EJOIN MultiWan Router HTTP DEVELOPMENT SPEC

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 Add query SMS statistics and query call statistics interface
 Merge device-related HTTP

Increase the parameter of mode

Increase the proxy configuration

Add interface for configuring IP

documents and modify the

Increase the parameter of

Add delay parameter

whitelist/blacklist

document name

Add example

 $port_rx_tx(0)$

Amendment History

008

009

010

011

012

013

014

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Number	Revision Description	Affected	Number	By	Date
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1 Overview

This document specifies HTTP MultiWan Router API of Ejoin device, include SMS receiving, single sending, group-sending and status of Sending task querying.

This SMS API is still base on HTTP, and add POST request support, it provide multitask and status report by JSON array. About JSON array format, please refer its standardization state.

Copyright Notice

This document is just for Ejoin R&D team reference. If in need, it can be offered to a cooperation project developer.

3 **Status Notification**

This device will send a HTTP POST request which include the device running status information to the SMS server when it reaches either of below conditions.

1)One of device port status changed.

2)Community period expired.

3.1.1 URL

Server can send a GET request to get the status on device by below URL:

http://host:port/goip get status.html?url=xxx&period=0

Device report url:

Server send a get request like above to specific the URL.

3.1.2 Parameter

Parameter	Description	Default	Required	Remark
Url	Specific the report URL	None	N	Tips:
				Special characters need do URL
				encode
				Just need specific once time.
Period	Report period	60	N	>0:Report status according to
				the specified report period,the
				minimum value is 60,the unit is
				second 0:cancel status report
all_sims	Get all the card status	0	N	0: disable 1: enable

3.1.3 Dev-status message

Device send ' dev-status' to server periodically.

dev-status message(information in HTTP message Body) is a JSON array string that comprised of ports status. Parameter Content-Type in HTTP head should set to "application/json;charset=utf-8".

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```
{"type": "dev-status", "seq": 1, "expires": 180, "mac": "00-30-f1-01-02-03", "ip": "192.168.1.67", "max-ports": 32, "max-slots": 4, "status": [{"port": "1A", ...}, {"port": "2B", ...}, ..., {"port": "32D", ...}]}
```

Components state:

Parameter	Data type	Description	Default	Required
Туре	String	Message type.	None	Y (dev-status)
seq	Int	Device status message sequence number, start from 1.	None	Y
expires	Int	Dev-status sending period.	180s	N
mac	String	Device MAC.	None	Y
ip	String	Device IP address.	None	Y
max-ports	Int	Total ports of device.	None	Y
max-slots	String	Total SIM slots of device.	1	N
status	array	Status of device port.	None	Y

For the description of the port status, see 3.1.4 [Port Status]

3.1.4 Port-status message

Any one port status changed, device will send 'port-status' message to server immediately.

Status message (information in HTTP message Body) is a JSON array string that comprised of ports status. Parameter Content-Type in HTTP head should set to "application/json;charset=utf-8".

