ISO/IEC JTC1/SC2/WG2 N 4098

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ISO/IEC JTC1/SC2/WG2 Coded Character Set Secretariat: Japan (JISC)

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Technology - Universal Coded Character Set (UCS))

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Comments were received from Armenia, Egypt, Germany, Ireland, Japan, Korea (ROK), U.K, and U.S.A. The following document is the draft disposition of those comments. The disposition is organized per country.

Note – The full content of the ballot comments have been included in this document to facilitate the reading. The dispositions are inserted in between these comments and are marked in <u>Underlined Bold Serif text</u>, with explanatory text in italicized serif.

As a result of these dispositions, Japan, Korea (ROK), and the USA changed their vote to positive. This only leaves one negative vote (Ireland).

Armenia (comment not related to a vote)

Technical comments

T1. Currency symbols

It is clear idea to combine all the signs, including the monetary one, in one and the same national block, however it is preferable to place Armenian Dram Symbol into Currency Symbols table. Armenian Dram symbol has two horizontal strokes like the majority of the symbols in that table, and those symbols are grouped there together on the basis of functionality and symbolism.

Noted

The preference for moving the Armenian Dram symbol is noted. However a similar argument was made by Armenia in the previous phase and it was not accepted. The rationale was given in the following disposition which still applies (extract from document WG2 N3936, page 2, disposition of comment T1.a) from Armenia):

<<

There is no strict rule concerning the placement of currency symbols in the standard. At this point, many currency symbols are not encoded in the Currency Symbols block, but instead in their script block (for example THAI CURRENCY SYMBOL BAHT in 0BF9, GUJARATI RUPEE SIGN in 0AF1) or in other block. The table 15.1 in the Unicode Standard (section 15.1) shows these locations. The Currency block tends to be reserved for symbols that are used across multiple script contexts and have no style dependencies with their own script. The script blocks are used when the currency has a close relationship with a letter form in their related script block. This is clearly the case here with the letter form being 0534 ARMENIAN CAPITAL LETTER DA. Based on this, the location stays unchanged.

>>

Egypt: Positive with comments

Technical comments

T1. Arabic character names

The existing Arabic character name used for these letters are not the classical naming, please change to the proposed writing, which will facilitate the understanding for this character by all Arabic speaking users:

- replace all (BEH) with (BA')
- replace all (TEH) with (TA')
- replace all (THEH) with (THA')
- replace all (HAH) with (HA')
- replace all (KHAH) with (KHA')
- replace all (REH) with (RA')
- replace all (ZAIN) with (ZAY)
- replace all (ZAH) with (DHA')
- replace all (FEH) with (FA')
- replace all (HEH) with (HA)
- replace all (YEH) with (YA')
- replace (WASLA) with (WASL)

Not accepted

This comment is almost verbatim the same that was done for the CD ballot and was not accepted. The disposition from the CD ballot (document WG2 N3936, page 3) is provided with slight editorial fixes to take into account what was actually done in the FCD text:

<<

There are several reasons to not accept this request:

1) The current names have been in use for a long time in ISO/IEC character standards, not only in ISO/IEC 10646, but also ISO/IEC 8859-6 and others.

- 2) Per sub-clause 24.2 the character names cannot include an apostrophe.
- *3) Per clause 7, the character names cannot be changed.*

A short note has been added in the Arabic block (0600-06FF) for Arabic letters based on ISO 8859-6:

Arabic letter names follow romanization conventions derived from ISO 8859-6. These differ from the Literary Arabic pronunciation of the letter names. For example, U+0628 ARABIC LETTER BEH has a Literary Arabic pronunciation of ba'.

>>

Germany: Positive with comments

Technical comments

T1. ARABIC LETTER REH WITH LOOP

The name of the proposed character U+08AA RABIC LETTER REH WITH LOOP obviously is mistyped (at the beginning, an "A" is missing).

Proposed change by Germany

U+08AA ARABIC LETTER REH WITH LOOP

Withdrawn

The typo was present in preliminary charts, but the FCD document is correct.

T2. BATAK SYMBOLS

The following proposed characters:

1BFA BATAK SYMBOL BINDU GODANG

1BFB BAKAK SYMBOL PINARJOLMA

are part of the Batak script, and necessary to represent Batak texts in a typographically appropriate way Proposed change by Germany

Germany opposes to requests to remove these characters from the FCD, if such are raised.

Noted

See disposition of comment T2 from US.

T3. RAISED SYMBOLS (2E33-2E34)

The names of the following proposed characters:

U+2E33 RAISED DOT

U+2E34 RAISED COMMA

which are to be displayed slightly above of the baseline, are misleading, as the term "raised" in the names of Unicode characters until now denotes a position above the x-height line, as for:

U+18DF CANADIAN SYLLABICS FINAL RAISED DOT

U+2E0C LEFT RAISED OMISSION BRACKET

For more details, see document JTC1/SC2/WG2 N3984

Proposed change by Germany

Germany requests not to introduce unnecessary arbitrarity and inconsistency into Unicode character naming. Germany suggests the following names for the proposed characters:

U+2E33 LIFTED DOT

U+2E34 LIFTED COMMA

For more details, see document JTC1/SC2/WG2 N3984.

Accepted in principle

An annotation will be added to the first character (2E33RAISED DOT) as follows:

* glyph position between positions used for 002E full stop and 00B7 middle dot.

This covers in principle the next character (2E34 RAISED COMMA) as well.

T4. LATIN LETTER GLOTTAL DOT (2E33-2E34)

The following proposed character:

U+A78F LATIN LETTER GLOTTAL DOT

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is required for the applications shown in document JTC1/SC2/WG2 N3567.

More applications are shown in document JTC1/SC2/WG2 N3984.

Also, it is typographically distinct from U+00B7 MIDDLE DOT.

For more details, see document JTC1/SC2/WG2 N3984.

Proposed change by Germany

Germany strongly opposes to requests to remove this character from the FCD, if such are raised.

