



# MobiWeb

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## **SMS HTTP API Manual**

Version 7.3

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## INTRODUCTION

This document describes MobiWeb's HTTP SMS API platform. It is used either via HTTP POST or GET requests. It can be used directly or through any programming language allowing developers or users to interface their system easily with MobiWeb's services.

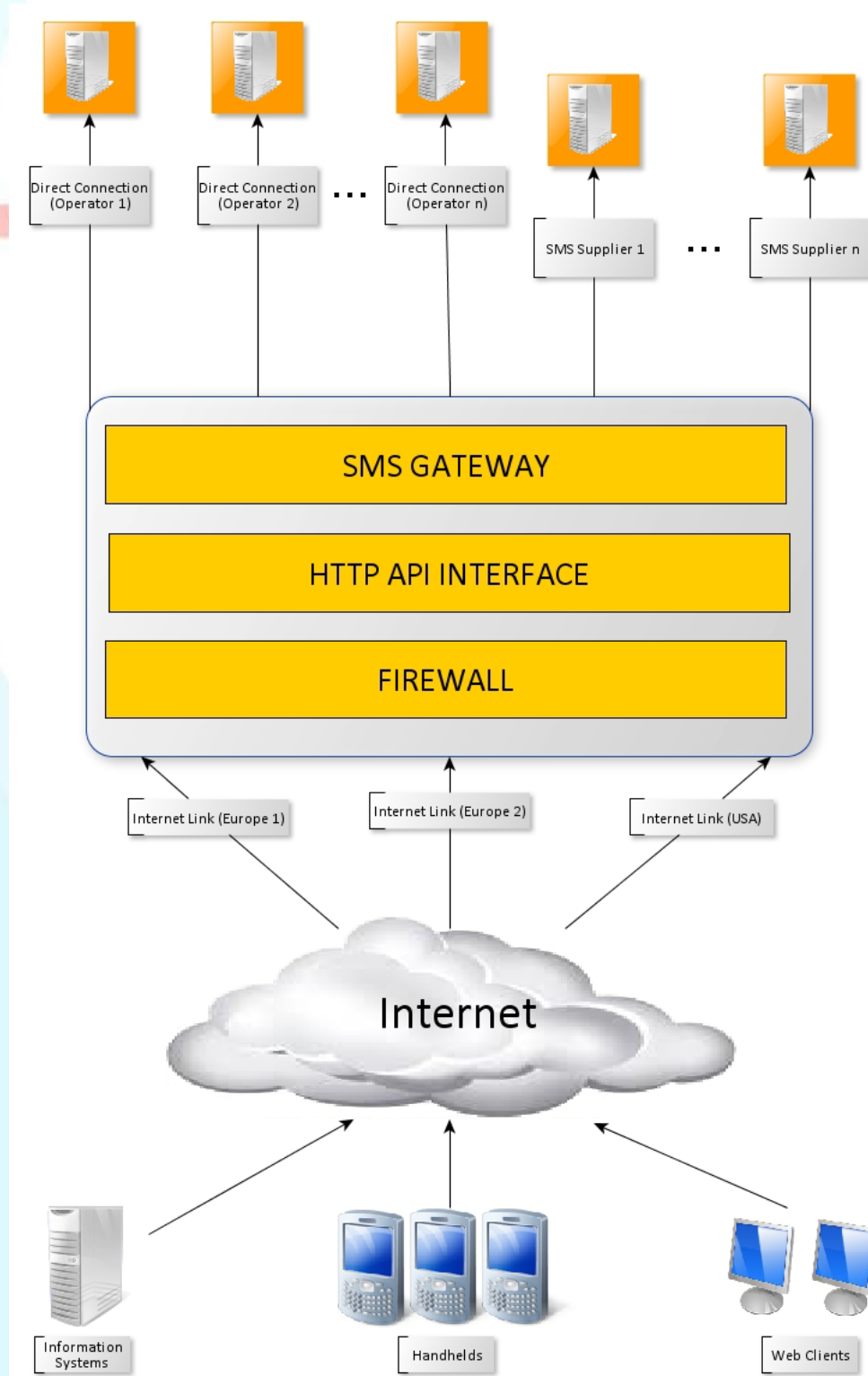


Figure 1 – MobiWeb Ltd. SMS Gateway Platform

## HTTP PROTOCOL

The Hypertext Transfer Protocol (HTTP) is the most common networking protocol used by all Web applications. HTTP is the foundation of data communication for the World Wide Web. It is based on requests for resources made with URLs and responses to them. The requests are made by clients (e.g. Web Browsers) and the responses are delivered by Servers (e.g. Website). Below you can find some basic terminology of the HTTP Protocol:

**URL:** A Uniform Resource Locator specifies where an identified resource is available and the mechanism for retrieving it. That is the address of the resource.

e.g. `http://www.domain.com/test.html`

Here the URL is 'http://www.domain.com/test.html'

**Parameters:** The parameters supplied to the URL. These begin at the end of the resource with the character '?' and are separated by character '&'.

e.g. `http://www.domain.com/test.html?paramA=1&paramB=testvalue`

Here the parameters are paramA with the value of '1' and paramB with the value of 'testvalue'.