```
{"type": "port-status", "port": "2B", "seq": 1, "status": "3 OK", "bal": "100.00", 
"opr": "46000 China Mobile", "sn": "139xxxxxxxxx", "imei": "86xxxxxxxxxxxxxx", "imsi": 
"xxx", "iccid": "xxx"}
```

Components state:

Parameter	Data type	Description	Default	Required
Туре	String	Message type	None	Y (port-status)
port	String	Describe the current working port and SIM slot. Like 1.01,1.0232.04	None	Y
seq	Int	The port is incremented from port 1		
st	string	Port status code + detail 0: No SIM card 1: Exist idel SIM card 2: Registering 3: Registered 5: no balance or alarm 6: Register failed	None	Y

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		7: SIM card locked by device 8: SIM card locked by operator 9: Recognize SIM card error 11: Card Detected 12: User locked		
bal	Floating point	SIM card balance(yy.mm)	None	Y
opr	String	SIM card operator name and ID valid while parameter "st" equal to 3 or 4	None	N
sn	string	SIM number	None	N
imei	string	IMEI of module	None	N
imsi	string	IMSI num of SIM card	None	N
iccid	string	ICCID num of SIM card	None	N

4 Operate command sending

Device offer API to server to change device status, like change sim card, lock/unlock port, reboot device. About USSD command sending, please refer to "Ejoin HTTP-USSD API(V1.0).docx";

Device will send message to the server by port status notification when lock port or change SIM card.

4.1.1 URL

http://host:port/goip send cmd.html

host: Device IP address

port: Device webpage management port, default value is 80.

4.1.2 Parameter

Parameter	Description	Default	Required	Ramark
Version	API version	1.1	Y	This document describes
				specification support only
username	Device account	None	Y	
Password	Device password	None	Y	
Op	Operation description	None		get:get device configuration
				set: set device configuration
				lock: lock port
				unlock:unlock port
			N	switch:switch SIM card
			11	reset: reboot module
				save: save configuration
				reboot: reboot device
				redial: sim redial(Note:
				1. Check the status of the SIM

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				Before redial, don't redial when the status is not "dial successful" 2. The redial cycle should not be too short, and the cycle should be random in a range,in case the operator detection is abnormal 3. If the status of sim is abnormal, can reset the module and wait for a period of time until the sim works properly
mode	SIM Redial mode	None	N	0:flight mode (sim will re-registration) 1:fast mode(sim don't re-registration) Note:not configuring this parameter will use default mode,it's the same as mode=0. You may get a new IP in flight mode,but may not in fast mode.
delay	Delayed dialing duration	None	N	When the SIM card redials in flight mode (mode is 0) (op is redial), delay is used to specify the duration of the delay for dialing after the card registration is successful, in seconds.
par_name(n)	Parameter name of the get/set operation	The value of the set operation	N	The name of the parameter to be actually operated. If the parameter is an array parameter, you can use parentheses with parameters, and the subscript starts from 0. Sms_url: destination URL for SMS push data_service_enable: (0: disable 1: enable) Ports_rx_tx port_public_ip Port_public_ip(num),num represents the port number that needs to be get, and the value of num variable starts from 0. Port_rx_tx(num),num represents the

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		port number that needs to be get,
		and the value of num variable starts
		from 0.
		ttl : survival time
		(value range 1-255)

4.1.3 Data

Device support a single command to operate multi-ports and multi-commands to operate different port.

Command sending message (information in HTTP message Body) is a JSON array string that composed by one or more command. Parameter "Content-Type" in HTTP head should set to "application/json;charset=utf-8".

Components state:

Parameter	Data	Description	Default	Required	
	Type			•	
type	string	Message type	None	Y (command)	
op	string	operation type			
		lock: lock port			
		unlock: unlock port			
		switch: switch SIM card	None	Y	
		reset: reboot module	None	Ĭ	
		save: save configuration			
		reboot: reboot device			
		multiple: multiple commond			
ports	string	the port NO. need to			
		operate.			
		all,*: all ports		Y	
		It is valid while op		(op=lock	
		parameter equal to	None		
		lock/unlock/switch/reset	None	op=unlock	
		When op=switch, it means to		op=switch	
		switch to this location.		op=reset)	
		When op=reset, only the port			
		number is valid.			
ops	array	Multi-command array	None	Y	
		Valid when op is multiple	None	(op= multiple)	

Attributes of tasks in json data

Parameter	Data	Description	Default	Required
-----------	------	-------------	---------	----------

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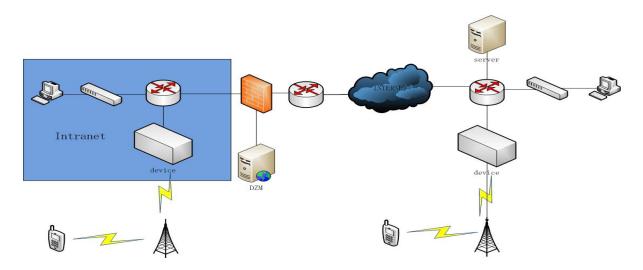
type			
string	Operation type		
	lock: lock port		
	unlock:unlock port		
	switch:switch SIM card	None	Y
	reset: reboot module		
	Redial: sim redial		
string	The port that needs to perform the		
	operation:	None	Y
	When op=reset, only the port number is	none	1
	valid.		
	string	string Operation type lock: lock port unlock:unlock port switch:switch SIM card reset: reboot module Redial: sim redial string The port that needs to perform the operation: When op=reset, only the port number is	string Operation type lock: lock port unlock:unlock port switch:switch SIM card reset: reboot module Redial: sim redial string The port that needs to perform the operation: When op=reset, only the port number is

5 SMS Sending

Server send SMS sending request to device by Ethernet, and it keep sending task in a JSON array.

5.1 Topology

While device and server not in a same LAN, device HTTP port should been Nat mapping out on boundary router, so server can send message to device actively.



5.2 SMS sending flow chart

Server can send SMS by GET/POST request. GET request use API specified in 'Ejoin http SMS sending API' document. POST request can be used to send long SMS(more that 300 characters) or send more that one SMS in a request message.

5.2.1 SMS sending

After got the SMS sending request from server, device will design a task ID(related to the sending report) to create one or more SMS sending task, and after those task finished, device will send 200ok message to server.

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5.2.2 Sending status report

While SMS send successfully/failed/timeout, device will put the result in cache, after meet condition(cache storage full or cache time reached), device will send POST request to report one or more task execute result. If it is group sending, device will report execute result periodically until all num in this group sending task get a result.

5.2.3 Sending status query

Server can send a GET request to query task sending status, like successfully send statics, failed information(num and reason), current sending num and so on.

5.2.4 Pause the SMS task

When a SMS task is still waiting to be sent in the send queue, one or more SMS can be paused.

5.2.5 Resume the paused SMS task

Resume the sending of one or more suspended SMS tasks.

5.2.6 Delete the SMS task

Delete one or more SMS tasks waiting to be sent in the send queue.

5.2.7 Query the SMS task

Query the SMS task waiting to be sent in the send queue.

5.3 Message description

5.3.1 SMS Sending

5.3.1.1 URL

http://host:port/goip post sms.html

host: Device IP address

port: Device webpage management port, default value is 80.

5.3.1.2 Parameter

Parameter	Description	Default	Required	Remark		
version	API version	1.0	N	1.0: Compatible with previous		
				API		
				1.1: Support for the		
				description of		
				this document		
username	Device username	None	Y			
password	Device password	None	Y			

Note: All URL parameters only appear in the GET request. For POST, it will appear in the JSON attribute of the body segment. The following will not be explained.

5.3.1.3 Data

The task data (the body segment of the HTTP message) is a JSON format string consisting of one or more tasks, and the value of the HTTP header parameter

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"Content-Type" is "application/json;charset=utf-8" .

Components state:

Parameter	Data type	Description	Default	Required	Remark
type	string	Message type	None	N	
sr_url	string	Status report forward url	System configuratio	N	
sr_cnt	string	Max num of SMS result can keep in cache.	100	N	1. The buffer number reaches this value,the buffered report is sent immediately, and the timer is reset.
sr_prd	Int	The max time SMS result can keep in cache	30	N	2. The time expired, even if not enough reports are received, send immediately , then reset the timer
sms_url	string	SMS forward URL	System configuratio	N	
sms_cnt	Int	Max num of SMS can keep in cache	1	N	1. When the buffer number reaches this value, the buffered SMS is sent immediately and the timer is reset. 2. In order to be compatible with old customers, this parameter must be set to a value greater than 1, in order to buffer the received SMS and use the new sending mechanism.
sms_prd	Int	Max time SMS can keep in cache	30	N	1. The time expired, even if not enough SMS is received, it is sent immediately, then the timer is reset.
task_num	string	Total task	1	Y	
tasks	Array	Specific SMS send task	None	Y	

Attributes of tasks in json data

Parameter	Data type	Description	Default	Required
tid	Int	Task ID	None	Y
from	String	Use ',' '-' to assign more than one port(from	Choose of	N
		channel 1)	device	1,
to	string	one or more(use ',' to distinguish) recipients	None	Y
sms	string	SMS content	None	Y
chs	string	Character coding set (utf8 base64)	utf8	N

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coding	Int	pecific the SMS codec:		
		0:not assign	0	N
		1:USC2	0	N
		2:7bit		
smstype	Int	SMS type 0: SMS	0	N
smsc	string	Store the SMSC number.	<i>""</i>	N
intvl	string	Interval of 2 SMS while device sending them(ms)	"0"	N
tmo	Int	Max time while waiting sending result(second).	30	N
sdr	Int	If enable the successfully send report.	Disable	N
		1:enable,0:disable.	Disable	11
fdr	Int	If enable the failed report.1:enable,0:disable.		N
dr	Int	If enable SMS delivery	Disable	N
		report.1:enable,0:disable.	Disable	
sr_prd	Int	Status report period (seconds), 0: not on, >0:		
		on		
		Control only the period in which a single task	60	N
		generates a report		
sr_cnt	Int	Single-state report SMS number, less than 1 will		
		use the default value	10	N
	Control only the number of processed messages		10	IN
		that have been reported by a single task		

Tips:

- 1. While not choose a port, device will pick up a random port to send SMS to every recipient.
- 2. While chose more than one ports, and just one SMS recipient , then device will use all chose port to send SMS to this recipient.
- 3. If more ports, and more recipient designed, then every port will send SMS to every recipient separately.

5.3.1.4 Response

Task sending is a JSON array composed by one or more task send status,

Parameter "Content-Type" in HTTP head should set to

"application/json;charset=utf-8".

```
{ "code":200, "reason": "OK", "type": "task-status", "status":[{"tid":tid_1, "status": "0 OK"},..., { "tid":tid_n, "status": "2 Invalid Port"}]}
```

Status components state:

Parameter	Data type	Description	Default	Required
tid	Int	Task ID	None	Y

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status	String	Task status code		
		0: OK		
		1: Invalid User		
		2: Invalid Port		
		3: USSD Expected		
		4: Pending USSD		
		5: SIM Unregistered		
		6: Timeout		
		7: Server Error		
		8: SMS expected	None	Y
		9: TO expected	T (OHC	•
		10: Pending Transaction		
		11: TID Expected		
		12: FROM Expected		
		13: Duplicated TaskId		
		14: Unauthorized		
		15: Invalid CMD		
		16: Too Many Task		
		If task status ID not equal to 0, then means this		
		task not received by device.		

5.3.2 Task send report

5.3.2.1 URL

Server or device configuration decision.

5.3.2.2 Parameter

Parameter	Description	Default	Default	Default	Default	Default	Default	Default	Default	Default	Requi	Remark
			red									
Version	API version	1.1	Y	This document describes								
				specification support only								

5.3.2.3 Data

Status-report message is a JSON array composed by one or more task send

report. Parameter "Content-Type" in HTTP head should set to

"application/json;charset=utf-8".

$$\{ \text{ "type"} : \text{"status-report"}, \text{ "rpt_num"} : \text{n, "rpts"} : [\{ \text{ "tid"} : \text{tid_1}, \text{ } \cdots \}, \cdots, \text{ } \{ \text{ "tid"} : \text{tid_n}, \text{ } \cdots \}] \}$$

Components state:

Parameter	Data type	Description	Default	Required
type	string	Message type	None	Y (status-report)
rpt_num	string	Report num	1	Y
rpts	Array	Detail status report	None	Y

Attributes reported in json data

Parameter	Data type	Description	Default	Required
tid	Int	related task ID.	None	Y

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sending	Int	total num of SMS in sending.	None	Y
sent	Int	total num of SMS successfully send.	None	Y
failed	Int	total num of SMS failed send.	None	Y
unsent	Int	total SMS in cache waiting for send	None	Y
sdr	array	Successfully send details(one list for		
		one num) Success report is a array,		
		[0]: recipients num index(based on		
		group sending),int	None	N
		[1]: num, string	None	IN
		[2]: SMS sending port(1.01,2.02,),		
		string		
		[3]: SMS send timestamp in UTC time, int		
fdr	array	Fail send details(one num one list)		
		[0]: recipients num index(based on		
		group sending),int		
		[1]: num, string		
		[2]: SMS sending port(1.01,2.02,),		
		string	None	N
		[3] : SMS send timestamp in UTC time.int		
		[4] : Progress reason, code+details[refer to 1.0		
		API]		
		[5] : Carrier reason, code+ description. Valid when		
		[4] is failed to send		

Tips:

- 1. tid related to the task ID in the send-sms message.
- 2. sending, sent, failed are accumulated num in one task.
- 3. Sdr(successfully send record) list records between 2 status-report, server should keep before details.
 - 4. fdr(failed detail record) list records between 2 status-report, server should keep before details.

5.3.3 Pause the SMS task

5.3.3.1 URL

http://host:port/goip_pause_sms.html

host: Device IP address

port: Device webpage management port, default value is 80.

5.3.3.2 Parameter

Parameter	Description	Default	Required	Remark
version	API version	1.1	Y	This document describes
				specification support only
username	Device username	None	Y	
password	Device password	None	Y	

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5.3.3.3 Data

The data (the body segment of the HTTP message) is a JSON format string consisting of one or more tasks, and the value of the HTTP header parameter

"Content-Type" is "application/json;charset=utf-8".