Germany suggests the name and annotations to be changed to:

U+A78F LATIN LETTER ELEVATED DOT

- = turned full stop (referring to metal type)
- usually displayed at x-height
- used as glottal dot in transliteration for Phags-Pa and phonetic transcription for Tangut

For more details, see document JTC1/SC2/WG2 N3984.

Noted

See disposition of comment T1 from US.

T5. Addition to collection 288 MULTILINGUAL LATIN SUBSET

The following proposed character:

U+2E3A TWO-EM DASH

was accepted after the German request which yielded the inclusion of the character collection 288 "Multilingual Latin Subset" in the current FCD. This character collection contains the characters which can be input by means described in the current version of the keyboard standard ISO/IEC 9995-3. However, the current draft of the German keyboard standard DIN 2137 has added U+2E3A TWO-EM DASH to the list of imputable characters by extending that means, and Germany will request to add this character to ISO/IEC 9995-3 on the next due revision. Proposed change by Germany

Germany requests the addition of U+2E3A TWO-EM DASH to the character collection 288 "Multilingual Latin Subset".

Withdrawn

Although the comment is withdrawn, there is need to fix discrepancy on the description of the collection 288 in ISO/IEC 10646.

That collection was never part of an amendment and was added directly to the text of $10646\ 2^{nd}$ edition per resolution WG2 M55.11. The intent of the addition as reflected in documents N3685 and N3704 has an ambiguous aspect, which is either the collection should be 'fixed' or not. N3685 used the following line:

284 MIS-1 see A.4.4 *

[284 and MIS-1 were tentative values which were changed into 288 and MULTILINGUAL LATIN SUBSET] The '*' typically denotes a fixed collection, but the resolution M55.11 (part of N3704) did not clarify that point. The 2nd edition of 10646 does not have '*'after 288, but in sub-clause A.5.8 the collection 288 is mentioned as 'fixed'. To fix that discrepancy, a '*' will be added in sub-clause A.1 for collection 288.

Ireland, Negative

Ireland disapproves the draft with the editorial comments given below. Acceptance of these comments and appropriate changes to the text will change our vote to approval.

Technical comments

T1. Page 219, Row 1BC: Batak

Ireland reiterates its support for the characters being balloted at 1BFA and 1BFB. Ireland opposes the removal of these characters from the CD as it has been demonstrated that they have been set in lead type as text elements, regardless of the fact that the glyphs in handwritten manuscripts are often larger and more ornate. We note that the same could be said for illuminated initial Latin letters in the Book of Kells. We would favour reducing the size of the code chart glyph from Secretary Semantic is to indicate the beginning of documents, just as similar characters in Tibetan and Sundanese and Javanese do.

Noted

T2. Page 1063, Row A72: Latin Extended-D

Ireland reiterates its support for the character being balloted at A78F, LATIN LETTER GLOTTAL DOT. Ireland opposes the removal of A78F LATIN LETTER GLOTTAL DOT from the FCD. We note that WG2 has changed its name from LATIN LETTER MIDDLE DOT (as it was in the CD) to prevent any confusion between this letter and the punctuation mark 00B7 MIDDLE DOT. The character is required for use as a phonetic letter (not a punctuation mark) in transcriptions of Tangut and Chinese, and our approval of this ballot is in part contingent upon the retention of this letter in the Standard.

Noted

See disposition of comment T1 from US.

T3. Page 1211, Row 109A: Meroitic Cursive

Because of the appearance of a recent article by Jochen Hallof in Beiträge zur Sudanforschung vol. 10 (2009), entitled "Ein meroitisches Zahlenostrakon aus Qasr Ibrim", presenting Meroitic numbers from 1 up to 900,000, Ireland requests the removal of the Meroitic fractions and numbers of the characters 109C0..109F0 from the FCD pending further study. We hope to have this study complete before the Helsinki meeting.

Accepted

The study was not completed before the disposition if comment in Helsinki. Therefore, the following characters are removed from the Meroitic Cursive block:

(109C0..109CA, 109CC..109D9, 109DB..109DC, 109DE..109E5, 109E7..109E9, 109EB, 109F0) The remaining characters and the block size stay unchanged.

Editorial comments

E1. Page 124, Row 098: Bengali

Ireland recommends that the rather inconsistent font used for Bengali be replaced with the one given in the table shown below. [see chart at end of this document]

Not accepted

The table should be reviewed by experts before approval, especially concerning these points:

- Horizontal position of combining marks,
- Significant glyph changes (e.g. 09C2, 09C4)
- Relative size of Bengali-specific additions (09F0-09FB) to the rest.

E2. Page 259, Row 20D: Combining Diacritical Marks for Symbols

Ireland recommends that the erroneous dotted circles in 20E4, 20E5, 20E6, 20E7, and 20E8 be corrected.

Accepted

E3. Page 1080, Row AAE: Meetei Mayek Extensions

Ireland suggests that the chart glyph for AAF6 should be harmonized with that for 1039, 1A60, and 10A3F.

Accepted

This means that a new dotted circle will be added within the frame, similarly to the presentation used for 1039, 1A60 and 10A3F.

E4. Page 1223, Row 1110: Chakma

Ireland suggests that the chart glyph for 11133 should be harmonized with that for 1039, 1A60, and 10A3F.

Accepted

See comment E3.

E5. Page 1320, Row 1F0A: Playing Cards

Ireland recommends that the font used for Playing Cards be replaced with the one given in the table shown below. The shapes of the suits and the face cards are more distinct in the new font, and are more recognizable. [see chart at end of this document]

Accepted

Japan, Negative

JP.1 (Editorial): Foreword, last paragraph

"ISO/IEC 10646:2010" is wrong. Proposed change by Japan "ISO/IEC 10646:2011"

Accepted

JP.2 (Editorial): Sub-clause 4.4, Note

"(see 0)" is wrong.

Proposed change by Japan

"(see 4.23)"

Accepted

JP.3 (Editorial): Sub-clause 9.1, Table 2

On the third row, the first letter "z" is mistakenly capitalized.

Proposed change by Japan

"zzzzyyyyyyxxxxxx"

Accepted

JP.4 (Editorial): Sub-clause 9.2, Table 4

On the first row, the first letter "x" is mistakenly capitalized.

Proposed change by Japan

"xxxxxxxxxxxxxxx"

Accepted

JP.5 (Editorial): Sub-clause 11, Note 2 (end of)

"ISO/IEC 6492" is wrong.

Proposed change by Japan

"ISO/IEC 6429"

Accepted

JP.6 (Technical): Sub-clause 16.5, Variations selectors and variation sequence, Note 2

This note explicitly cites the "version 2007-12-14" of IVD. However, the UTS#37, normatively referred to by 10646, designates the IVD as "http://www.unicode.org/ivd", with no version indication, that always refers to the latest version of IVD. So the IVSes allowed in 10646 is those listed in the latest version of the IVD.

Proposed change by Japan

Change "version 2007-12-14" to "version 2010-11-14" in the text. (URL is correct.).

Accepted

See also comment T1 from UK.

JP.7 (General): Sub-clause 23.5 and 31.3, Code charts for CJK Compatibility Ideographs and their format

The new code charts for CJK Compatibility Ideographs have problems: (a) Representative glyphs for KP-source compatibility ideographs seem not from the corresponding KP source standards; (b) Each cell now shows the corresponding unified ideograph let by " \equiv " sign with a representative glyph, and Japan considers it is not a good idea to show only one representative glyph (especially that from a different source group than the compatibility ideograph is from.)

Proposed change by Japan

Revert the code charts and the explanation of the code chart format, i.e., use the single column format as before. Otherwise, update the code charts appropriately (under the new format.)

Not accepted

- Concerning item a) (glyph differences from KP source standard), the new chart uses the same DPRK source font that was used to represent glyph in the single column format. If there are differences between any published DPRK standard and the current chart, explicit evidences should be provided to the editor.
- Concerning item b) (unified ideograph let by " \equiv " sign) the single column format has the same issue, so reverting to the old format would not improve the situation.

The editor is open to suggestion in how to describe the unified ideograph (at the right of the " \equiv " sign) if other NBs see the need. It is also possible to create tables to pick another glyph for the 'unified' ideographs, including selecting the unified ideograph from the same source if the compatibility ideograph has a single source. However, that would be an issue for compatibility ideographs that have multiple sources.

The Japanese NB and other experts are invited to make contribution on this topic.

On the context of the FCD of the 3^{rd} edition, most experts see the new format as a significant improvement and because all issues raised by Japan already exist in the previous format, there is no need to revert back to it.

JP.8 (General): Sub-clause 31.3, Name lists for CJK compatibility ideographs

The new name lists for CJK compatibility ideographs have problems: (a) Some classification (grouping) doesn't make sense and confuse readers rather than help understanding (e.g., J3-763B is classified under "Pronunciation variants from KS X 1001:1998" but it is absolutely not); (b) Many of additional information led by " \rightarrow " seem inappropriate and don't make sense..

Proposed change by Japan

Revise the list accordingly

Accepted in principle

The grouping (item a) is the same as the single column format, so this is not a new issue, even if the new multicolumn format reveals some limitation of the grouping. The issue mentioned by Japan concerning J3-763B arose because Japan recycled a KS X entry for its own usage, and because J sources are ordered before K sources, the J sources appear first.

The grouping issue will be solved by adding annotation in relevant groups (such as KSX 1001:1998 for F900-FA0B), explaining that that they may contain characters from other sources not related to these categories. Concerning b), the additional information pointed to by (such as for F9B8 and FAD4) are appropriate and describes original mapping errors that cannot be fixed because of mapping immutability. The editor is open to suggestion to better describe the issues if current text does not make sense to some NBs.

JP.9 (General): Sub-clause 31.3 Code chart for CJK Ideographs Extension C and D

Japan understood that those code charts are exactly as in their corresponding amendments, but they are revised unexpectedly in the 2nd edition. Japan considers those in the amendments are better. Moreover, [more text missing?].

Proposed change by Japan

Revert the change

Not accepted

There should not be any difference between the 2nd and 3rd edition. Concerning Extension C, the production tool changed significantly between the Amendment that added it (Amd5) and these new editions. This has introduced some errors such as 2AAC9 that have been captured (ref SC2 N4176) and will be fixed in this edition. In addition, Taiwan also went through a revision of its Ext C source characters. All this to say that these blocks are not static and can evolve after an amendment is adopted. Furthermore, it is not possible to revert to the original Amendment 5 production environment.

Concerning ext D, the editor is not aware of any issue but will fix any if made aware of specifics.

JP.10 (General): Sub- clause 31.3 Code chart for CJK Ideographs Extension B

Reflect the review report by IRG Proposed change by Japan Update accordingly

Accepted

JP.11 (Editorial): Sub-clause A.4.3, Last sentence

"See 0" is wrong.

Proposed change

"See 23.1"

Accepted

JP.12 (Editorial): Sub-clause A.5.5, First bullet

"See 023.1" is wrong.

Proposed change

"See 23.1"

Accepted

JP.13 (Editorial): Annex M, Glagolitic

Title of ISO 6861 is wrong; it lacks a word "alphabet".

Proposed change

Insert "alphabet" as "Glagolitic alphabet coded"

Accepted

JP.14 (Editorial): Annex M, Latin

Title of ISO 6937 is wrong; a singular word "set" is mistakenly spelled as "sets".

Proposed change

Change "sets" to "set" as "Coded graphic character set"

Accepted

JP.15 (Editorial): Annex I.1.2, Row for "SURROUND FROM BELOW" in Table I.1

The "IDS examples represents" column for the row is inappropriate, because it shows \pm inside while the corresponding IDS has \pm as D2.

Proposed change

Use a correct picture as in the 2003 edition.

Accepted in principle

JP.16 (General): Clause S.1.4.3, Chart of examples

(The same comment has been submitted as a part of the ballot comment against FDIS 10646 2nd Ed.)

