time(Directly change the	
				device time)	
	NAME	TYPE		RANGE	
RESPONSE	ERRORCODE	ENUM			
	ERRORCAUSE	STRING		1-100	

## 5.2 Obtain device UTC time

MODULE DEVEMM(DEVICEMANAGEMODEL)	MODULE	DEVEMM(DEVICEMANAGEMODEL)	
----------------------------------	--------	---------------------------	--



SESSION	TYPE		RANGE		
SESSION	STRING				
OPERATION	NAME			TYPE	
OPERATION	GETCTRLUTC			REQUEST-RESPONSE	
PARAMETER	NAME	TYPE R.		RANGE	
PARAIVIETER					
	NAME	TYPE	1	RANGE	
RESPONSE	ERRORCODE	ENUM			
	ERRORCAUSE	STRING 1-		1-100	
	CURT	INTEGER	1	UTC time	

# **6. Version Query**

MODULE	DEVEMM(DEVICEMANAGE	DEVEMM(DEVICEMANAGEMODEL)				
CECCION	TYPE		RANGE			
SESSION	STRING					
OPERATION	NAME			TYPE		
	GETDEVVERSIONINFO			REQUEST-RESPONSE		
			4			
	NAME	TYPE	100	RANGE		
PARAMETER		161				
		73 -				
	NAME	TYPE		RANGE		
DECDONICE	ERRORCODE	ENUM				
RESPONSE	ERRORCAUSE	STRING		1-100		
	DEVINFO	OBJECT		6.1 device version info		
	DSNO	STRING		Device SN.		

## 6.1 Device version info

JSON structure of DEVINFO	Atomic data structure	Remark
DEVINFO	DEVNAME	Device name
	MANVERSION	Device main version
	APPVERSION	Application version
	PROTOCOLVERSION	Protocol version
		The first version is "1.0.0", the first "1" is main
		version (big change), the first "0" means added new
		command, the second "0" means small fix.
	UBOOT	Uboot version
	KERNEL	Kernel version
	ROOTFS	Rootffs version
	MCU	MCU version



# 7. Device File Operation

## 7.1 Remotely file operating command

MODULE	DEVEMM(DEVICEMANAGEMODEL)			
CECCION	TYPE		RANGE	
SESSION	STRING			
ODEDATION	NAME			TYPE
OPERATION	REMOTEDEVFILEOPER			REQUEST-RESPONSE
				- 0
	NAME	TYPE	R	ANGE
	TASKINDEX	INTEGER	u	ile operation task index number, sed to distinguish between ifferent tasks
	OPERTYPE	INTEGER	0	<ul><li>ile operation type:</li><li>file upload</li><li>file download</li></ul>
	DEVTYPE	INTEGER		emote device type: : P2
	FILETYPE	INTEGER	F	ile type for
		10	0	: normal log
PARAMETER	SERVERADDR	STRING	d fi T fi s F C	the file server address, the remote evice uploads files to or download alle from the server. The format is "protocol header (eg: tp://)+"IP:PORT"+server path uch as: Tp://192.168.1.1:23/logfile Turrently the protocol only upports FTP mode.
	STARTTIME	STRING	n fo	the start time of the file being manipulated, a 14-byte string in the brimat YYYYMMDDHHMMSS, for xample 20171201082030
	ENDTIME	STRING	n fo	the end time of the file being nanipulated, a 14-byte string in the brmat YYYYMMDDHHMMSS, for xample 20171201082030
	USERNAME	STRING	F	TP username, max 32 bytes
	PWD	STRING	F	TP password, max 32 bytes
	DOORMASK	INTEGER	P	2 door bit-mask, bit represent,



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			bit0-bit31 means door1 to door 32, available when DEVTYPE is 1, null means operation to all online P2 Remark: can be channel bit mask;
	NAME	TYPE	RANGE
	TASKINDEX	INTEGER	File operation task index number,
RESPONSE			corresponding to when the task is
RESPONSE			delivered
	ERRORCODE	ENUM	
	ERRORCAUSE	STRING	1-100

## 7.2. Remotely file operating status

MODULE	DEVEMM(DEVICEMANAGEMODEL)				
SESSION	TYPE		RANGE		
SESSION	STRING				
OPERATION	NAME				TYPE
OPERATION	UPFILEOPERSTATUS			1	NOTIFICATION
	NAME	TYPE		RANGE	
	TASKINDEX	INTEGER		Fi	ile operation task index number,
				cc	orresponding to when the task is
		4//		de	elivered
	OPERTYPE	INTEGER		Fi	ile operation type:
				0	: file upload
				1:	: file download
	FILETYPE	INTEGER		Fi	ile type
				0:	: Normal log
				1:	: Background pic
	10				: Parameter file
				_	: Video
PARAMETER	PER	INTEGER			rogress of file operations (upload
					r download)
					his field is a positive integer when
					le operation is in progress, for
					xample, 20 means that the current
					le is downloaded or uploaded by
					0%.
					his field should be set to 0 when
-				aı	n error occurs.
	ERRORCODE		ENUM		100
	ERRORCAUSE	STRING			-100
	P2RES[N]	ARRAY			2 task execution result, each array
					lement represent each P2 task
				ex	xecution result P2R (7.2.1: JSON



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		structure for P2 task execution
		result), available when ERRORCODE
		is 0X00000058

### 7.2.1 P2 task execution result

P2R	Atomic data structure	Remark
	DOORID	P2 door ID
		0: invalid;
		1-N means door 1-door N
		Remark: If using channel mask as
		DOORMASK when requesting, then
		here will be channel number in the
		response.
	RESULT	Task execution result, refer to error
		code table 9

# 8. Device Upgrade

## 8.1 Upgrade command

MODULE	DEVEMM(DEVICEMANAGEMODEL)			
SESSION	TYPE	7	RANGE	
3E33IUN	STRING			
ODEDATION	NAME		ТҮРЕ	
OPERATION	DEVUPGRADE		REQUEST-RESPONSE	
	. 66			
	NAME	TYPE	RANGE	
	MODE	ENUM	0: Immediately upgrade	
			1: Booking upgrade	
			2: Stop the network upgrade task	
	FROM	ENUM 0: Hard disk upgrade(default)		
			1: RAM upgrade	
	SERVERADDR	STRING	Address of the upgrade server, the length cannot	
			over 256 Bytes. The firmware used for upgrade	
PARAMETER			stored in this server. The format is "Protocol head	
			(ftp:// or http://)"+"IP:PORT (Domain	
			name)"+" server path".	
			Such as: ftp://192.168.1.1:23/upgrade,	
			http://www.streamaxtech.com/upgrade, etc.	
			Currently only support FTP mode.	
	BAKADDR	STRING	Backup upgrade server address. Use the same	
			format as the upgrade server. Keep blank if there	
			is no backup upgrade server.	