```
{ "tids" :[tid1,tid2,...,tidn]}
```

Components state:

Parameter	Data type	Description	Default	Required
tids	String	Restore one or more tasks ID that are sent.	None	No. When there is no field, all send tasks are suspended.

The body of the query response is a JSON format string consisting of one or more tasks. The value of the HTTP header parameter "Content-Type" is

"application/json; charset=utf-8".

```
{ "code" :200, "reason" : "OK" , "results" :[{ "tid" :tid_1, "status" : "0 OK" },..., { "tid" :tid_n, "status" : "2 Invalid Port" }]}
```

Components state:

Parameter	Data type	Description	Default	Requ
code	Int	Interface processing result code	None	Y
reason	String	Interface processing results	None	Y
results	Array	Task processing results. When there is no tids in the request, this field is not included in the result.	None	N
tid	Int	Task ID	None	N
status	String	Task status code 0: OK 1: Invalid User 2: Invalid Port 3: USSD Expected 4: Pending USSD 5: SIM Unregistered 6: Timeout 7: Server Error 8: SMS expected 9: TO expected 10: Pending Transaction 11: TID Expected 12: FROM Expected If task status ID not equal to 0, then means this task not received by device.	None	N

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5.3.4 Resume the paused SMS task

5.3.4.1 URL

http://host:port/goip_resume_sms.html

host: device IP address

port: device web port, the default is 80, optional.

5.3.4.2 Parameter

Parameter	Description	Default	Required	Remark
version	API version	1.1	Y	This document describes
				specification support only
username	Device username	None	Y	
password	Device password	None	Y	

5.3.4.3 Data

Data(The body segment of the HTTP message) is a JSON array composed by one or more task. Parameter Content-Type in HTTP head should set to

"application/json;charset=utf-8".

```
{ "tids" :[tid1,tid2,...,tidn]}
```

Attributes instructions:

Parameter	Data type	Description	Default	Required
tids	String	The task ID to be restored	None	NO. Restore all sending tasks when there is no field

The body of response is a JSON array composed by one or more task ID.

Parameter "Content-Type" in HTTP head should set to "application/json;charset=utf-8".

```
{ "code" :200, "reason" : "OK" , "results" :[{ "tid" :tid_1, "status" : "0 OK" },..., { "tid" :tid_n, "status" : "2 Invalid Port" }]}
```

Attributes instructions:

Parameter	Data type	Description	Default	Required
code	Int	Interface processing result code	None	Y
reason	string	Interface processing results	None	Y
results	array	Task processing results	None	Y
tid	Int	Task ID	None	Y
status	string	The status code and reason description of the task 0: OK	None	Y

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1: Invalid User	
2: Invalid Port	
3: USSD Expected	
4: Pending USSD	
5: SIM Unregistered	
6: Timeout	
7: Server Error	
8: SMS expected	
9: TO expected	
10: Pending Transaction	
11: TID Expected	
12: FROM Expected	
If the task's response code is not 0, it	
indicates that the task is not accepted by the device.	

5.3.5 Delete the SMS task.

5.3.5.1 URL

http://host:port/goip_remove_sms.html

host: device IP address.

port: device web port, the default is 80, optional.

5.3.5.2 Parameter

Parameter	Description	Default	Required	Remark
version	API version	1.1	Y	This document describes
				specification support only
username	Device username	None	Y	
password	Device password	None	Y	

5.3.5.3 Data

Data(The body segment of the HTTP message)is a JSON array composed by one

or more task. Parameter Content-Type in HTTP head should set to

"application/json;charset=utf-8".

{ "tids" : [tid1,tid2,...,tidn]}

Attributes instructions:

Parameter	Data type	Description	Default	Required
tids	String	The task ID to be restored.	None	NO. Restore all sending tasks when there is no field.

The body of response is a JSON array composed by one or more task ID. Parameter "Content-Type" in HTTP head should set to "application/json;charset=utf-8".

```
{ "code" :200, "reason" : "OK" , "results" :[{ "tid" :tid_1, "status" :
```

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"0 OK" }, ..., { "tid" :tid_n, "status" : "2 Invalid Port" }]}

Attributes instructions:

Parameter	Data type	Description	Default	Required
code	Int	Interface processing result code	None	Y
reason	string	Interface processing results	None	Y
results	array	Task processing results 当请求中没有tids时,结果中不带本字段	None	Y
tid	Int	Task ID	None	Y
status	string	The status code and reason description of the task 0: OK 1: Invalid User 2: Invalid Port 3: USSD Expected 4: Pending USSD 5: SIM Unregistered 6: Timeout 7: Server Error 8: SMS expected 9: TO expected 10: Pending Transaction 11: TID Expected 12: FROM Expected If the task's response code is not 0, it indicates that the task is not accepted by the device.	None	Y

5.3.6 Query the SMS task

5.3.6.1 URL

 $\frac{http://host:port/goip \ get \ tasks.html?version=xxx\&username=root\&password=root\&port=xxx\&pos=xxx\&num=xxx\&has_content=xx}{$

host: device IP address.

port: device web port, the default is 80, optional.

5.3.6.2 Parameter

.0.2	1 didiffeter				
	Parameter Description version API version		Default	Required	Remark
			1.1	Y	This document describes
					specification support only
	username	Device username	None	Y	
	password	Device password	None	Y	
	port	Send port. Starting from 1	None	Y	
	Has_content	Whether to bring a text message in the result.	0	N	0 - Do not return text message content. 1 - return text message content
	Pos	The starting position of the	None	Y	The location of this field is in

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	request.			the order of the submission
	0 represents the			of the message task order
	beginning of the first task.			
Num	The number of	10	N	
	Request messages.	10	14	

The body of response is a JSON array composed by one or more task ID. Parameter Content-Type in HTTP head should set to "application/json;charset=utf-8".