Project editor introduced several issues by his changes to Annex S examples. IRG discussed on many of them and reverted most of the problematic changes. However, changes on S.1.4.3 were not found until recently.

The circled examples in the following chart taken from the current draft have problems because they don't make any sense or they change the intension of examples:

when compared to the corresponding examples in the 2003 edition of ISO/IEC 10646:

The first two circled examples in the current draft don't make any sense, because there is no chance that one thinks two ideographs with the components are subject to unification; while corresponding examples in 2003 edition are helpful because many experienced users of ideographs may misunderstand two ideographs with the components can be unified.

The last four circled examples in the current draft are valid; they show misleading cases. However, the examples in the current draft have less value than those in the 2003 edition, because they appear the cases are only applicable to the specific combinations of components as shown, while in 2003 edition the corresponding examples covered any patterns combined with the shown components.

Proposed change

Revert the examples in S.1.4.3 to those in 2003 edition.

Accepted in principle

The intent of the update was to update the example content from picture based to font based to provide a better quality document. Because sometimes, examples are not actual ideograph but fragment that are not separately encoded, this has proved challenging. As in the sub-clause S.1.5, some of the examples will be reversed back to pictures when no good alternative exists.

The examples from the 2003 edition for which there are no font based solution will be reverted to pictures. This will address all 'circled' cases. Worth noting that in the following examples:

One or more glyph in each pair is only represented in the standard as component, therefore these pair should also be represented with dotted rectangles as well.

JP.17 (Technical): Sub-clause S.1.6, G-Source

The list of G-source standards is updated from 2nd Ed. by adding two new ones: GB 12052-90 and GB 15564-1995. Japan believes adding them here is wrong, since this particular subclause is primarily a record of what we did when we created the very first CJK UNIFIED IDEOGRAPHS block and we didn't see these two standards.

Proposed change

Remove "GB 12052-90" and "GB 15564-1995".

Accepted

Some of the G sources characters were not in any of the original sources as previously described in the standard. Appropriately, the 2 new sources mentioned above were added to the G source list in sub-clause 23.1. However, none of the characters originated from these 2 sources are affected by the source separation rule described in S.1.6.

As a result of these dispositions Japan changes its vote to Positive

Korea (ROK): Negative

R.O. Korea will change its vote to "Yes" if the following request is accepted.

Technical comments:

T1 Annotations for U11xx and U31xx

- Rep. of Korea suggests that annotations for U11xx and U31xx be added.
- The list of annotations are in Annexes 1 and 2.

Annex 1. 30 annotations for U11xx characters.

1109 A HANGUL CHOSEONG SIOS

· voiceless lenis alveolar fricative consonant

110A * HANGUL CHOSEONG SSANGSIOS

voiceless unaspirated glottalized alveolar fricative consonant

110B • HANGUL CHOSEONG IEUNG

· zero sound

110C ➤ HANGUL CHOSEONG CIEUC

· voiceless or voiced lenis alveolar affricate consonant

110D ▼ HANGUL CHOSEONG SSANGCIEUC

voiceless unaspirated glottalized alveolar affricate consonant

110E ★ HANGUL CHOSEONG CHIEUCH

voiceless aspirated alveolar affricate consonant

1112 * HANGUL CHOSEONG HIEUH

• voiceless glottal fricative consonant

113C ^ HANGUL CHOSEONG CHITUEUMSIOS

voiceless lenis dental fricative consonant

113D M HANGUL CHOSEONG CHITUEUMSSANGSIOS

• voiceless glottalized dental fricative consonant

113E ^ HANGUL CHOSEONG CEONGCHIEUMSIOS

voiceless lenis retroflex fricative consonant

113F ★ HANGUL CHOSEONG CEONGCHIEUMSSANGSIOS

• voiceless glottalized retroflex fricative consonant

1140 A HANGUL CHOSEONG PANSIOS

· voiced alveolar fricative consonant

114C • HANGUL CHOSEONG YESIEUNG

velar nasal consonant

114E > HANGUL CHOSEONG CHITUEUMCIEUC

• voiceless or voiced lenis dental affricate consonant

114F M HANGUL CHOSEONG CHITUEUMSSANGCIEUC

voiceless unaspirated glottalized dental affricate consonant

1150 ↑ HANGUL CHOSEONG CEONGCHIEUMCIEUC

· voiceless or voiced lenis retroflex affricate consonant

1151 ★ HANGUL CHOSEONG CEONGCHIEUMSSANGCIEUC

• voiceless unaspirated glottalized retroflex affricate consonant

1154 * HANGUL CHOSEONG CHITUEUMCHIEUCH

· voiceless aspirated dental affricate consonant

1155 * HANGUL CHOSEONG CEONGCHIEUMCHIEUCH

voiceless aspirated retroflex affricate consonant

1159 더 HANGUL CHOSEONG YEORINHIEUH

• glottal stop consonant

119E , HANGUL JUNGSEONG ARAEA

· rounded open-mid back vowel

11BA ^ HANGUL JONGSEONG SIOS

· voiceless lenis alveolar fricative consonant

11BB * HANGUL JONGSEONG SSANGSIOS

• voiceless unaspirated glottalized alveolar fricative consonant

11BC • HANGUL JONGSEONG IEUNG

velar nasal consonant

11BD ズ HANGUL JONGSEONG CIEUC

• voiceless or voiced lenis alveolar affricate consonant

11BE ★ HANGUL JONGSEONG CHIEUCH

· voiceless aspirated alveolar affricate consonant

11C2 * HANGUL JONGSEONG HIEUH

• voiceless glottal fricative consonant

11EB A HANGUL JONGSEONG PANSIOS

· voiced alveolar fricative consonant

11F0 • HANGUL JONGSEONG YESIEUNG

velar nasal consonant

11F9 ㅎ HANGUL JONGSEONG YEORINHIEUH

• glottal stop consonant

Annex 2. 6 annotations for U31xx characters.