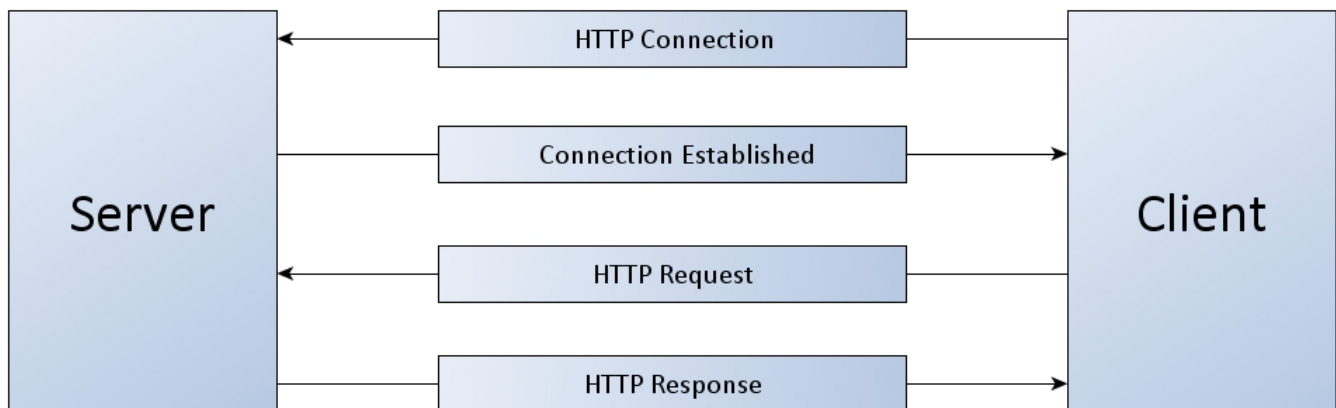


Figure 2 – HTTP Protocol

In order to make an HTTP GET call, you can use any programming language since they all offer a function to make HTTP GET requests.

In PHP you can execute the following:

e.g. `echo file_get_contents("http://www.domain.com/test.html");`

In a UNIX shell you can execute the following command (if libcurl is installed):

e.g. `curl 'http://www.domain.com/test.html'`

In a UNIX shell you can execute the following command (if lynx is installed):

e.g. `lynx -dump 'http://www.domain.com/test.html'`

## SMS SUBMISSION WITH THE HTTP API REQUEST

To send a HTTP request you must provide the correct URL with the required parameters for a successful SMS submission. An example HTTP GET request is:

`http://IPADDRESS/bulksms/bulksend.go?username=userXXXX&password=passXXXX&originator=testsender&phone=44xxxxxxxx&msgtext=test+message`

**Note:** IPADDRESS, username and password are provided to users by their Account Managers by email. username and password are needed for user identification. Since HTTP Protocol is stateless, users are required to submit this information with in all HTTP API SMS Submission requests.

Parameter	Example / Explanation
<b>username</b>	e.g. userXXXX
	The username of your account.
<b>password</b>	e.g. passXXXX
	The password of your account
<b>phone</b>	e.g. 44xxxxxxxx
	e.g. 44xxxxxxxx,44xxxxxxxx The full international number of the recipient's mobile device. This excludes the leading '+'. Can accept multiple numbers by separating each number with a comma. Due to limitations of the HTTP GET request, up to roughly 300 recipients can be send in any HTTP GET request. See examples below for proper use.
<b>msgtext</b>	e.g. test+message
	The text of the SMS message. You can send up to 160 characters max. See examples below for proper use. Text has to be encoded following the URL escaping restrictions.
<b>originator</b>	e.g. testsender
	Originator is the sender displayed in the recipient's mobile device upon arrival of the SMS. Can be composed of 11 alphanumeric characters (A-z, 0-9) or 14 numeric characters (0-9). White spaces and characters are not allowed.
<b>showDLR (optional)</b>	e.g. showDLR=1 (Default 0)
	Set this parameter to '1' for requesting delivery report for this SMS. Refer to Delivery Reports section for more information.
<b>showCOST (optional)</b>	e.g. showCOST=1 (Default 0)
	Set this parameter to '1' for requesting cost for this SMS. Cost is always in EURO (€).