```
{ "tids" :[tid1,tid2,...,tidn]}
```

Attributes instructions:

Parameter	Data type	Description	Default	Required
tids	String	The task ID to be query.	None	N

The body of response is a JSON array composed by one or more task ID.

Parameter "Content-Type" in HTTP head should set to "application/json;charset=utf-8".

Attributes instructions:

Parameter	Data type	Description	Default	Required
code	Int	Interface processing result code.	None	Y
reason	string	Interface processing results	None	Y
Total_num	Int	The number of tasks.	None	Y
Task_num	Int	Query the number of tasks returned.	None	Y
Tasks	Array	Query the returned array of tasks.	None	Y

Attributes instructions of task:

Tasks	array	Query the returned array of tasks.	None	Y
Tid	Int	Task id	None	Y
From	string	One or more (commas, short horizontal	Device	N
		connections) send ports (from 1)	selection	
То	string	One or more (comma connected) message	None	Y
		receiver number.	1 (622)	
Sms	string	Message content	None	N
Chs	string	Code set (utf8 base64)	Utf-8	N
Coding	Int	Specifies the encoding of the message sent.		
		0: Do not specify	0	N
		1: USC2	0	IN
		2: 7bit		

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State	Int	Task status:	None	V
		0 - normal, 1 - suspended.	None	Y

5.4 Example

5.4.1 Status notification

Url:

<u>http://192.168.1.67:80/goip get status.html</u>?url=http://192.168.1.142&period=60&username=root&password=root

Response:

5.4.2 Send commend

Url: http://192.168.1.67:80/goip send cmd.html?Username=root&password=root

Body: {"type":"command", "op":"switch", "ports":"2.02"}

Response:

```
1 - {
2     "code": 0,
3     "reason": "OK"
4 }
```

5.4.3 Send SMS

Url:

http://192.168.1.67:80/goip post sms.html?username=root&password=root

Body:

{"type":"send-sms","task_num":1, "tasks":|{"tid":1223,"to":"13686876620","sms":"hello123"}}}

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Response:

5.4.4 Pause the SMS task

Url:

http://192.168.1.67:80/goip pause sms.html?username=root&password=root

Body:

{"tids":[2,3]}

Response:

```
1 + {
          "code": 200,
 2
         "reason": "OK",
"results": [
 4 +
 5 -
                   "tid": 2,
"status": "0 OK"
8
            },
9 🕶
              {
                   "tid": 3,
"status": "0 OK"
10
11
12
13
14 }
```

5.4.5 Resume the paused SMS task

Url:

http://192.168.1.67:80/goip resume sms.html?Username=root&password=root

Body:

{"tids":[2,3]}

Response:

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5.4.6 Delete the SMS task

Url:

http://192.168.1.67:80/goip remove sms.html?Username=root&password=root

Body:

{"tids":[2,3]}

Response:

```
1 + {
        "code": 200,
2
        "reason": "OK",
        "results": [
4 +
5 +
           {
               "tid": 2,
"status": "0 OK"
         },
8
          {
               "tid": 3,
"status": "0 OK"
10
11
12
13
        ]
14 }
```

5.4.7 Query the SMS task

Url:

http://192.168.1.67:80/goip get tasks.html?version=1.1&username=root&password=root&port=1&pos=0& has content=1

Response:

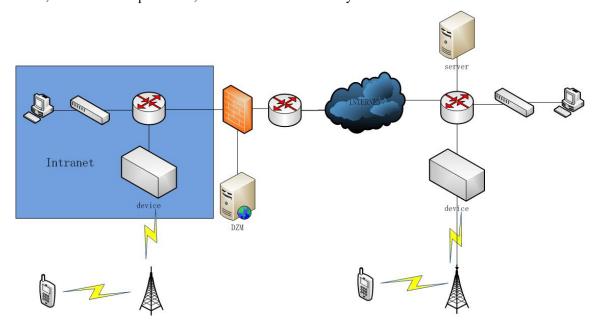
Document No: xxxxxxx Version: 2.2

6 Receive the SMS

Device will send SMS to server by POST request, while it get SMS from operator.

6.1 Topology

While forwarding SMS, device send a request to server first, so even device in LAN, and server in a public net, it also can work effectively



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6.2 Message description

6.2.1 URL

Default set by device, server can revise it in SMS sending quest message.

6.2.2 Parameter

Parameter	Description	Default	Required	Remark
version	API version	1.1	Y	This document describes
				specification support only

6.2.3 Data

A JSON format string consisting of one or more short messages. The value of the

HTTP header parameter "Content-Type" is "application/json; charset=utf-8".

Attributes instructions:

Parameter	Data type	Description	Default	Required
type	String	Data type	None	Y (recv-sms)
sms_num	String	Total SMS num	None	Y
sms	Array	SMS array	None	Y

For saving the bandwidth, SMS content also storage in a array.

- [0]: Delivery report flag,0:normal SMS, 1:This is a delivery report
- [1]: Receive report('1.01', '1.02')
- [2]: timestamp while device got this SMS
- [3]: Sender(If Delivery report flag set to 1, then sender should be SMCC)
- [4]: Recipient(If Delivery report flag set to 1,then recipient should be the original recipient.)
- [5]: SMS content:

Delivery report: "code scts", code is 0 for successful delivery, utf-8

Ordinary SMS: BASE64 encoding of utf-8

7 Query SMS

Customers can actively query the SMS received by the device through HTTP GET/POST request.

7.1 Query process

1. Query all messages received by the device without the query parameters (except for user-verified parameters).

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- 2. Use the value of next_sms returned by the device as the value of the sms_id parameter to query subsequent SMS messages.
- 3. If the device restarts, return a different ssrc synchronization source ID and return to step 1.
- 4. Repeat step 2

7.2 Message description

7.2.1 URL

http://host:port/goip_get_sms.html?username=root&password=root&sms_id=xxx&sms_num=xxx

host: Device IP address

port: Device webpage management port, default value is 80.

7.2.2 Parameter

Parameter	Description	Default	Required	Remark
sms_id	Start SMS ID	1	N	1: The first SMS ID received by the device
sms_num	Specify the number of SMS to be queried	0	N	0: Query all SMS
sms_del	Delete the SMS that has been returned by the query	0	N	0: Do not delete, 1: delete

7.2.3 Data

A JSON format string consisting of one or more short messages. The value of the

HTTP header parameter "Content-Type" is "application/json;charset=utf-8" .

```
{
"code": 0,
"reason": "OK",
"ssrc": "0123456789abcdef",
"sms_num": 2,
"next_sms": 3,
"data":
[
[0, "1B",
```

1466506477, "10010", "13265825775", "5bCK5pWs55qE55So5oi377yM5oKo5aW977yB5o6o6i2Q5oKo5L2/55So44CQ5omL5py66JCl5Lia5Y6F44CR5LiA56uZ5byP5YWN5rWB6YeP5pyN5Yqh5bmz5Y+wIGh0dHA6Ly91LjEwMDEwLmNuL2R0Y2Qg77yM6L275p2+5p+l6K+i6K+d6LS544CB5L2Z6aKd5Y+K6K+m5Y2V77yb5oiW5Zue5aSN5Lul5LiL5pWw5a2X5Luj56CB6l635Y+W5oKo6ZyA6KaB55qE5pyN5Yqh77yaDQoxMDEu5b2T5pyI6K+d6LS577ybDQoxMDIu5Y+v55So5L2Z6aKd77ybDQowLuWNh+e6pzRH77ybDQoxLuivnei0ueWPiuenr+WIhu+8mw0KMi7otKbmiLfmn6Xor6LvvJsNCjMu5YWF5YC877ybDQo0LuWuouaIt+acjeWKoe+8mw0KNS7kuJrliqHlip7nkIbvvJsNCjYu5aKe5YC85Lia5Yqh77ybDQo3LuecgeS7veS4k+WMuu+8mw0KOS7ng63ngrnkv4PplIDjgIINCuW5v+S4nOiBlOmAmuOAggAAAAA="], [0, "1B", [0, "

1466506670, "10010", "13265825775", "5bCK5pWs55qE55So5oi377yM5oKo5aW977yB5o6o6i2Q5oKo5L2/55So44CQ5omL5py66JCl5Lia5Y6F44CR5LiA56uZ5byP5YWN5rWB6YeP5pyN5Yqh5bmz5Y+wIGh0dHA6Ly91LjEwMDEwLmNuL2R0Y2Qg77yM6L275p2+5p+l6K+i6K+d6LS544CB5L2Z6aKd5Y+K6K+m5Y2V77yb5oiW5Zue5aSN5Lul5LiL5pWw5a2X5Luj56CB6I635Y+W5oKo6ZyA6KaB55qE5pyN5Yqh77yaDQoxMDEu5b2T5pyI6K+d6LS577ybDQoxMDIu5Y+v55So5L2Z6aKd77ybDQowLuWNh+e6pzRH77ybDQoxLuivnei0ueWPiuenr+WIhu+8mw0KMi7otKbmiLfmn6Xor6LvvJsNCjMu5YWF5YC877ybDQo0LuWuouaIt+acjeWKoe+8mw0KNS7kuJrliqHlip7nkIbvvJsNCjYu5aKe5YC85Lia5Yqh77ybDQo3LuecgeS7veS4k+WMuu+8

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```
mw0KOS7ng63ngrnkv4PplIDjgIINCuW5v+S4nOiBlOmAmuOAggAAAAA="]
]
```