3147 O HANGUL LETTER IEUNG

zero sound as initial or velar nasal consonant as final

314E さ HANGUL LETTER HIEUH

voiceless glottal fricative consonant

317F △ HANGUL LETTER PANSIOS

• voiced alveolar fricative consonant

3181 O HANGUL LETTER YESIEUNG

velar nasal consonant

3186 THANGUL LETTER YEORINHIEUH

• glottal stop consonant

318D · HANGUL LETTER ARAEA

- rounded open-mid back vowel
- * Note. Currently U3181 and U3186 has annotations. R.O.Korea suggests that the current annotations be replaced by the ones suggested above.

3181 O HANGUL LETTER YESIEUNG

old velar nasal

3186 ਰ HANGUL LETTER YEORINHIEUH

old glottal stop

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Accepted in principle

Similar requests have been made in previous ballots concerning the 2^{nd} and 3^{rd} edition which were all withdrawn during comment disposition. These requests were trying to add annotation for all 50 Hangul Compatibility Jamos (3131-318E). This is now replaced by annotation requests for 36 possibly visually confusable characters:

- a) 30 Jamos (in area 1100-11FF), including 20 initial consonants (Choseong), 1 medial vowel (Jungseong), and 9 final consonants (Jongseong) and
- b) 6 Hangul Compatibility Jamos in area 3130-318F)

The annotations for the 9 final consonants are identical to the related initial consonants with one exception: 110B HANGUL CHOSEONG IEUNG (zero sound) versus 11BC HANGUL JONGSEONG IEUNG (velar nasal consonant), and the 6 Hangul Compatibility Jamos are again a subset of the consonant/vowel annotated in the 11xx block.

In addition, the terms 'affricate, fricative, and stop' denote consonant and make the ending 'consonant' unnecessary in those instances. Finally, the term 'unaspirated glottalized' is typically not used as a contrasting version of 'lenis', but instead the term 'fortis' should be used.

As a result of these findings, the following annotations will be added:

Hangul Jamo block (1100-11FF)

1109 A HANGUL CHOSEONG SIOS

· voiceless lenis alveolar fricative

110A * HANGUL CHOSEONG SSANGSIOS

· voiceless fortis alveolar fricative

110B • HANGUL CHOSEONG IEUNG

· zero sound

110C ▼ HANGUL CHOSEONG CIEUC

voiceless or voiced lenis alveolar affricate

110D ™ HANGUL CHOSEONG SSANGCIEUC

voiceless unaspirated fortis alveolar affricate

110E ≯ HANGUL CHOSEONG CHIEUCH

· voiceless aspirated alveolar affricate

1112 * HANGUL CHOSEONG HIEUH

· voiceless glottal fricative

113C ^ HANGUL CHOSEONG CHITUEUMSIOS

· voiceless lenis dental fricative

113D / HANGUL CHOSEONG CHITUEUMSSANGSIOS

voiceless fortis dental fricative

113E ^ HANGUL CHOSEONG CEONGCHIEUMSIOS

· voiceless lenis retroflex fricative

113F ~ HANGUL CHOSEONG CEONGCHIEUMSSANGSIOS

voiceless fortis retroflex fricative

1140 A HANGUL CHOSEONG PANSIOS

· voiced alveolar fricative

114C . HANGUL CHOSEONG YESIEUNG

· velar nasal consonant

114E ➤ HANGUL CHOSEONG CHITUEUMCIEUC

· voiceless or voiced lenis dental affricate

114F → HANGUL CHOSEONG CHITUEUMSSANGCIEUC

voiceless unaspirated fortis dental affricate

1150 ▼ HANGUL CHOSEONG CEONGCHIEUMCIEUC

· voiceless or voiced lenis retroflex affricate

1151 ★ HANGUL CHOSEONG CEONGCHIEUMSSANGCIEUC

· voiceless unaspirated fortis retroflex affricate

1154 * HANGUL CHOSEONG CHITUEUMCHIEUCH

· voiceless aspirated dental affricate

1155 * HANGUL CHOSEONG CEONGCHIEUMCHIEUCH

voiceless aspirated retroflex affricate

1159 ਰ HANGUL CHOSEONG YEORINHIEUH

glottal stop

119E NHANGUL JUNGSEONG ARAEA

rounded open-mid back vowel

11BC • HANGUL JONGSEONG IEUNG

velar nasal consonant

Hangul Compatibility Jamo (3130-318F)

3147 O HANGUL LETTER IEUNG

· zero sound as initial or velar nasal consonant as final

314E ㅎ HANGUL LETTER HIEUH

· voiceless glottal fricative

317F △ HANGUL LETTER PANSIOS

· voiced alveolar fricative

3181 O HANGUL LETTER YESIEUNG

velar nasal consonant

3186 ਰ HANGUL LETTER YEORINHIEUH

glottal stop

318D · HANGUL LETTER ARAEA

· rounded open-mid back vowel

United Kingdom: Positive with comments

Editorial comments

E.1. Sub-clause 16.5

"This International Standard incorporates by reference the variation sequences listed in version 2007-12-14 of the Ideographic Variation Database"

The version referenced should be "2010-11-14"

Proposed change:

Change to:

"This International Standard incorporates by reference the variation sequences listed in version 2010-11-14 of the Ideographic Variation Database".

Accepted

See also comment JP6 from Japan.

E.2. Sub-clause 23.1

The G-source "ZhongHua ZiHai" is incorrectly capitalized.

Proposed change:

Capitalize as "Zhonghua Zihai"

Accepted

E.3. Sub-clause 23.2, 23.4

"2nd field: Radical-Stroke index ($d\{1,3\}$ '. $d\{1,2\}$). This informative field contains radical index (one to three digits), optionally followed by an apostrophe for alternate index, followed by a full stop, and ending by one or two digits for the stroke count. NOTE 2 – All ideographs are classified following radical/stroke indexes in various CJK dictionaries. The primary value provided in this field is the most common one, while alternate indexes provide variant values also in use. More information is available in the Unicode Standard UAX#38 Unicode Han Database at http://www.unicode.org/reports/tr38/."