	USERNAME	STRING	32 bytes, FTP user name.
	PWD	STRING	32 bytes, FTP password.
	DEVTYPE	INTEGER	Upgrade device/module type
			0 or NULL: Device
	NAME	TYPE	RANGE
DECDONCE	ERRORCODE	ENUM	
RESPONSE	ERRORCAUSE	STRING	1-100

## 8.2 Upgrade status upload

MODULE	DEVEMM(DEVICEMANAGEMODEL)		
SESSION	TYPE		RANGE
	STRING		and the same of th
OPERATION	NAME		ТҮРЕ
	UPUPGRADESTATUS		REQUEST-RESPONSE
	NAME	TYPE	RANGE
	MODE	ENUM	0: Immediately upgrade
	PRE	INTEGER	Upgrade status return error code is 0X00000054,
			the file download progress, positive integer,
			default other errors as 0;
		- (	For example, 20, said at this time to download the
PARAMETER			20 percent. When the value is 100, the upgrade is
		6/1	finished.
	ERRORCODE	ENUM	Refer to error code table 9
	ERRORCAUSE	STRING	1-100
	DEVTYPE	INTEGER	Upgrade device type
			0: Device firmware
	/ A		1: TOF MCU

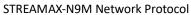
# 9 Error Code Table

Error code	Error Code Description	Error Code Description
0X00000000	Success	SUCCESS
0X0000001	Device getting failed	GET FAILED
0X00000002	Identification failure	IDENTIFICANTION FAILURE
0X00000003	Authentication timeout	AUTHENTICATION TIMEOUT
0X0000004	Verify SO failure	VALIDATION FAILURE
0X0000005	User name or password error	NAME OR PASSWORD FAILED
0X00000006	Execution fails	EXECUTION FAILED
0X0000007	Protocol analysis failed	ANALYZE PROTOCOL FAILED
0X00000008	Media server connecting failed	CONNECT MEDIA SERVER FAILED



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		STREAMAX-N9IVI NELWORK PROLOCOL
0X00000009	Media link register failed	REGISTER MEDIA LINK FAILED
0X0000000A	Media Transfer Thread creation failed	CREATE MEDIA TRANSFER THREAD FAILED
0X000000B	Protocol does not currently support this feature	NOT SUPPORT FUNCTION
0X0000000C	Memory allocation failure	ALLOCATE MEMORY FAILED
0X000000D	No matched result	NOT MATCH RESULTS
0X000000E	Network does not work	UNSTABLE NET
0X000000F	EMAIL server connection failed	CONNECT EMAIL SERVER FAILED
0X0000010	Timing failed	TIME FAILED
0X00000011	Forced offline failure	FORCE OFFLINE FAILED
0X00000012	Permission denied	NO RIGHT
0X00000013	Permissions low forced offline	FORCED OFFLINE BY LOW RIGHT
0X0000014	Add user name failed	ADD NEW USER FAILED
0X0000015	The same user name	THE SAME USER NAME
0X00000016	Edit user failed	EDIT USER FAILED
0X0000017	Delete user failed	DELETE USER FAILED
0X0000018	Too many users online	TOO MANY USERS ONLINE
0X0000019	Task exist	TASK EXIST
0X000001A	Lack of resources or tasks full	LACK OF RESOURCE OR TASK FULL
0X000001B	Channel illegal	CHANNEL ILLEGAL
0X000001C	Uncoded	UNCODED
0X000001D	Does not support the main stream	NOT SUPPORT THE MAIN STREAM
0X000001E	Does not support the sub-stream	NOT SUPPORT THE SUB STREAM
0X000001F	Does not support the mobile stream	NOT SUPPORT THE MOBLIE STREAM
0X00000020	Start Live preview failed	START REAL-TIME PREVIEW FAILED
0X00000021	File does not exist	FILE IS NOT EXIST
0X00000022	Get the upgrade file path fails	GET THE UPGRADE FILE PATH FAILED
0X00000023	Failure to receive the upgrade file	RECEIVE THE UPGRADE FILE FAILED
0X00000024	Check upgrade file failure	CHECK UPGRADE FILE FAILED
0X00000025	Open upgrade file failure	OPEN UPGRADE FILE FAILED
0X00000026	Failed to capture pictures	CATCH PICTURE FAILED
0X00000027	Failed to send data	SEND DATA FAILED
0X00000028	No this task	NO TASK
0X00000029	Unknown error	UNKNOW
0X0000002A	Parameter error	PARAM ERROR
0X0000002B	Time error	TIME ERROR
0X0000002C	Connection to the server timed out	LINK TIME OUT (Mainly to test the error code of the
		network service MAIL、DDNS、WIFI、FTP etc.)
0X0000002D	Other users are configuring	SOME ONE OPERTAING
0X0000002E	Frequently operation	OPERATE SO MUCH
0X0000002F	Testing	TESTING
0X00000030	Sender address error	SENDER ADDR ERROR
0X00000031	Receiver address error	RECVER ADDR ERROR
0X00000032	Sever error	SERVER PARAM ERROR
0X00000033	Fail to get the data from the device	GET DATA FAILED
0X00000034	Fail to start the remote synchronous playback	START PLAYBACK FAILED
0X00000035	Fail to end the remote synchronous playback	STOP PLAKBACK FAILEB