<b>NOTICE:</b> If the destination number is ported, please refer to information provided to you by the Delivery Report for the ported mobile operator id and the final cost. (For more information please refer to Delivery Reports (DLR) or Automatic DLR Forwarding sections of this document.)	
<b>showOPERATORID</b> <b>(optional)</b>	e.g. showOPERATORID=1 (Default 0)
	Set this parameter to '1' for requesting operator id of destination network for this SMS. (Please visit <a href="http://www.solutions4mobiles.com/downloads/document/mobile-operators-list.csv">http://www.solutions4mobiles.com/downloads/document/mobile-operators-list.csv</a> to download a full mobile operators reference list file.)
<b>NOTICE:</b> If the destination number is ported, please refer to information provided to you by the Delivery Report for the ported mobile operator id and the final cost. (For more information please refer to Delivery Reports (DLR) or Automatic DLR Forwarding sections of this document.)	
<b>charset</b> <b>(optional)</b>	e.g. charset=6 (Default 0)
	This parameter specifies character encoding of the SMS.
0	GSM 7-bit ASCII (a, b, c) e.g. msgtext=Hello+World
1	Latin Characters (à, è, ì, ò, ù) e.g. msgtext=àè
5	WAP PUSH binary message. e.g. msgtext=http://www.business-sms.net/mmscontent/2001.gif:::FunnyPic
6	All characters in Hexadecimal Unicode UCS2 format e.g. for àçğ msgtext=010101090121 69 characters maximum.
8	Latin Characters URL Encoded (à, è, ì, ò, ù) e.g. for àü§ msgtext=%7F%7E%5F%24
<b>UDH</b> <b>(optional)</b>	e.g. 00E5
	UDH Header for binary SMS in hexadecimal form.
<b>MSG</b> <b>(optional)</b>	e.g. 09E9
	UDD for binary SMS in hexadecimal form.
<b>msgtype</b> <b>(optional)</b>	e.g. 'F' (Default 'G')
	Set this parameter with 'F' to send SMS as Flash.
<b>futuredate</b> <b>(optional)</b>	e.g. 2011-06-17 18:45:32
	Set this parameter with the exact date (in GMT+0) that the SMS should be sent. Must be URL encoded e.g. futuredate=2011-06-30+11%3A49%3A45

Table 1 - SMS Submission Parameters

When an HTTP request is made, the msgtext parameter has to be encoded following the URL escaping restrictions. For example space characters should be replaced by "+". Also, certain special characters need to be replaced with their escape character in order to be treated as data. Refer to Appendix A for common escape characters.

e.g. for hello world msgtext=hello+world

In a single SMS message, the message text is up to 160 characters. To send more than 160 characters, you have to use the “concatenated SMS” method. Some older mobile phones do not support longer SMS messages. For Long SMS messages, one SMS is sent for every 153 characters of text in the message due to the binary data headers used for each SMS.

**Note:** Certain characters while being supported but are part of the Extended GSM 7-bit Alphabet and count as 2 characters towards single SMS maximum text length (e.g. ^ | [ ]). Please refer to Appendix B for characters starting with 0x1B for a detailed list of them.

All HTTP API SMS submission requests return OK on successful submission or an Error Code. (Refer to Table 2 for Error Code explanations)

Error Codes	
ERROR #	Description
ERROR100	Temporary Internal Server Error. Try again later
ERROR101	Authentication Error (Not valid login Information)
ERROR102	No credits available
ERROR103	MSISDN (phone parameter) is invalid or prefix is not supported
ERROR104	Tariff Error
ERROR105	You are not allowed to send to that destination/country
ERROR106	Not Valid Route number or you are not allowed to use this route
ERROR107	No proper Authentication (IP restriction is activated)
ERROR108	You have no permission to send messages through HTTP API
ERROR109	Not Valid Originator
ERROR110	You are not allowed to send (Routing not available) or Reseller is trying to send while not allowed
ERROR999	Invalid HTTP Request

Table 2 - SMS Submission Error Codes

## EXAMPLES FOR SMS SUBMISSION

### HTTP GET Request for sending a Hello Message

http://IPADDRESS/bulksms/bulksend.go?username=userXXXX&password=passXXXX&originator=testsender&phone=44xxxxxxxx&msgtext=Hello

HTTP API request for sending SMS with text 'Hello' to recipient with number '44xxxxxxxx'. This SMS will display 'testsender' as the originator of the message. Username, password and IPADDRESS are provided to users by their Account Managers.

originator=testsender

msgtext=Hello

Returns OK on successful submission or an Error Code. (Refer to Table 2 for Error Code explanations)

### HTTP GET Request for sending a Flash Message

http://IPADDRESS/bulksms/bulksend.go?username=userXXXX&password=passXXXX&originator=testsender&phone=44xxxxxxxx&msgtype=F&msgtext=Hello

HTTP API request for sending SMS as Flash message. (SMS will pop up at recipient device)

msgtype=F

Returns OK on successful submission or an Error Code. (Refer to Table 2 for Error Code explanations)

### HTTP GET Request for sending a Latin Text Message

http://IPADDRESS/bulksms/bulksend.go?username=user@domain.com&password=12345&originator=mycompany&phone=44xxxxxxxx&charset=8&msgtext=%E0%E8%EC%F2%F9+500%1B%65+abc@domain.com

