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SMS Character Set Requirements

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SMS CHARACTER SET COMPATIBILITY

(EXCL. FTP)

The list of supported characters are part of the GSM 7 bit default alphabet, which can be found here:

HEX	Character Name	Character	ISO-8859-1 Hex
0x00	COMMERCIAL AT	@	40
0X01	POUND SIGN	£	A3
0X02	DOLLAR SIGN	\$	24
0X03	YEN SIGN	¥	A5
0X04	LATIN SMALL LETTER E WITH GRAVE	è	E8
0X05	LATIN SMALL LETTER E WITH ACUTE	é	E9
0X06	LATIN SMALL LETTER U WITH GRAVE	ù	F9
0X07	LATIN SMALL LETTER I WITH GRAVE	ì	EC
0X08	LATIN SMALL LETTER O WITH GRAVE	ò	F2
0X09	LATIN SMALL LETTER C WITH CEDILLA (changed case)	Ç	C7
0X0A	LINE FEED		A
0X0B	LATIN CAPITAL LETTER O WITH STROKE	Ø	D8
0X0C	LATIN SMALL LETTER O WITH STROKE	ø	F8
0X0D	Carriage Return		D
0X0E	LATIN CAPITAL LETTER A WITH RING ABOVE	Å	C5
0X0F	LATIN SMALL LETTER A WITH RING ABOVE	å	E5
0X10	GREEK CAPITAL LETTER DELTA	Δ	
0X11	LOW LINE	_	5F
0X12	GREEK CAPITAL LETTER PHI	Φ	
0X13	GREEK CAPITAL LETTER GAMMA	Γ	
0X14	GREEK CAPITAL LETTER LAMBDA	Λ	
0X15	GREEK CAPITAL LETTER OMEGA	Ω	
0X16	GREEK CAPITAL LETTER PI	Π	
0X17	GREEK CAPITAL LETTER PSI	Ψ	
0X18	GREEK CAPITAL LETTER SIGMA	Σ	
0X19	GREEK CAPITAL LETTER THETA	Θ	

HEX	Character Name	Character	ISO-8859-1 Hex
0X1A	GREEK CAPITAL LETTER XI	Ξ	
0X1B	ESCAPE TO EXTENSION TABLE		
0X1B0A	CIRCUMFLEX ACCENT	^	5E
0X1B14	LEFT CURLY BRACKET	{	7B
0X1B28	RIGHT CURLY BRACKET	}	7D
0X1B29	REVERSE SOLIDUS (BACKSLASH)	\	5C
0X1B2F	LEFT SQUARE BRACKET	[5B
0X1B3C	TILDE	~	7E
0X1B3D	RIGHT SQUARE BRACKET]	5D
0X1B40	VERTICAL BAR		7C
0X1B65	EURO SIGN	€	A4
0X1C	LATIN CAPITAL LETTER AE	Æ	C6
0X1D	LATIN SMALL LETTER AE	æ	E6
0X1E	LATIN SMALL LETTER SHARP S (German)	ß	DF
0X1F	LATIN CAPITAL LETTER E WITH ACUTE	É	C9
0X20	SPACE		20
0X21	EXCLAMATION MARK	!	21
0X22	QUOTATION MARK	"	22
0X23	NUMBER SIGN	#	23
0X25	PERCENT SIGN	%	25
0X26	AMPERSAND	&	26
0X27	APOSTROPHE	'	27
0X28	LEFT PARENTHESIS	(28
0X29	RIGHT PARENTHESIS)	29
0X2A	ASTERISK	*	2A
0X2B	PLUS SIGN	+	2B
0X2C	COMMA	,	2C
0X2D	HYPHEN-MINUS	-	2D
0X2E	FULL STOP	.	2E
0X2F	SOLIDUS (SLASH)	/	2F
0X30	DIGIT ZERO	0	30
0X31	DIGIT ONE	1	31



HEX	Character Name	Character	ISO-8859-1 Hex
0X32	DIGIT TWO	2	32
0X33	DIGIT THREE	3	33
0X34	DIGIT FOUR	4	34
0X35	DIGIT FIVE	5	35
0X36	DIGIT SIX	6	36
0X37	DIGIT SEVEN	7	37
0X38	DIGIT EIGHT	8	38
0X39	DIGIT NINE	9	39
0X3A	COLON	:	3A
0X3B	SEMICOLON	;	3B
0X3C	LESS-THAN SIGN	<	3C
0X3D	EQUALS SIGN	=	3D
0X3E	GREATER-THAN SIGN	>	3E
0X3F	QUESTION MARK	?	3F
0X40	INVERTED EXCLAMATION MARK	¡	A1
0X41	LATIN CAPITAL LETTER A	A	41
0X42	LATIN CAPITAL LETTER B	B	42
0X43	LATIN CAPITAL LETTER C	C	43
0X44	LATIN CAPITAL LETTER D	D	44
0X45	LATIN CAPITAL LETTER E	E	45
0X46	LATIN CAPITAL LETTER F	F	46
0X47	LATIN CAPITAL LETTER G	G	47
0X48	LATIN CAPITAL LETTER H	H	48
0X49	LATIN CAPITAL LETTER I	I	49
0X4A	LATIN CAPITAL LETTER J	J	4A
0X4B	LATIN CAPITAL LETTER K	K	4B
0X4C	LATIN CAPITAL LETTER L	L	4C
0X4D	LATIN CAPITAL LETTER M	M	4D
0X4E	LATIN CAPITAL LETTER N	N	4E
0X4F	LATIN CAPITAL LETTER O	O	4F
0X50	LATIN CAPITAL LETTER P	P	50
0X51	LATIN CAPITAL LETTER Q	Q	51



