SMPP PROTOCOL

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AGILE TELECOM
SMPP PROTOCOL

1. SMPP PROTOCOL

SMPP standard is a protocol developed to send SMS using TCP/IP connections.
In order to use it, it's necessary to develop a software that manages connections on "transceiver" mode (TX) to send SMS and a connection on "receiver" mode (RX) in order to receive delivery reports.
Alternatively it's possible to use a connection in "transceiver" mode (TRX) that will allows to send SMS and receive deliveries over a single connection.
Connections should be of asynchronous type.

Connection parameters for SMPP server are the following:

Host	smpp.agiletelecom.com
Mode	Transmitter + Receiver or Transceiver in asynchronous mode
Port	7000
System Id	user name of the account
Password	password of the account
TON	1
NPI	1
DCS	0

Connection parameters for TLS-SMPP server are the following:

Host	tlssmpp.agiletelecom.com
Mode	Transmitter + Receiver or Transceiver in asynchronous mode
Port	2776
System Id	user name of the account
Password	password of the account
TON	1
NPI	1
DCS	0

You can download the certificate for your TLS smpp client with this command:
- openssl s_client -connect tlssmpp.agiletelecom.com:2776

In order to keep the connection alive it's necessary to send an Enquire_Link command every 60 seconds.
Destination number should be specified without the leading "+" or "00" (example. +393331234333 should be sent as 393331234333)

More information about the SMPP protocol could be found at the following link
http://resources.agiletelecom.com/Updates/SMPPv34.pdf.

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2. SMPP Errors

Following the possible errors managed by our SMPP server.

ERROR TYPE	ERROR NUMBER	DESCRIPTION
ESME_RSERTYPDENIED	259	Not enough credit
ESME_RALYBND	5	Too many opened sessions
ESME_RINVPASWD	14	Wrong user/password

3. SUPPORTED CHARACTERS

Here follows the table of the supported characters. Our system supports all the standard GSM characters, but not all the carriers support them all, so it's strongly suggested to test all the special characters over the carrier over the carriers you want to send to.

Dec		0	16	32	48	64	80	96	112
	Hex	0	10	20	30	40	50	60	70
0	0	@	Δ	SP	0	¡	P		p
1	1	£	_	!	1	A	Q	a	q
2	2	$	Φ	"	2	B	R	b	r
3	3	¥	Γ	#	3	C	S	c	s
4	4	è	Λ	¤	4	D	T	d	t
5	5	é	Ω	%	5	E	U	e	u
6	6	ù	Π	&	6	F	V	f	v
7	7	ì	Ψ	'	7	G	W	g	w
8	8	ò	Σ	(	8	H	X	h	x
9	9	Ç	Θ	)	9	I	Y	i	y
10	A	LF	Ξ	*	:	J	Z	j	z
11	B	Ø	<ESC>	+	;	K	Ä	k	ä
12	C	ø	Æ	,	<	L	Ö	l	ö
13	D	CR	æ	-	=	M	Ñ	m	ñ
14	E	Å		.	>	N	Ü	n	ü
15	F	å	É	/	?	O	§	o	à

4. CREDIT CHECK

Our credit check service allows to keep track in any moment of the remaining credit on your account using a simple HTTP-GET request HTTP-GET at the following url: http://www.agiletelecom.com/credit.aspx.

Parameters of the call are the following:
- **smsUSER** = username of the account
- **smsPASSWORD** = password of the account

example: http://www.agiletelecom.com/credit.aspx?smsUSER=MyUser&smsPASSWORD=MyPassword

Possible answers of the service:

Response of the ASPX page	Description
No answer	Timeout/wrong url/server down
+Ok xxxxx	Credit of the account (in thousands of Euro) is xxxxx
-Err 001	Wrong user name and/or password

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In times like these where the consumer is constantly "bombardered" by an emormous quantity of information and proposals, the value of SMS as a business communication channel becomes evident: it is personal and direct, it is always able to effectively reach the decisive attention of the consumer.

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