

BULK™
API interface description
V1.5 24.3.2010 Markus Parkkonen

Version history

Version	Change	Date
1.0	First version	16.10.2007
1.1	Return data update	09.02.2010
1.2	Delivery reports	25.02.2010
1.3	Incoming Messages & XML return data	01.03.2010
1.4	Timed sending	22.03.2010
1.5	User reference	24.03.2010

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1. Message sending

1.1 FORM-information

ACTION = <http://bulk.fi/sms.php> or <https://bulk.fi/sms.php>

METHOD = POST

1.2 Field definitions

#	Description	Fieldname	Format	Mandatory
1	Username	user	AN	Y
2	Password	password	AN	Y
3	Number from	numberfrom	AN 11	
4	Number to	numberto	N	
5	Message	message	AN	
6	Charset	charset	AN	
7	Delivery report url	report_url	AN	
8	Return format	return_format	AN	
9	Delivery time	delivery_time	2010-12-31 12:00	
10	User reference	reference	AN 20	

#4 If you want to send the same message to multiple recipients separate the numbers by comma.

#6 By default the API uses ISO-8859-1 charset for incoming messages.

#7 In case that delivery report url is defined return data will have additional data.

#8 By default return format is TEXT. Return formats are: TEXT and XML.

#9 By default the message is send right away, you can time it to future by filling this.

#10 Billing customers will get csv with the invoice including breakdown by reference.

1.3 Plain text return data

For successful sms send the api returns OK # #

Example – Credit customers:

OK 2 567

OK 3 564

Example – Billing customers:

OK 2 -1

OK 3 -1

First number is credits used and the second is credits left. Credits left will be -1 for billing customers.

In case that report url was defined the api will return three numbers when sending a single message, last number represents message id. If you are sending to multiple recipients the api will return two numbers and [#,#] format array of message id's, the id's are in the same order as numbers supplied.

Example – Credit customers:

OK 1 563 838774

OK 4 559 [838775,838776,838777,838778]

Example – Billing customers:

OK 1 -1 838774

OK 4 -1 [838775,838776,838777,838778]

1.4 XML return data

```
<?xml version="1.0"?>
<bulk>
  <mode>OK</mode>
  <creditsUsed>3</creditsUsed>
  <creditsLeft>563</creditsLeft>
  <messageIds>
    <id numberto="+358401231234">838774</id>
    <id numberto="+358401231235">838775</id>
    <id numberto="+358401231236">838776</id>
  </messageIds>
</bulk>
```

1.5 Errors

Errors are returned in following format if using plaintext:

ERR ERROR_CODE

When using XML format the errors are returned as follows:

```
<?xml version="1.0"?>
<bulk>
  <mode>ERR</mode>
  <code>NOT_ENOUGH_CREDITS</code>
</bulk>
```

Error codes are:

Code	Description
NOT_ENOUGH_CREDITS	Account doesn't have enough credits to send the message(s)
SEND_FAILED	For some reason we couldn't insert the message to message queue.
NUMBER_TO	Number to check failed or not provided even if message was
AUTH_FAIL	Authentication failed, check username and password
NO_USER	No username or password provided

2. Delivery reports

2.1 Delivery method

Data will be delivered by HTTP/HTTPS POST to the URL defined when sending message. You must respond OK to the POST. If your server doesn't respond by OK we will retry to send the data 120 times with 60 second intervals, after that the response message will be marked as failed.

2.2 Report data

#	Description	Fieldname	Format
1	Number from	numberfrom	AN 11
2	Number to	numberto	N
3	Status	status	N
4	Delivery time	deliverytime	2009-12-31 20:42:00
5	Message ID	msgid	N

#5 This message id is the same as the one returned by the sending api.

2.3 Status information

Status code	Name	Description
1	Delivered	Message has been delivered
2	Buffered	Message buffered, probably because it failed first time and is waiting to be retried.
3	Failed	Failed to deliver.
5	Expired	Couldn't be delivered within validity period.
6	Rejected	Message was rejected by SMSC.
7	Error	SMSC error, message could not be processed at this time.
Other	Unknown	Unknown status.

3. Credits

3.1 Check credits

Post only user and password to check credits. The data returned is the number of credits left. Billing customers will receive -1.

When using XML format credits are returned in following format:

```
<?xml version="1.0"?>
<bulk>
  <mode>CREDITS</mode>
  <credits>1000</credits>
</bulk>
```

4. Incoming Messages

4.1 Delivery information

There are three different kind of delivery methods available: HTTP, HTTPS and SMTP (email). These methods can have data encoded as plain text or as XML. Both method and encoding are defined in the Bulk -service when service is opened.

4.2 Plain text field definitions for HTTP and HTTPS -POST

#	Description	Fieldname	Format
1	Number from	numberfrom	AN
2	Number to	numberto	AN
3	Date and time	datetime	2010-12-31 20:42:00
4	Message	message	AN

Message is UTF-8 encoded.

4.3 XML data definitions

XML is POSTED in field called xmldata.

XML format:

```
<?xml version="1.0"?>
<bulk>
  <message numberFrom="+3584573950682" numberTo="+3584573950682" dateTime="2010-12-31 20:42:00">
    <![CDATA[Test message]]>
  </message>
</bulk>
```

4.4 Response to incoming message

You must always respond to incoming message by string OK. Bulk -service will try to send the message to your server every 10 minutes for 24 hours, after that it will be marked as failed.