Property description:

Parameter	Data type	Description	Default	Requir ed
code	int	Operation code	None	Y
reason	string	Reason description	None	Y
SSIC	string	Synchronization source identifier The device generates a new ssrc each time it runs. So the value changes, re-query	None	Y
sms_num	int	Number of SMS queried	None	Y
next_sms	int	The next SMS ID	None	Y
data	int	Queryed SMS content	None	Y

For saving the bandwidth, SMS content also storage in a array. [0]:

Delivery report flag,0:normal SMS, 1:This is a delivery report [1]:

Receive report('1.01', '1.02')

[2]: timestamp while device got this SMS

[3]: Sender(If Delivery report flag set to 1, then sender should be SMCC)

[4]: Recipient(If Delivery report flag set to 1, then recipient should be the original recipient.)

[5]: SMS content:

Delivery report: "code scts", code is 0 for successful delivery, utf-8 Ordinary SMS: BASE64 encoding of utf-8

8 Proxy configuration

Obtain and modify the basic configuration of HTTP/HTTPS proxy and SOCKS5 proxy, proxy user configuration, URL blacklist/whitelist configuration, and access log configuration for a device through an HTTP API protocol. This interface distinguishes between operation types based on the request method, where the GET method is used to get the current configuration and the POST method is used to set the configuration.

8.1 Proxy

Configure the network port, SIM line, and enable/disable settings for the proxy.

8.1.1 Base URL

http://host:port/proxy?username=xxx&password=xxx&mode=xxx

8.1.2 Base Parameter

• URL parameters are explained as follows:

Parameter Description D	Default Required	Remark
-------------------------	------------------	--------

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mode	Proxy mode	None	Y	The values are as follows:
				http : HTTP/HTTPS
				proxy;
				socks5: Socks5 proxy;
username	Device username	None	Y	
password	Device password	None	Y	

8.1.3 *Obtain the proxy status*

When using the HTTP GET request method to request the base URL, if the state URL parameter is specified, the device will return the current status of the proxy.

• URL parameters are explained as follows:

Parameter Description Default state Whether the proxy is enabled. None	Required	Remark
state Whether the provision and led None		
state whether the proxy is enabled.	N	As URL parameters, the specific value is not important.for example, both state=0 and state=1 are acceptable.

• The response results are as follows:

Parameter	Type	Description	Default	Required
code	int	Result code.0 means success, other values mean failure.	None	Y
reason	String	Reason description	None	Y
mode	int	Proxy mode. This field is different from the mode field in the URL parameters and is primarily used for compatibility with previous page operations. The values are as follows: 2: Socks5 proxy 3: HTTP/HTTPS proxy	None	N
enabled	int	Whether it is enabled, the values are as follows: 0: Disabled 1: Enabled	None	N

8.1.4 Obtain proxy configuration information

When using the HTTP GET request method to request the base URL, the device returns the basic configuration information of the proxy.

• The response results are as follows:

Parameter	Туре	Description	Default	Required
code		Result code.0 means success, other values mean failure.	None	Y

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reason	String	Reason description	None	Y
mode	int	Proxy mode. This field is different from the "mode" field in the URL parameters and is primarily used for compatibility with previous page operations. The values are as follows: 2: Socks5 proxy 3: HTTP/HTTPS proxy	None	N
enabled	int	Whether it is enabled, the values are as follows: 0: Disabled 1: Enabled	None	N
size	int	Proxy quantity	None	N
proxies	array	Array of proxy configuration results. The instructions are as follows "Proxies Array Item Description".	None	N

Proxies Array Item Description

Parameter	Type	Description	Default	Required
name	String	Proxy configuration name	None	N
port	int	Network port on which the proxy is listening.	None	N
interfaces	array	An array of integers, indicating the SIM WAN ports used by proxy, where 0 means using all WAN ports.	None	N
active	int	Whether the current proxy configuration is enabled,the values are as follows: 0: Disabled 1: Enabled	None	N

8.1.5 *Modify the proxy status*

When using the HTTP POST request method to request the base URL and specifying the URL parameter op as enabled or disabled, the proxy status will be modified.

• URL parameters are explained as follows:

Parameter	Description	Default	Required	Remark
op	Operation type: The possible values are as	None	Y	
	follows:			
	enabled: Enable proxy			
	disabled:Disable proxy			

• The response results are as follows:

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Parameter	Type	Description	Default	Required
code		Result code.0 means success, other values mean failure.	None	Y
reason	String	Reason description	None	Y

8.1.6 Add the proxy configuration

When using the HTTP POST request method to request the base URL and specifying the URL parameter op as add, the proxy configuration will be added. the specified proxy configuration information needs to be included in the HTTP body of the request.

• URL parameters are explained as follows:

Parameter	Description	Default	Required	Remark
op	Operation type: The possible values are as	None	Y	
	follows:			
	add:Add the proxy configuration			

• Body parameters are explained as follows:

Parameter	Description	Default	Required	Remark
proxies	Array of proxy configurations	None	Y	The instructions are as
				follows " Proxies Array
				Item Description"

Proxies Array Item Description

Parameter	Type	Description	Default	Required
name	String	Proxy configuration name. It must be within 32 characters. The specified name will automatically have the proxy type prefix added, such as "http-" prefix for HTTP proxies and "socks5-" prefix for SOCKS5 proxies. For example, if the name value is "foo" for an HTTP proxy, the final name will be "http-foo".	None	Y
port	int	Network port on which the proxy is listening.	None	Y
interfaces	array	An array of integers, indicating the SIM WAN ports used by proxy, where 0 means using all WAN ports.	None	Y
active	int	Whether the current proxy configuration is enabled, the values are as follows: 0: Disabled 1: Enabled	None	Y

• The response results are as follows:

Parameter	Туре	Description	Default	Required
code	int	Result code.0 means success, other	None	Y

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		values mean failure.		
reason	String	Reason description	None	Y

8.1.7 *Modify the proxy configuration*

When using the HTTP POST request method to request the base URL and specifying the URL parameter op as update, the proxy configuration will be modified. Currently, it supports modifying the proxy configuration status. The specified proxy configuration information needs to be included in the HTTP body of the request.

• URL parameters are explained as follows:

Parameter	Description	Default	Required	Remark
op	Operation type: The possible values are as	None	Y	
	follows:			
	update:Modify the proxy configuration			

• Body parameters are explained as follows:

Parameter	Description	Default	Required	Remark
proxies	Array of proxy configurations	None	Y	The instructions are as
				follows " Proxies Array
				Item Description"

Proxies Array Item Description

Parameter	Type	Description	Default	Required
name	String	Proxy configuration name.	None	Y
active		Whether the current proxy configuration is enabled, the values are as follows: 0: Disabled 1: Enabled	None	Y

• The response results are as follows:

Parameter	Type	Description	Default	Required
code		Result code.0 means success, other values mean failure.	None	Y
reason	String	Reason description	None	Y

8.1.8 Delete proxy configuration

When using the HTTP POST request method to request the base URL and specifying the URL parameter op as delete, the proxy configuration will be deleted. The specified proxy configuration information needs to be included in the HTTP body of the request.