0X00000038 Drag failure         SEEK FAILED           0X00000037 Too many users upgrading         TOO MUCH USER UPGRADE           0X00000038 Users do not have this privilege         NO ROGHT           0X00000038 Users do not have this privilege         VISION IS SAME           0X00000038 System upgrading         IS UPGRADING           0X00000038 Severe port error         PORT IS ERROR           0X00000030 WiFi Switch is off         WIFI MODE IS NOT EXIST           0X00000031 Connecting         UINKING           0X00000032 Users MAC ILLEGAL         USER MAC ILLEGAL           0X00000034 Drag Mac Media link exist         USER MAC ILLEGAL           0X00000040 Permission denied         PERMISSION DENIED           0X00000041 Media link exist         DEV IS NOT EXIST           0X00000042 Device serial number does not exist         DEV IS NOT EXIST           0X00000043 Audio decoding failure         AUDIO ECCODE FAILED           0X00000044 Audio decoding failure         AUDIO DECODE FAILED           0X00000045 Start intercom failure         START TALK FAILED           0X00000045 Start intercom failure         START TALK FAILED           0X00000046 Devinioad the log failed         DOWN LOG FAILED           0X00000047 Validation guite         TEST BILED           0X000000048 Validation fails         TEST SUCCESS			STREAMAX-N9IVI NELWORK PROLOCOL
0XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	0X00000036	Drag failure	SEEK FAILED
0X00000039         The same version for the upgrade file         VISION IS SAME           0X00000038         System upgrading         IS UPGRADING           0X00000038         System upgrading         IS UPGRADING           0X00000038         WiFi module does not exist         WIFI MODE IS NOT EXIST           0X00000038         WiFi Switch is off         WIFI SCLOSE           0X00000038         Connecting         LINKING           0X00000037         Illegal MAC address         USER MAC ILLEGAL           0X00000040         Permission denied         PERMISSION DENIED           0X00000041         Media link exist         MEDIA LINK EXIST           0X00000042         Device serial number does not exist         DEV IS NOT EXIST           0X00000043         Audio encoding failure         AUDIO ENCODE FAILED           0X00000044         Audio decoding failure         AUDIO DECODE FAILED           0X00000045         Start intercom failure         START TALK FAILED           0X00000046         Download the log failed         DOWN LOG FAILED           0X00000047         Validation fails         TEST FAILED           0X00000048         Validation fail         TEST FAILED           0X00000049         Validation fail         EXPORT PARAM FAILED           0X00000040 <td>0X00000037</td> <td>Too many users upgrading</td> <td>TOO MUCH USER UPGRADE</td>	0X00000037	Too many users upgrading	TOO MUCH USER UPGRADE
0X0000003A         System upgrading         IS UPGRADING           0X0000003C         WiFi module does not exist         WIFI MODE IS NOT EXIST           0X0000003B         WiFi Switch is off         WIFI SCLOSE           0X0000003F         Lilegal MAC address         USER MAC ILLEGAL           0X0000004P         Permission denied         PERMISSION DENIED           0X0000004P         Permission denied         PERMISSION DENIED           0X0000004P         Device serial number does not exist         DEVIS NOT EXIST           0X00000042         Device serial number does not exist         DEVIS NOT EXIST           0X00000043         Audio decoding failure         AUDIO ENCODE FAILED           0X00000044         Audio decoding failure         AUDIO DECODE FAILED           0X00000045         Start intercom failure         START TALK FAILED           0X00000045         Start intercom failure         START TALK FAILED           0X00000045         Validation fail         TEST TEST           0X00000046         Validation fail         TEST SUCCESS           0X00000047         Validation fail         TEST SUCCESS           0X00000048         Export parameters fail         EXPORT PARAM FAILED           0X00000045         Export parameters fail         EXPORT PARAM FAILED      <	0X00000038	Users do not have this privilege	NO ROGHT
0X0000003B         Server port error         PORT IS ERROR           0X0000003C         WiFi module does not exist         WiFi MODE IS NOT EXIST           0X0000003B         Connecting         LINKING           0X0000003F         Connecting         LINKING           0X0000003F         Illegal MAC address         USER MAC ILLEGAL           0X00000041         Media link exist         MEDIA LINK EXIST           0X00000042         Device serial number does not exist         DEV IS NOT EXIST           0X00000043         Audio encoding failure         AUDIO ENCODE FAILED           0X00000044         Audio decoding failure         AUDIO DECODE FAILED           0X00000045         Start intercom failure         START TALK FAILED           0X00000046         Download the log failed         DOWN LOG FAILED           0X00000047         Validating         TESTING           0X00000048         Validation fails         TEST FAILED           0X00000049         Validation fails         TEST FAILED           0X000000400         Validation fail         EXP FAILED           0X00000041         GETING VALID IP         GET VALID IP           0X00000042         Falled to configure network parameters         CONFIGUR NET FAILED           0X00000045         Fario paramete	0X00000039	The same version for the upgrade file	VISION IS SAME
0X0000003C         WiFI module does not exist         WiFI MODE IS NOT EXIST           0X0000003B         Connecting         LINKING           0X0000003F         Illegal MAC address         USER MAC ILLEGAL           0X00000040         Permission denied         PERMISSION DENIED           0X00000041         Media link exist         MEDIA LINK EXIST           0X00000042         Device serial number does not exist         DEV IS NOT EXIST           0X00000043         Audio encoding failure         AUDIO DECODE FAILED           0X00000044         Audio decoding failure         AUDIO DECODE FAILED           0X00000045         Start intercom failure         START TALK FAILED           0X00000045         Download the log failed         DOWN LOG FAILED           0X00000047         Validating         TESTING           0X00000048         Validation fails         TEST FAILED           0X00000049         Validation succeed         TEST SAILED           0X00000049         Validation succeed         TEST SAILED           0X00000049         Validation fail         EXPORT PARAM FAILED           0X000000404         Failed to configure network parameters         Import parameter fail         IMPORT PARAM FAILED           0X000000045         Failed to configure network parameters         C	0X0000003A	System upgrading	IS UPGRADING
0X0000003B         WiFi Switch is off         WiFi IS CLOSE           0X0000003F         Connecting         LINKING           0X0000004D         Permission denied         PERMISSION DENIED           0X0000004D         Permission denied         PERMISSION DENIED           0X0000004D         Media link exist         MEDIA LINK EXIST           0X0000004A         Device serial number does not exist         DEV IS NOT EXIST           0X0000004A         Audio decoding failure         AUDIO DECODE FAILED           0X0000004A         Audio decoding failure         AUDIO DECODE FAILED           0X0000004A         Judiation failure         START TALK FAILED           0X0000004D         Download the log failed         DOWN LOG FAILED           0X0000004D         Validation fails         TEST FAILED           0X0000004A         Validation succeed         TEST SUCCESS           0X0000004B         Validation succeed         TEST SUCCESS           0X0000004B         Export parameters fail         EXPORT PARAM FAILED           0X0000004D         Parameter validation fail         CHECK PARAM FAILED           0X0000004D         Parameter validation fail         CHECK PARAM FAILED           0X0000004E         Failed to configure network parameters         CONFIGUR NET FAILED	0X0000003B	Server port error	PORT IS ERROR
0X0000003F         Connecting         LINKING           0X0000003F         Illegal MAC address         USER MAC LILEGAL           0X00000041         Media link exist         MEDIA LINK EXIST           0X00000042         Device serial number does not exist         DEV IS NOT EXIST           0X00000043         Audio encoding failure         AUDIO ENCODE FAILED           0X00000044         Audio decoding failure         AUDIO DECODE FAILED           0X00000045         Start intercom failure         START TALK FAILED           0X00000046         Download the log failed         DOWN LOG FAILED           0X00000047         Validating         TESTING           0X00000048         Validation fails         TEST SUCCESS           0X00000049         Validation succeed         TEST SUCCESS           0X00000040         Export parameters fail         EXPORT PARAM FAILED           0X00000040         Export parameter fail         IMPORT PARAM FAILED           0X00000040         Parameter validation fail         CHECK PARAM FAILED           0X00000040         Parameter validation fail         CHECK PARAM FAILED           0X00000047         Re-submitted to the server         RESUBMITTED           0X00000050         Connecting signaling server fail         CONFIGUR NET FAILED	0X0000003C	WiFi module does not exist	WIFI MODE IS NOT EXIST
0X0000003F         Illegal MAC address         USER MAC ILLEGAL           0X000000400         Permission denied         PERMISSION DENIED           0X00000041         Media link exist         MEDIA LINK EXIST           0X00000042         Device serial number does not exist         DEV IS NOT EXIST           0X00000043         Audio encoding failure         AUDIO ENCODE FAILED           0X00000044         Audio decoding failure         AUDIO DECODE FAILED           0X00000045         Start intercom failure         START TALK FAILED           0X00000046         Download the log failed         DOWN LOG FAILED           0X00000047         Validation fails         TESTING           0X00000048         Validation succeed         TEST SUCCESS           0X00000049         Validation succeed         TEST SUCCESS           0X0000004004         Export parameters fail         EXPORT PARAM FAILED           0X000000040         Import parameter fail         IMPORT PARAM FAILED           0X000000040         Parameter validation fail         CHECK PARAM FAILED           0X000000040         Persubmitted to the server         RESUBMITTED           0X000000040         Persubmitted to the server         RESUBMITTED           0X000000040         Processing instructions         ANALYSING CMD <td>0X0000003D</td> <td>WiFi Switch is off</td> <td>WIFI IS CLOSE</td>	0X0000003D	WiFi Switch is off	WIFI IS CLOSE
0X00000040         Permission denied         PERMISSION DENIED           0X00000041         Media link exist         MEDIA LINK EXIST           0X00000043         Device serial number does not exist         DEV IS NOT EXIST           0X00000044         Audio encoding failure         AUDIO ENCODE FAILED           0X00000045         Start intercom failure         START TALK FAILED           0X00000040         Download the log failed         DOWN LOG FAILED           0X00000047         Validating         TESTING           0X00000048         Validation fails         TEST FAILED           0X00000049         Validation succeed         TEST SUCCESS           0X00000040         Getting valid IP         GET VALID IP           0X00000040         Export parameters fail         EXPORT PARAM FAILED           0X00000040         Import parameter fail         IMPORT PARAM FAILED           0X00000040         Parameter validation fail         CHECK PARAM FAILED           0X00000040         Resubmitted to the server         RESUBMITTED           0X00000051         Failed to configure network parameters         CONFIGUR NET FAILED           0X00000052         Rosenting instructions         ANALYSING CMD           0X00000053         Logneting ginaling server fail         CONNECT CENTER SERVER FAILED </td <td>0X0000003E</td> <td>Connecting</td> <td>LINKING</td>	0X0000003E	Connecting	LINKING
0X00000041         Media link exist         MEDIA LINK EXIST           0X00000042         Device serial number does not exist         DEV IS NOT EXIST           0X00000044         Audio encoding failure         AUDIO DECODE FAILED           0X00000045         Start intercon failure         START TALK FAILED           0X00000046         Download the log failed         DOWN LOG FAILED           0X00000047         Validating         TESTING           0X00000048         Validation fails         TEST SAILED           0X00000049         Validation succeed         TEST SUCCESS           0X00000040         Getting valid IP         GET VALID IP           0X00000040         Export parameters fail         EXPORT PARAM FAILED           0X00000040         Import parameter fail         IMPORT PARAM FAILED           0X00000040         Parameter validation fail         CHECK PARAM FAILED           0X00000040         Parameter validation fail         CHECK PARAM FAILED           0X00000040         Pocessing instructions         RESUBMITTED           0X00000051         Processing instructions         ANALYSING CMD           0X00000052         No remote device         NO EXIST REMOUTE DEV           0X00000053         Login to ftp server fail         LOGIN FTP SERVER FAILED	0X0000003F	Illegal MAC address	USER MAC ILLEGAL
0X00000042         Device serial number does not exist         DEV IS NOT EXIST           0X00000043         Audio encoding failure         AUDIO ENCODE FAILED           0X00000044         Audio decoding failure         AUDIO DECODE FAILED           0X00000045         Start intercom failure         START TALK FAILED           0X00000046         Download the log failed         DOWN LOG FAILED           0X00000047         Validating         TESTING           0X00000048         Validation succeed         TEST SUCCESS           0X00000040         Validation succeed         TEST SUCCESS           0X00000040         Getting valid IP         GET VALID IP           0X00000040         Export parameters fail         EXPORT PARAM FAILED           0X00000040         Import parameter fail         IMPORT PARAM FAILED           0X00000040         Parameter validation fail         CHECK PARAM FAILED           0X00000040         Failed to configure network parameters         CONFIGUR NET FAILED           0X00000041         Falled to configure network parameters         CONFIGUR NET FAILED           0X00000042         Falled to configure network parameters         CONFIGUR NET FAILED           0X00000045         Falled to configure network parameters         CONFIGUR NET FAILED           0X00000050	0X00000040	Permission denied	PERMISSION DENIED
0X00000043       Audio encoding failure       AUDIO ENCODE FAILED         0X00000044       Audio decoding failure       AUDIO DECODE FAILED         0X00000045       Start intercom failure       START TALK FAILED         0X00000047       Validating       TESTING         0X00000048       Validation fails       TEST FAILED         0X00000049       Validation succeed       TEST SUCCESS         0X00000040       Getting valid IP       GET VALID IP         0X00000040       Export parameters fail       EXPORT PARAM FAILED         0X00000040       Import parameter fail       IMPORT PARAM FAILED         0X00000040       Parameter validation fail       CHECK PARAM FAILED         0X00000040       Parameter validation fail       CHECK PARAM FAILED         0X00000040       Failed to configure network parameters       CONFIGUR NET FAILED         0X00000047       Re-submitted to the server       RESUBMITTED         0X000000058       Connecting signaling server fail       CONNECT CENTER SERVER FAILED         0X00000059       Processing instructions       ANALYSING CMD         0X00000051       Processing instructions       ANALYSING CMD         0X00000052       No remote device       NO EXIST REMOUTE DEV         0X00000053       Login to ftp server fail <td>0X00000041</td> <td>Media link exist</td> <td>MEDIA LINK EXIST</td>	0X00000041	Media link exist	MEDIA LINK EXIST
0X00000044         Audio decoding failure         AUDIO DECODE FAILED           0X00000045         Start intercom failure         START TALK FAILED           0X00000047         Validating         TESTING           0X00000048         Validation fails         TEST FAILED           0X00000049         Validation succeed         TEST SUCCESS           0X00000040         Getting valid IP         GET VALID IP           0X00000004B         Export parameters fail         EXPORT PARAM FAILED           0X0000004C         Import parameter fail         IMPORT PARAM FAILED           0X0000004D         Parameter validation fail         CHECK PARAM FAILED           0X0000004E         Failed to configure network parameters         CONFIGUR NET FAILED           0X0000004F         Re-submitted to the server         RESUBMITTED           0X00000050         Connecting signaling server fail         CONNECT CENTER SERVER FAILED           0X00000051         Processing instructions         ANALYSING CMD           0X00000052         No remote device         NO EXIST REMOUTE DEV           0X00000053         Login to ftp server fail         LOGIN FTP SERVER FAILED           0X00000054         Download the upgrade package successfully         DOWN UPGRADE FILE SUCCESS           0X00000055         No storage space or s	0X00000042	Device serial number does not exist	DEV IS NOT EXIST
0X00000044         Audio decoding failure         AUDIO DECODE FAILED           0X00000045         Start intercom failure         START TALK FAILED           0X00000047         Validating         TESTING           0X00000048         Validation fails         TEST FAILED           0X00000049         Validation succeed         TEST SUCCESS           0X00000040         Getting valid IP         GET VALID IP           0X00000004B         Export parameters fail         EXPORT PARAM FAILED           0X0000004C         Import parameter fail         IMPORT PARAM FAILED           0X0000004D         Parameter validation fail         CHECK PARAM FAILED           0X0000004E         Failed to configure network parameters         CONFIGUR NET FAILED           0X0000004F         Re-submitted to the server         RESUBMITTED           0X00000050         Connecting signaling server fail         CONNECT CENTER SERVER FAILED           0X00000051         Processing instructions         ANALYSING CMD           0X00000052         No remote device         NO EXIST REMOUTE DEV           0X00000053         Login to ftp server fail         LOGIN FTP SERVER FAILED           0X00000054         Download the upgrade package successfully         DOWN UPGRADE FILE SUCCESS           0X00000055         No storage space or s	0X00000043	Audio encoding failure	AUDIO ENCODE FAILED
0X00000046         Download the log failed         DOWN LOG FAILED           0X00000047         Validating         TESTING           0X00000048         Validation fails         TEST SUCCESS           0X00000040         Validation succeed         TEST SUCCESS           0X00000048         Getting valid IP         GET VALID IP           0X00000048         Export parameters fail         EXPORT PARAM FAILED           0X00000040         Import parameter fail         IMPORT PARAM FAILED           0X00000041         Failed to configure network parameters         CONFIGUR NET FAILED           0X00000042         Failed to configure network parameters         CONFIGUR NET FAILED           0X00000043         Resubmitted to the server         RESUBMITTED           0X000000046         Processing instructions         ANALYSING CMD           0X00000051         Processing instructions         ANALYSING CMD           0X00000052         No remote device         NO EXIST REMOUTE DEV           0X00000053         Login to ftp server fail         LOGIN FTP SERVER FAILED           0X00000054         Download the upgrade package successfully         DOWN UPGRADE FILE SUCCESS           0X00000055         No storage space or storage media         NO ENOUGH HDD           0X00000056         Disk Protected	0X00000044		AUDIO DECODE FAILED
