



## BITÉ SMPP service

### *Information for Service Providers*

This document describes basic usage information of BITÉ SMPP service for Service Providers (SP). BITÉ SMPP service is used to proxy short messages between SMS center and SP and visa-versa.

#### **Server information**

<b>IP address</b>	213.226.130.226
<b>Port</b>	2325
<b>Protocol</b>	SMPP v3.4

Connection information including SMPP system ID and password is provided per contract basis. Please note that access to BITÉ SMPP service is restricted to single or range of IP addresses provided by SP.

#### **Routing**

SP will receive those MO messages destined to the short (e.g. 1599) or long (e.g. 37069900000) number assigned to the SP, if any. Additionally, assigned numbers might be limited by one or several keywords in the short message.

#### **Charging**

For each successful MT message sending attempt by SP there is a corresponding transaction logged. Price per single MT message depends on the destination number provided. Usually there are different tariffs applied for messages destined to the BITE network, networks within the SP country of origin (Lithuania or Latvia) or to the foreign networks.

#### **Protocol information**

SMS multiplexor implements a set of Protocol Data Units (PDUs) as per SMPP v.3.4 Issue 1.2.



### **Default character set**

In case *submit\_sm* or *deliver\_sm* PDU contains *coding* field value set to 0 (default alphabet), BITÉ SMPP service will treat *short\_message* data as string coded in **GSM alphabet**.

### **Delivery reports**

BITÉ SMPP service provides delivery reports if requested by SP with *registered\_delivery* flag in *submit\_sm* PDU. Information in *deliver\_sm* PDU relating to delivery report is stored in the following TLV fields: *receipted\_message\_id* (0x001E) and *message\_state* (0x0427). *receipted\_message\_id* holds message id previously returned by *submit\_sm\_resp* and *message\_state* contains message delivery status as indicated in section 5.2.28 of SMPP v.3.4. Additionally, for delivery report BITÉ SMPP service will set *short\_message* mandatory field with the value similar to the following: *id:12345678 stat:DELIVRD*. This should help non SMPP v.3.4 compliant clients to extract delivery report information.

### **Number of outstanding SMPP operations**

BITÉ SMPP service has a limit of 10 outstanding (unacknowledged) operations for each SP. It means that if SP hasn't sent an answer to 10 subsequent PDUs, BITÉ SMPP service won't delivery any messages until it receives answer from SP to some of previously sent messages. We recommend that similar strategy for number of outstanding operations should be followed at SP level as well.

### **Source address**

By default, source address of *submit\_sm* PDU is limited to any of the number assigned to SP as described in the *Routing* section. Additionally, SP might request for allowance of any (e.g. alphanumeric) sender address which must follow SMPP specification.

### **Tariff information encapsulation**

Currently charging is only based on rules described in the *Charging* section of this document. Therefore any information provided in *submit\_sm* PDU about the tariff class is not taken into account.

### **Support**

In case of failure detected in BITÉ SMPP service or any other technical questions or issues should be redirect to Partner Support by emailing [partner\\_support@bite.it](mailto:partner_support@bite.it).

### **Known issues**



- Currently non implemented PDUs are as follows: *submit\_sm\_multi* and *data\_sm*.

## **FAQ**

### **1. Does the price of SMS sending through SMPP is the same as sending it through SOAP?**

Usually yes, but this is contract dependant. Please keep in mind that in most cases there are three different prices according to the destination – BITE network, foreign networks within same country (LT or LV) and destinations abroad.

### **2. Will we get any delivery report sending SMS through SMPP?**

Yes, if you set a *registered delivery* flag in *submit\_sm* PDU as described above. Please be aware that delivery report receipt is subject to charging conditions.

### **3. How we will know that account really received SMS?**

You might use delivery reports to check about short message delivery status.

### **4. Do we need for SMS sending through SMPP use account MSISDN or AccountID?**

Currently destination always has to be set to the recipient's MSISDN (as per E.164). Please always use international number format (e.g. 37069900000) and set TON to "International" (1).

### **5. What happens when SMS is sent for account, who doesn't have money in his bill account?**

Message recipient is never charged when short message is sent over SMPP. As long as recipient is active in BITE network, message will be delivered.

### **6. Can I send SMS through SMPP in Russian?**

Yes, you need to set *data\_coding* to 8 in SMPP *submit\_sm* PDU and encode message data in UCS2 (UTF-16BE) character set. Please be aware that maximum Unicode message length is 70 bytes (2 bytes per single character).