• URL parameters are explained as follows:

Parameter	Description	Default	Required	Remark
op	Operation type: The possible values are as	None	Y	
	follows:			
	delete:Delete the proxy configuration			

Body parameters are explained as follows:

Parameter	Description Default	Required	Remark
-----------	----------------------------	----------	--------

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proxies	Array of proxy configurations	None	Y	The instructions are as
				follows " Proxies Array
				Item Description"

Proxies Array Item Description

Parameter	Type	Description	Default	Required
name	String	Proxy configuration name.	None	Y

• The response results are as follows:

ne response res				
Parameter	Type	Description	Default	Required
code		Result code.0 means success, other values mean failure.	None	Y
reason	String	Reason description	None	Y

8.2 Proxy User

Configure the basic information and enable/disable settings for the proxy user.

8.2.1 Base URL

http://host:port/proxy_user?username=xxx&password=xxx&mode=xxx

8.2.2 Base Parameter

• URL parameters are explained as follows:

Parameter	Description	Default	Required	Remark
mode	Proxy mode	None	Y	The values are as follows:
				http : HTTP/HTTPS
				proxy;
				socks5: Socks5 proxy;
username	Device username	None	Y	
password	Device password	None	Y	

8.2.3 *Obtain the proxy user status*

When using the HTTP GET request method to request the base URL, if the state URL parameter is specified, the device will return the current status of the proxy user.

• URL parameters are explained as follows:

Parameter	Description	Default	Required	Remark
state	Whether the proxy user is enabled.	None		As URL parameters, the specific value is not important.for example, both state=0 and state=1 are acceptable.

• The response results are as follows:

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Parameter	Type	Description	Default	Required
code	int	Result code.0 means success, other values mean failure.	None	Y
reason	String	Reason description	None	Y
mode	int	Proxy mode. This field is different from the mode field in the URL parameters and is primarily used for compatibility with previous page operations. The values are as follows: 2: Socks5 proxy 3: HTTP/HTTPS proxy	None	N
enabled	int	Whether it is enabled, the values are as follows: 0: Disabled 1: Enabled	None	N

8.2.4

Obtain proxy user configuration information
When using the HTTP GET request method to request the base URL, the device returns the basic configuration information of the proxy user.

The response results are as follows:

Parameter	Type	Description	Default	Required
code	int	Result code.0 means success, other values mean failure.	None	Y
reason	String	Reason description	None	Y
mode	int	Proxy mode. This field is different from the mode field in the URL parameters and is primarily used for compatibility with previous page operations. The values are as follows: 2: Socks5 proxy 3: HTTP/HTTPS proxy	None	N
enabled	int	Whether it is enabled, the values are as follows: 0: Disabled 1: Enabled	None	N
size	int	Proxy quantity	None	N
users	array	Array of proxy user configuration results. The instructions are as follows "users Array Item Description".	None	N

users Array Item Description

Parameter	Tvpe	Description	Default	Required
1 ur umeter	1 J PC	Description	Deman	requireu

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name	String	Proxy user name	None	N
pwd	String	Proxy user password	None	N
interfaces	array	An array of integers, indicating the SIM WAN ports used by proxy, where 0 means using all WAN ports.	None	N
mark	String	remark	None	N

8.2.5 *Modify the proxy user status*

When using the HTTP POST request method to request the base URL and specifying the URL parameter op as enabled or disabled,the proxy user status will be modified.

• URL parameters are explained as follows:

Parameter	Description	Default	Required	Remark
op	Operation type: The possible values are as	None	Y	
	follows:			
	enabled: Enable proxy user			
	disabled:Disable proxy user			

• The response results are as follows:

Parameter	Type	Description	Default	Required
code	int	Result code.0 means success, other values mean failure.	None	Y
reason	String	Reason description	None	Y

8.2.6 Add the proxy user configuration

When using the HTTP POST request method to request the base URL and specifying the URL parameter op as add, the proxy user configuration will be added. The specified proxy user configuration information needs to be included in the HTTP body of the request.

• URL parameters are explained as follows:

Parameter	Description	Default	Required	Remark
op	Operation type: The possible values are as	None	Y	
	follows:			
	add:Add the proxy user configuration			

• Body parameters are explained as follows:

Parameter	Description	Default	Required	Remark	
users	Array of proxy user	None	Y	The instructions are as	
	configurations			follows "users Array Item	
				Description"	

users Array Item Description

Parameter	Type	Description	Default	Required
name	String	Proxy user name. It must be within 20 characters.	None	Y
pwd	String	Proxy user password.It must be within 20 characters.	None	Y

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interfaces	array	An array of integers, indicating the SIM		
		WAN ports used by proxy,where 0 means	None	Y
		using all WAN ports.		
Mark	String	Remark	None	N

• The response results are as follows:

Parameter	Type	Description	Default	Required
code		Result code.0 means success, other values mean failure.	None	Y
reason	String	Reason description	None	Y

8.2.7 *Modify the proxy user configuration*

When using the HTTP POST request method to request the base URL and specifying the URL parameter op as update, the proxy user configuration will be modified. Currently, it supports modifying the proxy user configuration status. The specified proxy user configuration information needs to be included in the HTTP body of the request.

URL parameters are explained as follows:

Parameter	Description	Default	Required	Remark
op	Operation type: The possible values are as	None	Y	
	follows:			
	update:Modify the proxy user			
	configuration			

Body parameters are explained as follows:

Parameter	Description	Default	Required	Remark
users	Array of proxy user	None	Y	The instructions are as
	configurations			follows "users Array Item
				Description"

users Array Item Description

Parameter	Type	Description	Default	Required
name	String	Proxy user name. It must be within 20 characters.	None	Y
interfaces	j	An array of integers, indicating the SIM WAN ports used by proxy, where 0 means using all WAN ports.	None	Y

• The response results are as follows:

Parameter	Type	Description	Default	Required
code		Result code.0 means success, other values mean failure.	None	Y
reason	String	Reason description	None	Y

8.2.8 Delete proxy user configuration

When using the HTTP POST request method to request the base URL and specifying the URL parameter op as delete, the proxy user configuration will be deleted. The specified proxy user configuration information needs to be included in the HTTP body of the request.

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• URL parameters are explained as follows:

Parameter	Description	Default	Required	Remark
op	Operation type: The possible values are as	None	Y	
	follows:			
	delete:Delete the proxy user configuration			

• Body parameters are explained as follows:

Parameter	Description	Default	Required	Remark
users	Array of proxy	None	Y	The instructions are as
	userconfigurations			follows "users Array Item
				Description"

users Array Item Description

Parameter	Type	Description	Default	Required
name	String	Proxy user configuration name.	None	Y

• The response results are as follows:

Parameter	Type	Description	Default	Required
code		Result code.0 means success, other values mean failure.	None	Y
reason	String	Reason description	None	Y

8.3 URL WhiteList

Configure the basic information and enable/disable settings for the proxy URL whitelist.

8.3.1 Base URL

http://host:port/proxy white list?username=xxx&password=xxx&mode=xxx

8.3.2 Base Parameter

• URL parameters are explained as follows:

Parameter	Description	Default	Required	Remark
mode	Proxy mode	None		The values are as follows: http:: HTTP/HTTPS proxy; socks5: Socks5 proxy;
username	Device username	None	Y	
password	Device password	None	Y	

8.3.3 *Obtain the whitelist status*

When using the HTTP GET request method to request the base URL, if the state URL parameter is specified, the device will return the current status of the whitelist.

• URL parameters are explained as follows:

Parameter Description	Default	Required	Remark
-----------------------	---------	----------	--------

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state	Whether the whitelist is enabled.	None	As URL parameters, the specific value is not important.for example, both state=0 and state=1 are acceptable.
			are acceptable.

• The response results are as follows:

Parameter	Туре	Description	Default	Required
code	int	Result code.0 means success, other values mean failure.	None	Y
reason	String	Reason description	None	Y
mode	int	Proxy mode. This field is different from the mode field in the URL parameters and is primarily used for compatibility with previous page operations. The values are as follows: 2: Socks5 proxy 3: HTTP/HTTPS proxy	None	N
enabled	int	Whether it is enabled, the values are as follows: 0: Disabled 1: Enabled	None	N

8.3.4 Obtain the whitelist configuration information

When using the HTTP GET request method to request the base URL, the device returns the basic configuration information of the whitelist.

