



MOBBIS LLC , 1/21/2009

HTTP API 2.0

Functional Specification



1. Introduction.....	3
1.1. Document identifier.....	3
1.2. Scope.....	3
1.3. Definition of terms.....	3
2. References.....	3
3. Overview.....	3
4. HTTP API interface description.....	4
5. Description of the supported functions.....	4
5.1. Register new user account (for individual persons only).....	5
5.2. Activate account.....	5
5.3. Send message.....	5
5.4. Schedule to send SMS.....	5
5.5. Request user balance.....	6
5.6. Request message status.....	6
6. HTTP/S requests description.....	6
7. Preconditions, restrictions.....	8
7.1. Preconditions.....	8
7.2. Restrictions.....	8
8. Appendix.....	8
8.1. SMS Status values.....	8
8.2. Error codes.....	9
9. Examples.....	9
9.1. C#.NET.....	9
9.2. Visual Basic 2005.....	10
9.3. PHP 5.2.1.....	10
9.4. VBScript.....	10

1. Introduction

1.1. *Document identifier*

This is the specification of the HTTP API 2.0 implemented by MOBBIS LLC.

1.2. *Scope*

This document contains the definition of the HTTP API, description of the HTTP requests and the possible values of return codes to provide detailed information concerning the status of the request sent to the server. It also contains the definition of the terms and acronyms used in the text and references to the useful links.

1.3. *Definition of terms*

HTTPS - see , <http://en.wikipedia.org/wiki/HTTPS>

SMS - see [http://en.wikipedia.org/wiki/SMS_\(messaging\)](http://en.wikipedia.org/wiki/SMS_(messaging))

MOBIPACE - see <http://www.mobipace.com>

ASCII - <http://en.wikipedia.org/wiki/ASCII>

UNICODE - <http://en.wikipedia.org/wiki/Unicode>

2. References

[1]. <http://www.mobipace.com>

[2]. <http://www.mobbis.mobi>

[3]. <http://www.mobbis.am>

[4]. http://en.wikipedia.org/wiki/List_of_Unicode_characters

[5]. <http://en.wikipedia.org/wiki/ASCII>

3. Overview

HTTP API is platform independent HTTP/S protocol based protocol which allows to connect/work directly to/with MOBIPACE server, and provides an opportunity to send the messages (SMS, WapPush, MMS) using simple HTTP requests through MOBBIS SMS gateway to the cell phones.

User can develop the front-end for the API independent of platform, operation system, and programming language and send SMS to more than 200 countries of the world through MOBBIS gateway.

HTTP API consists of simple HTTP requests which can be also processed e.g. by using any Web browser (IE, Mozilla Firefox, Opera...).

The responses of the requests contain detailed information about the status of the request and the code indicating the current status.

If the program doesn't support UNICODE format, requests must contain only Latin symbols. Otherwise your message will be damaged and won't be delivered to the recipient.

Full list of countries and operators to which is possible to send messages can be found on <http://www.mobipace.com> .

4. HTTP API interface description

HTTP API consists of the HTTP/S requests, which common format is:

```
https://www.mobipace.com/API_2_0/HTTP_API.aspx?  
function=FUNCTION_NAME&username=USER_NAME&password=PASSWORD&FUNCTI  
ON_PARAM_1=VALUE_1&...&FUNCTION_PARAM_N=VALUE_N,
```

where,

- FUNCTION_NAME is the name of corresponding request (mandatory option)
- USER_NAME/PASSWORD is the registered user login/password (mandatory option)
- FUNCTION_PARAM_K is k-th parameter of corresponding request

(required depending on the value of FUNCTION_NAME)

- VALUE_K is a value of the FUNCTION_PARAM_K

(required depending on the value of FUNCTION_NAME)

The functionality is being defined by the value of the parameter “function” (see section 6 for details).