The description of the Radical-Stroke index in 23.2 and 23.4 is confusing. Firstly, the optional apostrophe following the radical index indicates a simplified form of the radical, not an "alternate index". Secondly, in 23.2 Note 2 it is not clear what the "alternate indexes" refer to; it could be read to mean that multiple radical-stroke indexes are provided in this field (a primary index and alternate indexes), although only a single radical-stroke index is given for each character.

Proposed change:

In 23.2 change to:

"2nd field: Radical-Stroke index (d{1,3}'.d{1,2}). This informative field contains a radical index (one to three digits), optionally followed by an apostrophe for simplified radicals, followed by a full stop, and ending with one or two digits for the stroke count. NOTE 2 – All ideographs are classified following radical/stroke indexes in various CJK dictionaries. The value provided in this field is the most common one. More information is available in the Unicode Standard UAX#38 Unicode Han Database at http://www.unicode.org/reports/tr38/."

In 23.4 change to:

"3rd field: Radical-Stroke index (d{1,3}'.d{1,2}). This informative field contains a radical index (one to three digits), optionally followed by an apostrophe for simplified radicals, followed by a full stop, and ending with one or two digits for the stroke count."

Accepted

E.4. Clause 29

"The TIP (plane 03) is used for ancient ideographic scripts that are related but not classified as CJK unified ideographs. No character is encoded in the TIP."

The grammar of these two sentences is awkward.

Proposed change:

Change to:

"The TIP (plane 03) is used for ancient ideographic scripts that are related to but not classified as CJK unified ideographs. No characters are currently encoded in the TIP."

Accepted

E.5. Clause 30

"The SSP (plane 0E) is used for special purpose use graphic characters."

Tag characters in the SSP are format characters not graphic characters.

Proposed change:

Change to:

"The SSP (plane 0E) is used for special purpose use graphic characters and format characters."

Accepted

E.6. Sub-clause S.1.4.3

Some of the examples illustrating different structure of corresponding ideographic components are incorrect or suboptimal compared with the examples given in the 2003 edition of the standard. In particular the 3rd and 9th examples show pairs of unrelated components that could not be mistaken as being subject to unification.

Proposed change:

Revert to the examples given in ISO/IEC 10646:2003 S.1.4.3.

Accepted in principle

See disposition of comment JP16 from Japan.

USA: Negative with comments

Technical comments:

T.1. Latin Extended-D

We reiterate that this character is unnecessary and is a damaging duplication for the standard and should be removed from the amendment. The change of name to "GLOTTAL DOT" only introduced additional problems, for it specifically mentions the function of the character, and opens the door for potential future requests for "non-glottal" middle dot letters as well.

Justification for the request to remove this character is contained in N3678 (L2/09 - 278). A viable alternative to encoding a separate letter middle dot, for the purposes cited by the original proposal, would be to use the already encoded modifier letter, U+02D1 MODIFIER LETTER HALF TRIANGULAR COLON.

Proposed change:

The U.S. objects to the renaming of LATIN LETTER MIDDLE DOT from the original amendment to U+A78F LATIN LETTER GLOTTAL DOT, as it is a middle dot, and requests the removal of this character.

Accepted in principle

The proposed character is renamed LATIN MIDDLE DOT and pushed to the next amendment in the same proposed location: U+A78F for further feedback.

See also comments T4 from Germany and T2 from Ireland.

T.2. Batak

The evidence provided in N3320 does not demonstrate these marks to be characters, but rather to be graphic page elements that do not behave at all as characters.

Compare the following two figures from N3320.

U+ 1BFA BATAK SYMBOL BINDU GODANG in figure 11:



U+1BFB BATAK SYMBOL BINDU PINARJOLM in figure 13:



In the above examples, it is clear that the symbols are large ornaments, with text wrapping underneath them. In our assessment such elements should be represented by images, textual markup, or other mechanisms rather than being encoded as single characters.

Proposed change:

The U.S. requests the removal of the following two characters:

1BFA BATAK SYMBOL BINDU GODANG

1BFB BATAK SYMBOL BINDU PINARJOLM

Accepted

T.3. Optical Character Recognition

The names for U+2448 and U+2449 are Magnetic Ink Character Recognition (MICR) symbols used by banks on checks. The two characters U+2448 and U+2449 originally encoded in 10646-1:1993 were inadvertently mixed up; as a result their current names are misleading about their identity. The formal aliases provide the correct names. Additional corroboration is provided on the following websites: http://www.barcodesoft.com/e13bmapping.htm http://en.wikipedia.org/wiki/Magnetic ink character recognition

http://www.printerm.com/fonts2C.htm http://mindprod.com/jgloss/micr.html

Proposed change:

The U.S. asks two formal name aliases be added as listed below:

a. U+2448 OCR DASH

Add the following formal alias: 2448 MICR ON US SYMBOL

b. U+2449 OCR CUSTOMER ACCOUNT NUMBER

Add the following formal alias: 2449 MICR DASH SYMBOL

Accepted

T.4. NUSI.txt

Adding named sequences for 2 symbols from ISO/IEC 9995-7 is premature, pending a complete analysis of the encoding requirements for the repertoire of symbols from that keyboard standard.

Proposed change:

The U.S. requests the removal of the following two named sequences, as requested in N3897:

U+21F3 U+20E2 KEYBOARD SYMBOL SCROLLING

U+2139 U+20E2 KEYBOARD SYMBOL HELP

Accepted

Editorial comments:

E.1. CJK Fonts

The U.S. is aware of a large number of glyph errors in Extension B fonts that have been discovered in the course of IRG and national body review. These glyph errors must be fixed before publication of the third edition.

Accepted

See comment JP10 from Japan

E.2. Arrows

The proposed glyph changes, as proposed in N3897, need further review, as part of the full analysis of the encoding requirements for the repertoire of symbols from the ISO 9995-7 keyboard standard.