HTTP API request for sending the Latin Text 'àèìòù 500€ abc@domain.com'. The charset used is '8' and the Latin characters of the message are url encoded. (Refer to Table 1 for the various charsets available)

msgtext=%E0%E8%EC%F2%F9+500%1B%65+abc@domain.com

Returns OK on successful submission or an Error Code. (Refer to Table 2 for Error Code explanations)

#### HTTP GET Request for sending an Arabic text Message

`http://IPADDRESS/bulksms/bulksend.go?username=user@domain.com&password=12345&originator=mycompany&phone=44xxxxxxxx&charset=6&msgtext=063506280627062D002006270644062E064A0631`

HTTP API request for sending the Arabic Message (Good Morning) – ‘ريخلا حابص’. The charset used is ‘6’ and all characters are converted to their hexadecimal Unicode representation. (Refer to Table 1 for the various charsets available)

`charset=6`

`msgtext=063506280627062D002006270644062E064A0631`

Returns OK on successful submission or an Error Code. (Refer to Table 2 for Error Code explanations)

#### HTTP GET Request for sending a Message to multiple recipients

`http://IPADDRESS/bulksms/bulksend.go?username=user@domain.com&password=12345&originator=mycompany&phone=44xxxxxxxx,44xxxxxxxx,44xxxxxxxx,44xxxxxxxx,44xxxxxxxx&msgtext=Hello+to+multiple+mobiles`

HTTP API request for sending a message to Multiple Recipients in one HTTP request. Multiple recipient numbers are provided by separating each number with a comma.

`phone=44xxxxxxxx,44xxxxxxxx,44xxxxxxxx,44xxxxxxxx,44xxxxxxxx`

Returns one OK for each number in the phone parameter on successful submission or an Error Code. (Refer to Table 2 for Error Code explanations)

#### HTTP GET Request for sending an SMS to a future date

`http://IPADDRESS/bulksms/bulksend.go?username=user@domain.com&password=12345&originator=mycompany&phone=44xxxxxxxx&msgtext=Hi&futuredate=2011-06-30+11%3A49%3A45`

HTTP API request for sending an SMS to a particular time in the future. The parameter futuredate must be URL encoded.

`futuredate=2011-06-30+11%3A49%3A45`

Returns OK on successful submission or an Error Code. (Refer to Table 2 for Error Code explanations)

### HTTP GET Request for sending a WAP PUSH

http://IPADDRESS/bulksms/bulksend.go?username=user@domain.com&password=12345&originator=mycompany&charset=5&phone=44xxxxxxxx&msgtext=http://wap.free--sms.com/mmscontent/2001.gif:::FunnyPic

HTTP API request for sending a WAP PUSH message. Charset parameter must be set to '5'. The msgtext is divided in 2 parts separated by character sequence ':::':

1. The URI of the resource to which this message links. (http://wap.free--sms.com/mmscontent/2001.gif)
2. The title to be displayed in the recipient's device screen. (FunnyPic)

Returns OK on successful submission or an Error Code. (Refer to Table 2 for Error Code explanations)

### HTTP GET Request for sending a German text Message

http://IPADDRESS/bulksms/bulksend.go?username=user@domain.com&password=12345&originator=mycompany&phone=49xxxxxxxx&charset=1&msgtext=ABCDEFGHIJKLMNOPQRSTUVWXYZÄÖÜß

HTTP API request for sending German Message – 'ABCDEFGHIJKLMNOPQRSTUVWXYZÄÖÜß'. The charset used is '1'. (Refer to Table 1 for the various charsets available)

charset=1

msgtext= ABCDEFGHIJKLMNOPQRSTUVWXYZÄÖÜß

Returns OK on successful submission or an Error Code. (Refer to Table 2 for Error Code explanations)

### HTTP GET Request for sending a Message with Delivery Report (DLR)

http://IPADDRESS/bulksms/bulksend.go?username=user@domain.com&password=12345&originator=mycompany&phone=44xxxxxxxx&msgtext=message+with+dlr&showDLR=1

**NOTE:** Please refer to Delivery Reports Section before attempting to send a SMS with DLR enabled.

HTTP API request for sending a message and requesting DLR for it.

showDLR=1

Returns one OK followed by DLR request id on successful submission or an Error Code. (Refer to Table 2 for Error Code explanations)

e.g OK1234567

http://IPADDRESS/bulksms/getDLR.go?id=1234567&phone=44xxxxxxxx

HTTP API request for requesting DLR Status of a SMS message.

```
id=1234567  
phone=44xxxxxxxxxx
```

Returns the Status Code and Delivery Date of the SMS separated by character '|', or an Error Code.  
(Refer to Table 4 and Table 5 for Status Code and Error Code explanations respectively)  
e.g. 1|2010-06-05 12:23:45

#### HTTP GET Request for sending a text Message and receiving Network Operator and cost

```
http://IPADDRESS/bulksms/bulksend.go?username=user@domain.com&password=12345&originator=  
mycompany&phone=44xxxxxxxxxx&showCOST=1&showOPERATORID=1&msgtext=Hello
```