All requests require verification by user name and password (the following part of the request is common for all) which gives an opportunity to not keep the permanent connection with the MOBBIS gateway:

```
https://www.mobipace.com/API\_2\_0/HTTP\_API.aspx?  
function=FUNCTION\_NAME&username=USER\_NAME&password=PASSWORD ...
```

Example:

```
https://www.mobipace.com/API\_2\_0/HTTP\_API.aspx?  
function=querybalance&username=37491xxxxxx&password=xxxxxx
```

The MOBIPACE server processes this requests and returns corresponding response to the client either error message or info message.

The common format of the error messages is given below:

“Err: <error_code> : <Info message>”, where the <error_code> indicates the type of the issue (8.2), <Info message> contains the error message in text form.

The common format of the info messages is given below:

“ID: <value> : <Info message>”, where the <value> indicates the type of the info (8.2), <Info message> contains the error message in text form.

5. Description of the supported functions

The list of the operations which can be performed through API requests is described below. The detailed descriptions of the corresponding HTTP/S functions and requests

are given in the section [6](#) . The descriptions of the error/info codes which can be returned by the API are described in the section [8.2](#).

5.1. Register new user account (for individual persons only)

Registers a new user account by the specified cell phone number, which will be used as username in the future.

The system creates a new account but doesn't activate it. The activation code is being sent to the specified cell phone number. If the type of the currency is not specified, the "EUR" will be considered as the default currency type. The default language will be set to ENG, which can be changed in the future from the MOBIPACE's web interface (www.mobipace.com).

This request works for the individual persons only, which username is the cell phone numbers. Refer to www.mobipace.com for define differences between individual and juridical types of the users.

5.2. Activate account

Activate the already registered inactive user account by the specified activation code. The already registered user account is valid for the web based project MOBIPACE (www.mobipace.com) also, provides an interface to send/schedule and view the statuses of the messages.

5.3. Send message

Send the message through the MOBBIS gateway to the cell phone specified as recipient. It is possible to specify the type of the message - Wap Push or SMS.

All the messages have their own unique message reference codes (ID), which can be used in future to request the status of the message. Response of the sent request is either message reference of the message generated by the API automatically, or the error code in case of any errors.

If the size of one message exceeds 160 symbols (the default maximum length of the SMS message), the message will be automatically split into corresponding count of messages and then sent to the recipient sequentially.

It is possible to send both UNICODE (see [\[4\]](#)) and ASCII (see [\[5\]](#)) type of messages.

Note, that the message will be considered as UNICODE message if it contains even one UNICODE symbol. In this case the count of the messages can be increased.

Note, for registered individual persons the sender field of the message will be set to username (cell phone number).

5.4. Schedule to send SMS

Schedule the message to send on specified date/time to the specified recipient. Note, that the date/time should be specified in UTC international format. The function returns the message reference of the scheduled message to handle the message in the future. Or, error info if there are some issues.

If the size of one message exceeds 160 symbols (the maximum length of the SMS message), the message will be automatically split into corresponding count of messages and then sent to the recipient sequentially.

It is possible to send both UNICODE (see [\[4\]](#)) and ASCII (see [\[5\]](#)) type of messages.

Note, that the message will be considered as UNICODE message if it contains even one UNICODE symbol. In this case the count of the messages can be increased.

Note, for registered individual persons the sender field of the message will be set to username (cell phone number).

5.5. Request user balance

Return the current balance of the user in the type of the currency set for the specified user, or error code in case of any issues.

5.6. Request message status

Return the status of the message by the specified message reference, or error code in case of any issues.

6.HTTP/S requests description

The table below lists the all supported values of the parameter “function” and the list of the HTTP request parameters which are needed to process to that function.

Function	Parameters	Response	Description
send	<ol style="list-style-type: none">username - Username of the registered user.password - password of the specified user.sender* – the name of the senderrecipient – the phone number of the recipient. This string should contain only digits.body – ASCII or UNICODE textwap_push* – specifies whether the message should be considered as Wap Push message. Will be considered as false if not specified	Message ID by the following syntax “ID: xxxx” if gateway accepts the SMS, otherwise error code by the following syntax “Er: code : <i>error text</i> ”.	Sends SMS text from the specified user to the specified recipient, and decreases the balance of the curret user.
schedule	<ol style="list-style-type: none">username - Username of the registered user.password - password of the specified user.sender* – the name of the senderrecipient – the phone number of the recipient. This string should contain only digits.body – ASCII or UNICODE textwap_push* – specifies whether the message should be considered as Wap Push message. Will be considered as false if not specifiedsendingdate — the scheduled date/time in	Message ID by the following syntax “ID: xxxx” if system sucessfully schedules the message, otherwise error code by the following syntax “Err: code : <i>error text</i> ”.	Schedules the message for the specified date/time

	UTC		
register	<ol style="list-style-type: none"> 1. username - Username of the user (actual cell phone number) 2. password - password of the specified user. 3. email — the e-mail of the user needed for password recovery 4. question — control question for password recovery 5. answer — answer of the control question for password recovery 6. currency* - type of the currency (EUR, AMD, USD or RUR). Will be considered as EUR if not specified. 	Success code if user has been registered successfully — “ID: xxxx”, otherwise an error code by the following syntax “Err: code : <i>error text</i> ”.	Registers a new user account with inactivate status, generates and sends an activation code to the cell phone number specified as "username"
activate	<ol style="list-style-type: none"> 1. username - Username of the registered user. 2. password - password of the specified user. 3. activation_code — the code generated and send to the cell phone during the registration 	Success code if user has been activated successfully — “ID: xxxx”, otherwise an error code by the following syntax “Err: code : <i>error text</i> ”.	Activates the user account by the activation code generated and sent by function "register"
delete	<ol style="list-style-type: none"> 1. username - Username of the registered user. 2. password - password of the specified user. 	Success code if user account has been deleted successfully — “ID: xxxx”, otherwise an error code by the following syntax “Err: code : <i>error text</i> ”.	Deletes the user account.
querybalance	<ol style="list-style-type: none"> 1. username - Username of the registered user. 2. password – password of the specified user. 	The balance of the specified user by the following syntax “ID: balance : <i>info text</i> ” if user is registered, otherwise error code (<i>Err: code : Error message</i>).	Returns the balance of the specified user.
querymessage	<ol style="list-style-type: none"> 1. username - Username of the registered user. 2. password - password of the specified user. 3. messageref – the reference (ID) of the 	Status ID of the SMS by the following syntax “ID: statusID : <i>Info message</i> ” or error code by the following syntax	Returns the status of the message

	message which status should be returned	“Err: code : Error message”. The list of the possible status values are described in section 8.1	
--	---	---	--

- By default “**Sender**” ID is your login. Otherwise you have to contact us to buy “**SenderID**”.
- The fields marked with asterisk (*) are not mandatory.

7. Preconditions, restrictions

7.1. Preconditions

The registration/activation/delete is enabled for the physical persons only in the API.

If the API should be processed for the juridical persons also, it is required to sign the contract with MOBBIS LLC for registering a new account and fixing the field “subject” for outgoing messages.

7.2. Restrictions

HTTP API is copyrighted. This product is free only for using.

Also you can use HTTP API in your commercial or noncommercial products.

8. Appendix

8.1. SMS Status values

Status	Value	Description
Pending	0	The status of the SMS message is unknown, SMS is in queue.
Sent	1	The SMS message is sent and delivered.
DeliveredToNetwork	2	The SMS message is delivered to operator.
TimeOut	3	The connection is interrupted, operator may be overloaded.
OutOfBalance	4	Out of balance, SMS is not delivered.
Scheduled	5	The SMS message will be sent at the scheduled time.
DeliveryToGateway	6	The SMS message is delivered to gateway but status unknown.
IncorrectRecipient	7	The format of the recipient is incorrect.
NotSent	8	Wrong destination or internal error.
Unknown	9	Incorrect message reference (ID)

8.2. Error codes

NOTE: The errors 712 (OperationTimedOut) and 713 (Unknown) unique errors which can occur inside of the system. The text followed after those codes in the response specify the type of the issue (e.g. “Unable to connect to router”).

Please send the response message with the corresponding request to MOBIPACE team (support@mobipace.com) if you encounter those errors.

Error	Code	Description
IncorrectParameters	700	Incorrect parameters in user's request
AuthenticationFailed	701	Incorrect username or password
OutOfBalance	702	Not enough balance to send SMS message
IncorrectMessageRef	703	Incorrect message references
IncorrectRecipient	704	The SMS message has not been sent because the recipient format is incorrect
IncorrectDateTimeFormat	705	The format of the date/time is incorrect
OperationSucceeded	706	The operation (activate, register) has been processed successfully
IncorrectActivationCode	707	The activation code is incorrect
OutOfDateTime	708	The specified date/time (for function 'schedule') is out of date
IncorrectCurrency	709	The specified currency is incorrect
IncorrectEmailFormat	710	The format of the specified email is incorrect
UserIsAlreadyRegistered	711	User account with specified username is already registered
OperationTimeOut	712	The message send operation timed out
UnknownError	713	Indicates an error occurred in the system
EmailsAlreadyUsed	714	Indicates that user account with the specified email is already registered

9. Examples

9.1. C#.NET

```
public static string Send(string pSender, string pRecipient, string pBody,
                        string UserName, string Password)
{
    WebClient web = new WebClient();
    web.Proxy = null;
    web.QueryString.Add("function", "send");
    web.QueryString.Add("username", UserName);
    web.QueryString.Add("password", Password);
    web.QueryString.Add("sender", pSender);
    web.QueryString.Add("recipient", pRecipient);
    web.QueryString.Add("body", pBody);

    string default_url = "https://www.mobipace.com/API_2_0/HTTP_API.aspx";
```

```

return web.DownloadString(default_url);
}

```

9.2. Visual Basic 2005

```

Public Function Send(ByVal pSender As String, ByVal pRecipient As String,
                    ByVal pBody As String, ByVal UserName As String,
                    ByVal Password As String) As String
    Dim web As WebClient = New WebClient()
    web.Proxy = Nothing
    web.QueryString.Add("function", "send")
    web.QueryString.Add("username", UserName)
    web.QueryString.Add("password", Password)
    web.QueryString.Add("sender", pSender)
    web.QueryString.Add("recipient", pRecipient)
    web.QueryString.Add("body", pBody)

    Dim default_url As String = "https://www.mobipace.com/API_2_0/HTTP_API.aspx"
    Return web.DownloadString(default_url)
End Function

```

9.3. PHP 5.2.1

```

function Send($pSender, $pRecipient, $pBody, $UserName,$Password)
{
    $default_url = "https://www.mobipace.com/API_2_0/HTTP_API.aspx";
    $data = array('function'=>'send',
                 'username'=>$UserName,
                 'password'=>$Password,
                 'sender'=>$pSender,
                 'recipient'=>$pRecipient,
                 'body'=>urlencode(mb_convert_encoding($pBody, "ISO-8859-1")));
    $url = $default_url.'?'.http_build_query($data);

    $ch = curl_init($url);
    curl_setopt($ch, CURLOPT_SSL_VERIFYPEER, FALSE);
    $d = curl_exec($ch);
    curl_close($ch);
    return $d;
}

```

9.4. VBScript

```

Function Send(pSender, pRecipient, pBody, UserName,Password)
    const SXH_OPTION_URL_CODEPAGE = 0

    Set sxh = CreateObject("MSXML2.ServerXMLHTTP.3.0")
    sxh.setOption SXH_OPTION_URL_CODEPAGE, "ISO-8859-1"
    URL = "https://www.mobipace.com/API_2_0/HTTP_API.aspx?function=send
&username="&UserName&"&password="&Password&"&sender="&pSender&"&recipient="&pRecipient&
"&body="&pBody
    sxh.open "GET", URL, FALSE
    sxh.send

    WScript.Echo sxh.responseText
    set sxh = nothing
End Function

```