Proposed change:

The U.S. requests the glyph changes for U+21E6 - U+21F0 and U+21F3 in the Arrows block, as included in the current ballot, be reverted. While the U.S. is open to improvements to glyphs, the new glyphs are out of sync with the set of arrows at U+2B00-U+2B04 in the Miscellaneous Symbols and Arrows block.

Accepted

As a result of these dispositions US NB changes its vote to Positive

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Various signs

0981 ઁ BENGALI SIGN CANDRABINDU 0982 BENGALI SIGN ANUSVARA 0983 ≎ BENGALI SIGN VISARGA

Independent vowels

BENGALI LETTER A BENGALI LETTER AA আ 0986 0987 BENGALI LETTER I 0988 BENGALI LETTER II 0989 BENGALI LETTER U উ 098A BENGALI LETTER UU

098B ৠ BENGALI LETTER VOCALIC R 098C BENGALI LETTER VOCALIC L

098D <reserved> 098E <reserved>

098F BENGALI LETTER E 0990 ঐ BENGALI LETTER AI

0991 <reserved> 0992 <reserved>

0993 BENGALI LETTER O ক্ত 0994 BENGALI LETTER AU

Consonants

0995 BENGALI LETTER KA 0996 খ BENGALI LETTER KHA 0997 BENGALI LETTER GA 0998 BENGALI LETTER GHA 0999 B BENGALI LETTER NGA 099A Б BENGALI LETTER CA 099B চ BENGALI LETTER CHA 099C জ BENGALI LETTER JA ঝ 099D BENGALI LETTER JHA 099E ശ്ര BENGALI LETTER NYA 099F BENGALI LETTER TTA t 09A0 BENGALI LETTER TTHA 09A1 ড BENGALI LETTER DDA 19 09A2 BENGALI LETTER DDHA 09A3 ণ BENGALI LETTER NNA 09A4 BENGALI LETTER TA 09A5 থ BENGALI LETTER THA 09A6 BENGALI LETTER DA ধ 09A7 BENGALI LETTER DHA 09A8 BENGALI LETTER NA <u>প্র</u> 09A9 <reserved> 09AA BENGALI LETTER PA ফ 09AB BENGALI LETTER PHA 09AC BENGALI LETTER BA = Bengali va, wa 09AD BENGALI LETTER BHA 09AE ম BENGALI LETTER MA 09AF য BENGALI LETTER YA 09B0 BENGALI LETTER RA 09B1 <reserved> 09B2 BENGALI LETTER LA 09B3 <reserved> 09B4 <reserved> 09B5 <reserved>

Various signs

স

09B6

09B7

09B8

09B9

. BENGALI SIGN NUKTA

BENGALI LETTER SHA

BENGALI LETTER SSA

BENGALI LETTER SA

BENGALI LETTER HA

• for extending the alphabet to new letters

09BD 혹 BENGALI SIGN AVAGRAHA

Dependent vowel signs

of BENGALI VOWEL SIGN AA 09BE 09BF BENGALI VOWEL SIGN I

• stands to the left of the consonant

BENGALI VOWEL SIGN II 09C0 09C1 BENGALI VOWEL SIGN U

09C2 BENGALI VOWEL SIGN UU

09C3 BENGALI VOWEL SIGN VOCALIC R ৃ 09C4 BENGALI VOWEL SIGN VOCALIC RR

09C5 <reserved> 09C6 <reserved>

09C7 BENGALI VOWEL SIGN E

· stands to the left of the consonant

್ 09C8 BENGALI VOWEL SIGN AI

• stands to the left of the consonant

Two-part dependent vowel signs

These vowel signs have glyph pieces which stand on both sides of the consonant; they follow the consonant in logical order, and should be handled as a unit for most processing.

09CB ো BENGALI VOWEL SIGN O = 09C7 C 09BE ा

09CC ৌ BENGALI VOWEL SIGN AU = 09C7 ে 09D7 ੋ

Virama

09CD ् BENGALI SIGN VIRAMA = hasant (Bengali term for halant)

Additional consonant

• a dead consonant form of ta, without implicit vowel, used in some sequences

Sign

09D7 히 BENGALI AU LENGTH MARK

Additional consonants

09DC ♥ BENGALI LETTER RRA

= 09A1 ড 09BC ়

09DD BENGALI LETTER RHA

= 09A2 v 09BC ़

09DE 🔘 <reserved>

09DF BENGALI LETTER YYA = 09AF ₹ 09BC ○

Additional vowels for Sanskrit

09E0 BENGALI LETTER VOCALIC RR 09E1 ફ BENGALI LETTER VOCALIC LL 09E2 BENGALI VOWEL SIGN VOCALIC L 09E3 BENGALI VOWEL SIGN VOCALIC LL

Reserved

For viram punctuation, use the generic Indic 0964 and 0965.

09E4 <reserved>

→ 0964 I devanagari danda

09F5 <reserved>

→ 0965 II devanagari double danda

Digits

Date: 2011-03-25

09E6 BENGALI DIGIT ZERO

Date: 2011-03-25

09E7	>	BENGALI DIGIT ONE
09E8	২	BENGALI DIGIT TWO
09E9	•	BENGALI DIGIT THREE
09EA	8	BENGALI DIGIT FOUR
09EB	œ	BENGALI DIGIT FIVE
09EC	৬	BENGALI DIGIT SIX
09ED	٩	BENGALI DIGIT SEVEN
09EE	Ъ	BENGALI DIGIT EIGHT
09EF	৯	BENGALI DIGIT NINE

09EF	৯	BENGALI DIGIT NINE
Ben	ga	li-specific additions
09F0	ৰ	BENGALI LETTER RA WITH MIDDLE DIAGONAL
		• Assamese
09F1	ৱ	BENGALI LETTER RA WITH LOWER DIAGONAL
		= bengali letter va with lower diagonal (1.0)
		• Assamese
09F2	\neg	BENGALI RUPEE MARK
09F3	৳	BENGALI RUPEE SIGN
09F4	7	BENGALI CURRENCY NUMERATOR ONE
		• not in current usage
09F5	×	BENGALI CURRENCY NUMERATOR TWO
		• not in current usage
09F6	ν	BENGALI CURRENCY NUMERATOR THREE
		• not in current usage
09F7	1	BENGALI CURRENCY NUMERATOR FOUR
09F8	ч	BENGALI CURRENCY NUMERATOR ONE LESS
		THAN THE DENOMINATOR
09F9	•	BENGALI CURRENCY DENOMINATOR SIXTEEN
09FA		BENGALI ISSHAR
09FB	<	BENGALI GANDA MARK

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Date: 2011-03-25

Date: 2011-03-25

These characters are used to represent the 52-card and 56card variants of modern playing cards, as well as the 56card Minor Arcana of the Western Tarot.

