HTTP Application Programming Interface (API)

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Contents

1.0 Document History

Date	Document Version	Document Description / Changes to document
1/8/08	1.0	Document Creation
5/5/09	1.1	Update on error code

2.0 Abbreviation

Abbreviation	Full Description and explanation
CP	Content Provider – Customers connecting to onewaysms gateway
HTTP	Hyper Text Transport Protocol – Protocol used for CP to communicate with onewaysms gateway
MSISDN	Mobile Station International ISDN number
SMS	Short Messaging Service
MT	Mobile Terminating
MT URL	onewaysms.com.au's sms platform MT URL (URL for Content Provider to interface with onewaysms sms gateway to send out MT)

3.0 Introduction

This document is intended to be used by developers, technical architect, designer who wish to develop applications or connect their platforms to interface with onewaysms's sms gateway through HTTP connectivity.

4.0 System Requirement

1. Content Provider may use any web based programming language that supports HTTP protocol
2. Onewaysms gateway will be listening on port 10001

5.0 API List

onewaysms gateway expose 3 API for CP to utilize
1. Send MT message
2. Check transaction status
3. Check credit balance

Guide to integrate with onewaysms gateway
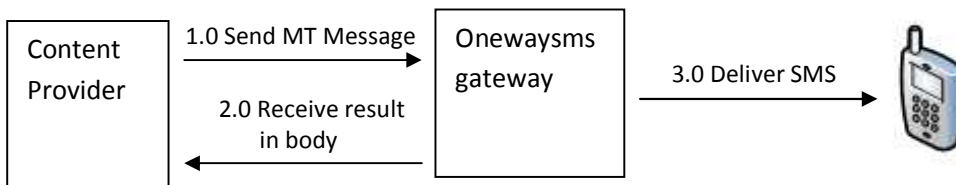
5.1   Send MT message

Diagram 1: Send MT Message

To send MT, CP would need to call MT URL with the appended parameter. (MT URL can be obtain from API section in your account)

Below are the HTTP parameter that are required to be appended to MT URL

Parameter Name	Data Format	Description
apiusername	String	Username for your API (can be obtain under API section once you have log into your account) Note : API username is different from your web username)
apipassword	String	Password for your API (can be obtain under API section once you have log into your account) Note : API username is different from your web username)
mobileno	String	Phone number of recipient. Phone number must include country code. Example : 6141234567 10 mobile numbers can be included in this field separated with commas (,). Eg. 6141234567,6147654321
senderid	String	Refer to sender. Field can take up to 11 alphanumeric characters.
languagetype	String	Indicated the type of sms sent:

		"1" – Normal Text message (160 characters as 1 MT) "2" – Unicode Text message (70 characters as 1 MT) For languagetype 2, refer to Appendix 1 for example on conversion
message	String	Content of the SMS. The gateway will truncate the message based on given language type Example, if languagetype set to 1, and message has content with length 200, 2 MT will be sent.

Once onewaysms gateway receives a MT request, it will return a HTTP 200 response to CP
- If the value is other than 200, then it is a failed request.
- If the value is 200, CP is required to extract the message body for the result
- If the result is a negative value, some of the MT parameters are invalid (refer below for details)
- If the result is a positive value, it means our gateway successfully receive it. The result is the MT ID. (If you would like to check on transaction status, you would need to store this ID)

Below are the result that will return on the message body

Result	Description
>0	Positive value – Success If multiple numbers are sent in the same request, result will display multiple MT ID, For example, 200806150001,200806150002
-100	apipassname or apipassword is invalid
-200	senderid parameter is invalid
-300	mobileno parameter is invalid
-400	languagetype is invalid
-500	Invalid characters in message
-600 -60	Insufficient credit balance

Refer to Appendix 2 on URL example on sending MT

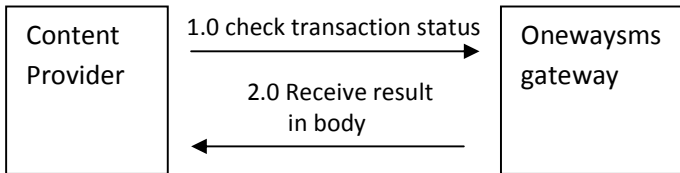## 5.2 Check transaction status (conditional to implement)

Diagram 2: Check transaction status

Once bulk MT is delivered to subscriber, Content Provider may check transaction status by calling bulk check URL (Bulk check URL can be obtain from API section in your account)

Below are the HTTP parameter that are required to be appended to MT URL

Parameter Name	Data Format	Description
mtid	String	MT ID received from onewaysms gateway when sending MT previously

Below are the result that will return on the message body

Result	Description
0	Success receive on mobile handset
100	Message delivered to Telco
-100	mtid invalid / not found
-200	Message sending fail

Refer to Appendix 3 on URL example on check transaction status

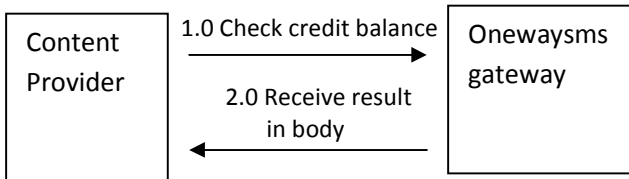## 5.3   Check Credit Balance (conditional to implement)

Diagram 3 : Check credit balance

Content Provider can check credit by calling check balance URL . (Check balance URL can be obtain from API section in your account)

Parameter Name	Data Format	Description
apiusername	String	Username for your API (can be obtain under API section once you have log into your account) Note : API username is different from your web username)
apipassword	String	Password for your API (can be obtain under API section once you have log into your account) Note : API username is different from your web username)

Below are the result that will return on the message body

Result	Description
0 or positive value	SMS Credit balance in your account
-100	apipassname or apipassword is invalid

Refer to Appendix 4 on URL example on check credit balance

6.0 Appendix

Appendix 1

For send with languagetype 2, you would need to convert the message to hexadecimal value

Below are examples on the conversion
Letter "a" : hexadecimal value is 0061
Chinese character "人" : hexadecimal value is 4EBA
Note : each character must be converted to 4 hexadecimal value. Using example "a", some software will convert to 61, you would need to append "00" to make it "0061"

Appendix 2

Example sending SMS with languagetype 1
http://mturl?apiusername=123&apipassword=123&mobileno=6141234567&senderid=oneway sms&languagetype=1&message=hello

Example sending SMS with languagetype 2
http://mturl?apiusername=123&apipassword=123&mobileno=6141234567&senderid=oneway sms&languagetype=2&message=00680065006C006C006F

Note : hello converted to hexadecimal is 00680065006C006C006F

Appendix 3

Example calling check transaction status URL
http://checkstatusurl?mtid=808010000123

Appendix 4

Example calling check credit balance
http://checkcrediturl?apiusername=123&apipassword=123