• The response results are as follows:

Parameter	Type	Description	Default	Required
code	int	Result code.0 means success, other values mean failure.	None	Y
reason	String	Reason description	None	Y
mode	int	Proxy mode. This field is different from the mode field in the URL parameters and is primarily used for compatibility with previous page operations. The values are as follows: 2: Socks5 proxy 3: HTTP/HTTPS proxy	None	N
enabled	int	Whether it is enabled, the values are as follows: 0: Disabled	None	N

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		1: Enabled		
size	int	Whitelist configuration quantity	None	N
urls		An array of whitelist configuration results, where each array item is a string representing URL information.	None	N

8.3.5 *Modify the whitelist status*

When using the HTTP POST request method to request the base URL and specifying the URL parameter op as enabled or disabled,the whitelist status will be modified.

• URL parameters are explained as follows:

Parameter	Description	Default	Required	Remark
op Operation type:The possible values are as		None	Y	
	follows:			
	enabled: Enable proxy whitelist			
	disabled:Disable proxy whitelist			

• The response results are as follows:

Parameter	Type	Description	Default	Required
code		Result code.0 means success, other values mean failure.	None	Y
reason	String	Reason description	None	Y

8.3.6 *Add the whitelist configuration*

When using the HTTP POST request method to request the base URL and specifying the URL parameter op as add, the proxy whitelist configuration will be added. The specified proxy whitelist configuration information needs to be included in the HTTP body of the request.

• URL parameters are explained as follows:

Parameter	Description	Default	Required	Remar k
op	Operation type:The possible values are as	None	Y	
	follows:			
	add:Add the proxy whitelist configuration			

• Body parameters are explained as follows:

Parameter	Description	Default	Required	Remark
urls	Array of proxy whitelist	None	Y	Each array item is a string
	configurations			representing URL
				information.Examples of URL
				formats:
				1,* -all URLs;
				2,www.example.com -exact single
				URL match;
				3,*.example.com -suffix match, such
				as a.example.com,b.example.com,

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		etc;
		4,www.example.* -prefix
		matching, such as
		www.example.com,
		www.example.org. etc;

• The response results are as follows:

Parameter	Type	Description	Default	Required
code	int	Result code.0 means success, other values mean failure.	None	Y
reason	String	Reason description	None	Y

8.3.7 Delete whitelist configuration

When using the HTTP POST request method to request the base URL and specifying the URL parameter op as delete, the proxy whitelist configuration will be deleted. The specified proxy whitelist configuration information needs to be included in the HTTP body of the request.

• URL parameters are explained as follows:

Parameter	Description	Default	Required	Remark
op	Operation type: The possible values are as	None	Y	
	follows:			
	delete:Delete the whitelist configuration			

• Body parameters are explained as follows:

Parameter	Description	Default	Required	Remark
urls	Array of proxy whitelist	None	Y	Each array item is a string
	configurations			representing URL
				information.

• The response results are as follows:

Parameter	Type	Description	Default	Required
code	int	Result code.0 means success, other values mean failure.	None	Y
reason	String	Reason description	None	Y

8.4 URL BlackList

Configure the basic information and enable/disable settings for the proxy URL Blacklist.

8.4.1 Base URL

 $http://host:port/proxy_black_list?username=xxx\&password=xxx\&mode=xxx\\$

8.4.2 Base Parameter

• URL parameters are explained as follows:

Parameter	Description	Default	Required	Remark
mode	Proxy mode	None	Y	The values are as follows:
				http : HTTP/HTTPS

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				proxy;
				socks5: Socks5 proxy;
username	Device username	None	Y	
password	Device password	None	Y	

8.4.3 Obtain the blacklist status

When using the HTTP GET request method to request the base URL, if the state URL parameter is specified, the device will return the current status of the blacklist.

• URL parameters are explained as follows:

Parameter	Description	Default	Required	Remark
state	Whether the whitelist is enabled.	None		As URL parameters, the specific value is not important.for example, both state=0 and state=1 are acceptable.

• The response results are as follows:

Parameter	Type	Description	Default	Required
code	int	Result code.0 means success, other values mean failure.	None	Y
reason	String	Reason description	None	Y
mode	int	Proxy mode. This field is different from the mode field in the URL parameters and is primarily used for compatibility with previous page operations. The values are as follows: 2: Socks5 proxy 3: HTTP/HTTPS proxy	None	N
enabled	int	Whether it is enabled, the values are as follows: 0: Disabled 1: Enabled	None	N

8.4.4 Obtain the blacklist configuration information

When using the HTTP GET request method to request the base URL, the device returns the basic configuration information of the blacklist.

• The response results are as follows:

Parameter	Type	Description	Default	Required
code		Result code.0 means success, other values mean failure.	None	Y
reason	String	Reason description	None	Y

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mode	int	Proxy mode. This field is different from		
		the mode field in the URL parameters		
		and is primarily used for compatibility		
		with previous page operations. The	None	N
		values are as follows:		
		2: Socks5 proxy		
		3: HTTP/HTTPS proxy		
enabled	int	Whether it is enabled, the values are as		
		follows:	2.7	
		0: Disabled	None	N
		1: Enabled		
size	int	Blacklist configuration quantity	None	N
urls	array	An array of blacklist configuration		
		results, where each array item is a string	None	N
		representing URL information.		

8.4.5 *Modify the blacklist status*

When using the HTTP POST request method to request the base URL and specifying the URL parameter op as enabled or disabled,the whitelist status will be modified.

• URL parameters are explained as follows:

Parameter	Description	Default	Required	Remark
op	Operation type: The possible values are as	None	Y	
	follows:			
	enabled: Enable blacklist			
	disabled:Disable blacklist			

• The response results are as follows:

Parameter	Type	Description	Default	Required
code		Result code.0 means success, other values mean failure.	None	Y
reason	String	Reason description	None	Y

8.4.6 Add the blacklist configuration

When using the HTTP POST request method to request the base URL and specifying the URL parameter op as add, the proxy blacklist configuration will be added. The specified proxy blacklist configuration information needs to be included in the HTTP body of the request.

• URL parameters are explained as follows:

Parameter	Description	Default	Required	Remar
				k
op	Operation type:The possible values are as	None	Y	
	follows:			
	add:Add the proxy whitelist configuration			

Body parameters are explained as follows:

Parameter	Description	Default	Required	Remark
urls	Array of proxy whitelist	None	Y	Each array item is a string

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configurations		representing URL
		information.Examples of URL
		formats:
		1,* -all URLs;
		2,www.example.com -exact single
		URL match;
		3,*.example.com -suffix match, such
		as a.example.com,b.example.com,
		etc;
		4,www.example.* -prefix
		matching, such as
		www.example.com,
		www.example.org. etc;

• The response results are as follows:

Parameter	Туре	Description	Default	Required
code	int	Result code.0 means success, other values mean failure.	None	Y
reason	String	Reason description	None	Y

8.4.7 Delete whitelist configuration

When using the HTTP POST request method to request the base URL and specifying the URL parameter op as delete, the blacklist configuration will be deleted. The specified proxy blacklist configuration information needs to be included in the HTTP body of the request.

• URL parameters are explained as follows:

Parameter	Description	Default	Required	Remark
op	Operation type: The possible values are as	None	Y	
	follows:			
	delete:Delete the blacklist configuration			

• Body parameters are explained as follows:

Parameter	Description	Default	Required	Remark
urls	Array of blacklist	None	Y	Each array item is a string
	configurations			representing URL
				information.

• The response results are as follows:

Parameter	Type	Description	Default	Required
code		Result code.0 means success, other values mean failure.	None	Y
reason	String	Reason description	None	Y

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8.5 Enable Access Log

Configure enable/disable settings for the proxy URL logs.