0X00000047         Validating         TESTING           0X00000048         Validation fails         TEST FAILED           0X00000049         Validation succeed         TEST SUCCESS           0X0000004A         Getting valid IP         GET VALID IP           0X0000004B         Export parameters fail         EXPORT PARAM FAILED           0X0000004D         Import parameter fail         IMPORT PARAM FAILED           0X0000004D         Parameter validation fail         CHECK PARAM FAILED           0X0000004F         Failed to configure network parameters         CONFIGUR NET FAILED           0X0000004F         Re-submitted to the server         RESUBMITTED           0X0000005D         Connecting signaling server fail         CONNECT CENTER SERVER FAILED           0X00000051         Processing instructions         ANALYSING CMD           0X00000052         No remote device         NO EXIST REMOUTE DEV           0X00000053         Login to ftp server fail         LOGIN FTP SERVER FAILED           0X00000054         Download the upgrade package successfully         DOWN UPGRADE FILE SUCCESS           0X00000055         No storage space or storage media         NO ENOUGH HDD           0X00000056         Disk Protected         HDD PROTECT           0X00000057         File backup         EX	0X00000045	Start intercom failure	START TALK FAILED
0X00000047         Validating         TESTING           0X00000048         Validation fails         TEST FAILED           0X00000049         Validation succeed         TEST SUCCESS           0X0000004A         Getting valid IP         GET VALID IP           0X0000004B         Export parameters fail         EXPORT PARAM FAILED           0X0000004D         Import parameter fail         IMPORT PARAM FAILED           0X0000004D         Parameter validation fail         CHECK PARAM FAILED           0X0000004F         Failed to configure network parameters         CONFIGUR NET FAILED           0X0000004F         Re-submitted to the server         RESUBMITTED           0X0000005D         Connecting signaling server fail         CONNECT CENTER SERVER FAILED           0X00000051         Processing instructions         ANALYSING CMD           0X00000052         No remote device         NO EXIST REMOUTE DEV           0X00000053         Login to ftp server fail         LOGIN FTP SERVER FAILED           0X00000054         Download the upgrade package successfully         DOWN UPGRADE FILE SUCCESS           0X00000055         No storage space or storage media         NO ENOUGH HDD           0X00000056         Disk Protected         HDD PROTECT           0X00000057         File backup         EX	0X00000046	Download the log failed	DOWN LOG FAILED
0X00000048         Validation fails         TEST FAILED           0X00000049         Validation succeed         TEST SUCCESS           0X0000004A         Getting valid IP         GET VALID IP           0X0000004B         Export parameters fail         EXPORT PARAM FAILED           0X0000004C         Import parameter fail         IMPORT PARAM FAILED           0X0000004E         Failed to configure network parameters         CONFIGUE NET FAILED           0X0000004F         Re-submitted to the server         RESUBMITTED           0X00000050         Connecting signaling server fail         CONNECT CENTER SERVER FAILED           0X00000051         Processing instructions         ANALYSING CMD           0X00000052         No remote device         NO EXIST REMOUTE DEV           0X00000053         Login to ftp server fail         LOGIN FTP SERVER FAILED           0X00000054         Download the upgrade package successfully         DOWN UPGRADE FILE SUCCESS           0X00000055         No storage space or storage media         NO ENOUGH HDD           0X00000056         Disk Protected         HDD PROTECT           0X00000057         File backup         EXPORTING           0X00000058         Task complete and end         TASK COMPLETE           0X00000059         Task upgrade interrupted	0X00000047		TESTING
0X0000004A       Getting valid IP       GET VALID IP         0X0000004B       Export parameters fail       EXPORT PARAM FAILED         0X0000004C       Import parameter fail       IMPORT PARAM FAILED         0X0000004D       Parameter validation fail       CHECK PARAM FAILED         0X0000004E       Failed to configure network parameters       CONFIGUE NET FAILED         0X0000004F       Re-submitted to the server       RESUBMITTED         0X00000050       Connecting signaling server fail       CONNECT CENTER SERVER FAILED         0X00000051       Processing instructions       ANALYSING CMD         0X00000052       No remote device       NO EXIST REMOUTE DEV         0X00000053       Login to ftp server fail       LOGIN FTP SERVER FAILED         0X00000054       Download the upgrade package successfully       DOWN UPGRADE FILE SUCCESS         0X00000055       No storage space or storage media       NO ENOUGH HDD         0X00000056       Disk Protected       HDD PROTECT         0X00000057       File backup       EXPORTING         0X00000058       Task complete and end       TASK REFUSED         0X00000059       Task is rejected       TASK REFUSED         0X00000050       U-Disk upgrade interrupted       STOP NET UPGRADE         0X00000050	0X00000048		TEST FAILED
0X0000004A       Getting valid IP       GET VALID IP         0X0000004B       Export parameters fail       EXPORT PARAM FAILED         0X0000004C       Import parameter fail       IMPORT PARAM FAILED         0X0000004D       Parameter validation fail       CHECK PARAM FAILED         0X0000004E       Failed to configure network parameters       CONFIGUE NET FAILED         0X0000004F       Re-submitted to the server       RESUBMITTED         0X00000050       Connecting signaling server fail       CONNECT CENTER SERVER FAILED         0X00000051       Processing instructions       ANALYSING CMD         0X00000052       No remote device       NO EXIST REMOUTE DEV         0X00000053       Login to ftp server fail       LOGIN FTP SERVER FAILED         0X00000054       Download the upgrade package successfully       DOWN UPGRADE FILE SUCCESS         0X00000055       No storage space or storage media       NO ENOUGH HDD         0X00000056       Disk Protected       HDD PROTECT         0X00000057       File backup       EXPORTING         0X00000058       Task complete and end       TASK REFUSED         0X00000059       Task is rejected       TASK REFUSED         0X00000050       U-Disk upgrade interrupted       STOP NET UPGRADE         0X00000050	0X00000049	Validation succeed	TEST SUCCESS
0X0000004B       Export parameters fail       EXPORT PARAM FAILED         0X0000004C       Import parameter fail       IMPORT PARAM FAILED         0X0000004D       Parameter validation fail       CHECK PARAM FAILED         0X0000004E       Failed to configure network parameters       CONFIGUE NET FAILED         0X0000004F       Re-submitted to the server       RESUBMITTED         0X00000050       Connecting signaling server fail       CONNECT CENTER SERVER FAILED         0X00000051       Processing instructions       ANALYSING CMD         0X00000052       No remote device       NO EXIST REMOUTE DEV         0X00000053       Login to ftp server fail       LOGIN FTP SERVER FAILED         0X00000054       Download the upgrade package successfully       DOWN UPGRADE FILE SUCCESS         0X00000055       No storage space or storage media       NO ENOUGH HDD         0X00000056       Disk Protected       HDD PROTECT         0X00000057       File backup       EXPORTING         0X00000058       Task complete and end       TASK COMPLETE         0X00000059       Task is rejected       TASK REFUSED         0X00000050       Task upgrade interrupted       STOP NET UPGRADE         0X00000050       Line busy       CALLING         0X00000050       Call fai	0X0000004A		GET VALID IP
0X0000004C       Import parameter fail       IMPORT PARAM FAILED         0X0000004D       Parameter validation fail       CHECK PARAM FAILED         0X0000004E       Failed to configure network parameters       CONFIGUE NET FAILED         0X0000004F       Re-submitted to the server       RESUBMITTED         0X00000050       Connecting signaling server fail       CONNECT CENTER SERVER FAILED         0X00000051       Processing instructions       ANALYSING CMD         0X00000052       No remote device       NO EXIST REMOUTE DEV         0X00000053       Login to ftp server fail       LOGIN FTP SERVER FAILED         0X00000054       Download the upgrade package successfully       DOWN UPGRADE FILE SUCCESS         0X00000055       No storage space or storage media       NO ENOUGH HDD         0X00000056       Disk Protected       HDD PROTECT         0X00000057       File backup       EXPORTING         0X00000058       Task complete and end       TASK COMPLETE         0X00000059       Task is rejected       TASK REFUSED         0X00000050       U-Disk upgrade interrupted       STOP NET UPGRADE         0X00000050       Remotely playback data over       PLAY BACK DATA OVER         0X00000050       Call failed       CALL FAILED         0X00000050	0X0000004B		EXPORT PARAM FAILED
0X0000004D       Parameter validation fail       CHECK PARAM FAILED         0X0000004E       Failed to configure network parameters       CONFIGUE NET FAILED         0X0000004F       Re-submitted to the server       RESUBMITTED         0X00000050       Connecting signaling server fail       CONNECT CENTER SERVER FAILED         0X00000051       Processing instructions       ANALYSING CMD         0X00000052       No remote device       NO EXIST REMOUTE DEV         0X00000053       Login to ftp server fail       LOGIN FTP SERVER FAILED         0X00000054       Download the upgrade package successfully       DOWN UPGRADE FILE SUCCESS         0X00000055       No storage space or storage media       NO ENOUGH HDD         0X00000056       Disk Protected       HDD PROTECT         0X00000057       File backup       EXPORTING         0X00000058       Task complete and end       TASK COMPLETE         0X00000059       Task is rejected       TASK REFUSED         0X00000050       U-Disk upgrade interrupted       STOP NET UPGRADE         0X00000050       Line busy       CALLING         0X00000050       Call failed       CALL FAILED         0X00000050       The current network does not support       NOT SUPPORT NETTYPE         0X00000051       The curren	0X0000004C	Import parameter fail	IMPORT PARAM FAILED