HTTP API request for sending test Message – 'Hello'. Additional information of cost of SMS and operator id of mobile network are returned since parameters showCOST and showOPERATORID are set to '1' (Please visit <http://www.solutions4mobiles.com/downloads/documents/mobile-operators-list.csv> to download a full mobile operators reference list file.)  
Cost is always in EURO (€).

```
showCOST=1  
showOPERATORID=1  
msgtext=Hello
```

Returns OK on successful submission with cost of SMS and operator id of mobile network separated by character '|', or an Error Code. (Refer to Table 2 for Error Code explanations)  
e.g. OK|0.045|101

In case only one of showCOST and showOPERATORID is set to '1' the return result will be:  
For showCOST=1 e.g. OK|0.045  
For showOPERATORID=1 e.g. OK|101

## DELIVERY REPORTS (DLR)

With the SMS submission users may request a Delivery Report for each of their SMS sending requests. To request a Delivery Report users must set parameter showDLR to '1' in the HTTP API SMS submission request (parameter showDLR=1). The request then returns OK and a number for reference. (e.g. OK1234567) Users must use this number in a HTTP API Delivery Report request to retrieve status of the SMS delivery. Not all routes/destination support Delivery Reports. An example HTTP GET request is:

<http://IPADDRESS/bulksms/getDLR.go?id=1234567&phone=56xxxxxxxxxx>

Parameter	Example / Explanation
<b>id</b>	e.g. 1234567
	The reference number returned by the HTTP API SMS submission. Please ask your Account Manager for more information on which route provides DLR.
<b>phone</b>	e.g. 56xxxxxxxxxx
	The full international number of the recipient's mobile device. This excludes the leading '+' or '00'. For example for Chile we use the format 56xxxxxxxxxx
<b>utc</b> (optional)	e.g. +2 (Default 0)
	Parameter for adjusting delivery date to UTC time. (-11 ... +11)
<b>showCOST</b> (optional)	e.g. showCOST=1 (Default 0)
	Set this parameter to '1' for requesting cost for this SMS. Cost is always in EURO (€).
<b>showOPERATORID</b> (optional)	e.g. showOPERATORID=1 (Default 0)
	Set this parameter to '1' for requesting operator id of destination network for this SMS. (Please visit <a href="http://www.solutions4mobiles.com/downloads/documents/mobile-operators-list.csv">http://www.solutions4mobiles.com/downloads/documents/mobile-operators-list.csv</a> to download a full mobile operators reference list file.)

Table 3 – Delivery Report Parameters

All Delivery Report HTTP API requests, return the Status Code and Delivery Date of the SMS separated by character '|', or an Error Code. (Refer to Table 4 and Table 5 for Status Code and Error Code explanations respectively)

e.g. 1|2010-06-05 12:23:45

Additionally, if parameters showDLR and showOPERATORID are specified, it will return the network operator id of the destination number and the cost of the SMS. Cost is always in EURO (€).

e.g 1|2010-06-05 12:23:45|0.045|101

Delivery Status Codes	
Status Code	Description
0	No Status yet received
1	SMS Delivered
2	Failed Delivery (Erroneous Number)
3	Delivery Failed (Message Expired in SMSC)
4	Pending Delivery
5	Expired

Table 4 – Delivery Report Status Codes

Error Codes	
ERROR #	Description
ERROR100	Temporary Internal Server Error. Try again later
ERROR101	Not valid parameters in request
ERROR102	Combination error of phone & id or invalid id

Table 5 – Delivery Report Error Codes

## AUTOMATIC DLR FORWARDING

Automatic DLR Forwarding is an alternative method that users may utilize to receive a Delivery Report of their SMS. Unlike requesting DLR on demand, users can receive their DLR on their system. In order to utilize Automatic DLR Forwarding, users must visit their Control Panel and specify the 'DLR Callback URL' in their 'Profile' page.

e.g. [http://www.test\\_server/test\\_page.php](http://www.test_server/test_page.php)

When an SMS status report is received by MobiWeb SMS Platform, DLR information is forwarded to the user's specified DLR Callback URL as parameters.

Parameter	Example / Explanation
id	e.g. 1234567
	The message reference number.
phone	e.g. 44xxxxxxxxxx
	The full international number of the recipient's mobile device. This excludes the leading '+'.
status	e.g. 1
	The status code for this message. (Refer to Table 4 for Status explanations)
date	e.g. 2005-10-23 20:07:56
	The delivery date that MobiWeb SMS Platform received this status report in 0 UTC.

<b>cost</b>	e.g. 0.045
	The cost of the SMS. Cost is always in EURO (€).
<b>operatorid</b>	e.g. 101
	The network operator id of the destination number. (Please visit <a href="http://www.solutions4mobiles.com/downloads/documents/mobile-operators-list.csv">http://www.solutions4mobiles.com/downloads/documents/mobile-operators-list.csv</a> to download a full mobile operators reference list file.)