8.5.1 Base URL

http://host:port/proxy_access_log?username=xxx&password=xxx&mode=xxx

8.5.2 Base Parameter

• URL parameters are explained as follows:

Parameter	Description	Default	Required	Remark
mode	Proxy mode	None	Y	The values are as follows:
				http : HTTP/HTTPS
				proxy;
				socks5: Socks5 proxy;
username	Device username	None	Y	
password	Device password	None	Y	

8.5.3 *Obtain the blacklist status*

When using the HTTP GET request method to request the base URL, if the state URL parameter is specified, the device will return the current status of logs.

• The response results are as follows:

Parameter	Type	Description	Default	Required
code	int	Result code.0 means success, other values mean failure.	None	Y
reason	String	Reason description	None	Y
mode	int	Proxy mode. This field is different from the mode field in the URL parameters and is primarily used for compatibility with previous page operations. The values are as follows: 2: Socks5 proxy 3: HTTP/HTTPS proxy	None	N
enabled	int	Whether it is enabled, the values are as follows: 0: Disabled 1: Enabled	None	N

8.5.4 *Modify the access log status*

When using the HTTP POST request method to request the base URL and specifying the URL parameter op as enabled or disabled, the access log status will be modified.

• URL parameters are explained as follows:

Parameter	Description	Default	Required	Remark
op	Operation type:The possible values are as	None	Y	
	follows:			
	enabled: Enable access log			
	disabled:Disable access log			

• The response results are as follows:

Pa	arameter	Type	Description	Default	Required

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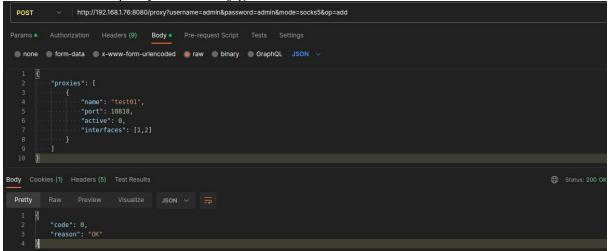
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code		Result code.0 means success, other values mean failure.	None	Y
reason	String	Reason description	None	Y

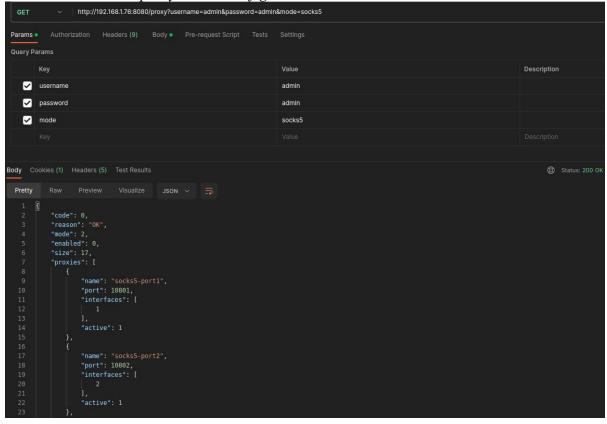
8.6 Example

The following examples are performed using the Postman application.

8.6.1 Add the proxy socks 5 configuration



8.6.2 *Obtain the proxy socks 5 configuration*



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9 IP Whitelist Configuration

Provides APIs to view and manage the IP whitelist, including enabling/disabling the whitelist and adding/removing IP entries.

9.1 Retrieve IP Whitelist Information

Use the HTTP GET method to retrieve the configured IP addresses and whitelist status.

9.1.1 Base URL

http://host:port/ip_white_list?username=xxx&password=xxx

9.1.2 Base Parameter

• URL parameters are explained as follows:

Parameter	Description	Default	Required	Remark
username	Device username	None	Y	Username used to log in to device
password	Device password	None	Y	Password corresponding to the username

9.1.3 Response Fields

• The response results are as follows:

Parameter	Type	Description	Default	Required
code	int	Result code.0 means success, other values mean failure.	None	Y
reason	string	Reason description	None	Y
enbale	int	Whether the whitelist is enabled The values are as follows: 0: Disabled 1: Enabled	None	Υ
ipset	array	Array of IP strings. Each string can be: - An IPv4 address (e.g., 192.168.1.1) - An IPv4 subnet (e.g., 192.168.1.1/24)	None	Y

9.2 Modify IP Whitelist Configuration

Use the HTTP POST method to add or remove IP addresses, or to enable/disable the whitelist.

9.2.1 Base URL

http://host:port/ip_white_list?username=xxx&password=xxx

9.2.2 Base Parameter

• URL parameters are explained as follows:

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Parameter	Description	Default	Required	Remark
username	Device username	None	Y	Username used to log in to device
password	Device password	None	Y	Password corresponding to the username

9.2.3 Request Body Fields

Parameter	Type	Description	Default	Required
enbale	int	Whether the whitelist is enabled The values are as follows: 0: Disabled 1: Enabled	None	Y
deleted_set	array	Array of IP to delete. Each string can be: - An IPv4 address (e.g., 192.168.1.1) - An IPv4 subnet (e.g., 192.168.1.1/24)	None	Y
added_set	array	Array of IP to add. Each string can be: - An IPv4 address (e.g., 192.168.1.1) - An IPv4 subnet (e.g., 192.168.1.1/24)	None	Y

9.2.4 Response Fields

• The response results are as follows:

ne response results are as rone ws.				
Parameter	Туре	Description	Default	Required
code	int	Result code.0 means success, other values mean failure.	None	Y
reason	string	Reason description	None	Y

10 IP Blacklist Configuration

Provides APIs to view and manage the IP blacklist, including enabling/disabling the blacklist and adding/removing IP entries.

10.1 Retrieve IP Whitelist Information

Use the HTTP GET method to query the current blacklist configuration.

10.1.1 Base URL

http://host:port/ip_black_list?username=xxx&password=xxx

10.1.2 Base Parameter

• URL parameters are explained as follows:

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Parameter	Description	Default	Required	Remark
username	Device username	None	Y	Username used to log in to device
password	Device password	None	Y	Password corresponding to the username

10.1.3 Response Fields

• The response results are as follows:

Parameter	Type	Description	Default	Required
code	int	Result code.0 means success, other values mean failure.	None	Y
reason	string	Reason description	None	Y
enbale	int	Whether the blacklist is enabled The values are as follows: 0: Disabled 1: Enabled	None	Y
ipset	array	Array of IP strings. Each string can be: - An IPv4 address (e.g., 192.168.1.1) - An IPv4 subnet (e.g., 192.168.1.1/24) - " * " The * symbol represents all IP addresses	None	Y

10.2 Modify IP Whitelist Configuration

Use the HTTP POST method to add or remove IP addresses, or to enable/disable the blacklist.

Note that using the * symbol to configure the blacklist will block all IP addresses from accessing the device, so the whitelist feature must be configured and enabled first.

10.2.1 Base URL

http://host:port/ip_black_list?username=xxx&password=xxx

10.2.2 Base Parameter

• URL parameters are explained as follows:

Parameter	Description	Default	Required	Remark
username	Device username	None	Y	Username used to log in to
				device
password	Device password	None	Y	Password corresponding to
				the username

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10.2.3 Request Body Fields

Parameter Parameter	Туре	Description	Default	Required
enbale	int	Whether the blacklist is enabled The values are as follows: 0: Disabled 1: Enabled	None	Y
deleted_set	array	Array of IP to delete. Each string can be: - An IPv4 address (e.g., 192.168.1.1) - An IPv4 subnet (e.g., 192.168.1.1/24) - " * " The * symbol represents all IP addresses	None	Y
added_set	array	Array of IP to add. Each string can be: - An IPv4 address (e.g., 192.168.1.1) - An IPv4 subnet (e.g., 192.168.1.1/24) - " * " The * symbol represents all IP addresses	None	Y

10.2.4 Response Fields

The response results are as follows:

Parameter	Type	Description	Default	Required
code	int	Result code.0 means success, other values mean failure.	None	Y
reason	string	Reason description	None	Y

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