

DRAFT Irish comments on the FCD for ISO/IEC 10646-2

Reference: SC2 N3442

Closes: 2000-09-19

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Ireland **approves/disapproves** the draft with the technical and editorial comments given below.

Technical comments

Clause 4

T.4.1. For some reason, six-digit values are used here (and in other parts of the FCD) instead of five-digit values as specified here in the second paragraph. Five digits are already in common use (U+1D000 not U+01D000). Use five-digit values throughout.

T.4.2. After second paragraph, add: "NOTE: For planes beyond Plane 0, it is recommended that the 5-digit form be used."

Clause 6

T.6.1. Second paragraph, say: "...the SMP shall not be used to encode CJK Unified Ideographs".

T.6.2. It says "Code positions 01FFFE and 01FFFF are reserved." Reserved for what? Part 1 says why U+FFFE and U+FFFF "shall not be used". ("Reserved" is the Unicode term.) As noted above, the 5-digit notation, not the 6-digit notation, should be used for U+1FFFE and U+1FFFF.

Clause 7

T.7.1. Same comment as T.6.1 for clause 6.

Clause 8

T.8.1. Same comment as T.6.1 for clause 6.

T.8.2. We have never understood this note that tag characters have no visual representation. Inputting of these characters may have to be visible, just as HTML tags using Latin 1 may be visible. Many HTML editors allow printing and editing of HTML tags. "Non-printability" is a matter for the browser or other application. We suggest the following text be used:

Some of these characters do not normally have a visual representation and are not ordinarily printed with graphic symbols. The Tag characters are examples of characters whose visual representation would normally be suppressed. For purposes of inputting and editing, Alternate Format Characters may have a notional graphic representation (visualized in the code charts here and in part 1 of this International Standard).

T.8.3. The Alternate format characters are said to be specified in annex F of Part 1 in this clause, but in clause 9 it says they are specified in clause 20 of Part 1. Strictly speaking, the specification is in clause 20 (which is normative) of part 1; the informative Annex F only describes the characters in greater detail.

Clause 10 Table 1 - Row 03: ETRUSCAN

T.10-T1.1. This script covers more than just Etruscan, and should be renamed "Old Italic", which unifies the Etruscan, Oscan, Umbrian, Faliscan, Messapic, North Picene, and Middle Adriatic alphabets.

T.10-T1.2. In the character names and table headings, change ETRUSCAN to OLD ITALIC.

T.10-T1.3. The punctuation character at U+10320 should be deleted pending further study of unified punctuation for ancient scripts; the subsequent characters should be shifted up a space.

T.10-T1.4. A character “OLD ITALIC LETTER TA (Messapic)” should be added at 1031F. For evidence of this character, see <http://www.egt.ie/standards/iso10646/pdf/old-italic.pdf>.

T.10-T1.5. The four numeric characters from U+10326 - U+10269 are poorly understood and are not uniformly represented in commonly available discussions of Etruscan writing. These should be deleted from the FCD pending further study for later addition as an amendment to the standard. Better safe than sorry.

Clause 10 Table 3 - Row 04: DESERET

T.10-T3.1. At U+10428 delete one of the spaces between SMALL and LETTER.

Clause 10 Table 7 - Row D1: WESTERN MUSICAL SYMBOLS

T.10-T7.1. The characters U+1D110, U+1D111, U+1D112 were not accepted for inclusion in the standard; they are unified with three characters in the BMP. Delete them.

T.10-T7.2. Delete U+1D13E WESTERN MUSICAL SYMBOL OLD STYLE C CLEF. This is just a presentation form of the preceding character.

T.10-T7.3. Add one character WESTERN MUSICAL SYMBOL END OF STIMME after U+1D11E. This character completes the range set by HAUPTSTIMME and NEBENSTIMME.

T.10-T7.4. Add two characters WESTERN MUSICAL SYMBOL FINGERED TREMOLO ONE and WESTERN MUSICAL SYMBOL FINGERED TREMOLO TWO after U+1D19A.

T.10-T7.5. Rearrange the entire table as given below in Annex 2. This retains the blocks of related characters but reorders those blocks into a more coherent series. This will assist users of the standard in implementations like fonts. Note for instance that the combining characters follow the noteheads in a hierarchical sequence.

T.10-T7.6. Change the following character names:

(using the hex positions from the FCD)

1D196	WESTERN MUSICAL SYMBOL STEM
1D197	WESTERN MUSICAL SYMBOL SPRECHGESANG STEM
1D198	WESTERN MUSICAL SYMBOL TREMOLO STEM ONE
1D199	WESTERN MUSICAL SYMBOL TREMOLO STEM TWO
1D19A	WESTERN MUSICAL SYMBOL TREMOLO STEM THREE
1D19B	WESTERN MUSICAL SYMBOL FINGERED TREMOLO
1D16D	WESTERN MUSICAL SYMBOL AUGMENTATION DOT
1D16E	WESTERN MUSICAL SYMBOL STEM PLUS FLAG ONE
1D16F	WESTERN MUSICAL SYMBOL STEM PLUS FLAG TWO
1D170	WESTERN MUSICAL SYMBOL STEM PLUS FLAG THREE
1D171	WESTERN MUSICAL SYMBOL STEM PLUS FLAG FOUR
1D172	WESTERN MUSICAL SYMBOL STEM PLUS FLAG FIVE
1D1A6	WESTERN MUSICAL SYMBOL TIE-START
1D1A7	WESTERN MUSICAL SYMBOL TIE-END
1D1A8	WESTERN MUSICAL SYMBOL BEAM-START
1D1A9	WESTERN MUSICAL SYMBOL BEAM-END
1D1AA	WESTERN MUSICAL SYMBOL SLUR-START
1D1AB	WESTERN MUSICAL SYMBOL SLUR-END
1D1AC	WESTERN MUSICAL SYMBOL PHRASE-START
1D1AD	WESTERN MUSICAL SYMBOL PHRASE-END
1D110	WESTERN MUSICAL SYMBOL ACCENT
1D111	WESTERN MUSICAL SYMBOL STACCATO
1D112	WESTERN MUSICAL SYMBOL TENUTO
1D113	WESTERN MUSICAL SYMBOL STACCATISSIMO
1D114	WESTERN MUSICAL SYMBOL MARCATO
1D115	WESTERN MUSICAL SYMBOL MARCATO-STACCATO
1D116	WESTERN MUSICAL SYMBOL ACCENT-STACCATO
1D117	WESTERN MUSICAL SYMBOL LOURE

1D11A WESTERN MUSICAL SYMBOL DOIT
 1D11B WESTERN MUSICAL SYMBOL RIP
 1D11C WESTERN MUSICAL SYMBOL FLIP
 1D11D WESTERN MUSICAL SYMBOL SMEAR
 1D11E WESTERN MUSICAL SYMBOL BEND
 1D11F WESTERN MUSICAL SYMBOL DOUBLE TONGUE
 1D120 WESTERN MUSICAL SYMBOL TRIPLE TONGUE
 1D135 WESTERN MUSICAL SYMBOL FERMATA UNDER
 1D157 WESTERN MUSICAL SYMBOL DOWN BOW
 1D158 WESTERN MUSICAL SYMBOL UP BOW
 1D159 WESTERN MUSICAL SYMBOL HARMONIC
 1D15A WESTERN MUSICAL SYMBOL SNAP PIZZICATO

to

(using the hex positions from the proposed Annex 2 below)

1D111 WESTERN MUSICAL SYMBOL FERMATA BELOW
 1D165 WESTERN MUSICAL SYMBOL COMBINING STEM
 1D166 WESTERN MUSICAL SYMBOL COMBINING SPRECHGESANG STEM
 1D167 WESTERN MUSICAL SYMBOL COMBINING TREMOLO ONE
 1D168 WESTERN MUSICAL SYMBOL COMBINING TREMOLO TWO
 1D169 WESTERN MUSICAL SYMBOL COMBINING TREMOLO THREE
 1D16C WESTERN MUSICAL SYMBOL FINGERED TREMOLO THREE
 1D16D WESTERN MUSICAL SYMBOL COMBINING AUGMENTATION DOT
 1D16E WESTERN MUSICAL SYMBOL COMBINING FLAG ONE
 1D16F WESTERN MUSICAL SYMBOL COMBINING FLAG TWO
 1D170 WESTERN MUSICAL SYMBOL COMBINING FLAG THREE
 1D171 WESTERN MUSICAL SYMBOL COMBINING FLAG FOUR
 1D172 WESTERN MUSICAL SYMBOL COMBINING FLAG FIVE
 1D175 WESTERN MUSICAL SYMBOL BEGIN TIE
 1D176 WESTERN MUSICAL SYMBOL END TIE
 1D173 WESTERN MUSICAL SYMBOL BEGIN BEAM
 1D174 WESTERN MUSICAL SYMBOL END BEAM
 1D177 WESTERN MUSICAL SYMBOL BEGIN SLUR
 1D178 WESTERN MUSICAL SYMBOL END SLUR
 1D179 WESTERN MUSICAL SYMBOL BEGIN PHRASE
 1D17A WESTERN MUSICAL SYMBOL END PHRASE
 1D17B WESTERN MUSICAL SYMBOL COMBINING ACCENT
 1D17C WESTERN MUSICAL SYMBOL COMBINING STACCATO
 1D17D WESTERN MUSICAL SYMBOL COMBINING TENUTO
 1D17E WESTERN MUSICAL SYMBOL COMBINING STACCATISSIMO
 1D17F WESTERN MUSICAL SYMBOL COMBINING MARCATO
 1D180 WESTERN MUSICAL SYMBOL COMBINING MARCATO-STACCATO
 1D181 WESTERN MUSICAL SYMBOL COMBINING ACCENT-STACCATO
 1D182 WESTERN MUSICAL SYMBOL COMBINING LOURE
 1D185 WESTERN MUSICAL SYMBOL COMBINING DOIT
 1D186 WESTERN MUSICAL SYMBOL COMBINING RIP
 1D187 WESTERN MUSICAL SYMBOL COMBINING FLIP
 1D188 WESTERN MUSICAL SYMBOL COMBINING SMEAR
 1D189 WESTERN MUSICAL SYMBOL COMBINING BEND
 1D18A WESTERN MUSICAL SYMBOL COMBINING DOUBLE TONGUE
 1D18B WESTERN MUSICAL SYMBOL COMBINING TRIPLE TONGUE
 1D1AA WESTERN MUSICAL SYMBOL COMBINING DOWN BOW
 1D1AB WESTERN MUSICAL SYMBOL COMBINING UP BOW
 1D1AC WESTERN MUSICAL SYMBOL COMBINING HARMONIC
 1D1AD WESTERN MUSICAL SYMBOL COMBINING SNAP PIZZICATO

The chief reason for this is that the compound hyphenated nouns are more ambiguous than the simpler verb + noun description.

Clause 10 Table 10 - Row D5: MATHEMATICAL ALPHANUMERIC SYMBOLS

T.10-T10.1. We object to the name OPEN-FACE for characters U+1D538 - U+1D57F. While ISO/IEC 10646 contains related characters named DOUBLE-STRUCK, in fact the correct terminology for characters with these is *INLINE*. According to Eckersley *et al.* (*Glossary of typesetting terms*, Chicago 1994, ISBN 0-226-18371-8), an *open letter* is a

letter in which only the outlines are drawn and interior spaces are partially or completely open.

Also called *outline letter*.

Eckersley *et al.* also define an *inline letter*, which is

type ornamented with a continuous white line within the main stroke.

Bringinghurst (*The elements of typographic style*, Point Roberts & Vancouver 1997, ISBN 0-88179-133-4) agrees with this taxonomy in his definition of *inline*:

A letter in which the inner portions of the main strokes have been carved away, leaving the edges more or less intact. Inline faces lighten the cover while perserving the shapes and proportions of the original face. *Outline* letters, on the other hand, are produced by drawing a line around the outsides of the letters and removing the entire original form. Outline letters, in consequence, are fatter than the originals and have less definition.

Bringinghurst does not use the term “open”; nor do most other sources we have examined. It is clear that *inline letters* and not *outline letters* are used in mathematical contexts as shown in the charts in the FCD (as do the letterlike symbols in the first edition of ISO/IEC 10646-1, and in Unicode 1.0, 2.0, and 3.0). Further, the use of the term FACE in these character names could apply equally to the BOLD and ITALIC characters encoded in this same block, which should then be BOLD-FACE and ITALIC-FACE. Either the existing term should be used or the more correct technical term should be used: accordingly, MATHEMATICAL OPEN-FACE SMALL X should be changed to either MATHEMATICAL DOUBLE-STRUCK SMALL X OR MATHEMATICAL INLINE SMALL X. This is important because, for good or for ill, font developers are often guided by the character names. *Outline letters* (= *open letters*) are distinguished from *inline letters* and it is the latter which are used as mathematical alphanumeric symbols. *Open-face* is incorrect here.

Clause 10 Table 11 - Row D5: MATHEMATICAL ALPHANUMERIC SYMBOLS

T.10-T11.1. We object to the name OPEN-FACE for characters U+1D580 - U+1D59F. Replace it with the term DOUBLE-STRUCK OR *INLINE*.

T.10-T11.2. We object to the name SANS for characters U+1D5A0 - U+1D57F. SANS is a common truncation used at the ends of font names as a kind of shorthand, but the full and technically correct term SANS-SERIF must be used in the character names. Eckersley *et al.*, Bringinghurst, and other sources consulted agree and none of them says just SANS except in font names.

MATHEMATICAL SANS SMALL X should be changed to or MATHEMATICAL SANS-SERIF SMALL X.

Clause 10 Table 12 - Row D6: MATHEMATICAL ALPHANUMERIC SYMBOLS

T.10-T12.1. We object to the name SANS for characters U+1D600 - U+1D66F. Replace it with the term SANS-SERIF.

Clause 10 Table 14 - Row D7: MATHEMATICAL ALPHANUMERIC SYMBOLS

T.10-T14.1. We object to the name SANS for characters U+1D756 - U+1D77F. Replace it with the term SANS-SERIF.

Clause 10 Table 15 - Row D7: MATHEMATICAL ALPHANUMERIC SYMBOLS

T.10-T15.1. We object to the name SANS for characters U+1D780 - U+1D7C9 and U+1D7E2 - U+1D7F5. Replace it with the term SANS-SERIF.

T.10-T15.2. We object to the name OPEN-FACE for characters U+1D7D8 - U+1D7E1. Replace it with the term DOUBLE-STRUCK OR INLINE.

Clause 11.2

T.11-2.1. At the end of the clause, change “is not used for this plane” to “does not apply to this plane”.

Clause 12.1

T.12-1.1. Delete the note. Unassigned code positions in *any* range shall not be used.

T.12-1.2. In the rubric to Figure 2, change “General Purpose Plane” to “Special Purpose Plane”.

Clause 12.2

T.12-2.1. This text does not seem to say what it intends to say. We propose: “The characters specified in the TAGS block are not intended to have printable graphic characters. This is indicated in the code table by their representation as letters over a tag icon surrounded by a dashed box. The intended use of these characters is described in annex E” [not D].

Clause 12 Table 16 - Row 00: TAGS

T.12-T16.1. P=14 should read in hexadecimal P=0E to the right of the glyph table and at the foot of the names table. Otherwise people could be led to construct code positions additively, so U+140001 instead of the correct U+E0001.

T.12-T16.2. The first paragraph of clause E.1 states that “tagging could be used to mark the language or the font applied to a portion of text”. This implies that an additional character U+E0002 FONT TAG could be added. (We recommend this, if this usage is really anticipated.)

Annex A.1

T.A1.1. Change “Position” to “Positions”.

T.A1.2. Change ETRUSCAN to OLD ITALIC.

T.A1.3. Use five-digit notation throughout.

T.A1.4. In the note after 3001 TAGS, write out “CJK EXT-B” as “CJK UNIFIED IDEOGRAPHS EXTENSION B”.

T.A1.5. Delete “The following collection specifies characters used for alternate formats.” and merge the entry in numeric order with the other collections above.

T.A1.6. We are not sure what the function of collection 3002 is. Part 1 does not define a collection called ALTERNATE FORMAT CHARACTERS, so the “EXTENDED” in the collection name seems to be superfluous here and should be deleted. Is this an assignment (i.e., a preallocation) of character positions?

T.A1.7. Delete “The following specify other collections” and merge the entries in numeric order with the other collections above.

T.A1.8. Is “PART 2” a valid collection name? We propose the name “UCS PART-2” (name elements should not begin with a digit according to ISO/IEC 10646-1 Annex L; presumably this applies to collection names as well as character names).

Annex A.2

T.A2.1. Change “from t0” to “Positions”.

T.A2.2. Change ETRUSCAN to OLD ITALIC.

Annex A.3

T.A3.1. In the title, change “Block” to “Blocks”. In the text, change “block is” to “blocks are”.

T.A3.2. Change “from t0” to “Positions”.

Annex A.4

T.A4.1. In the text, change “blocks are” to “block is”.

T.A4.2. Change “from t0” to “Positions”.

Annex B

T.B.1. Add the following characters to the list of combining characters, replacing the set of characters which is already there (it is a subset of the list here which contains revised character names as requested in T.10-T7.6 above.

1D165	WESTERN MUSICAL SYMBOL COMBINING STEM
1D166	WESTERN MUSICAL SYMBOL COMBINING SPRECHGESANG STEM
1D167	WESTERN MUSICAL SYMBOL COMBINING TREMOLO ONE
1D168	WESTERN MUSICAL SYMBOL COMBINING TREMOLO TWO
1D169	WESTERN MUSICAL SYMBOL COMBINING TREMOLO THREE
1D16D	WESTERN MUSICAL SYMBOL COMBINING AUGMENTATION DOT
1D16E	WESTERN MUSICAL SYMBOL COMBINING FLAG ONE
1D16F	WESTERN MUSICAL SYMBOL COMBINING FLAG TWO
1D170	WESTERN MUSICAL SYMBOL COMBINING FLAG THREE
1D171	WESTERN MUSICAL SYMBOL COMBINING FLAG FOUR
1D172	WESTERN MUSICAL SYMBOL COMBINING FLAG FIVE
1D17B	WESTERN MUSICAL SYMBOL COMBINING ACCENT
1D17C	WESTERN MUSICAL SYMBOL COMBINING STACCATO
1D17D	WESTERN MUSICAL SYMBOL COMBINING TENUTO
1D17E	WESTERN MUSICAL SYMBOL COMBINING STACCATISSIMO
1D17F	WESTERN MUSICAL SYMBOL COMBINING MARCATO
1D180	WESTERN MUSICAL SYMBOL COMBINING MARCATO-STACCATO
1D181	WESTERN MUSICAL SYMBOL COMBINING ACCENT-STACCATO
1D182	WESTERN MUSICAL SYMBOL COMBINING LOURE
1D185	WESTERN MUSICAL SYMBOL COMBINING DOIT
1D186	WESTERN MUSICAL SYMBOL COMBINING RIP
1D187	WESTERN MUSICAL SYMBOL COMBINING FLIP
1D188	WESTERN MUSICAL SYMBOL COMBINING SMEAR
1D189	WESTERN MUSICAL SYMBOL COMBINING BEND
1D18A	WESTERN MUSICAL SYMBOL COMBINING DOUBLE TONGUE
1D18B	WESTERN MUSICAL SYMBOL COMBINING TRIPLE TONGUE
1D1AA	WESTERN MUSICAL SYMBOL COMBINING DOWN BOW
1D1AB	WESTERN MUSICAL SYMBOL COMBINING UP BOW
1D1AC	WESTERN MUSICAL SYMBOL COMBINING HARMONIC
1D1AD	WESTERN MUSICAL SYMBOL COMBINING SNAP PIZZICATO

Annex D

To answer the editor’s query: Yes, Annex D is needed.

T.D.1. Change ETRUSCAN to OLD ITALIC and reorder the list.

T.D.2. Delete 0326 ETRUSCAN NUMERAL ALTERNATE ONE HUNDRED, 0328 ETRUSCAN NUMERAL ONE HUNDRED OR ONE THOUSAND, 0327 ETRUSCAN NUMERAL ONE THOUSAND, 0329 ETRUSCAN NUMERAL ONE THOUSAND OR TEN THOUSAND, 0320 ETRUSCAN WORD SEPARATOR.

T.D.3. Add “OLD ITALIC LETTER TA (Messapic)”.

T.D.4. At U+10428 delete one of the spaces between SMALL and LETTER.

T.D.5. Change names of mathematical alphanumeric characters as per comments to clause 10 Tables 10-15 above.

Annex E.2

T.E2.1. In paragraph 2, it is unclear what this means. If it is the case that the tag terminates automatically, why is there a CANCEL TAG character?

Editorial comments

Table of contents

E.C.1. The tab fill character should be “full stop + space” not just “full stop”.

E.C.2. A space should follow each of the clause titles before the tab to the page number (*cf.* Scope with Definitions).

E.C.3. The subtitle “ANNEXES” is superfluous and should be deleted.

E.C.4. The titles of the annexes should not be in all caps. Conform to the formatting of ISO/IEC 10646-1:2000.

E.C.5. Annex G is “Sources of characters”.

Clause 1

E.1.1. In the third paragraph, change “This second part specifies:” to “ISO/IEC 10646-2 specifies:”.

E.1.2. Change full stop into semicolon after the third bullet point on the SPP.

E.1.3. Change “Graphic characters ... are not repeated” to “Graphic characters ... are not duplicated”.

Clause 2

E.2.1. Say: “Conformance to this part of ISO/IEC 10646 is as specified in clause 2 of ISO/IEC 10646-1.”

Clause 5

E.5.1. Change first paragraph: “In addition to the definitions specified in ISO/IEC 10646-1:2000, the following definitions apply to this part of ISO/IEC 10646:”

Clause 6

E.6.1. Change the last sentence here to: “The SMP contains coded graphic characters used in scripts of the world that are not already encoded in the BMP. Most, but not all, of the scripts encoded or roadmapped for encoding in the SMP are not in use as living scripts by modern user communities.” (Living SMP scripts would include Blissymbols and Sutton SignWriting.)

E.6.2. Delete the word “miscellaneous” before “syllabaries” in the second bullet point of the note.

Clause 8

E.8.1. Change “Alternate format characters” to “Alternate Format Characters”.

E.8.2. Change “Part1” to “Part 1”, or preferably to “ISO/IEC 10646-1”.

Clause 9

E.9.1. Change “This part of the standard contains” to “This part of ISO/IEC 10646 specifies”. Likewise the word “contained” in the last sentence should be changed to “specified”.

Clause 10

E.10.1. The word “Note” in the note should be written in capital letters and followed by a space before the dash.

E.10.2. Assuming that our technical comments to clause 10 Table 1 are accepted, change the

text of the note to:

The Old Italic block represents a unified script which covers the Etruscan, Oscan, Umbrian, Faliscan, Messapic, North Picene, and Middle Adriatic alphabets. Some of these scripts have both right-to-left and left-to-right orientations. The glyphs in the code table are based on the Marsiliana prototype alphabet, and are shown with left-to-right orientation.

E.10.3. In the table, change “Etruscan” to “Old Italic”.

Clause 10 Table 1 - Row 03: ETRUSCAN

E.10-T1.1. The glyphs should be reviewed and the Marsiliana prototype alphabet glyphs should be used where possible. See Annex 1 for a table of improved glyphs. We can supply the correct fonts to the editor.

E.10-T1.2. The glyph for U+10322 should be turned.

Clause 10 Table 5 - Row D0: BYZANTINE MUSICAL SYMBOLS

E.10-T5.1. Add space after E5 in the hex column of the names table so the numbers line up with the character names.

Clause 10 Table 6 - Row D1: WESTERN MUSICAL SYMBOLS

E.10-T6.1. Add dotted circles to the following glyphs which are defined to be combining characters in Annex B. See T.B.1 above for a list of these. See Annex 2 for a table of improved glyphs. We can supply the correct fonts to the editor.

E.10-T6.2. Add dashed boxes NULL NOTEHEAD and the START and END characters.

E.10-T6.3. Increase the size of the characters in the boxes somewhat.

Clause 10 Table 10 - Row D5: MATHEMATICAL ALPHANUMERIC SYMBOLS

E.10-T10.1. Path directions for the inline glyphs need to be corrected as some are printing too dark (roman B K M O W, italic D H K M N etc.). See Annex 3 for a table of improved glyphs. We can supply the correct fonts to the editor.

E.10-T10.2. The skew angle for the inline italics is too great and should be lessened and the glyphs centred in the box.

Clause 10 Table 11 - Row D5: MATHEMATICAL ALPHANUMERIC SYMBOLS

E.10-T11.1. Path directions for the inline glyphs need to be corrected as some are printing too dark (V W X h m w).

E.10-T11.2. The skew angle for the inline italics is too great and should be lessened and the glyphs centred in the box.

Clause 10 Table 13 - Row D6: MATHEMATICAL ALPHANUMERIC SYMBOLS

E.10-T13.1. U+1D6B9: Fix glyph: make bolder, as U+1D6B6.

E.10-T13.2. U+1D6DB: Fix glyph: make bolder.

E.10-T13.3. U+1D6DE: Fix glyph: make bolder.

E.10-T13.4. U+1D6E9: Fix glyph: cross-bar too high.

E.10-T13.5. U+1D6F3: Fix glyph: make bolder, as U+1D6F0.

E.10-T13.6. U+1D6FB: Skew angle is too great; harmonize with the font and use turned U+1D6E5.

Clause 10 Table 14 - Row D7: MATHEMATICAL ALPHANUMERIC SYMBOLS

E.10-T14.1. U+1D715, U+1D716, U+1D71B: Fix glyphs: make lighter with a lesser skew angle.

- E.10-T14.2. U+1D72D: Fix glyph: make bolder with a lesser skew angle, as U+1D72A.
- E.10-T14.3. U+1D735: Fix glyph: make bolder with a lesser skew angle, as turned U+1D71F.
- E.10-T14.4. U+1D74F: Fix glyph: make with a lesser skew angle.
- E.10-T14.5. U+1D75D: Replace with glyph from U+1D767.
- E.10-T14.6. U+1D767: Fix glyph: extend bar to merge with curve.
- E.10-T14.7. U+1D76A: Fix glyph: make slightly bolder.
- E.10-T14.8. U+1D76F: Fix glyph: use turned U+1D759.

Clause 10 Table 15 - Row D7: MATHEMATICAL ALPHANUMERIC SYMBOLS

- E.10-T15.1. U+1D789, U+1D78A, U+1D78D: Fix glyphs; harmonize with face.
- E.10-T15.2. U+1D78B: Fix glyph: make slightly bolder.
- E.10-T15.3. U+1D78E, U+1D78F: Fix glyph: make slightly bolder.
- E.10-T15.4. U+1D797: Replace with glyph from U+1D7A1.
- E.10-T15.5. U+1D7A1: Fix glyph: extend bar to merge with curve.
- E.10-T15.6. U+1D7A4: Fix glyph: make slightly bolder.
- E.10-T15.7. U+1D7A9: Fix glyph: use turned U+1D793.
- E.10-T15.8. U+1D7C3 - U+1D7C9: Harmonize as per comments on similar glyphs above.

Clause 11.1

- E.11-1.1. In the title of Figure 2, delete “Unified”.

Clause 11.2

- E.11-2.1. Change “The sources references” to “The source references”.
- E.11-2.2. Change “in Annex C (normative)” to “in the normative Annex C”.
- E.11-2.3. Delete “that are” at G_KX and G_HZ.
- E.11-2.4. Change “except for a 10 line header” to “in addition to a 10-line header”.
- E.11-2.5. The paragraph beginning “The formal definition...” should be justified.
- E.11-2.6. Replace CJK double-angle parentheses with Latin round parentheses. Add parentheses for G-FZ. For G_HZ use both: (<UVWX> YZ).

Clause 11.3

- E.11-3.1. Change “plane” to “planes” in the first sentence.
- E.11-3.2. Capitalize the word “note” in the note and follow it by a space and a dash.

Clause 12 Table 16 - Row 00: TAGS

- E.12-T16.1. Fix the path directions of U+E002F, U+E003F, U+E004D, U+E004E, U+E004F, U+E005D, U+E006D, U+E006E, U+E006F, U+E007D, U+E007F so they do not print bold.

Annex B

- E.B.1. Change “enumerated” to “listed”.
- E.B.2. Change “level2” to “level 2”.

Annex D

- E.D.1. Change “CJK Ideographs” to “CJK Unified Ideographs” in the first paragraph and also in the title and text of D.2.
- E.D.2. Correct paragraph formatting for WESTERN MUSICAL SYMBOL FLIP through WESTERN MUSICAL SYMBOL LONGA.

Annex E.1

- E.E1.1. In paragraph 1, change “those” to “these”.
- E.E1.2. In paragraph 2, change “These tag characters are to be used” to “These tag characters can be used”.
- E.E1.3. In paragraph 3, change “ASCII-based” to “ISO/IEC-646-based” or “Collection-1-based”.
- E.E1.4. In paragraph 4, change “in details these issues” to “these issues in detail”.
- E.E1.5. In paragraph 5, change “contain” to “contains”.
- E.E1.6. In paragraph 5, change “a tag language identification character” to “a language tag identification character”.
- E.E1.7. In paragraph 6, delete the sentence that begins “Although only one type of tag”, since this text will only have to be revised if a new tag identification character is added. (We propose the addition of FONT TAG now, as per the first paragraph of Annex E.)

Annex E.2

- E.E2.1. In paragraph 3, change “ASCII-derived” to “ISO/IEC-646-derived” or “Collection-1-derived”.
- E.E2.2. In paragraph 1, delete “instead”.
- E.E2.3. In paragraph 1, delete the sentence beginning “The resultant string” as it is superfluous.
- E.E2.4. In paragraph 3, delete “only”.

Annex E.3

- E.E3.1. In paragraph 2, delete “in any way”.
- E.E3.2. In paragraph 2, change “language tagged” to “language-tagged”.

Annex E.5

- E.E5.1. Use five-digit hexadecimal representation.
- E.E5.2. Change “corresponds to the Japanese language” to “corresponds to 2-letter code representing the Japanese language”

Annex F

- E.F.1. In paragraph 1, change “made” to “comprised”.
- E.F.2. In paragraph 1, change “the following text” to “this Annex”.
- E.F.3. In paragraph 1, change “details” to “detail”.

Annex F.1

REVIEW BYZANTINE

Annex F.2

- E.F2.1. In paragraph 1, change “This standard” to “This international standard” .
- E.F2.2. In paragraph 1, change “solutions for these needs” to “solutions meeting these requirements” .
- E.F2.3. In paragraph 1, change “in general purpose text description of musical matters” to “for general purposes in text descriptions of musical notation” .
- E.F2.4. In paragraph 2, change “Extensive” to “Extended” .
- E.F2.5. In paragraph 3, delete commas at ends of bulleted list and add a space between the bulleted list and the next line.
- E.F2.6. In paragraph 4, change “rendering slurs, beams, and so forth as appropriate” to “rendering ties, slurs, beams, and phrases as appropriate”.
- E.F2.7. In paragraph 5, change “values and primitives” to “values as well as primitives” .
- E.F2.8. In paragraph 5, change “may be constructed” to “are constructed” .

- E.F2.9. In paragraph 5, delete the sentence on data size. Normalization of Latin 1 increases data size, and we are all expected to put up with that!
- E.F2.10. In paragraph 5, change “may not want to distinguish” to “may wish to equivalence or normalize”.
- E.F2.11. Add code positions to the lists as shown here (using the new code positions as proposed in Annex 2). Note that in the FCD “ONE HUNDRED TWENTY-EIGHTH NOTE” is misspelled “ON HUNDRED TWENTY-EIGHTH NOTE”.

U+1D15E WESTERN MUSICAL SYMBOL HALF NOTE ≈ U+1D157 WESTERN MUSICAL SYMBOL VOID NOTEHEAD + U+1D165 WESTERN MUSICAL SYMBOL COMBINING STEM	MUSICAL SYMBOL COMBINING FLAG FIVE ...
U+1D15F WESTERN MUSICAL SYMBOL QUARTER NOTE ≈ U+1D158 WESTERN MUSICAL SYMBOL NOTEHEAD BLACK + U+1D165 WESTERN MUSICAL SYMBOL COMBINING STEM	U+1D147 WESTERN MUSICAL SYMBOL SQUARE NOTEHEAD BLACK + U+1D165 WESTERN MUSICAL SYMBOL COMBINING STEM U+1D143 WESTERN MUSICAL SYMBOL X NOTEHEAD + U+1D165 WESTERN MUSICAL SYMBOL COMBINING STEM
U+1D160 WESTERN MUSICAL SYMBOL EIGHTH NOTE ≈ U+1D158 WESTERN MUSICAL SYMBOL NOTEHEAD BLACK + U+1D16E WESTERN MUSICAL SYMBOL COMBINING FLAG ONE	... U+1D160 WESTERN MUSICAL SYMBOL EIGHTH NOTE + U+1D16D WESTERN MUSICAL SYMBOL COMBINING AUGMENTATION DOT ≈ U+1D158 WESTERN MUSICAL SYMBOL NOTEHEAD BLACK + U+1D16E WESTERN MUSICAL SYMBOL COMBINING COMBINING FLAG ONE + U+1D16D WESTERN MUSICAL SYMBOL COMBINING AUGMENTATION DOT
U+1D1A1 WESTERN MUSICAL SYMBOL SIXTEENTH NOTE ≈ U+1D158 WESTERN MUSICAL SYMBOL NOTEHEAD BLACK + U+1D16F WESTERN MUSICAL SYMBOL COMBINING FLAG TWO	U+1D15F WESTERN MUSICAL SYMBOL QUARTER NOTE + U+1D17C WESTERN MUSICAL SYMBOL COMBINING STACCATO ≈ U+1D158 WESTERN MUSICAL SYMBOL NOTEHEAD BLACK + U+1D165 WESTERN MUSICAL SYMBOL COMBINING STEM + U+1D17C WESTERN MUSICAL SYMBOL COMBINING STACCATO
U+1D1A2 WESTERN MUSICAL SYMBOL THIRTY-SECOND NOTE ≈ U+1D158 WESTERN MUSICAL SYMBOL NOTEHEAD BLACK + U+1D170 WESTERN MUSICAL SYMBOL COMBINING FLAG THREE	... U+1D160 WESTERN MUSICAL SYMBOL EIGHTH NOTE + U+1D16D WESTERN MUSICAL SYMBOL COMBINING AUGMENTATION DOT + U+1D16D WESTERN MUSICAL SYMBOL COMBINING AUGMENTATION DOT + U+1D17B WESTERN MUSICAL SYMBOL COMBINING ACCENT
U+1D1A3 WESTERN MUSICAL SYMBOL SIXTY-FOURTH NOTE ≈ U+1D158 WESTERN MUSICAL SYMBOL NOTEHEAD BLACK + U+1D171 WESTERN MUSICAL SYMBOL COMBINING FLAG FOUR	
U+1D1A4 WESTERN MUSICAL SYMBOL ONE HUNDRED TWENTY-EIGHTH NOTE ≈ U+1D158 WESTERN MUSICAL SYMBOL NOTEHEAD BLACK + U+1D172 WESTERN	

- E.F2.12. In paragraph 4, change “pre-composed” to “precomposed”.

Annex G

- E.G.1. Italicize the following: *Utah Humanities Review*, *The Greek Byzantine Music Notation System*, *Norton Manual of Music*, *Notation of Western Music*.
- E.G.2. Change ETRUSCAN to OLD ITALIC.
- E.G.3. Replace entry under Etruscan with:
Bonfante, Larissa. 1996. “The scripts of Italy”, in Peter T. Daniels and William Bright, eds. *The world’s writing systems*. New York; Oxford: Oxford University Press. ISBN 0-19-507993-0

TABLE 1 - Row 03: OLD ITALIC

	030	031	032
0	𐌱	𐌲	𐌳
1	𐌴	𐌵	𐌶
2	𐌷	𐌸	𐌹
3	𐌺	𐌻	𐌼
4	𐌽	𐌾	𐌿
5	𐍂	𐍃	
6	𐍅	𐍆	
7	𐍇	𐍈	
8	𐍉	𐍊	
9	𐍋	𐍌	
A	𐍎	𐍏	
B	𐍐	𐍑	
C	𐍓	𐍔	
D	𐍖	𐍗	
E	𐍙	𐍚	
F	𐍛	𐍜	

G = 00
P = 01

TABLE XXX - Row xx: GOTHIC

	030	03
0	ᐱ	П
1	ᐃ	ᐅ
2	ᐇ	ᐊ
3	ᐋ	ᐆ
4	ᐉ	ᐅ
5	ᐍ	ᐃ
6	ᐊ	ᐆ
7	ᐇ	ᐊ
8	ᐅ	ᐅ
9	ᐇ	ᐅ
A	ᐊ	ᐅ
B	ᐊ	
C	ᐊ	
D	ᐊ	
E	ᐊ	
F	ᐊ	

G = 00
P = 01

TABLE 4- Row D0: BYZANTINE MUSICAL SYMBOLS

	D00	D01	D02	D03	D04	D05	D06	D07
0								
1								
2								
3								
4								
5								
6								
7								
8								
9								
A								
B								
C								
D								
E								
F								

G = 00
P = 01

TABLE 4 - Row D0: BYZANTINE MUSICAL SYMBOLS

dec	hex	Name
000	00	BYZANTINE MUSICAL SYMBOL PSILI (u)
001	01	BYZANTINE MUSICAL SYMBOL DASEIA (u)
002	02	BYZANTINE MUSICAL SYMBOL PERISPOMENI (u)
003	03	BYZANTINE MUSICAL SYMBOL OXEIA EK FONITIKON (u)
004	04	BYZANTINE MUSICAL SYMBOL OXEIA DIPLI (u)
005	05	BYZANTINE MUSICAL SYMBOL VAREIA EK FONITIKON (u)
006	06	BYZANTINE MUSICAL SYMBOL VAREIA DIPLI (u)
007	07	BYZANTINE MUSICAL SYMBOL KATHISTI (u)
008	08	BYZANTINE MUSICAL SYMBOL SYRMATIKI (u)
009	09	BYZANTINE MUSICAL SYMBOL PARAKLITIKI (u)
010	0A	BYZANTINE MUSICAL SYMBOL YPOKRISIS (u)
011	0B	BYZANTINE MUSICAL SYMBOL YPOKRISIS DIPLI (u)
012	0C	BYZANTINE MUSICAL SYMBOL KREMASTI (u)
013	0D	BYZANTINE MUSICAL SYMBOL APESO EK FONITIKON (l)
014	0E	BYZANTINE MUSICAL SYMBOL EXO EK FONITIKON (u)
015	0F	BYZANTINE MUSICAL SYMBOL TELEIA (m)
016	10	BYZANTINE MUSICAL SYMBOL KENTIMATA (u)
017	11	BYZANTINE MUSICAL SYMBOL APOSTROFOS (m)
018	12	BYZANTINE MUSICAL SYMBOL APOSTROFOS DIPLI (m)
019	13	BYZANTINE MUSICAL SYMBOL SYNEVMA (l)
020	14	BYZANTINE MUSICAL SYMBOL THITA (u)
021	15	BYZANTINE MUSICAL SYMBOL OLIGON ARCHAIC (u)
022	16	BYZANTINE MUSICAL SYMBOL GORGON ARCHAIC (u)
023	17	BYZANTINE MUSICAL SYMBOL PSILON (u)
024	18	BYZANTINE MUSICAL SYMBOL CHAMILON (u)
025	19	BYZANTINE MUSICAL SYMBOL VATHY (u)
026	1A	BYZANTINE MUSICAL SYMBOL ISON ARCHAIC (u)
027	1B	BYZANTINE MUSICAL SYMBOL KENTIMA ARCHAIC (u)
028	1C	BYZANTINE MUSICAL SYMBOL KENTIMATA ARCHAIC (u)
029	1D	BYZANTINE MUSICAL SYMBOL SAXIMATA (u)
030	1E	BYZANTINE MUSICAL SYMBOL PARICHON (u)
031	1F	BYZANTINE MUSICAL SYMBOL STAVROS APODEXIA (u)
032	20	BYZANTINE MUSICAL SYMBOL OXEIAI ARCHAIC (u)
033	21	BYZANTINE MUSICAL SYMBOL VAREIAI ARCHAIC (m)
034	22	BYZANTINE MUSICAL SYMBOL APODERMA ARCHAIC (l)
035	23	BYZANTINE MUSICAL SYMBOL APOTHEMA (l)
036	24	BYZANTINE MUSICAL SYMBOL KLASMA (u)
037	25	BYZANTINE MUSICAL SYMBOL REVMA (u)
038	26	BYZANTINE MUSICAL SYMBOL PIASMA ARCHAIC (u)
039	27	BYZANTINE MUSICAL SYMBOL TINAGMA (l)
040	28	BYZANTINE MUSICAL SYMBOL ANATRICHISMA (u)
041	29	BYZANTINE MUSICAL SYMBOL SEISMA (l)
042	2A	BYZANTINE MUSICAL SYMBOL SYNAGMA ARCHAIC (l)
043	2B	BYZANTINE MUSICAL SYMBOL SYNAGMA METASTAVROU (l)
044	2C	BYZANTINE MUSICAL SYMBOL OYRANISMA ARCHAIC (u)
045	2D	BYZANTINE MUSICAL SYMBOL THEMA (l)
046	2E	BYZANTINE MUSICAL SYMBOL LEMOI (l)
047	2F	BYZANTINE MUSICAL SYMBOL DYO (m)
048	30	BYZANTINE MUSICAL SYMBOL TRIA (m)
049	31	BYZANTINE MUSICAL SYMBOL TESSERA (m)
050	32	BYZANTINE MUSICAL SYMBOL KRATIMATA (l)
051	33	BYZANTINE MUSICAL SYMBOL APESO EXO LATE (m)
052	34	BYZANTINE MUSICAL SYMBOL FTHORA ARCHAIC (u)
053	35	BYZANTINE MUSICAL SYMBOL IMIFTHORA (u)
054	36	BYZANTINE MUSICAL SYMBOL TROMIKON ARCHAIC (l)
055	37	BYZANTINE MUSICAL SYMBOL KATAVA TROMIKON (u)
056	38	BYZANTINE MUSICAL SYMBOL PELASTON (u)
057	39	BYZANTINE MUSICAL SYMBOL PSIFISTON (u)
058	3A	BYZANTINE MUSICAL SYMBOL KONTEVMA (u)
059	3B	BYZANTINE MUSICAL SYMBOL CHOREVMA ARCHAIC (u)
060	3C	BYZANTINE MUSICAL SYMBOL RAPISMA (u)
061	3D	BYZANTINE MUSICAL SYMBOL PARAKALESMA ARCHAIC (l)
062	3E	BYZANTINE MUSICAL SYMBOL PARAKLITIKI ARCHAIC (u)
063	3F	BYZANTINE MUSICAL SYMBOL ICHADIN (u)
064	40	BYZANTINE MUSICAL SYMBOL NANA (m)
065	41	BYZANTINE MUSICAL SYMBOL PETASMA (u)
066	42	BYZANTINE MUSICAL SYMBOL KONTEVMA ALLO (u)
067	43	BYZANTINE MUSICAL SYMBOL TROMIKON ALLO (u)
068	44	BYZANTINE MUSICAL SYMBOL STRAGGISMATA (l)
069	45	BYZANTINE MUSICAL SYMBOL GRONTHISMATA (l)
070	46	BYZANTINE MUSICAL SYMBOL ISON LATE (m)
071	47	BYZANTINE MUSICAL SYMBOL OLIGON LATE (m)
072	48	BYZANTINE MUSICAL SYMBOL OXEIA LATE (m)
073	49	BYZANTINE MUSICAL SYMBOL PETASTI (m)
074	4A	BYZANTINE MUSICAL SYMBOL KOUFISMA (m)
075	4B	BYZANTINE MUSICAL SYMBOL PETASTOKOUFISMA (m)
076	4C	BYZANTINE MUSICAL SYMBOL KRATIMOKOUFISMA (m)
077	4D	BYZANTINE MUSICAL SYMBOL PELASTON LATE (m)
078	4E	BYZANTINE MUSICAL SYMBOL KENTIMATA LATE ANO (u)
079	4F	BYZANTINE MUSICAL SYMBOL KENTIMA LATE ANO (u)
080	50	BYZANTINE MUSICAL SYMBOL YPSILI (u)
081	51	BYZANTINE MUSICAL SYMBOL APOSTROFOS LATE (u)
082	52	BYZANTINE MUSICAL SYMBOL APOSTROFOI SYNDESMOS LATE (u)
083	53	BYZANTINE MUSICAL SYMBOL YPORROI (m)
084	54	BYZANTINE MUSICAL SYMBOL KRATIMOYPORROON (m)
085	55	BYZANTINE MUSICAL SYMBOL ELAFRON (m)
086	56	BYZANTINE MUSICAL SYMBOL CHAMILI (m)
087	57	BYZANTINE MUSICAL SYMBOL MIKRON ISON (m)
088	58	BYZANTINE MUSICAL SYMBOL VAREIA LATE (m)

dec	hex	Name
089	59	BYZANTINE MUSICAL SYMBOL PIASMA LATE (l)
090	5A	BYZANTINE MUSICAL SYMBOL PSIFISTON LATE (l)
091	5B	BYZANTINE MUSICAL SYMBOL OMALON (l)
092	5C	BYZANTINE MUSICAL SYMBOL ANTIKENOMA (l)
093	5D	BYZANTINE MUSICAL SYMBOL LYGISMA (l)
094	5E	BYZANTINE MUSICAL SYMBOL PARAKLITIKI LATE (u)
095	5F	BYZANTINE MUSICAL SYMBOL PARAKALESMA LATE (l)
096	60	BYZANTINE MUSICAL SYMBOL ETERON PARAKALESMA (l)
097	61	BYZANTINE MUSICAL SYMBOL KYLISMA (l)
098	62	BYZANTINE MUSICAL SYMBOL ANTIKENOKYLISMA (l)
099	63	BYZANTINE MUSICAL SYMBOL TROMIKON LATE (l)
100	64	BYZANTINE MUSICAL SYMBOL EKSTREPTON (l)
101	65	BYZANTINE MUSICAL SYMBOL SYNAGMA LATE (l)
102	66	BYZANTINE MUSICAL SYMBOL SYRMA (l)
103	67	BYZANTINE MUSICAL SYMBOL CHOREVMA LATE (l)
104	68	BYZANTINE MUSICAL SYMBOL EPEGERMA (l)
105	69	BYZANTINE MUSICAL SYMBOL SEISMA LATE (l)
106	6A	BYZANTINE MUSICAL SYMBOL XIRON KLASMA (l)
107	6B	BYZANTINE MUSICAL SYMBOL TROMIKOPSIFISTON (l)
108	6C	BYZANTINE MUSICAL SYMBOL PSIFISTOLYGISMA (l)
109	6D	BYZANTINE MUSICAL SYMBOL TROMIKOLYGISMA (l)
110	6E	BYZANTINE MUSICAL SYMBOL TROMIKOPARAKALESMA (l)
111	6F	BYZANTINE MUSICAL SYMBOL PSIFISTOPARAKALESMA (l)
112	70	BYZANTINE MUSICAL SYMBOL TROMIKOSYNAGMA (l)
113	71	BYZANTINE MUSICAL SYMBOL PSIFISTOSYNAGMA (l)
114	72	BYZANTINE MUSICAL SYMBOL GORGOSYNTHETON (l)
115	73	BYZANTINE MUSICAL SYMBOL ARGOSYNTHETON (l)
116	74	BYZANTINE MUSICAL SYMBOL ETERON ARGOSYNTHETON (l)
117	75	BYZANTINE MUSICAL SYMBOL OYRANISMA LATE (l)
118	76	BYZANTINE MUSICAL SYMBOL THEMATISMOS ESO (l)
119	77	BYZANTINE MUSICAL SYMBOL THEMATISMOS EXO (u)
120	78	BYZANTINE MUSICAL SYMBOL THEMA APLOUN (l)
121	79	BYZANTINE MUSICAL SYMBOL THES KAI APOTHES (l)
122	7A	BYZANTINE MUSICAL SYMBOL KATAVASMA (l)
123	7B	BYZANTINE MUSICAL SYMBOL ENDOFONON (l)
124	7C	BYZANTINE MUSICAL SYMBOL YFEN KATO (l)
125	7D	BYZANTINE MUSICAL SYMBOL YFEN ANO (u)
126	7E	BYZANTINE MUSICAL SYMBOL STAVROS (u)
127	7F	BYZANTINE MUSICAL SYMBOL KLASMA ANO (u)

TABLE 5 - Row D0: BYZANTINE MUSICAL SYMBOLS

	D08	D09	D0A	D0B	D0C	D0D	D0E	D0F
0								
1								
2								
3								
4								
5								
6								
7								
8								
9								
A								
B								
C								
D								
E								
F								

G = 00
P = 01

TABLE 5 - Row D0: BYZANTINE MUSICAL SYMBOLS

dec	hex	Name
128	80	BYZANTINE MUSICAL SYMBOL DIPLI ARCHAIC (l)
129	81	BYZANTINE MUSICAL SYMBOL KRATIMA ARCHAIC (l)
130	82	BYZANTINE MUSICAL SYMBOL KRATIMA ALLO (l)
131	83	BYZANTINE MUSICAL SYMBOL KRATIMA LATE (l)
132	84	BYZANTINE MUSICAL SYMBOL APODERMA LATE (l)
133	85	BYZANTINE MUSICAL SYMBOL APLI (l)
134	86	BYZANTINE MUSICAL SYMBOL DIPLI (l)
135	87	BYZANTINE MUSICAL SYMBOL TRIPLI (l)
136	88	BYZANTINE MUSICAL SYMBOL TETRAPLI (l)
137	89	BYZANTINE MUSICAL SYMBOL KORONIS (u)
138	8A	BYZANTINE MUSICAL SYMBOL LEIMMA ENOS CHRONOU (m)
139	8B	BYZANTINE MUSICAL SYMBOL LEIMMA DYO CHRONON (m)
140	8C	BYZANTINE MUSICAL SYMBOL LEIMMA TRION CHRONON (m)
141	8D	BYZANTINE MUSICAL SYMBOL LEIMMA TESSARON CHRONON (m)
142	8E	BYZANTINE MUSICAL SYMBOL LEIMMA IMISEOS CHRONOU (u)
143	8F	BYZANTINE MUSICAL SYMBOL GORGON LATE ANO (u)
144	90	BYZANTINE MUSICAL SYMBOL GORGON PARESTIGMENON ARISTERA (u)
145	91	BYZANTINE MUSICAL SYMBOL GORGON PARESTIGMENON DEXIA (u)
146	92	BYZANTINE MUSICAL SYMBOL DIGORGON (u)
147	93	BYZANTINE MUSICAL SYMBOL DIGORGON PARESTIGMENON ARISTERA KATO (u)
148	94	BYZANTINE MUSICAL SYMBOL DIGORGON PARESTIGMENON ARISTERA ANO (u)
149	95	BYZANTINE MUSICAL SYMBOL DIGORGON PARESTIGMENON DEXIA (u)
150	96	BYZANTINE MUSICAL SYMBOL TRIGORGON (u)
151	97	BYZANTINE MUSICAL SYMBOL ARGON (u)
152	98	BYZANTINE MUSICAL SYMBOL IMIDIARGON (u)
153	99	BYZANTINE MUSICAL SYMBOL DIARGON (u)
154	9A	BYZANTINE MUSICAL SYMBOL AGOGI POLI ARG (u)
155	9B	BYZANTINE MUSICAL SYMBOL AGOGI ARGOTER (u)
156	9C	BYZANTINE MUSICAL SYMBOL AGOGI ARG (u)
157	9D	BYZANTINE MUSICAL SYMBOL AGOGI METRIA (u)
158	9E	BYZANTINE MUSICAL SYMBOL AGOGI MESI (u)
159	9F	BYZANTINE MUSICAL SYMBOL AGOGI GORGI (u)
160	A0	BYZANTINE MUSICAL SYMBOL AGOGI GORGOTER (u)
161	A1	BYZANTINE MUSICAL SYMBOL AGOGI POLI GORGI (u)
162	A2	BYZANTINE MUSICAL SYMBOL MARTYRIA PROTOS ICHOS (m)
163	A3	BYZANTINE MUSICAL SYMBOL MARTYRIA ALLI PROTOS ICHOS (m)
164	A4	BYZANTINE MUSICAL SYMBOL MARTYRIA DEYTEROS ICHOS (m)
165	A5	BYZANTINE MUSICAL SYMBOL MARTYRIA ALLI DEYTEROS ICHOS (m)
166	A6	BYZANTINE MUSICAL SYMBOL MARTYRIA TRITOS ICHOS (m)
167	A7	BYZANTINE MUSICAL SYMBOL MARTYRIA TRIFONIAS (m)
168	A8	BYZANTINE MUSICAL SYMBOL MARTYRIA TETARTOS ICHOS (m)
169	A9	BYZANTINE MUSICAL SYMBOL MARTYRIA TETARTOS LEGETOS ICHOS (m)
170	AA	BYZANTINE MUSICAL SYMBOL MARTYRIA LEGETOS ICHOS (m)
171	AB	BYZANTINE MUSICAL SYMBOL MARTYRIA PLAGIOS ICHOS (m)
172	AC	BYZANTINE MUSICAL SYMBOL ISAKIA TELOUS ICHIMATOS (m)
173	AD	BYZANTINE MUSICAL SYMBOL APOSTROFOI TELOUS ICHIMATOS (m)
174	AE	BYZANTINE MUSICAL SYMBOL FANEROSIS TETRAFONIAS (u)
175	AF	BYZANTINE MUSICAL SYMBOL FANEROSIS MONOFONIAS (u)
176	B0	BYZANTINE MUSICAL SYMBOL FANEROSIS DIFONIAS (u)
177	B1	BYZANTINE MUSICAL SYMBOL MARTYRIA VARYS ICHOS (m)
178	B2	BYZANTINE MUSICAL SYMBOL MARTYRIA PROTOVARYS ICHOS (m)
179	B3	BYZANTINE MUSICAL SYMBOL MARTYRIA PLAGIOS TETARTOS ICHOS (m)
180	B4	BYZANTINE MUSICAL SYMBOL GORTHMIKON N APLOUN (m)
181	B5	BYZANTINE MUSICAL SYMBOL GORTHMIKON N DIPLOUN
182	B6	BYZANTINE MUSICAL SYMBOL ENARXIS KAI FTHORA VOI (u)
183	B7	BYZANTINE MUSICAL SYMBOL IMIFONON (l)
184	B8	BYZANTINE MUSICAL SYMBOL IMIFTHORON (l)
185	B9	BYZANTINE MUSICAL SYMBOL FTHORA ARCHAIC DEYTEROU ICHOU (u)
186	BA	BYZANTINE MUSICAL SYMBOL FTHORA DIATONIKI PA (u)
187	BB	BYZANTINE MUSICAL SYMBOL FTHORA DIATONIKI NANA (u)
188	BC	BYZANTINE MUSICAL SYMBOL FTHORA NAOS ICHOS (l)
189	BD	BYZANTINE MUSICAL SYMBOL FTHORA DIATONIKI DI (u)
190	BE	BYZANTINE MUSICAL SYMBOL FTHORA SKLIRON DIATONON DI (u)
191	BF	BYZANTINE MUSICAL SYMBOL FTHORA DIATONIKI KE (u)
192	C0	BYZANTINE MUSICAL SYMBOL FTHORA DIATONIKI ZO (u)
193	C1	BYZANTINE MUSICAL SYMBOL FTHORA DIATONIKI NI KATO (u)
194	C2	BYZANTINE MUSICAL SYMBOL FTHORA DIATONIKI NI ANO (u)
195	C3	BYZANTINE MUSICAL SYMBOL FTHORA MALAKON CHROMA DIFONIAS (u)
196	C4	BYZANTINE MUSICAL SYMBOL FTHORA MALAKON CHROMA MONOFONIAS (u)
197	C5	BYZANTINE MUSICAL SYMBOL FTHORA SKLIRON CHROMA VASIS (u)
198	C6	BYZANTINE MUSICAL SYMBOL FTHORA SKLIRON CHROMA SYNAFI (u)
199	C7	BYZANTINE MUSICAL SYMBOL FTHORA NENANO (u)
200	C8	BYZANTINE MUSICAL SYMBOL CHROA ZYGOS (u)
201	C9	BYZANTINE MUSICAL SYMBOL CHROA KLITON (u)
202	CA	BYZANTINE MUSICAL SYMBOL CHROA SPATHI (u)
203	CB	BYZANTINE MUSICAL SYMBOL FTHORA I YFESIS TETARTIMORION (u)
204	CC	BYZANTINE MUSICAL SYMBOL FTHORA ENARMONIOS ANTIFONIA (u)
205	CD	BYZANTINE MUSICAL SYMBOL YFESIS TRITIMORION (u)
206	CE	BYZANTINE MUSICAL SYMBOL DIESIS TRITIMORION (l)
207	CF	BYZANTINE MUSICAL SYMBOL DIESIS TETARTIMORION (l)
208	D0	BYZANTINE MUSICAL SYMBOL DIESIS APLI DYO DODEKATA (l)
209	D1	BYZANTINE MUSICAL SYMBOL DIESIS MONOGRAMMOS TESSERA DODEKATA (l)
210	D2	BYZANTINE MUSICAL SYMBOL DIESIS DIGRAMMOS EX DODEKATA (l)
211	D3	BYZANTINE MUSICAL SYMBOL DIESIS TRIGRAMMOS OKTO DODEKATA (l)
212	D4	BYZANTINE MUSICAL SYMBOL YFESIS APLI DYO DODEKATA (u)
213	D5	BYZANTINE MUSICAL SYMBOL YFESIS MONOGRAMMOS TESSERA DODEKATA (u)
214	D6	BYZANTINE MUSICAL SYMBOL YFESIS DIGRAMMOS EX DODEKATA (u)
215	D7	BYZANTINE MUSICAL SYMBOL YFESIS TRIGRAMMOS OKTO DODEKATA (u)
216	D8	BYZANTINE MUSICAL SYMBOL GENIKI DIESIS (u)

dec	hex	Name
217	D9	BYZANTINE MUSICAL SYMBOL GENIKI YFESIS (u)
218	DA	BYZANTINE MUSICAL SYMBOL DIASTOLI APLI MIKRI (u)
219	DB	BYZANTINE MUSICAL SYMBOL DIASTOLI APLI MEGALI (u)
220	DC	BYZANTINE MUSICAL SYMBOL DIASTOLI DIPLI (u)
221	DD	BYZANTINE MUSICAL SYMBOL DIASTOLI THESEOS (u)
222	DE	BYZANTINE MUSICAL SYMBOL SIMANSIS THESEOS
223	DF	BYZANTINE MUSICAL SYMBOL SIMANSIS THESEOS DISIMOU
224	E0	BYZANTINE MUSICAL SYMBOL SIMANSIS THESEOS TRISIMOU
225	E1	BYZANTINE MUSICAL SYMBOL SIMANSIS THESEOS TETRASIMOU
226	E2	BYZANTINE MUSICAL SYMBOL SIMANSIS ARSEOS
227	E3	BYZANTINE MUSICAL SYMBOL SIMANSIS ARSEOS DISIMOU
228	E4	BYZANTINE MUSICAL SYMBOL SIMANSIS ARSEOS TRISIMOU
229	E5	BYZANTINE MUSICAL SYMBOL SIMANSIS ARSEOS TETRASIMOU
230	E6	BYZANTINE MUSICAL SYMBOL DIGRAMMA GG
231	E7	BYZANTINE MUSICAL SYMBOL DIFTOGGOS OU
232	E8	BYZANTINE MUSICAL SYMBOL STIGMA
233	E9	BYZANTINE MUSICAL SYMBOL ARKTIKO PA
234	EA	BYZANTINE MUSICAL SYMBOL ARKTIKO VOI
235	EB	BYZANTINE MUSICAL SYMBOL ARKTIKO GA
236	EC	BYZANTINE MUSICAL SYMBOL ARKTIKO DI
237	ED	BYZANTINE MUSICAL SYMBOL ARKTIKO KE
238	EE	BYZANTINE MUSICAL SYMBOL ARKTIKO ZO
239	EF	BYZANTINE MUSICAL SYMBOL ARKTIKO NI
240	F0	BYZANTINE MUSICAL SYMBOL KENTIMATA LATE MESO (m)
241	F1	BYZANTINE MUSICAL SYMBOL KENTIMA LATE MESO (m)
242	F2	BYZANTINE MUSICAL SYMBOL KENTIMATA LATE KATO (l)
243	F3	BYZANTINE MUSICAL SYMBOL KENTIMA LATE KATO (l)
244	F4	BYZANTINE MUSICAL SYMBOL KLASMA KATO (l)
245	F5	BYZANTINE MUSICAL SYMBOL GORGON LATE KATO (l)
246	F6	(This position shall not be used)
247	F7	(This position shall not be used)
248	F8	(This position shall not be used)
249	F9	(This position shall not be used)
250	FA	(This position shall not be used)
251	FB	(This position shall not be used)
252	FC	(This position shall not be used)
253	FD	(This position shall not be used)
254	FE	(This position shall not be used)
255	FF	(This position shall not be used)

TABLE 6 - Row D1: WESTERN MUSICAL SYMBOLS

	D10	D11	D12	D13	D14	D15	D16	D17
0								
1								
2								
3								
4								
5								
6								
7								
8								
9								
A								
B								
C								
D								
E								
F								

G = 00
P = 01

TABLE 6 - Row D1: WESTERN MUSICAL SYMBOLS

dec	hex	Name	dec	hex	Name
000	00	WESTERN MUSICAL SYMBOL SINGLE BARLINE	089	59	WESTERN MUSICAL SYMBOL NULL NOTEHEAD
001	01	WESTERN MUSICAL SYMBOL DOUBLE BARLINE	090	5A	WESTERN MUSICAL SYMBOL CLUSTER NOTEHEAD WHITE
002	02	WESTERN MUSICAL SYMBOL FINAL BARLINE	091	5B	WESTERN MUSICAL SYMBOL CLUSTER NOTEHEAD BLACK
003	03	WESTERN MUSICAL SYMBOL REVERSE FINAL BARLINE	092	5C	WESTERN MUSICAL SYMBOL BREVE
004	04	WESTERN MUSICAL SYMBOL DASHED BARLINE	093	5D	WESTERN MUSICAL SYMBOL WHOLE NOTE
005	05	WESTERN MUSICAL SYMBOL SHORT BARLINE	094	5E	WESTERN MUSICAL SYMBOL HALF NOTE
006	06	WESTERN MUSICAL SYMBOL LEFT REPEAT SIGN	095	5F	WESTERN MUSICAL SYMBOL QUARTER NOTE
007	07	WESTERN MUSICAL SYMBOL RIGHT REPEAT SIGN	096	60	WESTERN MUSICAL SYMBOL EIGHTH NOTE
008	08	WESTERN MUSICAL SYMBOL REPEAT DOTS	097	61	WESTERN MUSICAL SYMBOL SIXTEENTH NOTE
009	09	WESTERN MUSICAL SYMBOL DAL SEGNO	098	62	WESTERN MUSICAL SYMBOL THIRTY-SECOND NOTE
010	0A	WESTERN MUSICAL SYMBOL DA CAPO	099	63	WESTERN MUSICAL SYMBOL SIXTY-FOURTH NOTE
011	0B	WESTERN MUSICAL SYMBOL SEGNO	100	64	WESTERN MUSICAL SYMBOL ONE HUNDRED TWENTY-EIGHTH NOTE
012	0C	WESTERN MUSICAL SYMBOL CODA	101	65	WESTERN MUSICAL SYMBOL COMBINING STEM
013	0D	WESTERN MUSICAL SYMBOL REPEATED FIGURE ONE	102	66	WESTERN MUSICAL SYMBOL COMBINING SPRECHGESANG STEM
014	0E	WESTERN MUSICAL SYMBOL REPEATED FIGURE TWO	103	67	WESTERN MUSICAL SYMBOL COMBINING TREMOLO ONE
015	0F	WESTERN MUSICAL SYMBOL REPEATED FIGURE THREE	104	68	WESTERN MUSICAL SYMBOL COMBINING TREMOLO TWO
016	10	WESTERN MUSICAL SYMBOL FERMATA	105	69	WESTERN MUSICAL SYMBOL COMBINING TREMOLO THREE
017	11	WESTERN MUSICAL SYMBOL FERMATA BELOW	106	6A	WESTERN MUSICAL SYMBOL FINGERED TREMOLO ONE
018	12	WESTERN MUSICAL SYMBOL BREATH MARK	107	6B	WESTERN MUSICAL SYMBOL FINGERED TREMOLO TWO
019	13	WESTERN MUSICAL SYMBOL CAESURA	108	6C	WESTERN MUSICAL SYMBOL FINGERED TREMOLO THREE
020	14	WESTERN MUSICAL SYMBOL BRACE	109	6D	WESTERN MUSICAL SYMBOL COMBINING AUGMENTATION DOT
021	15	WESTERN MUSICAL SYMBOL BRACKET	110	6E	WESTERN MUSICAL SYMBOL COMBINING FLAG ONE
022	16	WESTERN MUSICAL SYMBOL ONE-LINE STAFF	111	6F	WESTERN MUSICAL SYMBOL COMBINING FLAG TWO
023	17	WESTERN MUSICAL SYMBOL TWO-LINE STAFF	112	70	WESTERN MUSICAL SYMBOL COMBINING FLAG THREE
024	18	WESTERN MUSICAL SYMBOL THREE-LINE STAFF	113	71	WESTERN MUSICAL SYMBOL COMBINING FLAG FOUR
025	19	WESTERN MUSICAL SYMBOL FOUR-LINE STAFF	114	72	WESTERN MUSICAL SYMBOL COMBINING FLAG FIVE
026	1A	WESTERN MUSICAL SYMBOL FIVE-LINE STAFF	115	73	WESTERN MUSICAL SYMBOL BEGIN BEAM
027	1B	WESTERN MUSICAL SYMBOL SIX-LINE STAFF	116	74	WESTERN MUSICAL SYMBOL END BEAM
028	1C	WESTERN MUSICAL SYMBOL SIX-STRING FRETBOARD	117	75	WESTERN MUSICAL SYMBOL BEGIN TIE
029	1D	WESTERN MUSICAL SYMBOL FOUR-STRING FRETBOARD	118	76	WESTERN MUSICAL SYMBOL END TIE
030	1E	WESTERN MUSICAL SYMBOL G CLEF	119	77	WESTERN MUSICAL SYMBOL BEGIN SLUR
031	1F	WESTERN MUSICAL SYMBOL G CLEF OTTAVA ALTA	120	78	WESTERN MUSICAL SYMBOL END SLUR
032	20	WESTERN MUSICAL SYMBOL G CLEF OTTAVA BASSA	121	79	WESTERN MUSICAL SYMBOL BEGIN PHRASE
033	21	WESTERN MUSICAL SYMBOL C CLEF	122	7A	WESTERN MUSICAL SYMBOL END PHRASE
034	22	WESTERN MUSICAL SYMBOL F CLEF	123	7B	WESTERN MUSICAL SYMBOL COMBINING ACCENT
035	23	WESTERN MUSICAL SYMBOL F CLEF OTTAVA ALTA	124	7C	WESTERN MUSICAL SYMBOL COMBINING STACCATO
036	24	WESTERN MUSICAL SYMBOL F CLEF OTTAVA BASSA	125	7D	WESTERN MUSICAL SYMBOL COMBINING TENUTO
037	25	WESTERN MUSICAL SYMBOL DRUM CLEF ONE	126	7E	WESTERN MUSICAL SYMBOL COMBINING STACCATISSIMO
038	26	WESTERN MUSICAL SYMBOL DRUM CLEF TWO	127	7F	WESTERN MUSICAL SYMBOL COMBINING MARCATO
039	27	(This position shall not be used)			
040	28	(This position shall not be used)			
041	29	(This position shall not be used)			
042	2A	WESTERN MUSICAL SYMBOL DOUBLE SHARP			
043	2B	WESTERN MUSICAL SYMBOL DOUBLE FLAT			
044	2C	WESTERN MUSICAL SYMBOL FLAT UP			
045	2D	WESTERN MUSICAL SYMBOL FLAT DOWN			
046	2E	WESTERN MUSICAL SYMBOL NATURAL UP			
047	2F	WESTERN MUSICAL SYMBOL NATURAL DOWN			
048	30	WESTERN MUSICAL SYMBOL SHARP UP			
049	31	WESTERN MUSICAL SYMBOL SHARP DOWN			
050	32	WESTERN MUSICAL SYMBOL QUARTER TONE SHARP			
051	33	WESTERN MUSICAL SYMBOL QUARTER TONE FLAT			
052	34	WESTERN MUSICAL SYMBOL COMMON TIME			
053	35	WESTERN MUSICAL SYMBOL CUT TIME			
054	36	WESTERN MUSICAL SYMBOL OTTAVA ALTA			
055	37	WESTERN MUSICAL SYMBOL OTTAVA BASSA			
056	38	WESTERN MUSICAL SYMBOL QUINDICESIMA ALTA			
057	39	WESTERN MUSICAL SYMBOL QUINDICESIMA BASSA			
058	3A	WESTERN MUSICAL SYMBOL MULTI REST			
059	3B	WESTERN MUSICAL SYMBOL WHOLE REST			
060	3C	WESTERN MUSICAL SYMBOL HALF REST			
061	3D	WESTERN MUSICAL SYMBOL QUARTER REST			
062	3E	WESTERN MUSICAL SYMBOL EIGHTH REST			
063	3F	WESTERN MUSICAL SYMBOL SIXTEENTH REST			
064	40	WESTERN MUSICAL SYMBOL THIRTY-SECOND REST			
065	41	WESTERN MUSICAL SYMBOL SIXTY-FOURTH REST			
066	42	WESTERN MUSICAL SYMBOL ONE HUNDRED TWENTY-EIGHTH REST			
067	43	WESTERN MUSICAL SYMBOL X NOTEHEAD			
068	44	WESTERN MUSICAL SYMBOL PLUS NOTEHEAD			
069	45	WESTERN MUSICAL SYMBOL CIRCLE X NOTEHEAD			
070	46	WESTERN MUSICAL SYMBOL SQUARE NOTEHEAD WHITE			
071	47	WESTERN MUSICAL SYMBOL SQUARE NOTEHEAD BLACK			
072	48	WESTERN MUSICAL SYMBOL TRIANGLE NOTEHEAD UP WHITE			
073	49	WESTERN MUSICAL SYMBOL TRIANGLE NOTEHEAD UP BLACK			
074	4A	WESTERN MUSICAL SYMBOL TRIANGLE NOTEHEAD LEFT WHITE			
075	4B	WESTERN MUSICAL SYMBOL TRIANGLE NOTEHEAD LEFT BLACK			
076	4C	WESTERN MUSICAL SYMBOL TRIANGLE NOTEHEAD RIGHT WHITE			
077	4D	WESTERN MUSICAL SYMBOL TRIANGLE NOTEHEAD RIGHT BLACK			
078	4E	WESTERN MUSICAL SYMBOL TRIANGLE NOTEHEAD DOWN WHITE			
079	4F	WESTERN MUSICAL SYMBOL TRIANGLE NOTEHEAD DOWN BLACK			
080	50	WESTERN MUSICAL SYMBOL TRIANGLE NOTEHEAD UP RIGHT WHITE			
081	51	WESTERN MUSICAL SYMBOL TRIANGLE NOTEHEAD UP RIGHT BLACK			
082	52	WESTERN MUSICAL SYMBOL MOON NOTEHEAD WHITE			
083	53	WESTERN MUSICAL SYMBOL MOON NOTEHEAD BLACK			
084	54	WESTERN MUSICAL SYMBOL TRIANGLE-ROUND NOTEHEAD DOWN WHITE			
085	55	WESTERN MUSICAL SYMBOL TRIANGLE-ROUND NOTEHEAD DOWN BLACK			
086	56	WESTERN MUSICAL SYMBOL PARENTHESIS NOTEHEAD			
087	57	WESTERN MUSICAL SYMBOL VOID NOTEHEAD			
088	58	WESTERN MUSICAL SYMBOL NOTEHEAD BLACK			

TABLE 7 - Row D1: WESTERN MUSICAL SYMBOLS

	D18	D19	D1A	D1B	D1C	D1D	D1E	D1F
0		<i>m</i>						
1		<i>f</i>						
2			c					
3								
4								
5								
6		<i>tr</i>						
7								
8								
9								
A								
B								
C	<i>r</i>							
D	<i>s</i>							
E	<i>z</i>	)	<i>Red.</i>					
F	<i>p</i>	)						

G = 00
P = 01

TABLE 7 - Row D1: WESTERN MUSICAL SYMBOLS

dec	hex	Name
128	80	WESTERN MUSICAL SYMBOL COMBINING MARCATO-STACCATO
129	81	WESTERN MUSICAL SYMBOL COMBINING ACCENT-STACCATO
130	82	WESTERN MUSICAL SYMBOL COMBINING LOURE
131	83	WESTERN MUSICAL SYMBOL ARPEGGIATO UP
132	84	WESTERN MUSICAL SYMBOL ARPEGGIATO DOWN
133	85	WESTERN MUSICAL SYMBOL COMBINING DOIT
134	86	WESTERN MUSICAL SYMBOL COMBINING RIP
135	87	WESTERN MUSICAL SYMBOL COMBINING FLIP
136	88	WESTERN MUSICAL SYMBOL COMBINING SMEAR
137	89	WESTERN MUSICAL SYMBOL COMBINING BEND
138	8A	WESTERN MUSICAL SYMBOL COMBINING DOUBLE TONGUE
139	8B	WESTERN MUSICAL SYMBOL COMBINING TRIPLE TONGUE
140	8C	WESTERN MUSICAL SYMBOL RINFORZANDO
141	8D	WESTERN MUSICAL SYMBOL SUBITO
142	8E	WESTERN MUSICAL SYMBOL Z
143	8F	WESTERN MUSICAL SYMBOL PIANO
144	90	WESTERN MUSICAL SYMBOL MEZZO
145	91	WESTERN MUSICAL SYMBOL FORTE
146	92	WESTERN MUSICAL SYMBOL CRESCENDO
147	93	WESTERN MUSICAL SYMBOL DECRESCENDO
148	94	WESTERN MUSICAL SYMBOL GRACE NOTE SLASH
149	95	WESTERN MUSICAL SYMBOL GRACE NOTE NO SLASH
150	96	WESTERN MUSICAL SYMBOL TR
151	97	WESTERN MUSICAL SYMBOL TURN
152	98	WESTERN MUSICAL SYMBOL INVERTED TURN
153	99	WESTERN MUSICAL SYMBOL TURN SLASH
154	9A	WESTERN MUSICAL SYMBOL TURN UP
155	9B	WESTERN MUSICAL SYMBOL ORNAMENT STROKE ONE
156	9C	WESTERN MUSICAL SYMBOL ORNAMENT STROKE TWO
157	9D	WESTERN MUSICAL SYMBOL ORNAMENT STROKE THREE
158	9E	WESTERN MUSICAL SYMBOL ORNAMENT STROKE FOUR
159	9F	WESTERN MUSICAL SYMBOL ORNAMENT STROKE FIVE
160	A0	WESTERN MUSICAL SYMBOL ORNAMENT STROKE SIX
161	A1	WESTERN MUSICAL SYMBOL ORNAMENT STROKE SEVEN
162	A2	WESTERN MUSICAL SYMBOL ORNAMENT STROKE EIGHT
163	A3	WESTERN MUSICAL SYMBOL ORNAMENT STROKE NINE
164	A4	WESTERN MUSICAL SYMBOL ORNAMENT STROKE TEN
165	A5	WESTERN MUSICAL SYMBOL ORNAMENT STROKE ELEVEN
166	A6	WESTERN MUSICAL SYMBOL HAUPTSTIMME
167	A7	WESTERN MUSICAL SYMBOL NEBENSTIMME
168	A8	WESTERN MUSICAL SYMBOL END OF STIMME
169	A9	WESTERN MUSICAL SYMBOL DEGREE SLASH
170	AA	WESTERN MUSICAL SYMBOL COMBINING DOWN BOW
171	AB	WESTERN MUSICAL SYMBOL COMBINING UP BOW
172	AC	WESTERN MUSICAL SYMBOL COMBINING HARMONIC
173	AD	WESTERN MUSICAL SYMBOL COMBINING SNAP PIZZICATO
174	AE	WESTERN MUSICAL SYMBOL PEDAL MARK
175	AF	WESTERN MUSICAL SYMBOL PEDAL UP MARK
176	B0	WESTERN MUSICAL SYMBOL HALF PEDAL MARK
177	B1	WESTERN MUSICAL SYMBOL GLISSANDO UP
178	B2	WESTERN MUSICAL SYMBOL GLISSANDO DOWN
179	B3	WESTERN MUSICAL SYMBOL WITH FINGERNAILS
180	B4	WESTERN MUSICAL SYMBOL DAMP
181	B5	WESTERN MUSICAL SYMBOL DAMP ALL
182	B6	WESTERN MUSICAL SYMBOL MAXIMA
183	B7	WESTERN MUSICAL SYMBOL LONGA
184	B8	WESTERN MUSICAL SYMBOL BREVIS
185	B9	WESTERN MUSICAL SYMBOL SEMIBREVIS WHITE
186	BA	WESTERN MUSICAL SYMBOL SEMIBREVIS BLACK
187	BB	WESTERN MUSICAL SYMBOL MINIMA
188	BC	WESTERN MUSICAL SYMBOL MINIMA BLACK
189	BD	WESTERN MUSICAL SYMBOL SEMIMINIMA WHITE
190	BE	WESTERN MUSICAL SYMBOL SEMIMINIMA BLACK
191	BF	WESTERN MUSICAL SYMBOL FUSA WHITE
192	C0	WESTERN MUSICAL SYMBOL FUSA BLACK
193	C1	WESTERN MUSICAL SYMBOL LONGA PERFECTA REST
194	C2	WESTERN MUSICAL SYMBOL LONGA IMPERFECTA REST
195	C3	WESTERN MUSICAL SYMBOL BREVIS REST
196	C4	WESTERN MUSICAL SYMBOL SEMIBREVIS REST
197	C5	WESTERN MUSICAL SYMBOL MINIMA REST
198	C6	WESTERN MUSICAL SYMBOL SEMIMINIMA REST
199	C7	WESTERN MUSICAL SYMBOL TEMPUS PERFECTUM CUM PROLATIONE PERFECTA
200	C8	WESTERN MUSICAL SYMBOL TEMPUS PERFECTUM CUM PROLATIONE IMPERFECTA
201	C9	WESTERN MUSICAL SYMBOL TEMPUS PERFECTUM CUM PROLATIONE PERFECTA DIMINUTION ONE
202	CA	WESTERN MUSICAL SYMBOL TEMPUS IMPERFECTUM CUM PROLATIONE PERFECTA
203	CB	WESTERN MUSICAL SYMBOL TEMPUS IMPERFECTUM CUM PROLATIONE IMPERFECTA
204	CC	WESTERN MUSICAL SYMBOL TEMPUS IMPERFECTUM CUM PROLATIONE IMPERFECTA DIMINUTION ONE
205	CD	WESTERN MUSICAL SYMBOL TEMPUS IMPERFECTUM CUM PROLATIONE IMPERFECTA DIMINUTION TWO
206	CE	WESTERN MUSICAL SYMBOL TEMPUS IMPERFECTUM CUM PROLATIONE IMPERFECTA DIMINUTION THREE
207	CF	WESTERN MUSICAL SYMBOL CROIX
208	D0	WESTERN MUSICAL SYMBOL GREGORIAN C CLEF
209	D1	WESTERN MUSICAL SYMBOL GREGORIAN F CLEF
210	D2	WESTERN MUSICAL SYMBOL SQUARE B
211	D3	WESTERN MUSICAL SYMBOL VIRGA
212	D4	WESTERN MUSICAL SYMBOL PODATUS
213	D5	WESTERN MUSICAL SYMBOL CLIVIS
214	D6	WESTERN MUSICAL SYMBOL SCANDICUS
215	D7	WESTERN MUSICAL SYMBOL CLIMACUS
216	D8	WESTERN MUSICAL SYMBOL TORCULUS

dec	hex	Name
217	D9	WESTERN MUSICAL SYMBOL PORRECTUS
218	DA	WESTERN MUSICAL SYMBOL PORRECTUS FLEXUS
219	DB	WESTERN MUSICAL SYMBOL SCANDICUS FLEXUS
220	DC	WESTERN MUSICAL SYMBOL TORCULUS RESUPINUS
221	DD	WESTERN MUSICAL SYMBOL PES SUBPUNCTIS
222	DE	(This position shall not be used)
223	DF	(This position shall not be used)
224	E0	(This position shall not be used)
225	E1	(This position shall not be used)
226	E2	(This position shall not be used)
227	E3	(This position shall not be used)
228	E4	(This position shall not be used)
229	E5	(This position shall not be used)
230	E6	(This position shall not be used)
231	E7	(This position shall not be used)
232	E8	(This position shall not be used)
233	E9	(This position shall not be used)
234	EA	(This position shall not be used)
235	EB	(This position shall not be used)
236	EC	(This position shall not be used)
237	ED	(This position shall not be used)
238	EE	(This position shall not be used)
239	EF	(This position shall not be used)
240	F0	(This position shall not be used)
241	F1	(This position shall not be used)
242	F2	(This position shall not be used)
243	F3	(This position shall not be used)
244	F4	(This position shall not be used)
245	F5	(This position shall not be used)
246	F6	(This position shall not be used)
247	F7	(This position shall not be used)
248	F8	(This position shall not be used)
249	F9	(This position shall not be used)
250	FA	(This position shall not be used)
251	FB	(This position shall not be used)
252	FC	(This position shall not be used)
253	FD	(This position shall not be used)
254	FE	(This position shall not be used)
255	FF	(This position shall not be used)

TABLE 8 - Row D4: MATHEMATICAL ALPHANUMERIC SYMBOLS

	D40	D41	D42	D43	D44	D45	D46	D47
0	A	Q	g	w	<i>M</i>	<i>c</i>	<i>s</i>	<i>I</i>
1	B	R	h	x	<i>N</i>	<i>d</i>	<i>t</i>	<i>J</i>
2	C	S	i	y	<i>O</i>	<i>e</i>	<i>u</i>	<i>K</i>
3	D	T	j	z	<i>P</i>	<i>f</i>	<i>v</i>	<i>L</i>
4	E	U	k	<i>A</i>	<i>Q</i>	<i>g</i>	<i>w</i>	<i>M</i>
5	F	V	l	<i>B</i>	<i>R</i>		<i>x</i>	<i>N</i>
6	G	W	m	<i>C</i>	<i>S</i>	<i>i</i>	<i>y</i>	<i>O</i>
7	H	X	n	<i>D</i>	<i>T</i>	<i>j</i>	<i>z</i>	<i>P</i>
8	I	Y	o	<i>E</i>	<i>U</i>	<i>k</i>	<i>A</i>	<i>Q</i>
9	J	Z	p	<i>F</i>	<i>V</i>	<i>l</i>	<i>B</i>	<i>R</i>
A	K	a	q	<i>G</i>	<i>W</i>	<i>m</i>	<i>C</i>	<i>S</i>
B	L	b	r	<i>H</i>	<i>X</i>	<i>n</i>	<i>D</i>	<i>T</i>
C	M	c	s	<i>I</i>	<i>Y</i>	<i>o</i>	<i>E</i>	<i>U</i>
D	N	d	t	<i>J</i>	<i>Z</i>	<i>p</i>	<i>F</i>	<i>V</i>
E	O	e	u	<i>K</i>	<i>a</i>	<i>q</i>	<i>G</i>	<i>W</i>
F	P	f	v	<i>L</i>	<i>b</i>	<i>r</i>	<i>H</i>	<i>X</i>

G = 00
P = 01

TABLE 9 - Row D4: MATHEMATICAL ALPHANUMERIC SYMBOLS

	D48	D49	D4A	D4B	D4C	D4D	D4E	D4F
0	<i>Y</i>	<i>o</i>		<i>U</i>	<i>k</i>	<i>A</i>	<i>Q</i>	<i>g</i>
1	<i>Z</i>	<i>p</i>		<i>V</i>		<i>B</i>	<i>R</i>	<i>h</i>
2	<i>a</i>	<i>q</i>	<i>G</i>	<i>W</i>	<i>m</i>	<i>C</i>	<i>P</i>	<i>i</i>
3	<i>b</i>	<i>r</i>		<i>X</i>	<i>n</i>	<i>D</i>	<i>T</i>	<i>j</i>
4	<i>c</i>	<i>s</i>		<i>y</i>		<i>E</i>	<i>U</i>	<i>k</i>
5	<i>d</i>	<i>t</i>	<i>J</i>	<i>Z</i>	<i>p</i>	<i>F</i>	<i>V</i>	<i>l</i>
6	<i>e</i>	<i>u</i>	<i>K</i>	<i>a</i>	<i>q</i>	<i>G</i>	<i>W</i>	<i>m</i>
7	<i>f</i>	<i>v</i>		<i>b</i>	<i>r</i>	<i>H</i>	<i>X</i>	<i>n</i>
8	<i>g</i>	<i>w</i>		<i>c</i>	<i>s</i>	<i>I</i>	<i>Y</i>	<i>e</i>
9	<i>h</i>	<i>x</i>	<i>N</i>	<i>d</i>	<i>t</i>	<i>J</i>	<i>Z</i>	<i>p</i>
A	<i>i</i>	<i>y</i>	<i>O</i>		<i>u</i>	<i>K</i>	<i>a</i>	<i>q</i>
B	<i>j</i>	<i>z</i>	<i>P</i>	<i>f</i>	<i>v</i>	<i>L</i>	<i>b</i>	<i>r</i>
C	<i>k</i>	<i>A</i>	<i>Q</i>		<i>w</i>	<i>M</i>	<i>c</i>	<i>s</i>
D	<i>l</i>			<i>h</i>	<i>x</i>	<i>N</i>	<i>d</i>	<i>t</i>
E	<i>m</i>	<i>C</i>	<i>P</i>	<i>i</i>	<i>y</i>	<i>O</i>	<i>e</i>	<i>u</i>
F	<i>n</i>	<i>D</i>	<i>T</i>	<i>j</i>	<i>z</i>	<i>P</i>	<i>f</i>	<i>v</i>

G = 00
P = 01

TABLE 10 - Row D5: MATHEMATICAL ALPHANUMERIC SYMBOLS

	D50	D51	D52	D53	D54	D55	D56	D57
0	<i>w</i>	<i>M</i>	<i>c</i>	<i>s</i>	<i>I</i>	<i>Y</i>	<i>o</i>	<i>G</i>
1	<i>x</i>	<i>N</i>	<i>d</i>	<i>t</i>	<i>J</i>		<i>p</i>	<i>F</i>
2	<i>y</i>	<i>O</i>	<i>e</i>	<i>u</i>	<i>K</i>	<i>a</i>	<i>q</i>	<i>B</i>
3	<i>z</i>	<i>P</i>	<i>f</i>	<i>v</i>	<i>L</i>	<i>b</i>	<i>r</i>	<i>S</i>
4	<i>A</i>	<i>Q</i>	<i>g</i>	<i>w</i>	<i>M</i>	<i>c</i>	<i>s</i>	<i>G</i>
5	<i>B</i>		<i>h</i>	<i>x</i>		<i>d</i>	<i>t</i>	<i>F</i>
6		<i>G</i>	<i>i</i>	<i>η</i>	<i>O</i>	<i>e</i>	<i>u</i>	<i>R</i>
7	<i>D</i>	<i>T</i>	<i>j</i>	<i>z</i>		<i>f</i>	<i>v</i>	<i>Q</i>
8	<i>E</i>	<i>U</i>	<i>k</i>	<i>A</i>		<i>g</i>	<i>w</i>	<i>M</i>
9	<i>F</i>	<i>W</i>	<i>l</i>	<i>B</i>		<i>h</i>	<i>x</i>	<i>N</i>
A	<i>G</i>	<i>W</i>	<i>m</i>		<i>S</i>	<i>i</i>	<i>y</i>	<i>D</i>
B		<i>X</i>	<i>n</i>	<i>D</i>	<i>T</i>	<i>j</i>	<i>z</i>	<i>P</i>
C		<i>Y</i>	<i>o</i>	<i>E</i>	<i>U</i>	<i>k</i>	<i>A</i>	<i>Q</i>
D	<i>J</i>		<i>p</i>	<i>F</i>	<i>V</i>	<i>l</i>	<i>B</i>	<i>N</i>
E	<i>R</i>	<i>a</i>	<i>q</i>	<i>G</i>	<i>W</i>	<i>m</i>	<i>G</i>	<i>S</i>
F	<i>L</i>	<i>b</i>	<i>r</i>		<i>X</i>	<i>n</i>	<i>D</i>	<i>Z</i>

G = 00
P = 01

TABLE 11 - Row D5: MATHEMATICAL ALPHANUMERIC SYMBOLS

	D58	D59	D5A	D5B	D5C	D5D	D5E	D5F
0	U	f	A	Q	g	w	M	c
1	W	l	B	R	h	x	N	d
2	W	m	C	S	i	y	O	e
3	X	n	D	T	j	z	P	f
4	Y	o	E	U	k	A	Q	g
5	Z	p	F	V	l	B	R	h
6	a	q	G	W	m	C	S	i
7	b	r	H	X	n	D	T	j
8	c	s	I	Y	o	E	U	k
9	d	t	J	Z	p	F	V	l
A	e	u	K	a	q	G	W	m
B	f	v	L	b	r	H	X	n
C	g	w	M	c	s	I	Y	o
D	h	x	N	d	t	J	Z	p
E	i	y	O	e	u	K	a	q
F	j	z	P	f	v	L	b	r

G = 00
P = 01

TABLE 12 - Row D6: MATHEMATICAL ALPHANUMERIC SYMBOLS

	D60	D61	D62	D63	D64	D65	D66	D67
0	s	<i>I</i>	<i>Y</i>	<i>o</i>	E	U	k	A
1	t	<i>J</i>	<i>Z</i>	<i>p</i>	F	V	<i>I</i>	B
2	u	<i>K</i>	<i>a</i>	<i>q</i>	G	W	m	C
3	v	<i>L</i>	<i>b</i>	<i>r</i>	H	X	<i>n</i>	D
4	w	<i>M</i>	<i>c</i>	<i>s</i>	<i>I</i>	<i>Y</i>	<i>o</i>	E
5	x	<i>N</i>	<i>d</i>	<i>t</i>	J	Z	<i>p</i>	F
6	y	<i>O</i>	<i>e</i>	<i>u</i>	K	<i>a</i>	<i>q</i>	G
7	z	<i>P</i>	<i>f</i>	<i>v</i>	L	<i>b</i>	<i>r</i>	H
8	<i>A</i>	<i>Q</i>	<i>g</i>	<i>w</i>	M	c	s	I
9	<i>B</i>	<i>R</i>	<i>h</i>	<i>x</i>	N	<i>d</i>	<i>t</i>	J
A	<i>C</i>	<i>S</i>	<i>i</i>	<i>y</i>	O	<i>e</i>	<i>u</i>	K
B	<i>D</i>	<i>T</i>	<i>j</i>	<i>z</i>	P	<i>f</i>	<i>v</i>	L
C	<i>E</i>	<i>U</i>	<i>k</i>	A	Q	<i>g</i>	<i>w</i>	M
D	<i>F</i>	<i>V</i>	<i>l</i>	B	R	<i>h</i>	<i>x</i>	N
E	<i>G</i>	<i>W</i>	<i>m</i>	C	S	<i>i</i>	<i>y</i>	O
F	<i>H</i>	<i>X</i>	<i>n</i>	D	T	<i>j</i>	<i>z</i>	P

G = 00
P = 01

TABLE 13 - Row D6: MATHEMATICAL ALPHANUMERIC SYMBOLS

	D68	D69	D6A	D6B	D6C	D6D	D6E	D6F
0	Q	g	w	I	Ω	o	ø	O
1	R	h	x	K	∇	π	ω	Π
2	S	i	y	Λ	α	ρ	À	P
3	T	j	z	M	β	ς	B	Θ
4	U	k		N	γ	σ	Γ	Σ
5	V	l		Ξ	δ	τ	Δ	T
6	W	m		O	ε	υ	E	Υ
7	X	n		Π	ζ	φ	Z	Φ
8	Y	o	A	P	η	χ	H	X
9	Z	p	B	Θ	θ	ψ	⊖	Ψ
A	a	q	Γ	Σ	ι	ω	I	Ω
B	b	r	Δ	T	κ	ð	K	∇
C	c	s	E	Υ	λ	ε	Λ	α
D	d	t	Z	Φ	μ	ϑ	M	β
E	e	u	H	X	ν	κ	N	γ
F	f	v	⊖	Ψ	ξ	φ	Ξ	δ

G = 00
P = 01

TABLE 14 - Row D7: MATHEMATICAL ALPHANUMERIC SYMBOLS

	D70	D71	D72	D73	D74	D75	D76	D77
0	ε	ν	E	Υ	λ	ϵ	Λ	α
1	ζ	ϕ	Z	Φ	μ	ϑ	$\mathbf{M}$	θ
2	η	χ	H	X	ν	κ	$\mathbf{N}$	γ
3	θ	ψ	Θ	Ψ	ξ	ϕ	Ξ	δ
4	ι	ω	I	Ω	o	ϱ	$\mathbf{O}$	ε
5	κ	∂	K	∇	π	ϖ	Π	ζ
6	λ	ϵ	Λ	α	ρ	$\mathbf{A}$	$\mathbf{P}$	η
7	μ	ϑ	M	β	ς	$\mathbf{B}$	Θ	θ
8	ν	κ	N	γ	σ	Γ	Σ	ι
9	ξ	φ	Ξ	δ	τ	Δ	$\mathbf{T}$	κ
A	o	ϱ	$\mathbf{O}$	ε	ν	$\mathbf{E}$	$\mathbf{Y}$	λ
B	π	ϖ	Π	ζ	φ	$\mathbf{Z}$	Φ	μ
C	ρ	$\mathbf{A}$	$\mathbf{P}$	η	χ	$\mathbf{H}$	$\mathbf{X}$	ν
D	ς	$\mathbf{B}$	Θ	θ	ψ	Θ	Ψ	ξ
E	σ	Γ	Σ	ι	ω	$\mathbf{I}$	Ω	o
F	τ	Δ	$\mathbf{T}$	κ	∂	$\mathbf{K}$	∇	Π

G = 00
P = 01

TABLE 15 - Row D7: MATHEMATICAL ALPHANUMERIC SYMBOLS

	D78	D79	D7A	D7B	D7C	D7D	D7E	D7F
0	ρ	<i>A</i>	<i>P</i>	η	χ	2	8	4
1	ς	<i>B</i>	Θ	θ	ψ	3	9	5
2	σ	Γ	Σ	ι	ω	4	0	6
3	τ	Δ	<i>T</i>	κ	∂	5	1	7
4	υ	<i>E</i>	<i>Y</i>	λ	ε	6	2	8
5	φ	<i>Z</i>	Φ	μ	9	7	3	9
6	χ	<i>H</i>	<i>X</i>	ν	κ	8	4	0
7	ψ	Θ	Ψ	ξ	φ	9	5	1
8	ω	<i>I</i>	Ω	ο	ρ	0	6	2
9	∂	<i>K</i>	∇	π	ω	1	7	3
A	ε	Λ	<i>a</i>	ρ		2	8	4
B	9	<i>M</i>	θ	ς		3	9	5
C	κ	<i>N</i>	γ	σ		4	0	6
D	φ	Ξ	δ	τ		5	1	7
E	ρ	<i>O</i>	ε	υ	0	6	2	8
F	ω	Π	ζ	φ	1	7	3	9

G = 00
P = 01