

Technical Specification

SMPP INTERFACE 1.0
TO THE QUIOS MESSAGING PLATFORM

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1 Introduction

Authorized users of the Quios Messaging Platform can programmatically submit messages for delivery to handsets worldwide through a standard SMPP stream. Quios is ideal for sending large numbers of SMSs directly from a database or other content provider application.

The SMPP Interface to the Quios Messaging Platform conforms to the SMPP Protocol Specification v3.4, except as noted in Section 2.2. Refer to that specification for details on constructing a calling application to access Quios via SMPP.

The sender receives standard SMPP responses indicating the success or failure of the messages.

2 Quios implementation of SMPP

2.1 Connecting through SMPP

The Quios Messaging Platform can act as an SMPP SMSC. The Calling Application can send requests directly using SMPP v3.4 to:

smpp.ewingz.com port 5555

2.2 PDUs supported by Quios

Quios supports the PDUs listed in Table 2-1.

Table 2-1 PDUs supported by Quios

PDU	Response
bind_transmitter	bind_transmitter_resp
bind_receiver	bind_receiver_resp
bind_transceiver	bind_transceiver_resp
submit_sm	submit_sm_resp
query_sm	query_sm_resp
deliver_sm	deliver_sm_resp
enquire_link	enquire_link_resp

If the Calling Application is bound as a receiver or tranceiver, then Quios supports <code>deliver_sm</code>. In <code>submit_sm</code>, in the registered delivery field, only a registered delivery value of 1 or 0 is valid. Quios will generate a response to <code>enquire_link</code>. Use your Quios account username and password for <code>system_id</code> and <code>password</code>.

Quios sends two types of <code>deliver_sm</code> transmissions: delivery receipts and MO messages.

Quios adheres to the SMPP spec except in the following case: if the Calling Application sends an illegal PDU (i.e. one not listed in Table 4-1), then Quios returns a NACK (generic_nack) instead of returning the same response with an error code. Quios returns a NACK when the PDU is illegal for the current connection type (e.g. submit_sm when bound as a receiver), and when a PDU is generated at the wrong time (e.g. submit_sm sent before bind).

These situations should occur only during development; such errors are not expected for production Calling Applications.

2.3 Recommended values for SMPP <code>submit_sm</code> parameter set

Quios uses a variety of downstream providers for message delivery, choosing the provider based on each message's requirements for cost, coverage, and features. Quios passes the submission to its downstream providers without translating or altering the contents. Each provider supports a different subset of the SMPP functionality. The commonly-used parameters will usually work as described in the SMPP specification, but the more unusual parameters can have unexpected consequences on some providers. Table 2-2 lists the mandatory and optional values required for successful message delivery. Deviation from the values listed in Table 2-2 can cause unpredictable results.

If you need to use values not listed in Table 2-2, contact Quios customer support to discuss your routing needs.

See section 2.4 for an example of basic submit sm parameters.

Table 2-2 Recommended submit_sm parameter values

Parameter	Mandatory value	Optional values and meaning	
service_type	"		
source_addr_ton	n/a	International	1
		National	2
		Alphanumeric	5
source_addr_npi	0x01		
destination_addr	n/a		
dest_addr_npi	0x01		
esm_class		Text, reply path off	0
		Text, reply path on	128
		UDHI indicator,	64
		reply path off	
		UDHI indicator,	192
		reply path on	
protocol_id	0x00		
priority_flag	0x03		
scheduled_delivery_time	"		
validity_period	11		
registered_delivery	n/a	On	29
		Off	16
replace_if_present_flag	0x00		
data_coding		GSM0338, Flash	240
		GSM 0338,	241
		Memory	
		Binary	4
		UCS2	8
sm_default_msg_id	0x00		
short_message	n/a		
sm_length	n/a		

2.4 Example SMPP submit sm parameter set

```
service_type
source_addr
source_addr_ton
source_addr_npi
destination_addr
dest_addr_ton
esm_class
protocol_id
priority_flag
schedule_delivery_time
validity_period
registered_delivery
registered_delivery
sm_default_msg_id
short_message
source_addr
e> 0,
```

2.5 Quios responses

The SMPP response returns the Quios response codes. These codes are listed in the document *Quios Response Codes*, available from Quios technical support.