6.2.1 SMS/CBS 7-bit default alphabet (0x00) tables

This alphabet should only be used where explicitly required by the SMS or CBS protocols, as well as being preferred for USSD (and for two-letter prefix language tags in CBS).

Use the Latin alphabet (0x10) instead of this alphabet (0x00) for SMS and CBS messages.

6.2.1.1 SMS/CBS 7-bit default alphabet (0x00) base table; Latin reading

b7				0	0	0	0	1	1	1	1
b6				0	0	1	1	0	0	1	1
b5				0	1	0	1	0	1	0	1
b4	b3	b2	b1	0	1	2	3	4	5	6	7
0	0	0	0	0 @ 0040	Δ 0394	SP 0020	0 0030	¡ 00A1	P 0050	¿ 00BF	p 0070
0	0	0	1	1 £ 00A3	_ 005F	! 0021	1 0031	A 0041	Q 0051	a 0061	q 0071
0	0	1	0	2 $ 0024	Φ 03A6	" 0022	2 0032	B 0042	R 0052	b 0062	r 0072
0	0	1	1	3 ¥ 00A5	Γ 0393	# 0023	3 0033	C 0043	S 0053	c 0063	s 0073
0	1	0	0	4 è 00E8	Λ 039B	¤ 00A4	4 0034	D 0044	T 0054	d 0064	t 0074
0	1	0	1	5 é 00E9	Ω 03A9	% 0025	5 0035	E 0045	U 0055	e 0065	u 0075
0	1	1	0	6 ù 00F9	Π 03A0	& 0026	6 0036	F 0046	V 0056	f 0066	v 0076
0	1	1	1	7 ì 00EC	Ψ 03A8	' 0027	7 0037	G 0047	W 0057	g 0067	w 0077
1	0	0	0	8 ò 00F2	Σ 03A3	(0028	8 0038	H 0048	X 0058	h 0068	x 0078
1	0	0	1	9 ç 00E7	Θ 0398	) 0029	9 0039	I 0049	Y 0059	i 0069	y 0079
1	0	1	0	A LF 000A	Ξ 039E	* 002A	: 003A	J 004A	Z 005A	j 006A	z 007A
1	0	1	1	B Ø 00D8	SS2 ----	+ 002B	; 003B	K 004B	Ä 00C4	k 006B	ä 00E4
1	1	0	0	C ø 00F8	Æ 00C6	, 002C	< 003C	L 004C	Ö 00D6	l 006C	ö 00F6
1	1	0	1	D CR 000D	æ 00E6	- 002D	= 003D	M 004D	Ñ 00D1	m 006D	ñ 00F1
1	1	1	0	E Å 00C5	ß 00DF	. 002E	> 003E	N 004E	Ü 00DC	n 006E	ü 00FC
1	1	1	1	F å 00E5	É 00C9	/ 002F	? 003F	O 004F	§ 00A7	o 006F	à 00E0

LF: LINE FEED; moves to the next line (with implied carriage return).

CR: CARRIAGE RETURN; CR is not used as CR but is used as a filler after the actual SMS/CBS message text. CR should not occur inside a message text, but if it does, it must be converted to LF. Note that <SS2,CR> is undefined, and that "CR" is a filler if at text end, otherwise it is LF or FF.

SS2: SINGLE SHIFT TWO; This code shifts the next 7-bit code unit to refer to an extension of this table (default in subclause 6.2.1.2). (Note: these default tables (0x00) are usually not explicitly set.) When splitting a message text into submessages, there should be no cut right after an SS2.

LF, CR, SS2, SP, +, /, #, 0-9, _, a-z: These must be on the codes above in all 7-bit SMS/CBS alphabets.

6.2.1.2   SMS/CBS 7-bit default alphabet (0x00) extension (SS2) table

The table below is deprecated and should be used only where it is explicitly required in this document or for USSD. For Latin script SMS/CBS messages, the European (Latin script) alphabet (0x10) should be preferred over this one.

				b7	0	0	0	0	1	1	1	1
				b6	0	0	1	1	0	0	1	1
				b5	0	1	0	1	0	1	0	1
b4	b3	b2	b1	1B	0	1	2	3	4	5	6	7
0	0	0	0	0					| 007C			
0	0	0	1	1								
0	0	1	0	2								
0	0	1	1	3								
0	1	0	0	4		^ 005E						
0	1	0	1	5							€ 20AC	
0	1	1	0	6								
0	1	1	1	7								
1	0	0	0	8			{ 007B					
1	0	0	1	9			} 007D					
1	0	1	0	A	FF 000C							
1	0	1	1	B		SS3 UND						
1	1	0	0	C				[005B				
1	1	0	1	D	UND			~ 007E				
1	1	1	0	E				] 005D				
1	1	1	1	F			\\ 005C					

In the event that an MS receives a code where a symbol is not represented in the table above then the MS should display the REPLACEMENT CHARACTER (U+FFFD), but may instead map the SS2 (alone) to SPACE,

FF: FORM FEED; This code is defined as a Page Break character (with implied carriage return). An MS which does not support pagination shall convert FF to LF.

UND: Explicitly undefined; convert to REPLACEMENT CHARACTER.

SS3:   SINGLE SHIFT THREE; This code is reserved for the extension to an SS3 extension table. However, there is no SS3 extension table for alphabets 0x00 to 0x0F. On receipt of SS3, the SS3 (two 7-bit codes) and the follow-on 7-bit code should be mapped to REPLACEMENT CHARACTER, though the SS3 (itself) may instead be mapped to SPACE as in earlier versions of this standard.

FF, UND, SS3: Must be on the codes above in all 7-bit SMS/CBS alphabets, though UND here must be CSI (CONTROL SEQUENCE INTRODUCER) in all other 7-bit SMS alphabets.

6.2.1.3 SMS/CBS 7-bit default alphabet (0x00) base table, Greek reading; SHOULD NEVER BE USED; kept here for reference with older versions of this standard

If the text of the message is deemed to be in "uppercase Greek" (note that only CBS has any form of language tagging), then use the following mapping table for the 0x00 alphabet. The following table is strongly deprecated for all use, but listed here for compatibility with earlier versions.

Use the Greek alphabet (0x11) instead this Greek reading of the default (0x00) alphabet.

				b7	0	0	0	0	1	1	1	1
				b6	0	0	1	1	0	0	1	1
				b5	0	1	0	1	0	1	0	1
b4	b3	b2	b1	(el)	0	1	2	3	4	5	6	7
0	0	0	0	0	@ 0040	Δ 0394	SP 0020	0 0030	¡ 00A1	P 03A1	¿ 00BF	p 0070
0	0	0	1	1	£ 00A3	_ 005F	! 0021	1 0031	A 0391	Q 0051	a 0061	q 0071
0	0	1	0	2	$ 0024	Φ 03A6	" 0022	2 0032	B 0392	R 0052	b 0062	r 0072
0	0	1	1	3	¥ 00A5	Γ 0393	# 0023	3 0033	C 0043	S 0053	c 0063	s 0073
0	1	0	0	4	è 00E8	Λ 039B	¤ 00A4	4 0034	D 0044	T 03A4	d 0064	t 0074
0	1	0	1	5	é 00E9	Ω 03A9	% 0025	5 0035	E 0395	U 0055	e 0065	u 0075
0	1	1	0	6	ù 00F9	Π 03A0	& 0026	6 0036	F 0046	V 0056	f 0066	v 0076
0	1	1	1	7	ì 00EC	Ψ 03A8	' 0027	7 0037	G 0047	W 0057	g 0067	w 0077
1	0	0	0	8	ò 00F2	Σ 03A3	(0028	8 0038	H 0397	X 03A7	h 0068	x 0078
1	0	0	1	9	ç 00E7	Θ 0398	) 0029	9 0039	I 0399	Y 03A5	i 0069	y 0079
1	0	1	0	A	LF 000A	Ξ 039E	* 002A	: 003A	J 004A	Z 0396	j 006A	z 007A
1	0	1	1	B	Ø 00D8	SS2 ----	+ 002B	; 003B	K 039A	Ä 00C4	k 006B	ä 00E4
1	1	0	0	C	ø 00F8	Æ 00C6	, 002C	< 003C	L 004C	Ö 00D6	l 006C	ö 00F6
1	1	0	1	D	CR 000D	æ 00E6	- 002D	= 003D	M 039C	Ñ 00D1	m 006D	ñ 00F1
1	1	1	0	E	Å 00C5	ß 00DF	. 002E	> 003E	N 039D	Ü 00DC	n 006E	ü 00FC
1	1	1	1	F	å 00E5	É 00C9	/ 002F	? 003F	O 039F	§ 00A7	o 006F	à 00E0

LF: LINE FEED; moves to the next line (with implied carriage return).
CR: CARRIAGE RETURN; CR is not used as CR but is used as a filler after the actual SMS/CBS message text. CR should not occur inside a message text, but if it does, it must be converted to LF.
SS2: SINGLE SHIFT TWO; This code shifts the next 7-bit code unit to refer to an extension of this table (subclause 6.2.1.2). (Note: these *default* tables are usually not explicitly set.)
When splitting a message text into submessages, there should be no cut right after an SS2.