0X0000004F       Re-submitted to the server       RESUBMITTED         0X00000050       Connecting signaling server fail       CONNECT CENTER SERVER FAILED         0X00000051       Processing instructions       ANALYSING CMD         0X00000052       No remote device       NO EXIST REMOUTE DEV         0X00000053       Login to ftp server fail       LOGIN FTP SERVER FAILED         0X00000054       Download the upgrade package successfully       DOWN UPGRADE FILE SUCCESS         0X00000055       No storage space or storage media       NO ENOUGH HDD         0X00000056       Disk Protected       HDD PROTECT         0X00000057       File backup       EXPORTING         0X00000058       Task complete and end       TASK COMPLETE         0X00000059       Task is rejected       TASK REFUSED         0X00000050       U-Disk upgrade interrupted       STOP NET UPGRADE         0X00000050       Remotely playback data over       PLAY BACK DATA OVER         0X00000050       Call failed       CALLING         0X00000050       Call failed       CALL FAILED         0X00000051       The current network does not support       NOT SUPPORT NETTYPE         0X00000061       De ready to delete       DELETE DATA         0X00000061       De ready to delete <td< td=""><td>0X0000004D</td><td></td><td>CHECK PARAM FAILED</td></td<>	0X0000004D		CHECK PARAM FAILED
0X00000050Connecting signaling server failCONNECT CENTER SERVER FAILED0X00000051Processing instructionsANALYSING CMD0X00000052No remote deviceNO EXIST REMOUTE DEV0X00000053Login to ftp server failLOGIN FTP SERVER FAILED0X00000054Download the upgrade package successfullyDOWN UPGRADE FILE SUCCESS0X00000055No storage space or storage mediaNO ENOUGH HDD0X00000056Disk ProtectedHDD PROTECT0X00000057File backupEXPORTING0X00000058Task complete and endTASK COMPLETE0X00000059Task is rejectedTASK REFUSED0X0000005AU-Disk upgrade interruptedSTOP NET UPGRADE0X0000005BRemotely playback data overPLAY BACK DATA OVER0X0000005DCall failedCALL FAILED0X0000005DThe current network does not supportNOT SUPPORT NETTYPE0X0000005F3G / 4G module began to upgrade3G4G START UPGRADING0X00000060No deleted dataNO DELETE DATA0X00000061be ready to deleteDELETE IS READY	0X0000004E	Failed to configure network parameters	CONFIGUE NET FAILED
0X00000051Processing instructionsANALYSING CMD0X00000052No remote deviceNO EXIST REMOUTE DEV0X00000053Login to ftp server failLOGIN FTP SERVER FAILED0X00000054Download the upgrade package successfullyDOWN UPGRADE FILE SUCCESS0X00000055No storage space or storage mediaNO ENOUGH HDD0X00000056Disk ProtectedHDD PROTECT0X00000057File backupEXPORTING0X00000058Task complete and endTASK COMPLETE0X00000059Task is rejectedTASK REFUSED0X0000005AU-Disk upgrade interruptedSTOP NET UPGRADE0X0000005BRemotely playback data overPLAY BACK DATA OVER0X0000005CLine busyCALLING0X0000005DCall failedCALL FAILED0X0000005EThe current network does not supportNOT SUPPORT NETTYPE0X0000005F3G / 4G module began to upgrade3G4G START UPGRADING0X00000060No deleted dataNO DELETE DATA0X00000061be ready to deleteDELETE IS READY	0X0000004F	Re-submitted to the server	RESUBMITTED
0X00000051Processing instructionsANALYSING CMD0X00000052No remote deviceNO EXIST REMOUTE DEV0X00000053Login to ftp server failLOGIN FTP SERVER FAILED0X00000054Download the upgrade package successfullyDOWN UPGRADE FILE SUCCESS0X00000055No storage space or storage mediaNO ENOUGH HDD0X00000056Disk ProtectedHDD PROTECT0X00000057File backupEXPORTING0X00000058Task complete and endTASK COMPLETE0X00000059Task is rejectedTASK REFUSED0X0000005AU-Disk upgrade interruptedSTOP NET UPGRADE0X0000005BRemotely playback data overPLAY BACK DATA OVER0X0000005CLine busyCALLING0X0000005DCall failedCALL FAILED0X0000005EThe current network does not supportNOT SUPPORT NETTYPE0X0000005F3G / 4G module began to upgrade3G4G START UPGRADING0X00000060No deleted dataNO DELETE DATA0X00000061be ready to deleteDELETE IS READY	0X00000050	Connecting signaling server fail	CONNECT CENTER SERVER FAILED
0X00000052No remote deviceNO EXIST REMOUTE DEV0X00000053Login to ftp server failLOGIN FTP SERVER FAILED0X00000054Download the upgrade package successfullyDOWN UPGRADE FILE SUCCESS0X00000055No storage space or storage mediaNO ENOUGH HDD0X00000056Disk ProtectedHDD PROTECT0X00000057File backupEXPORTING0X00000058Task complete and endTASK COMPLETE0X00000059Task is rejectedTASK REFUSED0X0000005AU-Disk upgrade interruptedSTOP NET UPGRADE0X0000005BRemotely playback data overPLAY BACK DATA OVER0X0000005CLine busyCALLING0X0000005DCall failedCALL FAILED0X0000005EThe current network does not supportNOT SUPPORT NETTYPE0X0000005F3G / 4G module began to upgrade3G4G START UPGRADING0X00000060No deleted dataNO DELETE DATA0X00000061be ready to deleteDELETE IS READY	0X00000051		ANALYSING CMD
OX0000054 Download the upgrade package successfully OX0000055 No storage space or storage media NO ENOUGH HDD OX0000056 Disk Protected HDD PROTECT OX0000057 File backup EXPORTING OX0000058 Task complete and end TASK COMPLETE OX0000059 Task is rejected TASK REFUSED OX000005A U-Disk upgrade interrupted STOP NET UPGRADE OX000005B Remotely playback data over PLAY BACK DATA OVER OX000005C Line busy CALLING OX000005D Call failed CALL FAILED OX000005E The current network does not support OX0000005F 3G / 4G module began to upgrade OX00000060 No deleted data OX00000061 be ready to delete	0X00000052	No remote device	NO EXIST REMOUTE DEV
0X00000055No storage space or storage mediaNO ENOUGH HDD0X00000056Disk ProtectedHDD PROTECT0X00000057File backupEXPORTING0X00000058Task complete and endTASK COMPLETE0X00000059Task is rejectedTASK REFUSED0X0000005AU-Disk upgrade interruptedSTOP NET UPGRADE0X0000005BRemotely playback data overPLAY BACK DATA OVER0X0000005CLine busyCALLING0X0000005DCall failedCALL FAILED0X0000005EThe current network does not supportNOT SUPPORT NETTYPE0X0000005F3G / 4G module began to upgrade3G4G START UPGRADING0X00000060No deleted dataNO DELETE DATA0X00000061be ready to deleteDELETE IS READY	0X00000053	Login to ftp server fail	LOGIN FTP SERVER FAILED
0X00000056Disk ProtectedHDD PROTECT0X00000057File backupEXPORTING0X00000058Task complete and endTASK COMPLETE0X00000059Task is rejectedTASK REFUSED0X0000005AU-Disk upgrade interruptedSTOP NET UPGRADE0X0000005BRemotely playback data overPLAY BACK DATA OVER0X0000005CLine busyCALLING0X0000005DCall failedCALL FAILED0X0000005EThe current network does not supportNOT SUPPORT NETTYPE0X0000005F3G / 4G module began to upgrade3G4G START UPGRADING0X00000060No deleted dataNO DELETE DATA0X00000061be ready to deleteDELETE IS READY	0X00000054	Download the upgrade package successfully	DOWN UPGRADE FILE SUCCESS
0X00000057File backupEXPORTING0X00000058Task complete and endTASK COMPLETE0X00000059Task is rejectedTASK REFUSED0X0000005AU-Disk upgrade interruptedSTOP NET UPGRADE0X0000005BRemotely playback data overPLAY BACK DATA OVER0X0000005CLine busyCALLING0X0000005DCall failedCALL FAILED0X0000005EThe current network does not supportNOT SUPPORT NETTYPE0X0000005F3G / 4G module began to upgrade3G4G START UPGRADING0X00000060No deleted dataNO DELETE DATA0X00000061be ready to deleteDELETE IS READY	0X00000055	No storage space or storage media	NO ENOUGH HDD
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OX00000059 Task is rejected TASK REFUSED  OX0000005A U-Disk upgrade interrupted STOP NET UPGRADE  OX0000005B Remotely playback data over PLAY BACK DATA OVER  OX0000005C Line busy CALLING  OX000005D Call failed CALL FAILED  OX0000005E The current network does not support NOT SUPPORT NETTYPE  OX0000005F 3G / 4G module began to upgrade 3G4G START UPGRADING  OX00000060 No deleted data NO DELETE DATA  OX00000061 be ready to delete DELETE IS READY	0X00000057	File backup	EXPORTING
0X0000005AU-Disk upgrade interruptedSTOP NET UPGRADE0X0000005BRemotely playback data overPLAY BACK DATA OVER0X0000005CLine busyCALLING0X0000005DCall failedCALL FAILED0X0000005EThe current network does not supportNOT SUPPORT NETTYPE0X0000005F3G / 4G module began to upgrade3G4G START UPGRADING0X00000060No deleted dataNO DELETE DATA0X00000061be ready to deleteDELETE IS READY	0X00000058	Task complete and end	TASK COMPLETE
0X0000005BRemotely playback data overPLAY BACK DATA OVER0X0000005CLine busyCALLING0X0000005DCall failedCALL FAILED0X0000005EThe current network does not supportNOT SUPPORT NETTYPE0X0000005F3G / 4G module began to upgrade3G4G START UPGRADING0X00000060No deleted dataNO DELETE DATA0X00000061be ready to deleteDELETE IS READY	0X00000059	Task is rejected	TASK REFUSED
OX0000005C Line busy CALLING  OX0000005D Call failed CALL FAILED  OX0000005E The current network does not support NOT SUPPORT NETTYPE  OX0000005F 3G / 4G module began to upgrade 3G4G START UPGRADING  OX00000060 No deleted data NO DELETE DATA  OX00000061 be ready to delete DELETE IS READY	0X0000005A	U-Disk upgrade interrupted	STOP NET UPGRADE
0X0000005DCall failedCALL FAILED0X0000005EThe current network does not supportNOT SUPPORT NETTYPE0X0000005F3G / 4G module began to upgrade3G4G START UPGRADING0X00000060No deleted dataNO DELETE DATA0X00000061be ready to deleteDELETE IS READY	0X0000005B	Remotely playback data over	PLAY BACK DATA OVER
OX0000005EThe current network does not supportNOT SUPPORT NETTYPE0X0000005F3G / 4G module began to upgrade3G4G START UPGRADING0X00000060No deleted dataNO DELETE DATA0X00000061be ready to deleteDELETE IS READY	0X0000005C	Line busy	CALLING
0X0000005F3G / 4G module began to upgrade3G4G START UPGRADING0X00000060No deleted dataNO DELETE DATA0X00000061be ready to deleteDELETE IS READY	0X0000005D	Call failed	CALL FAILED
0X00000060No deleted dataNO DELETE DATA0X00000061be ready to deleteDELETE IS READY	0X0000005E	The current network does not support	NOT SUPPORT NETTYPE
0X00000060No deleted dataNO DELETE DATA0X00000061be ready to deleteDELETE IS READY	0X0000005F	3G / 4G module began to upgrade	3G4G START UPGRADING
	0X00000060	No deleted data	NO DELETE DATA
0X00000062 being deleting IS DELETING	0X00000061	be ready to delete	DELETE IS READY
	0X00000062	being deleting	IS DELETING
0X00000063	0X00000063		