HEX	Character Name	Character	ISO-8859-1 Hex
0X52	LATIN CAPITAL LETTER R	R	52
0X53	LATIN CAPITAL LETTER S	S	53
0X54	LATIN CAPITAL LETTER T	T	54
0X55	LATIN CAPITAL LETTER U	U	55
0X56	LATIN CAPITAL LETTER V	V	56
0X57	LATIN CAPITAL LETTER W	W	57
0X58	LATIN CAPITAL LETTER X	X	58
0X59	LATIN CAPITAL LETTER Y	Y	59
0X5A	LATIN CAPITAL LETTER Z	Z	5A
0X5B	LATIN CAPITAL LETTER A WITH DIAERESIS	Ä	C4
0X5C	LATIN CAPITAL LETTER O WITH DIAERESIS	Ö	D6
0X5D	LATIN CAPITAL LETTER N WITH TILDE	Ñ	D1
0X5E	LATIN CAPITAL LETTER U WITH DIAERESIS	Ü	DC
0X5F	SECTION SIGN	§	A7
0X60	INVERTED QUESTION MARK	¿	BF
0X61	LATIN SMALL LETTER A	a	61
0X62	LATIN SMALL LETTER B	b	62
0X63	LATIN SMALL LETTER C	c	63
0X64	LATIN SMALL LETTER D	d	64
0X65	LATIN SMALL LETTER E	e	65
0X66	LATIN SMALL LETTER F	f	66
0X67	LATIN SMALL LETTER G	g	67
0X68	LATIN SMALL LETTER H	h	68
0X69	LATIN SMALL LETTER I	i	69
0X6A	LATIN SMALL LETTER J	j	6A
0X6B	LATIN SMALL LETTER K	k	6B
0X6C	LATIN SMALL LETTER L	l	6C
0X6D	LATIN SMALL LETTER M	m	6D
0X6E	LATIN SMALL LETTER N	n	6E
0X6F	LATIN SMALL LETTER O	o	6F
0X70	LATIN SMALL LETTER P	p	70
0X71	LATIN SMALL LETTER Q	q	71

HEX	Character Name	Character	ISO-8859-1 Hex
0X72	LATIN SMALL LETTER R	r	72
0X73	LATIN SMALL LETTER S	s	73
0X74	LATIN SMALL LETTER T	t	74
0X75	LATIN SMALL LETTER U	u	75
0X76	LATIN SMALL LETTER V	v	76
0X77	LATIN SMALL LETTER W	w	77
0X78	LATIN SMALL LETTER X	x	78
0X79	LATIN SMALL LETTER Y	y	79
0X7A	LATIN SMALL LETTER Z	z	7A
0X7B	LATIN SMALL LETTER A WITH DIAERESIS	ä	E4
0X7C	LATIN CAPITAL LETTER O WITH DIAERESIS	ö	F6
0X7D	LATIN SMALL LETTER O WITH DIAERESIS	ñ	F1
0X7E	LATIN SMALL LETTER N WITH TILDE	ü	FC
0X7F	LATIN SMALL LETTER U WITH DIAERESIS	à	E0

Certain characters in the GSM 7 bit are 14 bit, and therefore count as double in the length of the SMS. These include:

^	{	}	\	[~]		€
---	---	---	---	---	---	---	--	---

FTP CHARACTER SET COMPATIBILITY:

Text file encoding varies significantly depending on how the file was generated. As a result not all characters are supported. All files uploaded to the FTP support some of the basic GSM 7 bit character set. The supported characters are tabled below.

Character	Character	Character
Space	@	a
!	A	b
"	B	c
#	C	d
\$	D	e
%	E	f
&	F	g
0X79	LATIN SMALL LETTER Y	y
0X7A	LATIN SMALL LETTER Z	z
0X7B	LATIN SMALL LETTER A WITH DIAERESIS	ä
0X7C	LATIN CAPITAL LETTER O WITH DIAERESIS	ö
0X7D	LATIN SMALL LETTER O WITH DIAERESIS	ñ
0X7E	LATIN SMALL LETTER N WITH TILDE	ü
0X7F	LATIN SMALL LETTER U WITH DIAERESIS	à
'	G	h
(H	i
)	I	j
*	J	k
+	K	l
,	L	m
-	M	n
.	N	o
/	O	p
0	P	q
1	Q	r
2	R	s
3	S	t
4	T	u



Character	Character	Character
5	U	v
6	V	w
7	W	x
8	X	y
9	Y	z
:	Z	{
;	[(used as line break)
<	\	}
=]	~ (used as delimiter)
>	^	
?	-	

SMS LENGTH AND BILLING:

To determine the length of the SMS and how many SMS that will be billed, the following calculation applies.

Note: The below calculation only applies if the SMS is greater than 160 characters in length.

Key:

x = Number of chars (taking into account 7bit and 14bit)

math.Ceiling = Rounds up to the next full integer.

y = Number of SMS to be billed

Calculation:

$y = \text{Math.Ceiling}(x / 153)$

Maximum length is 459 characters.

SMS longer than one SMS in length are concatenated and display on the phone as one SMS.

Example:

Total length of characters is 340

Total length once we count the double characters eg : "{}" is 344

Divide this by 153 ($344/153 = 2.248$) and take the upper bound (Ceiling) of 2.248 to equal 3.

SMS will be billed as 3 SMS.

Note:

Anything longer than 459 chars will be truncated and billed as 3 SMS.



SMS LINE BREAKS:

Line breaks can be added into the SMS by using the pipe character.

Hello | World



**Hello
World**

Will translate in the SMS to: