

SMS Smart Encoding is a feature within Ascent360 that monitors for hidden Unicode characters in text message compositions and automatically converts them their nearest non-Unicode counterpart. This helps reduce unwanted segment increases resulting from including a Unicode character that could easily be represented as a non-Unicode character.

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What is Unicode?

When composing a text message in Ascent360, you may insert alphanumeric characters, special characters, and emojis to create your message.

Depending on the characters used, your SMS message will be encoded in one of two ways; these different encoding methods have different per-segment character limits as described in [Create a Text Message](#). In short:

Message Type	Segment Character Limit
One segment SMS with plain text (no unicode or emojis)	160
One segment SMS with emojis	70
Multiple segment SMS with plain text (no unicode or emojis)	153
Multiple segment SMS with emojis	67
MMS	1600 (1000 or fewer recommended for plain text; 500 or fewer recommended for emojis)

Emojis (👍📧) are Unicode and are easily visually identifiable as such. However, many other characters that *look* like plain text are actually Unicode as well. For example, these characters: ' - ☒ are all Unicode.

Smart Encoding

Smart Encoding enables Ascent360 to automatically detect these hidden Unicode characters and convert them to a non-Unicode counterpart whenever these are typed or pasted into the SMS composition tool.

Smart Encoding can be enabled and disabled in your Account Settings on the SMS tab. Smart Encoding only affects SMS messages.

Once enabled, Smart Encoding will affect all text messages going forward. You may choose to temporarily disable Smart Encoding if there is a Unicode character that you want to use and remain unconverted for a particular text message.

See the table below for a full list of characters that are supported and converted by Smart Encoding. In the "Transliterated Character" column, a blank indicates a space.

Unicode	Glyph	Description	Transliterated Character
U+FF10	☐	Fullwidth Digit Zero	0
U+FF11	☐	Fullwidth Digit One	1
U+FF12	☐	Fullwidth Digit Two	2
U+FF13	☐	Fullwidth Digit Three	3
U+FF14	☐	Fullwidth Digit Four	4
U+FF15	☐	Fullwidth Digit Five	5
U+FF16	☐	Fullwidth Digit Six	6
U+FF17	☐	Fullwidth Digit Seven	7
U+FF18	☐	Fullwidth Digit Eight	8
U+FF19	☐	Fullwidth Digit Nine	9
U+00BD	½	Vulgar Fraction One Half	1/2
U+2153	⅓	Vulgar Fraction One Third	1/3
U+00BC	¼	Vulgar Fraction One Quarter	1/4
U+2155	⅕	Vulgar Fraction One Fifth	1/5
U+2152	⅒	Vulgar Fraction One Tenth	1/10
U+2154	⅔	Vulgar Fraction Two Thirds	2/3
U+2156	⅖	Vulgar Fraction Two Fifths	2/5
U+00BE	¾	Vulgar Fraction Three Quarters	3/4
U+2157	⅗	Vulgar Fraction Three Fifths	3/5
U+2158	⅔	Vulgar Fraction Four Fifths	4/5
U+00B4	´	Acute Accent	'
U+0313	¸	Combining Comma Above	'
U+0314	¸	Combining Reversed Comma Above	'
U+FF07	☐	Fullwidth Apostrophe	'
U+0060	`	Grave Accent	'
U+275C	¸	Heavy Single Comma Quotation Mark Ornament	'
U+275B	¸	Heavy Single Turned Comma Quotation Mark Ornament	'
U+2018	‘	Left Single Quotation Mark	'

U+02CA	´	Modifier Letter Acute Accent	´
U+02BC	’	Modifier Letter Apostrophe	’
U+02CB	`	Modifier Letter Grave Accent	`
U+02B9	´	Modifier Letter Prime	´
U+02BD	¸	Modifier Letter Reversed Comma	¸
U+02BB	¸	Modifier Letter Turned Comma	¸
U+02C8	¸	Modifier Letter Vertical Line	¸
U+00A0		No-Break Space	
U+FE10	⸰	Presentation Form For Vertical Comma	´
U+FE11	⸱	Presentation Form For Vertical Ideographic Comma	’
U+2019	’	Right Single Quotation Mark	’
U+201B	¸	Single High-Reversed-9 Quotation Mark	¸
U+2000		Whitespace: En Quad	
U+2022	•	Bullet	-
U+2014	—	Em Dash	-
U+2013	-	En Dash	-
U+FF0D	⸰	Fullwidth Hyphen-Minus	-
U+2015	—	Horizontal Bar	-
U+23BC	⸰	Horizontal Scan Line-7	-
U+23BD	⸱	Horizontal Scan Line-9	-
U+2010	-	Hyphen	-
U+2043	-	Hyphen Bullet	-
U+FE63	⸰	Small Hyphen-Minus	-
U+FF01	⸰	Fullwidth Exclamation Mark	!
U+01C3	!	Latin Letter Retroflex Click	!
U+FE15	⸰	Presentation Form For Vertical Exclamation Mark	!
U+FE57	⸰	Small Exclamation Mark	!
U+203C	!!	Double Exclamation Mark	!!
U+2260	≠	Not Equal To	!=
U+201F	“	Double High-Reversed-9 Quotation Mark	”
U+201E	„	Double Low Quotation Mark	”
U+301E	⸰	Double Prime Quotation Mark	”
U+FF02	⸰	Fullwidth Quotation Mark	”
U+275E	”	Heavy Double Comma Quotation Mark Ornament	”
U+275D	“	Heavy Double Turned Comma Quotation Mark Ornament	”
U+201C	”	Left Double Quotation Mark	”

U+00AB	«	Left-Pointing Double Angle Quotation Mark	"
U+02EE	”	Modifier Letter Double Apostrophe	"
U+02BA	”	Modifier Letter Double Prime	"
U+301D	⌞	Reversed Double Prime Quotation Mark	"
U+201D	"	Right Double Quotation Mark	"
U+00BB	»	Right-Pointing Double Angle Quotation Mark	"
U+FF03	⌘	Fullwidth Number Sign	#
U+FE5F	⌘	Small Number Sign	#
U+FF04	⌘	Fullwidth Dollar Sign	\$
U+FE69	⌘	Small Dollar Sign	\$
U+FF05	⌘	Fullwidth Percent Sign	%
U+FE6A	⌘	Small Percent Sign	%
U+FF06	⌘	Fullwidth Ampersand	&
U+FE60	⌘	Small Ampersand	&
U+FF08	⌘	Fullwidth Left Parenthesis	(
U+2985	⌘	Left White Parenthesis	(
U+27EE	⌘	Mathematical Left Flattened Parenthesis	(
U+276A	(	Medium Flattened Left Parenthesis Ornament	(
U+2768	(	Medium Left Parenthesis Ornament	(
U+FE59	⌘	Small Left Parenthesis	(
U+FF09	⌘	Fullwidth Right Parenthesis	)
U+27EF	⌘	Mathematical Right Flattened Parenthesis	)
U+276B	)	Medium Flattened Right Parenthesis Ornament	)
U+2769	)	Medium Right Parenthesis Ornament	)
U+2986	⌘	Right White Parenthesis	)
U+FE5A	⌘	Small Right Parenthesis	)
U+2217	*	Asterisk Operator	*
U+2749	✱	Balloon-Spoked Asterisk	*
U+229B	⊛	Circled Asterisk Operator	*
U+2733	✱	Eight Spoked Asterisk	*
U+274A	✱	Eight Teardrop-Spoked Propeller Asterisk	*
U+2723	✱	Four Balloon-Spoked Asterisk	*
U+2725	✱	Four Club-Spoked Asterisk	*
U+2722	✱	Four Teardrop-Spoked Asterisk	*
U+FF0A	⌘	Fullwidth Asterisk	*
U+2731	✱	Heavy Asterisk	*

U+274B	✳	Heavy Eight Teardrop-Spoked Propeller Asterisk	*
U+2724	♣	Heavy Four Balloon-Spoked Asterisk	*
U+273D	✿	Heavy Teardrop-Spoked Asterisk	*
U+2743	✳	Heavy Teardrop-Spoked Pinwheel Asterisk	*
U+204E	*	Low Asterisk	*
U+2732	✳	Open Center Asterisk	*
U+273C	✳	Open Center Teardrop-Spoked Asterisk	*
U+273A	✳	Sixteen Pointed Asterisk	*
U+FE61	⌘	Small Asterisk	*
U+29C6	⌘	Squared Asterisk	*
U+273B	✳	Teardrop-Spoked Asterisk	*
U+0326	,	Combining Comma Below	,
U+FF0C	⌘	Fullwidth Comma	,
U+FF64	⌘	Halfwidth Ideographic Comma	,
U+3001	⌘	Ideographic Comma	,
U+201A	,	Single Low-9 Quotation Mark	,
U+FE50	⌘	Small Comma	,
U+FE51	⌘	Small Ideographic Comma	,
U+FF0E	⌘	Fullwidth Full Stop	.
U+FF61	⌘	Halfwidth Ideographic Full Stop	.
U+3002	⌘	Ideographic Full Stop	.
U+FE52	⌘	Small Full Stop	.
U+2026	...	Horizontal Ellipsis	...
U+22EF	...	Midline Horizontal Ellipsis	...
U+29F8	⌘	Big Solidus	/
U+0338	/	Combining Long Solidus Overlay	/
U+0337	/	Combining Short Solidus Overlay	/
U+00F7	÷	Division Sign	/
U+2215	/	Division Slash	/
U+2044	/	Fraction Slash	/
U+FF0F	⌘	Fullwidth Solidus	/
U+FF1A	⌘	Fullwidth Colon	:
U+A789	:	Modifier Letter Colon	:
U+02F8	⌘	Modifier Letter Raised Colon	:
U+02D0	⋮	Modifier Letter Triangular Colon	:

U+FE13	⋮	Presentation Form For Vertical Colon	:
U+2982	⋮	Z Notation Type Colon	:
U+FF1B	⋮	Fullwidth Semicolon	;
U+FE14	⋮	Presentation Form For Vertical Semicolon	;
U+204F	⋮	Reversed Semicolon	;
U+FE54	⋮	Small Semicolon	;
U+FF1F	⋮	Fullwidth Question Mark	?
U+FE16	⋮	Presentation Form For Vertical Question Mark	?
U+FE56	⋮	Small Question Mark	?
U+2048	?!	Question Exclamation Mark	?!
U+2047	??	Double Question Mark	??
U+FF20	⋮	Fullwidth Commercial At Sign	@
U+FE6B	⋮	Small Commercial At Sign	@
U+FF3B	⋮	Fullwidth Left Square Bracket	[
U+29F9	⋮	Big Reverse Solidus	\
U+20E5	⋮	Combining Reverse Solidus Overlay	\
U+FF3C	⋮	Fullwidth Reverse Solidus	\
U+29F5	⋮	Reverse Solidus Operator	\
U+FE68	⋮	Small Reverse Solidus	\
U+FF3D	⋮	Fullwidth Right Square Bracket	]
U+0302	^	Combining Circumflex Accent	^
U+1DCD	⋮	Combining Double Circumflex Above	^
U+FF3E	⋮	Fullwidth Circumflex Accent	^
U+02C6	^	Modifier Letter Circumflex Accent	^
U+0332	—	Combining Low Line	—
U+2017	=	Double Low Line	—
U+FF3F	⋮	Fullwidth Low Line	—
U+FF5B	⋮	Fullwidth Left Curly Bracket	{
U+2774	{	Medium Left Curly Bracket Ornament	{
U+FE5B	⋮	Small Left Curly Bracket	{
U+20D2	⋮	Combining Long Vertical Line Overlay	
U+20D3	⋮	Combining Short Vertical Line Overlay	
U+2223		Divides	
U+FF5C	⋮	Fullwidth Vertical Line	
U+239C		Left Parenthesis Extension	

U+23B8	⎓	Left Vertical Box Line	
U+239F		Right Parenthesis Extension	
U+23B9	⎓	Right Vertical Box Line	
U+23D0	⎓	Vertical Line Extension	
U+FF5D	⎓	Fullwidth Right Curly Bracket	}
U+2775	⎓	Medium Right Curly Bracket Ornament	}
U+FE5C	⎓	Small Right Curly Bracket	}
U+0303	~	Combining Tilde	~
U+0330	~	Combining Tilde Below	~
U+0334	~	Combining Tilde Overlay	~
U+FF5E	⎓	Fullwidth Tilde	~
U+02F7	~	Modifier Letter Low Tilde	~
U+02DC	~	Small Tilde	~
U+223C	~	Tilde Operator	~
U+FF0B	⎓	Fullwidth Plus Sign	+
U+02D6	+	Modifier Letter Plus Sign	+
U+FE62	⎓	Small Plus Sign	+
U+FF1C	⎓	Fullwidth Less-Than Sign	<
U+203A	›	Single Right-Pointing Angle Quotation Mark	<
U+FE64	⎓	Small Less-Than Sign	<
U+226A	<<	Much Less-Than	<<
U+0347	=	Combining Equals Sign Below	=
U+FF1D	⎓	Fullwidth Equals Sign	=
U+A78A	=	Modifier Letter Short Equals Sign	=
U+FE66	⎓	Small Equals Sign	=
U+FF1E	⎓	Fullwidth Greater-Than Sign	>
U+2039	‹	Single Left-Pointing Angle Quotation Mark	>
U+FE65	⎓	Small Greater-Than Sign	>
U+226B	>>	Much Greater-Than	>>
U+FF21	⎓	Fullwidth Latin Capital Letter A	A
U+1D00	A	Latin Letter Small Capital A	A
U+FF22	⎓	Fullwidth Latin Capital Letter B	B
U+0299	B	Latin Letter Small Capital B	B
U+FF23	⎓	Fullwidth Latin Capital Letter C	C
U+1D04	C	Latin Letter Small Capital C	C
U+FF24	⎓	Fullwidth Latin Capital Letter D	D

U+1D05	D	Latin Letter Small Capital D	D
U+FF25	␣	Fullwidth Latin Capital Letter E	E
U+1D07	E	Latin Letter Small Capital E	E
U+FF26	␣	Fullwidth Latin Capital Letter F	F
U+A730	F	Latin Letter Small Capital F	F
U+FF27	␣	Fullwidth Latin Capital Letter G	G
U+0262	G	Latin Letter Small Capital G	G
U+FF28	␣	Fullwidth Latin Capital Letter H	H
U+029C	H	Latin Letter Small Capital H	H
U+FF29	␣	Fullwidth Latin Capital Letter I	I
U+026A	I	Latin Letter Small Capital I	I
U+FF2A	␣	Fullwidth Latin Capital Letter J	J
U+1D0A	J	Latin Letter Small Capital J	J
U+FF2B	␣	Fullwidth Latin Capital Letter K	K
U+1D0B	K	Latin Letter Small Capital K	K
U+FF2C	␣	Fullwidth Latin Capital Letter L	L
U+029F	L	Latin Letter Small Capital L	L
U+FF2D	␣	Fullwidth Latin Capital Letter M	M
U+1D0D	M	Latin Letter Small Capital M	M
U+FF2E	␣	Fullwidth Latin Capital Letter N	N
U+0274	N	Latin Letter Small Capital N	N
U+FF2F	␣	Fullwidth Latin Capital Letter O	O
U+1D0F	O	Latin Letter Small Capital O	O
U+FF30	␣	Fullwidth Latin Capital Letter P	P
U+1D18	P	Latin Letter Small Capital P	P
U+FF31	␣	Fullwidth Latin Capital Letter Q	Q
U+FF32	␣	Fullwidth Latin Capital Letter R	R
U+0280	R	Latin Letter Small Capital R	R
U+FF33	␣	Fullwidth Latin Capital Letter S	S
U+A731	S	Latin Letter Small Capital S	S
U+FF34	␣	Fullwidth Latin Capital Letter T	T
U+1D1B	T	Latin Letter Small Capital T	T
U+FF35	␣	Fullwidth Latin Capital Letter U	U
U+1D1C	U	Latin Letter Small Capital U	U
U+FF36	␣	Fullwidth Latin Capital Letter V	V

U+1D20	V	Latin Letter Small Capital V	V
U+FF37	Ⓦ	Fullwidth Latin Capital Letter W	W
U+1D21	W	Latin Letter Small Capital W	W
U+FF38	Ⓧ	Fullwidth Latin Capital Letter X	X
U+FF39	Ⓨ	Fullwidth Latin Capital Letter Y	Y
U+028F	Y	Latin Letter Small Capital Y	Y
U+FF3A	Ⓩ	Fullwidth Latin Capital Letter Z	Z
U+1D22	Z	Latin Letter Small Capital Z	Z
U+009F		<Control>	
U+0080		C1 Control Codes	
U+009B		Control Sequence Introducer	
U+0014		Device Control Four	
U+0011		Device Control One	
U+0090		Device Control String	
U+0013		Device Control Three	
U+0012		Device Control Two	
U+0019		End Of Medium	
U+0003		End Of Text	
U+0004		End Of Transmission	
U+0017		End Of Transmission Block	
U+0010		Escape	
U+0009		Horizontal Tabulation	
U+3000		Ideographic Space	
U+205F		Medium Mathematical Space	
U+202F		Narrow No-Break Space	
U+0000		Null	
U+008D		Reverse Line Feed	
U+2003		Whitespace: Em Space	
U+2002		Whitespace: En Space	
U+2007		Whitespace: Figure Space	
U+2005		Whitespace: Four-Per-Em Space	
U+200A		Whitespace: Hair Space	
U+2028		Whitespace: Line Separator	
U+2001		Whitespace: Medium Mathematical Space	
U+2029		Whitespace: Paragraph Separator	

U+2008	Whitespace: Punctuation Space
U+2006	Whitespace: Six-Per-Em Space
U+2009	Whitespace: Thin Space
U+2004	Whitespace: Three-Per-Em Space
U+2060	Word Joiner
U+FEFF	Zero Width No-Break Space
U+200B	Zero Width Space