Table 6 – Automatic DLR parameters

Mobiweb’s SMS Platform will send out DLR information based on the following schedule:

AUTOMATIC DLR FORWARDING SCHEDULE	
Attempt	Time
1	Instantly send when status is received.
2	After 5 minutes.
3	After 15 minutes
4	After 30 minutes
5	After 1 hour.
6	After 5 hours.
7	After 24 hours.
<b>Resolution</b>	No more attempts.

Table 7 – Automatic DLR Scheduler

**Note:** It is required that users acknowledge receiving DLR information by returning only ‘OK’ to Mobiweb’s SMS Platform.

AUTOMATIC DLR FORWARDING EXAMPLE
<a href="http://www.test_server/test_page.php?id=1234567&amp;phone=44xxxxxxxx&amp;status=1&amp;operatorid=101&amp;cost=0.045&amp;date=2005-10-23 20:07:56">http://www.test_server/test_page.php?id=1234567&amp;phone=44xxxxxxxx&amp;status=1&amp;operatorid=101&amp;cost=0.045&amp;date=2005-10-23 20:07:56</a>
When the delivery report is acknowledged from MobiWeb’s system, we forward delivery report information to the processing script in the URL the user has specified. The user specified ‘DLR Callback URL’ is <a href="http://www.test_server/test_page.php">http://www.test_server/test_page.php</a> . So DLR information is delivered at the following location having the following parameters:
id=1234567 phone=56xxxxxxxxxx status=1 date=2011-02-25 10:07:56 cost=0.045

operatorid=101

Cost is always in EURO (€).

Users, after receiving DLR information and they finish processing the request, have to always return 'OK' to MobiWeb SMS Platform. Failure to do so will result in multiple retries or from losing delivery reports.

## CREDIT BALANCE

An HTTP API request is available for users who wish to retrieve the remaining credits of their accounts. An example of HTTP GET request follows:

<http://IPADDRESS/bulksms/getBALANCE.go?username=userXXXX&password=passXXXX>

Parameter	Example / Explanation
username	e.g. userXXXX
	The username of your account.
password	e.g. passXXXX
	The password of your account

Table 8 – Credit Balance Parameters

An HTTP API Credit Balance request returns the number of available EUROS of the user's account.

e.g. 945.35 €

## APPENDIXES

APPENDIX A	
ESCAPE CHARACTER CODES	
Character	Escape
"	%22
<	%3C
>	%3E
&	%26
+	%2B
#	%23
%	%25
*	%2A
!	%21
,	%2C
'	%27
\	%5C
=	%3D

**APPENDIX B**

**GSM 03.38 7-BIT ALPHABET**

<b>GSM</b>	<b>ISO-8859-1</b>	<b>Unicode</b>	<b>Sign</b>	<b>Name</b>
0x00	0x40	0x0040	@	COMMERCIAL AT
0x01	0xA3	0x00A3	£	POUND SIGN
0x02	0x24	0x0024	\$	DOLLAR SIGN
0x03	0xA5	0x00A5	¥	YEN SIGN
0x04	0xE8	0x00E8	è	LATIN SMALL LETTER E WITH GRAVE
0x05	0xE9	0x00E9	é	LATIN SMALL LETTER E WITH ACUTE
0x06	0xF9	0x00F9	ù	LATIN SMALL LETTER U WITH GRAVE
0x07	0xEC	0x00EC	ì	LATIN SMALL LETTER I WITH GRAVE
0x08	0xF2	0x00F2	ò	LATIN SMALL LETTER O WITH GRAVE
0x09	0xE7	0x00E7	ç	LATIN SMALL LETTER C WITH CEDILLA
0x09*	0xC7	0x00C7	Ç	LATIN CAPITAL LETTER C WITH CEDILLA
0x0A	0x0A	0x000A		LINE FEED
0x0B	0xD8	0x00D8	∅	LATIN CAPITAL LETTER O WITH STROKE
0x0C	0xF8	0x00F8	ø	LATIN SMALL LETTER O WITH STROKE
0x0D	0x0D	0x000D		CARRIAGE RETURN
0x0E	0xC5	0x00C5	Å	LATIN CAPITAL LETTER A WITH RING ABOVE
0x0F	0xE5	0x00E5	å	LATIN SMALL LETTER A WITH RING ABOVE
0x10		0x0394	Δ	GREEK CAPITAL LETTER DELTA
0x11	0x5F	0x005F	—	LOW LINE
0x12		0x03A6	Φ	GREEK CAPITAL LETTER PHI
0x13		0x0393	Γ	GREEK CAPITAL LETTER GAMMA
0x14		0x039B	Λ	GREEK CAPITAL LETTER LAMDA
0x15		0x03A9	Ω	GREEK CAPITAL LETTER OMEGA
0x16		0x03A0	Π	GREEK CAPITAL LETTER PI
0x17		0x03A8	Ψ	GREEK CAPITAL LETTER PSI
0x18		0x03A3	Σ	GREEK CAPITAL LETTER SIGMA
0x19		0x0398	Θ	GREEK CAPITAL LETTER THETA
0x1A		0x039E	Ξ	GREEK CAPITAL LETTER XI
0x1B**	0xA0	0x00A0		ESCAPE TO EXTENSION TABLE
0x1B0A**	0x0C	0x000C		FORM FEED
0x1B14**	0x5E	0x005E	^	CIRCUMFLEX ACCENT
0x1B28**	0x7B	0x007B	{	LEFT CURLY BRACKET
0x1B29**	0x7D	0x007D	}	RIGHT CURLY BRACKET
0x1B2F**	0x5C	0x005C	\	REVERSE SOLIDUS
0x1B3C**	0x5B	0x005B	[	LEFT SQUARE BRACKET
0x1B3D**	0x7E	0x007E	~	TILDE
0x1B3E**	0x5D	0x005D	]	RIGHT SQUARE BRACKET
0x1B40**	0x7C	0x007C		VERTICAL LINE
0x1B65**		0x20AC	€	EURO SIGN
0x1C	0xC6	0x00C6	Æ	LATIN CAPITAL LETTER AE
0x1D	0xE6	0x00E6	æ	LATIN SMALL LETTER AE
0x1E	0xDF	0x00DF	ß	LATIN SMALL LETTER SHARP S (German)
0x1F	0xC9	0x00C9	É	LATIN CAPITAL LETTER E WITH ACUTE
0x20	0x20	0x0020		SPACE
0x21	0x21	0x0021	!	EXCLAMATION MARK
0x22	0x22	0x0022	"	QUOTATION MARK
0x23	0x23	0x0023	#	NUMBER SIGN
0x24	0xA4	0x00A4	¤	CURRENCY SIGN
0x25	0x25	0x0025	%	PERCENT SIGN

0x26	0x26	0x0026	&	AMPERSAND
0x27	0x27	0x0027	'	APOSTROPHE
0x28	0x28	0x0028	(	LEFT PARENTHESIS
0x29	0x29	0x0029	)	RIGHT PARENTHESIS
0x2A	0x2A	0x002A	*	ASTERISK
0x2B	0x2B	0x002B	+	PLUS SIGN
0x2C	0x2C	0x002C	,	COMMA
0x2D	0x2D	0x002D	-	HYPHEN-MINUS
0x2E	0x2E	0x002E	.	FULL STOP
0x2F	0x2F	0x002F	/	SOLIDUS
0x30	0x30	0x0030	0	DIGIT ZERO
0x31	0x31	0x0031	1	DIGIT ONE
0x32	0x32	0x0032	2	DIGIT TWO
0x33	0x33	0x0033	3	DIGIT THREE
0x34	0x34	0x0034	4	DIGIT FOUR
0x35	0x35	0x0035	5	DIGIT FIVE
0x36	0x36	0x0036	6	DIGIT SIX
0x37	0x37	0x0037	7	DIGIT SEVEN
0x38	0x38	0x0038	8	DIGIT EIGHT
0x39	0x39	0x0039	9	DIGIT NINE
0x3A	0x3A	0x003A	:	COLON
0x3B	0x3B	0x003B	;	SEMICOLON
0x3C	0x3C	0x003C	<	LESS-THAN SIGN
0x3D	0x3D	0x003D	=	EQUALS SIGN
0x3E	0x3E	0x003E	>	GREATER-THAN SIGN
0x3F	0x3F	0x003F	?	QUESTION MARK
0x40	0xA1	0x00A1	¡	INVERTED EXCLAMATION MARK
0x41	0x41	0x0041	A	LATIN CAPITAL LETTER A
0x41*		0x0391	Α	GREEK CAPITAL LETTER ALPHA
0x42	0x42	0x0042	B	LATIN CAPITAL LETTER B
0x42*		0x0392	Β	GREEK CAPITAL LETTER BETA
0x43	0x43	0x0043	C	LATIN CAPITAL LETTER C
0x44	0x44	0x0044	D	LATIN CAPITAL LETTER D
0x45	0x45	0x0045	E	LATIN CAPITAL LETTER E
0x45*		0x0395	Ε	GREEK CAPITAL LETTER EPSILON
0x46	0x46	0x0046	F	LATIN CAPITAL LETTER F
0x47	0x47	0x0047	G	LATIN CAPITAL LETTER G
0x48	0x48	0x0048	H	LATIN CAPITAL LETTER H
0x48*		0x0397	Η	GREEK CAPITAL LETTER ETA
0x49	0x49	0x0049	I	LATIN CAPITAL LETTER I
0x49*		0x0399	Ι	GREEK CAPITAL LETTER IOTA
0x4A	0x4A	0x004A	J	LATIN CAPITAL LETTER J
0x4B	0x4B	0x004B	K	LATIN CAPITAL LETTER K
0x4B		0x039A	Κ	GREEK CAPITAL LETTER KAPPA
0x4C	0x4C	0x004C	L	LATIN CAPITAL LETTER L
0x4D	0x4D	0x004D	M	LATIN CAPITAL LETTER M
0x4D*		0x039C	Μ	GREEK CAPITAL LETTER MU
0x4E	0x4E	0x004E	N	LATIN CAPITAL LETTER N
0x4E*		0x039D	Ν	GREEK CAPITAL LETTER NU
0x4F	0x4F	0x004F	O	LATIN CAPITAL LETTER O
0x4F*		0x039F	Ο	GREEK CAPITAL LETTER OMICRON
0x50	0x50	0x0050	P	LATIN CAPITAL LETTER P
0x50*		0x03A1	Ρ	GREEK CAPITAL LETTER RHO

0x51	0x51	0x0051	Q	LATIN CAPITAL LETTER Q
0x52	0x52	0x0052	R	LATIN CAPITAL LETTER R
0x53	0x53	0x0053	S	LATIN CAPITAL LETTER S
0x54	0x54	0x0054	T	LATIN CAPITAL LETTER T
0x54*		0x03A4	T	GREEK CAPITAL LETTER TAU
0x55	0x55	0x0055	U	LATIN CAPITAL LETTER U
0x55*		0x03A5	Y	GREEK CAPITAL LETTER UPSILON
0x56	0x56	0x0056	V	LATIN CAPITAL LETTER V
0x57	0x57	0x0057	W	LATIN CAPITAL LETTER W
0x58	0x58	0x0058	X	LATIN CAPITAL LETTER X
0x58		0x03A7	X	GREEK CAPITAL LETTER CHI
0x59	0x59	0x0059	Y	LATIN CAPITAL LETTER Y
0x5A	0x5A	0x005A	Z	LATIN CAPITAL LETTER Z
0x5A*		0x0396	Z	GREEK CAPITAL LETTER ZETA
0x5B	0xC4	0x00C4	Ä	LATIN CAPITAL LETTER A WITH DIAERESIS
0x5C	0xD6	0x00D6	Ö	LATIN CAPITAL LETTER O WITH DIAERESIS
0x5D	0xD1	0x00D1	Ñ	LATIN CAPITAL LETTER N WITH TILDE
0x5E	0xDC	0x00DC	Ü	LATIN CAPITAL LETTER U WITH DIAERESIS
0x5F	0xA7	0x00A7	§	SECTION SIGN
0x60	0xBF	0x00BF	¿	INVERTED QUESTION MARK
0x61	0x61	0x0061	a	LATIN SMALL LETTER A
0x62	0x62	0x0062	b	LATIN SMALL LETTER B
0x63	0x63	0x0063	c	LATIN SMALL LETTER C
0x64	0x64	0x0064	d	LATIN SMALL LETTER D
0x65	0x65	0x0065	e	LATIN SMALL LETTER E
0x66	0x66	0x0066	f	LATIN SMALL LETTER F
0x67	0x67	0x0067	g	LATIN SMALL LETTER G
0x68	0x68	0x0068	h	LATIN SMALL LETTER H
0x69	0x69	0x0069	i	LATIN SMALL LETTER I
0x6A	0x6A	0x006A	j	LATIN SMALL LETTER J
0x6B	0x6B	0x006B	k	LATIN SMALL LETTER K
0x6C	0x6C	0x006C	l	LATIN SMALL LETTER L
0x6D	0x6D	0x006D	m	LATIN SMALL LETTER M
0x6E	0x6E	0x006E	n	LATIN SMALL LETTER N
0x6F	0x6F	0x006F	o	LATIN SMALL LETTER O
0x70	0x70	0x0070	p	LATIN SMALL LETTER P
0x71	0x71	0x0071	q	LATIN SMALL LETTER Q
0x72	0x72	0x0072	r	LATIN SMALL LETTER R
0x73	0x73	0x0073	s	LATIN SMALL LETTER S
0x74	0x74	0x0074	t	LATIN SMALL LETTER T
0x75	0x75	0x0075	u	LATIN SMALL LETTER U
0x76	0x76	0x0076	v	LATIN SMALL LETTER V
0x77	0x77	0x0077	w	LATIN SMALL LETTER W
0x78	0x78	0x0078	x	LATIN SMALL LETTER X
0x79	0x79	0x0079	y	LATIN SMALL LETTER Y
0x7A	0x7A	0x007A	z	LATIN SMALL LETTER Z
0x7B	0xE4	0x00E4	ä	LATIN SMALL LETTER A WITH DIAERESIS
0x7C	0xF6	0x00F6	ö	LATIN SMALL LETTER O WITH DIAERESIS
0x7D	0xF1	0x00F1	ñ	LATIN SMALL LETTER N WITH TILDE
0x7E	0xFC	0x00FC	ü	LATIN SMALL LETTER U WITH DIAERESIS
0x7F	0xE0	0x00E0	à	LATIN SMALL LETTER A WITH GRAVE

\*\* : These characters belong to the GSM Extended Character Table and count as 2 characters due to their larger size. Character 0x1B is used always as the start of such a character.

\* : Alternative Encoding

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