

2012-10-23

Universal Multiple-Octet Coded Character Set
International Organization for Standardization
Organisation Internationale de Normalisation
Международная организация по стандартизации

Doc Type: Working Group Document**Title: Mende Ad-hoc Report****Source: Mende Ad-hoc Committee****Status: Ad-hoc Report****Action: For consideration by JTC1/SC2/WG2****Date: 2012-10-23**

An ad-hoc committee on Mende met in Helsinki on 2012-10-22. The following were in attendance:

Tero Aalto, Debbie Anderson, Peter Constable, Michael Everson, Tim Eves, Erich Fickle,
Martin Hosken, Michel Suignard, Umamaheswaran, Ken Whistler

The ad-hoc discussed the encoding of Mende numbers, for which there are three models proposed, which were described in N4167: an “atomic encoding” model, a “combining character encoding” model, and a “ligature encoding” model.

The ad-hoc group began by rejecting the combining character encoding model, and went round and round discussing the advantages and disadvantages of the atomic model and the ligature model. This produced no consensus, until the idea was hit upon a version of the combining character encoding model in which the *multipliers* were the combining characters, rather than the *units* as had been proposed in N4167. So instead of a model like $\overset{1}{\circ} \overset{2}{\circ} \overset{3}{\circ} \overset{4}{\circ} \overset{5}{\circ} \overset{6}{\circ} \overset{7}{\circ} \overset{8}{\circ} \overset{9}{\circ}$, the model $\overset{1}{\circ} \overset{2}{\circ} \overset{3}{\circ} \overset{4}{\circ} \overset{5}{\circ} \overset{6}{\circ} \overset{7}{\circ} \overset{8}{\circ} \overset{9}{\circ}$ was proposed.

This would have the advantage of binding the multipliers to the base character; precomposed glyphs in smart fonts will give the best representation, but even in dumb fonts the default glyph could be optimized for legible presentation. The ad-hoc agreed to recommend this model.

Accordingly, the names, glyphs and code positions for these characters are to be as shown in the code charts and names lists at the end of this report.

Unicode Character Properties.

```
1E8C7;MENDE DIGIT ONE;No;0;R;;;1;1;N;;;;;
1E8C8;MENDE DIGIT TWO;No;0;R;;;2;2;N;;;;;
1E8C9;MENDE DIGIT THREE;No;0;R;;;3;3;N;;;;;
1E8CA;MENDE DIGIT FOUR;No;0;R;;;4;4;N;;;;;
1E8CB;MENDE DIGIT FIVE;No;0;R;;;5;5;N;;;;;
1E8CC;MENDE DIGIT SIX;No;0;R;;;6;6;N;;;;;
1E8CD;MENDE DIGIT SEVEN;No;0;R;;;7;7;N;;;;;
1E8CE;MENDE DIGIT EIGHT;No;0;R;;;8;8;N;;;;;
1E8CF;MENDE DIGIT NINE;No;0;R;;;9;9;N;;;;;
1E8D0;MENDE COMBINING TEENS;Mn;220;NSM;;;;;N;;;;;
1E8D1;MENDE COMBINING TENS;Mn;220;NSM;;;;;N;;;;;
1E8D2;MENDE COMBINING HUNDREDS;Mn;220;NSM;;;;;N;;;;;
1E8D3;MENDE COMBINING THOUSANDS;Mn;220;NSM;;;;;N;;;;;
1E8D4;MENDE COMBINING TEN THOUSANDS;Mn;220;NSM;;;;;N;;;;;
1E8D5;MENDE COMBINING HUNDRED THOUSANDS;Mn;220;NSM;;;;;N;;;;;
1E8D6;MENDE COMBINING MILLIONS;Mn;220;NSM;;;;;N;;;;;
```

	1E80	1E81	1E82	1E83	1E84	1E85	1E86	1E87	1E88	1E89	1E8A	1E8B	1E8C	1E8D
0														
1														
2														
3														
4														
5														
6														
7														
8														
9														
A														
B														
C														
D														
E														
F														

Syllables in v-

1E8B9	⊙	MENDE SYLLABLE M182 VI = Dalby M180
1E8BA	⊙	MENDE SYLLABLE M185 VA
1E8BB	⊙	MENDE SYLLABLE M151 VU
1E8BC	⊙	MENDE SYLLABLE M173 VEE
1E8BD	⊙	MENDE SYLLABLE M085 VE
1E8BE	⊙	MENDE SYLLABLE M144 VOO
1E8BF	⊙	MENDE SYLLABLE M077 VO

Syllables in ny-

1E8C0	⊙	MENDE SYLLABLE M164 NYIN
1E8C1	⊙	MENDE SYLLABLE M058 NYAN
1E8C2	⊙	MENDE SYLLABLE M170 NYUN
1E8C3	⊙	MENDE SYLLABLE M098 NYEN
1E8C4	⊙	MENDE SYLLABLE M060 NYON

Digits

1E8C7		MENDE DIGIT ONE
1E8C8	≤	MENDE DIGIT TWO
1E8C9	μ	MENDE DIGIT THREE
1E8CA	≧	MENDE DIGIT FOUR
1E8CB	8	MENDE DIGIT FIVE
1E8CC	∂	MENDE DIGIT SIX
1E8CD	∂	MENDE DIGIT SEVEN
1E8CE	∂	MENDE DIGIT EIGHT
1E8CF	f	MENDE DIGIT NINE

Combining number bases

1E8D0	⊙	MENDE COMBINING NUMBER TEENS
1E8D1	⊙	MENDE COMBINING NUMBER TENS
1E8D2	⊙	MENDE COMBINING NUMBER HUNDREDS
1E8D3	⊙	MENDE COMBINING NUMBER THOUSANDS
1E8D4	⊙	MENDE COMBINING NUMBER TEN THOUSANDS
1E8D5	⊙	MENDE COMBINING NUMBER HUNDRED THOUSANDS
1E8D6	⊙	MENDE COMBINING NUMBER MILLIONS