

SMS Probe 2.6

Parameters and Metrics

1 Introduction

This document describes the parameters and metrics of SMS Probe in brief. For a more detailed description please refer to the SMS Probe Administration and Reference guide.

2 Parameters

The following set of parameters is used to configure SMS Probe per measurement.

host	Defines the IP address or hostname of the SMS Probe server used for sending SMS.
port	Defines the IP port of the SMS Probe server used for sending SMS. The standard port is 6844.
to	<p>Specifies the destination MSISDN. For the use-cases SMS Ping and SMS Mobile-to-Mobile this is the MSISDN of the receiving SIM card. For the use-cases SMS Query and SMS-to-Email it is the service number of the according service.</p> <p>For professional license: To receive with SMPP, specify this parameter in URL form, e.g. <code>smpp://<smppuser>:<smpppasswd>@<smppserver>:<port>/<MSISDN></code>.</p>
from	<p>Specifies the MSISDN used to send SMS from. This is the MSISDN of the SIM card used in the sending SMS Probe server.</p> <p>For professional license: To send with SMPP, specify this parameter in URL form, e.g. <code>smpp://<smppuser>:<smpppasswd>@<smppserver>:<port>/<MSISDN></code>.</p>
text	<p>Specifies the text of the Short Message. If the length exceeds 160 characters, the Short Message will be separated and sent as multiple Sort Messages and concatenated at the receiver.</p> <p>In case of MMS to Email, the text can contain a place holder (%s) for the Email address. The Email address will be inserted before the MMS is sent.</p>
match	Specifies the pattern match string used to check the incoming Short Message or Email. The syntax is similar to the standard Web search engine syntax. Pattern are closed by double quotes (") which must be quoted by a backslash (\) in front of it. A plus sign (+) in front of the pattern means that the pattern must be part of the text, a minus sign (-) means

that the pattern must not be part of the text. If the first character of the pattern string is a minus sign, a blank () must be inserted before it. The patterns are case-insensitive and are combined by a logical AND.

Examples:

+\"test\" – the pattern 'test' must occur

+\"test\" -\"sms\" – the pattern 'test' must occur and the pattern 'sms' must not occur

-\"test\" – the pattern 'test' must not occur (one blank space in front of the minus sign)

recv_host	Defines the IP address or hostname of the SMS Probe server used for receiving SMS. If the same SMS Probe server is used for sending and receiving, leave it blank or enter the same value as for Target Host.
recv_port	Defines the IP port of the SMS Probe server used for receiving SMS. The standard port is 6844. If the same SMS Probe server is used for sending and receiving, leave it blank or enter the same value as for Port.
email_addr	Specifies the Email address for the use-case SMS-to-Email.
pop_url	Specifies POP server parameters used for retrieving Email in the use-case SMS-to-Email. The format is URL-based: Protocol://User:Password@Server:Port Protocol: 'pop' or 'pop3' for POP3, 'pop3s' (for POP over SSL) User: POP3 username Password: POP3 password Server: Name or IP address of POP server Port: IP port of POP server (default is 110 for POP and 995 for POP over SSL) Example: pop3://foo:bar@pop.mydomain/ – POP server at default port pop3s://foo:bar@pop.mydomain:1008 – POP over SSL server at port 1008
smcsc_addr	Optionally, a different Service Centre Address can be speci-

fied.

csv

Generate output suitable for HP SiteScope and ADVENAGE
SQM Data Collector

3 Metrics

The following metrics are determined by the probe:

Value Name	For HP SiteScope & SQM Data Collector: CSV Index	For HP OVIS: OVIS Metric Name	Type	Unit	Description
Sample times-tamp	Not available	OVIS_METRIC_TIME	Long	sec	Start of sending timestamp in seconds since seconds since 1.1.1970 00:00 a.m. This parameter is used by OVIS internally
Time zone	Not available	OVIS_METRIC_TIME-ZONE	Long	time zone	Local time zone. This parameter is used by OVIS internally
Availability	0	OVIS_METRIC_AVAIL-ABILITY	Long	-	Availability of the service, can be 0 or 1
RTT	1	OVIS_METRIC_RE-SPONSETIME	Double	sec	Round trip time of the test message (time elapsed between message delivery started and message retrieval ended)
Send Time	2	OVIS_METRIC_1	Double	sec	Time required for the send request to be executed. This is the time the modem takes to execute the AT command to send the message.
Transfer Time	3	OVIS_METRIC_2	Double	sec	Time the message is in transfer, i.e. the time between completion of sending and completion of receiving.
Signal Strength A	4	OVIS_METRIC_3	double	Count	Signal strength value of the sending modem (0-31, 99) 0: -113 dBm or less 1: -111 dBm 2...30: -109... -53 dBm 31: -51 dBm or greater 99: not known or not detectable
Signal Strength B	5	OVIS_METRIC_4	double	Count	Signal strength value of the receiving modem (0-31, 99) 0: -113 dBm or less 1: -111 dBm 2...30: -109... -53 dBm 31: -51 dBm or greater 99: not known or not detectable

The following diagram (Figure 1) shows the metrics in the context of requests and responses between the SMS Probe server and the SM service:

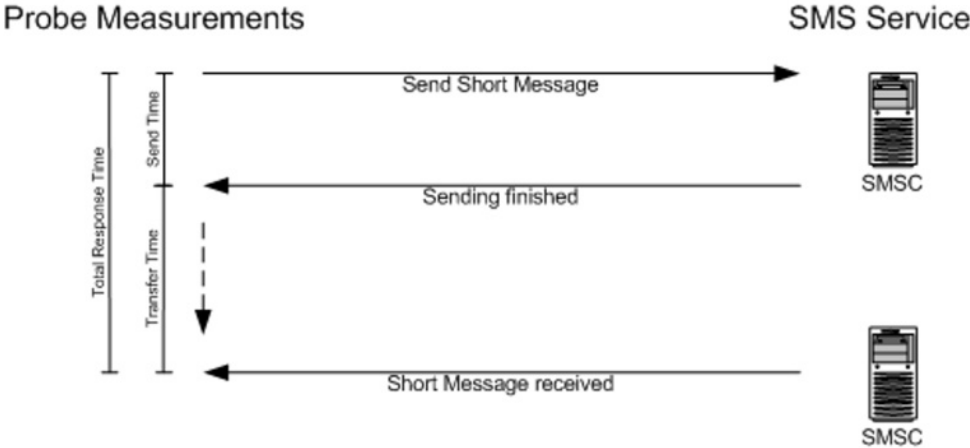


Figure 1: SMS Probe Measurements