0X00000064	User expired	SUER IS OVERDUE
0X00000065	Time shift task has expired and been deleted	TIMESHIFT TASK DELETE
0X00000066	Failed to receive maintenance record.	FAIL TO RECV MAINTAINRECORD
0X00000067	File existed	FILE EXISTED
0X00000068	Failed to create file	FAIL TO CREATE FILE
0X00000069	U-disk not exist	USB FLASH DISK NOT EXIST
0X0000006A	U-disk write or read error	USB DISK WRITE OR READ FAILED
0X0000006B	No needed file in U-disk	NO NEEDED FILE IN USB DISK
0X0000006C	Hardware config table not exist	HARDWARE CONFIG TABLE NOT EXIST
0X000006E	Failed to import hardware config table	IMPORT HARDWARE CONFIG TABLE FAILED
0X0000006F	Need to modify initial password	MODIFY INITIAL PWD
0X00000070	Failed to save new password	SAVE THE NEW PWD FAILED
0X00000071	New password is same as the old one.	NEW PWD IS SAME TO OLD PWD
0X00000072	New password is same as the initial one.	NEW PWD IS SAME TO INITIAL PWD
0X00000073	Function has been disabled	FUNCTION HAS DISABLED
0X00000074	Task is in progress	TASK IS RUNNING
0X00000075	Download failed, no SD card in P2	DOWNLOAD FAILED,P2 NO SD
0X00000076	No corresponding time range data in P2 SD card	P2 SD NO VALID DATA
0X00000077	Failed to create route	ROUTE CREATE FAILED