Back of card

1F0A0 PLAYING CARD BACK

Spades or swords

•		
1F0A1	•	PLAYING CARD ACE OF SPADES
1F0A2		PLAYING CARD TWO OF SPADES
1F0A3	· :	PLAYING CARD THREE OF SPADES
1F0A4		PLAYING CARD FOUR OF SPADES
1F0A5	••:	PLAYING CARD FIVE OF SPADES
1F0A6		PLAYING CARD SIX OF SPADES
1F0A7		PLAYING CARD SEVEN OF SPADES
1F0A8		PLAYING CARD EIGHT OF SPADES
1F0A9		PLAYING CARD NINE OF SPADES
1F0AA		PLAYING CARD TEN OF SPADES
1F0AB	쯘	PLAYING CARD JACK OF SPADES
		= valet, Bube, Unter, Page, fante
	_	= page of swords
1F0AC		PLAYING CARD KNIGHT OF SPADES
		= chevalier, Ober, Ritter, cavall, cavaliere
	_	= knight of swords
1F0AD		PLAYING CARD QUEEN OF SPADES
		= dame, Dame, Königin, regina
		= queen of swords
1F0AE		PLAYING CARD KING OF SPADES
		= roi, König, re
		= king of swords
		-

Hearts or cups

ııcaı	IJ	oi cups
1F0B1	٠٠,	PLAYING CARD ACE OF HEARTS
1F0B2	٠,	PLAYING CARD TWO OF HEARTS
1F0B3	4 : 4 : 4 :	PLAYING CARD THREE OF HEARTS
1F0B4		PLAYING CARD FOUR OF HEARTS
1F0B5	**	PLAYING CARD FIVE OF HEARTS
1F0B6	**	PLAYING CARD SIX OF HEARTS
1F0B7	**	PLAYING CARD SEVEN OF HEARTS
1F0B8	X,	PLAYING CARD EIGHT OF HEARTS
1F0B9	**	PLAYING CARD NINE OF HEARTS
1F0BA	× ×	PLAYING CARD TEN OF HEARTS
1F0BB	8	PLAYING CARD JACK OF HEARTS
		= valet, Bube, Unter, Page, fante
	_	= page of cups
1F0BC	<u>(2</u>	PLAYING CARD KNIGHT OF HEARTS
		= chevalier, Ober, Ritter, cavall, cavaliere
	_	= knight of cups
1F0BD	5	PLAYING CARD QUEEN OF HEARTS
		= dame, Dame, Königin, regina
	_	= queen of cups
1F0BE		PLAYING CARD KING OF HEARTS
		= roi, König, re
		= king of cups

Diamonds or pentacles

	-	•
1F0C1	•	PLAYING CARD ACE OF DIAMONDS
1F0C2		PLAYING CARD TWO OF DIAMONDS
1F0C3		PLAYING CARD THREE OF DIAMONDS
1F0C4	• •;	PLAYING CARD FOUR OF DIAMONDS
1F0C5	,	PLAYING CARD FIVE OF DIAMONDS
1F0C6	:: <u>;</u>	PLAYING CARD SIX OF DIAMONDS
1F0C7		PLAYING CARD SEVEN OF DIAMONDS
1F0C8		PLAYING CARD EIGHT OF DIAMONDS
1F0C9		PLAYING CARD NINE OF DIAMONDS
1F0CA		PLAYING CARD TEN OF DIAMONDS

g	Car	as	11
	1F0CB		PLAYING CARD JACK OF DIAMONDS = valet, Bube, Unter, Page, fante
	1F0CC		= page of pentacles PLAYING CARD KNIGHT OF DIAMONDS = chevalier, Ober, Ritter, cavall, cavaliere
	1F0CD	E € II.	= knight of pentacles PLAYING CARD QUEEN OF DIAMONDS = dame, Dame, Königin, regina
	1F0CE	8	= queen of pentacles PLAYING CARD KING OF DIAMONDS = roi, König, re
	1F0CF	*	= king of pentacles PLAYING CARD BLACK JOKER
	Club		or wands
	1F0D1 1F0D2 1F0D3 1F0D4 1F0D5 1F0D6 1F0D7 1F0D8 1F0D9 1F0DA 1F0DB		PLAYING CARD ACE OF CLUBS PLAYING CARD TWO OF CLUBS PLAYING CARD THREE OF CLUBS PLAYING CARD FOUR OF CLUBS PLAYING CARD FIVE OF CLUBS PLAYING CARD SIX OF CLUBS PLAYING CARD SEVEN OF CLUBS PLAYING CARD EIGHT OF CLUBS PLAYING CARD NINE OF CLUBS PLAYING CARD TEN OF CLUBS PLAYING CARD TEN OF CLUBS PLAYING CARD TEN OF CLUBS PLAYING CARD JACK OF CLUBS = valet, Bube, Unter, Page, fante = page of wands
	1F0DC		= page of wands PLAYING CARD KNIGHT OF CLUBS = chevalier, Ober, Ritter, cavall, cavaliere

= knight of wands

1FODD PLAYING CARD QUEEN OF CLUBS = dame, Dame, Königin, regina = queen of wands

1FODE PLAYING CARD KING OF CLUBS = roi, König, re = king of wands

1F0DF PLAYING CARD WHITE JOKER • may also be red