

SNOWFLY HTTP DEVELOPMENT SPEC

Note: the encoding format of this interface: utf8.

1. Get balance

HTTP get supported to obtain the balance of the corresponding account in the system. Data of query (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**” .

Method of calling:

http://Ip:20003/getbalance?account=***&password=***

Input parameter:

Parameter	Description	Required	Date type
version	Protocol version number	N(default 1.0)	String
account	Account	Y	String
password	Password	Y	String
seq	Serial number , increments per request, the initial value is 1	Must be filled when the server requires encryption	Int
time	The timestamp form which the request was mode	Must be filled when the server requires encryption	Int

Output parameter:

Parameter	Description	Data type
status	Query status 0: query success -1: authentication error -2: Ip limited access	INT
balance	The balance of the actual account	String
gift	Complimentary account balance	String

Reply sample:

```
{ "status":0, "balance":"99.990000", "gift":"50.00000"}
```

2. Send sms

Support HTTP get or post for send sms messages. Get sends up to 100 numbers at a time. And post can submit up to 10000 numbers at once.

Submitted results date (the body segment of the HTTP messages) is a JSON array composed by one or more task. Parameter content-type in http head should set to `"application/json;charset=utf-8"`.

1. HTTP GET method calling:

```
http://Ip:20003/sendsms?account=***&password=***&smstype=0&numbers=10010,1008611&content=***&mmstitle=mmstitle_text
```

2. Http post method calling: (Notes: need put the all parameters on the body as json)

```
http://Ip:20003/sendsms
```

```
body:{"account":"chenkc","password":"123456","content":"test","smstype":0,"mmstitle":"mmstitle decs", "numbers":"123456"}
```

3. Http post method calling: (Use the sms array pass multiple numbers, Content of multiple text message)

```
http://Ip:20003/sendsms
```

```
body:{"account":"chenkc","password":"123456","smsarray":[{"content":"***","smstype":0,"mmstitle":"***","numbers":"***","sender":"**"}, {"content":"***","smstype":0,"mmstitle":"***","numbers":"***,***"}, ... {"content1":"***","smstype":0,"mmstitle":"***","numbers":"***"}]}
```

Notes: Need to put all the parameter in the body as json.

Input parameter:

Parameter	Description	Required	Data type
version	Protocal version number	N(default 1.0)	String
account	Account	Y	String
password	Password	Y	String
seq	Serial number, increments per request, the initial value is 1	Must be filled when the server	Int

		requires encryption	
time	The timestamp form which the request was made	Must be filled when the server requires encryption	Int
smstype	Sms type(0:SMS, 1:MMS)	N (default0)	Int
mmstitle	MMS title (get mode need to be done urlEncode)	N	String
sender	Sender	N	String
numbers	Sms receiving number, separated by English comma between multiple Numbers(get up to 100, post up to 10000)	Y	
content	Send content (need to do urlEncode)	Y	String the length should not exceed 1024
sendtime	Timed delivery time (empty is immediately sent) For example : 20171001123015, which means october 1, 2017, 12:30 minutes and 15 seconds	N	String (14)

Output parameter:

Parameter	Description	Data type
status	Send submission status 0: query success -1: authentication error -2: Ip limited access -3: SMS contain sensitive characters -4: SMS contain is empty -5: SMS contain is too long -6: Not a template SMS -7: Over number -8: number is empty -9: Abnormal number -10: The channel balance is insufficient to satisfy this transmission -11: The time is wrong -12: Because of the platform , batch commit error, please contact the administrator -13: User locked	INT

success	The number of successful submissions	INT
fail	The number of failure submissions	INT
array	The array of successful sms submission The array contains the “number and number of the sending result query ID”, which is numeric characters	

Note: after the submissions of the SMS, the system will generate an id for the successful number, after that the consumer can query the sending result of the message according to this id.

Reply simple:

```
{"status":0, "success":2, "fail":0, "array":[[10010,1], [1008611,2]]}
```

3. Get report

HTTP get is Support to query the SMS sending status, and get sends up to 200 numbers at once. Get report 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”.

Note: December 31, 2020, added support for getting reports delivered, the “EIMS_HTTP_GET_DELIVER_REPORT” option can be turns off the function of deliver reports.

Method of calling:

http://Ip:20003/getreport?account=***&password=***&ids=1,2

Input parameter:

Parameter	Description	Required	Data type
version	Protocol version number	N(default 1.0)	String
account	Account	Y	String
password	Password	Y	String
ids	Specify the SMS id of the query sending result (the id is returned by the system at the time of submission), and multiple Numbers are separated by English commas (up to 200)	Y	String
seq	Serial number, increments per	Must be filled	Int

	request, the initial value is 1	when the server requires encryption	
time	The timestamp form which the request was made	Must be filled when the server requires encryption	Int
ids	Specify the SMS id of the query sending result (the id is returned by the system at the time of submission), and multiple Numbers are separated by English commas (up to 200)	Y	String

Output parameter:

Parameter	Description	Data type
status	Send submission status	INT
success	The number of send successful	INT
fail	The number of send failure	INT
unsent	The number of unsend	INT
sending	The number of sending	INT
Deliver Suc	The number of deliver success	INT
Deliver fail	The number of deliver failure	INT
Deliver Timeout	The number of deliver timeout	INT
No found	The number of number not found	
array	<p>An array of sms sending result</p> <p>An array of SMS sending results.</p> <p>The array contains the "status query ID, number, sending time, status", all of which are numeric characters.</p> <p>Send Status:</p> <p>0 sent successfully,</p> <p>1: unsend,</p> <p>2: sending,</p> <p>Non: sending failure.</p> <p>Deliver status:</p> <p>0: no reporting required</p> <p>1: sent but not yet delivered</p> <p>2: deliver failure</p> <p>3: deliver success</p> <p>4: deliver timeout</p> <p>5: other unknown status</p>	

Note: after the submission of the text message, the system will generate an Id for the successful number. After that, the customer can query the sending result of the message according to this Id.

Reply sample:

```
{ "status":0, "success":1, "fail":1, "unsent":0, "sending":0, "nofound":0,
  "array":[[1,10010,20171001123015,0], [2,1008611,20171001123015,3]]}
```

Note: above-mentioned array [1,10010,20171001123015,0], each field corresponds to the status query ID, number, sending time and status of the number.

Status code	English describe
0	success
1001	NoRoute
1002	NoChannel
1003	NoBablance
1004	Unkown
1005	Send Refuse
1006	Send Timeout
1007	Server Timeout
1008	SupplierMccMncLimit
1009	ConsumerMccMncLimit
1010	NoSupplier
1011	Black Number
1012	Sensitive Words
1013	Daliy Limit
1014	DestinationMccMncLimit
1016	SMS Template Limit
1017	SupplierNoBablance
1018	UserProfitLimit
1019	ChannelProfitLimit
1020	MccNumberLengthLimit
1021	Job no found
1022	china sms limit
1023	RouteMccMncLimit

4. Get sms

Support HTTP get to query the system to receive SMS, get sends up to 50 SMS messages. Get report 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” .

Method of calling:

http://Ip:20003/getsms?account=***&password=***&start_time=1543570302

Input parameter:

parameter	Description	Required	Data type
version	Protocol version number	N (default 1.0)	String
account	Account	Y	String
password	Password	Y	String
seq	Serial number , increments per request, the initial value is 1	Must be filled when the server requires encryption	Int
time	The timestamp form which the request was mode	Must be filled when the server requires encryption	Int
Start_time	The timestamp from which the query began	N	INT

Output parameter:

Parameter	Description	Type
status	Query request status 0: Query success -1: Authentication error -2: IP limited access -3: SMS contain sensitive characters -4: SMS contain is empty -5: SMS contain is too long -6: Not a template SMS -7: Over number -8: Number is empty -9: Abnormal number -10: The channel balance is insufficient to satisfy this transmission -11: The timing is wrong -12: Because of the platform, batch commit error, please contact the administrator -13: User locked	INT
cnt	receive SMS number of Query (a get request is not more than 50)	INT

array	receive SMS number of Query (a get request is not more than 50) Note: the message content needs to be base64 decoded to get the correct SMS content of utf8 encoding;If you receive two SMS with the same id, it can be considered as a repeated receiving SMS. Once the customer has checked the received SMS, the second query will not return.	
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Reply sample:

```
{ "status":0, "cnt":2, "array":[[1,10010,20171001123015, "*****"],
[2,1008611,20171001123015, "*****"]]}
```

5. Actively the push the report to customers url

The url of the push report of consumer user can be configured on the system. After the system sends the message, The result of the SMS message will be pushed to the url specified by the customer in put mode, the contents of the report are placed in the body of the request in JSON ,push up to 50 report at one time.

JSON message format

Parameter	description	Type
type	The string type of the message, , default: "report"	STRING
cnt	The number of reports included in this push (no more than 50 more than one request)	INT
array	An array of sms sending reports The array contains 1、 id(the id returned when sent, Int) 2、 Send number (String) 3、 Send time (Int) 4、 Send result (Int, 0 succeed, non-0 failed) 5、 Cause (String)	Array

Push sample:

```
{ "type": "report", "cnt":2, "array":[[1, "1234545456", 20180801123015, 0, "success"], [2, "2356844545", 20180801223015, 1, "no balance"]]}
```

6. Create a SMS task to send message

Support HTTP post to create the task of sending SMS.

submitted result 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" .

URL: <http://Ip:20003/smsjob>

Body sample:

1. Create an immediately sms task, the number is put on the number field.

```
body:{"account":"chenkc","password":"123456","job":"job_with_number","numbersrc":0,"numbers":"123456,3444,54535","content":"test"}
```

2. Create an immediately sms task, the number field holds the URL of a number field.

```
body:{"account":"chenkc","password":"123456","job":"job_with_number","numbersrc":1,"numbers":"http://ip:port/sms.xls","content":"test"}
```

3. Create cycle of 10 sms task that trigger at 9am each day, the number fields holds the URL of a number field.

```
body:{"account":"chenkc","password":"123456","job":"job_with_number","jobtype":3,"period":10,"hour":9,"min":0,"numbersrc":1,"numbers":"http://ip:port/sms.xls","content":"test"}
```

Note: need to put all the parameter in the body as json, url file only supports xls, nonsupport xlsx.

Input parameter

Parameter	Description	Required	Data type	Note
version	Protocol version number	N	String	Default 1.0
account	Accounts	Y	String	
password	<p>1、 when the server is not encrypted, is plaintext password.</p> <p>2、 when the server is encrypted, is MD5 password</p> <p>Md5 price = md5 (account+plaintext password+seq+time+key)</p> <p>The negotiated key offer By server</p>	Y	String	

seq	Serial number: incrementing per request The initial value is 1	N	Int	Must be filled when the server Requires encryption
time	The timestamp of the Request initiation	N	Int	Must be filled when the server Requires encryption
job	Task name	Y	String	
jobtype	Task type 0: immediately 1: timing 2: interval 3: daily 4: weekly 5: monthly	N	Int	Default 0
period	The number of cycles of a periodic task	N	Int	1、 this calve only takes effect if the task type is greater than 2 2、 the default number of cycles for a periodic task is 1+- both the period and the scheduled end time are empty
interval	How often does an interval trigger an interval task	N	Int	When the task is 2 interval, It is required time unit: minutes
min	Min	N	Int	1. Value range: 0-59 2. Compulsory items for tasks of type 2-5
hour	Hour	N	Int	3. Value range: 0-23 4. Compulsory items for tasks of type 2-5
day	day	N	Int	1、 value range:1-31 2、 Compulsory items for tasks of type 2,3 and 5
week	week	N	Int	1、 value range:1-7 2、 compulsory items for tasks of type 4
mon	month	N	Int	1、 value range:1-12 2、 compulsory items for tasks of type 5
planstarttm	Schedule to send a timestamp	N	Int	Scheduled to send a timestamp. Null mean to send immediately
planendtm	Scheduled end timestamp	N	Int	Scheduled end timestamp
retry	The number of retries	N	Int	The maxmum number of retry messages sent failed Default 0 does not resend

flash	Flash sms	N	Int	is it a flash message 0: NO 1: Yes
content	SMS content	N	String	Global SMS content
Numbersrc	Source number	N	INT	0: numbers field is number 1: numbers is a URL(file only Support xls,nonsupport xlsx)
numbers	Receive number	N	String	Receive number for SMS 1. The length not exceeding 4*1024 2. multiple numbers are separated by English commas
SenderId	Sender ID	N	String	The sender Id of the task
SMStype	SMS type	N	Int	0: SMS, 1: MMS (default 0)
MMStitle	MMS title	N	String	When the SMS type is MMS is required to fil

Output parameter

Parameter	Description	type
status	Query request status 0: Query success -1: Authentication error -2: IP limited access -3: SMS contain sensitive characters -4: SMS contain is empty -5: SMS contain is too long -6: Not a template SMS -7: Over number -8: Number is empty -9: Abnormal number -10: The channel balance is insufficient to satisfy this transmission -11: The timing is wrong -12: Because of the platform, batch commit error, please contact the administrator -13: User locked -14: abnormal number source -15: task name abnormal, null or length greater than 64	INT

	-16: the SMS task type is abnormal -17: others mistake	
Jobid	The ID value of the task was successfully created	INT

Reply sample:

```
{"status":, "jobid":2}
```