## 10. Time Zone Definitions

Time zone, format is string which can contain digit, -, and letters.

- -720A=(GMT-12:00)INTERNATIONAL DATE LINE WEST
- -660A=(GMT-11:00)MIDWAY ISLANDS,SAMOA
- -660B=(GMT-11:00)UNIVERSAL TIME-11
- -600A=(GMT-10:00)HAWAII
- -540A=(GMT-09:00)ALASKA
- -480A=(GMT-08:00)PACIFIC TIME(US & CANADA)
- -480B=(GMT-08:00)BAJA CALIFORNIA
- -420A=(GMT-07:00)CHIHUAHUA,LA PAZ,MAZATLAN
- -420B=(GMT-07:00)MOUNTAIN TIME(US&CANADA)
- -420C=(GMT-07:00)ARIZONA
- -360A=(GMT-06:00)GUADALAJARA, MEXICO CITY
- -360B=(GMT-06:00)SASKATCHEWAN
- -360C=(GMT-06:00)CENTRAL TIME(US & CANADA)
- -360D=(GMT-06:00)CENTRAL AMERICA
- -300A=(GMT-05:00)BOGOTA,LIMA,QUITO
- -300B=(GMT-05:00)EASTERN TIME(US & CANADA)
- -300C=(GMT-05:00)INDIANA(EAST)
- -270A=(GMT-04:30)CARACAS
- -240A=(GMT-04:00)ATLANTIC TIME(CANADA)
- -240B=(GMT-04:00)CUIABA
- -240C=(GMT-04:00)GEORGETOWN,LA PAZ,MANAUS
- -240D=(GMT-04:00)SANTIAGO



- -240E=(GMT-04:00)ASUNCION -210A=(GMT-03:30)NEWFOUNDLAND -180A=(GMT-03:00)BRASILIA
- -180B=(GMT-03:00)BUENOS AIRES
- -180C=(GMT-03:00)GREENLAND
- -180D=(GMT-03:00)CAYENNE, FORTALEZA
- -180E=(GMT-03:00)MONTEVIDEO
- -120A=(GMT-02:00)UNIVERSAL TIME-02
- -120B=(GMT-02:00)MID-ATLANTIC
- -60A=(GMT-01:00)CAPE VERDE IS.
- -60B=(GMT-01:00)AZORES
- 0A=(GMT)DUBLIN, EDINBURGH, LONDON
- OB=(GMT)CASABLANCA
- OC=(GMT)MONROVIA, REYKJAVIK
- 0D=(GMT)COORDINATED UNIVERSAL TIME
- 60A=(GMT+01:00)AMSTERDAM,BERLIN,ROME
- 60B=(GMT+01:00)BELGRADE, BRATISLAVA
- 60C=(GMT+01:00)BRUSSELS,MADRID,PARIS
- 60D=(GMT+01:00)SARAJEVO,WARSAW,ZAGREB
- 60E=(GMT+01:00)WEST CENTRAL AFRICA
- 60F=(GMT+01:00)WINDHOEK
- 120A=(GMT+02:00)ATHENS
- 120B=(GMT+02:00)BEIRUT
- 120C=(GMT+02:00)DAMASCUS
- 120D=(GMT+02:00)HARARE, PRETORIA
- 120E=(GMT+02:00)HELSINKI,KYIV,RIGA,TALLINN
- 120F=(GMT+02:00)CAIRO
- 120G=(GMT+02:00)MINSK
- 120H=(GMT+02:00)ATHENS,BUCHAREST,ISTANBUL
- 120I=(GMT+02:00)JERUSALEM
- 180A=(GMT+03:00)BAGHDAD
- 180B=(GMT+03:00)KUWAIT,RIYADH
- 180C=(GMT+03:00)MOSCOW, ST.PETERSBURG
- 180D=(GMT+03:00)NAIROBI
- 210A=(GMT+03:30)TEHRAN
- 240A=(GMT+04:00)ABU DHABI, MUSCAT
- 240B=(GMT+04:00)YEREVAN
- 240C=(GMT+04:00)BAKU
- 240D=(GMT+04:00)TBILISI
- 240E=(GMT+04:00)PORT LOUIS
- 270A=(GMT+04:30)KABUL
- 300A=(GMT+05:00)TASHKENT
- 300B=(GMT+05:00)EKATERINBURG
- 300C=(GMT+05:00)ISLAMABAD, KARACHI
- 330A=(GMT+05:30)CHENNAI,MUMBAI,NEW DELHI
- 330B=(GMT+05:30)SRI JAYAWARDENEPURA
- 345A=(GMT+05:45)KATHMANDU



720C=(GMT+12:00)UNIVERSAL TME+12

780A=(GMT+13:00)NUKU'ALOFA

STREAMAX-N9M Network Protocol 360A=(GMT+06:00)ASTANA, DHAKA 360B=(GMT+06:00)NOVOSIBIRSK 390A=(GMT+06:30)YANGON 420A=(GMT+07:00)KRASNOYARSK 420B=(GMT+07:00)BANGKOK, HANOI, JAKARTA 480A=(GMT+08:00)BEIJING,CHONGQING,HONGKONG,URUMQI 480B=(GMT+08:00)KUALA LUMPUR, SINGAPORE 480C=(GMT+08:00)PERTH 480D=(GMT+08:00)TAIPEI 480E=(GMT+08:00)ULAN BATOR 480F=(GMT+08:00)IRKUTSK 540A=(GMT+09:00)OSAKA,SAPPORO, TOKYO 540B=(GMT+09:00)SEOUL 540C=(GMT+09:00)YAKUTSK 570A=(GMT+09:30)ADELAIDE 570B=(GMT+09:30)DARWIN 600A=(GMT+10:00)BRISBANE 600B=(GMT+10:00)VLADIVOSTOK 600C=(GMT+10:00)GUAM. PORT MORESBY 600D=(GMT+10:00)HOBART 600E=(GMT+10:00)CANBERRA, MELBOURNE,SYDNEY 660A=(GMT+11:00)MAGADAN,SOLOMON IS. 720A=(GMT+12:00)AUCKLAND, WELLINGTON 720B=(GMT+12:00)FIJI