

**ISO/IEC JTC 1/SC 2
Coded Character Sets
Secretariat: [Japan \(JISC\)](#)**

DOC. TYPE	Summary of Voting/Table of Replies	
TITLE	Result of voting on SC 2 N 4168, ISO/IEC FCD 10646 (3rd Ed.), Information technology -- Universal Coded Character Set (UCS)	
SOURCE	SC 2 Secretariat	
PROJECT	JTC 1.02.10646.00.00.00.03	
STATUS	This document is forwarded to WG 2 for disposition of comments. WG 2 is requested to prepare a disposition of comments report, revised text and a recommendation for further processing.	
ACTION ID	FYI	
DUE DATE		
DISTRIBUTION	P, O and L Members of ISO/IEC JTC 1/SC 2 ; ISO/IEC JTC 1 Secretariat; ISO/IEC ITTF	
ACCESS LEVEL	Def	
ISSUE NO.	373	
FILE	NAME SIZE (KB) PAGES	02n4181.zip

Secretariat ISO/IEC JTC 1/SC 2 - IPSJ/ITSCJ (Information Processing Society of Japan/Information Technology Standards Commission of Japan)* Room 308-3, Kikai-Shinko-Kaikan Bldg., 3-5-8, Shiba-Koen, Minato-ku, Tokyo 105-0011 Japan *Standard Organization Accredited by JISC
Telephone: +81-3-3431-2808; Facsimile: +81-3-3431-6493; E-mail: kimura@itscj.ipsj.or.jp

Result of voting

Ballot Information

Ballot reference	SC2N4168
Ballot type	CIB
Ballot title	ISO/IEC FCD 10646 (3rd Ed.), Information Technology -- Universal Coded Character Set (UCS)
Opening date	2010-11-27
Closing date	2011-03-27
Note	

Member responses:

Votes cast (21)	Canada (SCC) China (SAC) Egypt (EOS) Finland (SFS) France (AFNOR) Germany (DIN) Greece (ELOT) Hungary (MSZT) India (BIS) Indonesia (BSN) Ireland (NSAI) Japan (JISC) Korea, Dem. P. Rep. of (CSK) Korea, Republic of (KATS) Romania (ASRO) Russian Federation (GOST R) Sweden (SIS) Thailand (TISI) Ukraine (DSSU) United Kingdom (BSI) USA (ANSI)
Comments submitted (2)	Armenia (SARM) Italy (UNI)
Votes not cast (8)	Austria (ASI) Iceland (IST) Mongolia (MASM) Norway (SN) Poland (PKN) Serbia (ISS) Sri Lanka (SLSI) Tunisia (INNORPI)

Questions:

Q.1	"Do you agree with approval of the FCD Text?"
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Q.2	"If you approve the FCD Text with comments, would you please indicate which type ? (General, Technical or Editorial)"
Q.3	"If you Disapprove the Draft, would you please indicate if you accept to change your vote to Approval if the reasons and appropriate changes will be accepted?"

Votes by members	Q.1	Q.2	Q.3
Canada (SCC)	Approval as presented	Ignore	Ignore
China (SAC)	Approval as presented	Ignore	Ignore
Egypt (EOS)	Approval with comments	Editorial	Ignore
Finland (SFS)	Approval as presented	Ignore	Ignore
France (AFNOR)	Approval as presented	Ignore	Ignore
Germany (DIN)	Approval with comments	Technical	Ignore
Greece (ELOT)	Abstention	Ignore	Ignore
Hungary (MSZT)	Approval as presented	Ignore	Ignore
India (BIS)	Approval as presented	Ignore	Ignore
Indonesia (BSN)	Abstention	Ignore	Ignore
Ireland (NSAI)	Disapproval of the draft	Ignore	Yes
Japan (JISC)	Disapproval of the draft	All	Yes
Korea, Dem. P. Rep. of (CSK)	Abstention	All	No
Korea, Republic of (KATS)	Disapproval of the draft	Ignore	Yes
Romania (ASRO)	Approval as presented	Ignore	Ignore
Russian Federation (GOST R)	Approval as presented	Ignore	Ignore
Sweden (SIS)	Abstention	Ignore	Ignore
Thailand (TISI)	Approval as presented	Ignore	Ignore
Ukraine (DSSU)	Approval as presented	Ignore	Ignore
United Kingdom (BSI)	Approval with comments	Editorial	Ignore
USA (ANSI)	Disapproval of the draft	Ignore	Ignore

Answers to Q.1: "Do you agree with approval of the FCD Text?"

10 x	Approval as presented	Canada (SCC) China (SAC) Finland (SFS) France (AFNOR) Hungary (MSZT) India (BIS) Romania (ASRO) Russian Federation (GOST R) Thailand (TISI) Ukraine (DSSU)
3 x	Approval with comments	Egypt (EOS) Germany (DIN) United Kingdom (BSI)
4 x	Disapproval of the draft	Ireland (NSAI) Japan (JISC) Korea, Republic of (KATS) USA (ANSI)
4 x	Abstention	Greece (ELOT) Indonesia (BSN) Korea, Dem. P. Rep. of (CSK) Sweden (SIS)

Answers to Q.2: "If you approve the FCD Text with comments, would you please indicate which type ? (General, Technical or Editorial)"

0 x	General	
1 x	Technical	Germany (DIN)
2 x	Editorial	Egypt (EOS) United Kingdom (BSI)
2 x	All	Japan (JISC) Korea, Dem. P. Rep. of (CSK)
16 x	Ignore	Canada (SCC) China (SAC) Finland (SFS) France (AFNOR) Greece (ELOT) Hungary (MSZT) India (BIS) Indonesia (BSN) Ireland (NSAI) Korea, Republic of (KATS) Romania (ASRO) Russian Federation (GOST R) Sweden (SIS) Thailand (TISI) Ukraine (DSSU) USA (ANSI)

Answers to Q.3: "If you Disapprove the Draft, would you please indicate if you accept to change your vote to Approval if the reasons and appropriate changes will be accepted?"

3 x	Yes	Ireland (NSAI) Japan (JISC) Korea, Republic of (KATS)
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1 x	No	Korea, Dem. P. Rep. of (CSK)
17 x	Ignore	Canada (SCC) China (SAC) Egypt (EOS) Finland (SFS) France (AFNOR) Germany (DIN) Greece (ELOT) Hungary (MSZT) India (BIS) Indonesia (BSN) Romania (ASRO) Russian Federation (GOST R) Sweden (SIS) Thailand (TISI) Ukraine (DSSU) United Kingdom (BSI) USA (ANSI)

Comments from Voters		
Member:	Comment:	Date:
Egypt (EOS)	Comment	2011-03-14 13:40:57
<p>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 of these characters by all Arabic speaking users:</p> <p>replace all (BEH) with (BA')</p> <p>replace all (TEH) with (TA')</p> <p>replace all (THEH) with (THA')</p> <p>replace all (HAH) with (HA')</p> <p>replace all (KHAH) with (KHA')</p> <p>replace all (REH) with (RA')</p> <p>replace all (ZAIN) with (ZAY)</p> <p>replace all (ZAH) with (DHA')</p> <p>replace all (FEH) with (FA')</p> <p>replace all (HEH) with (HA')</p> <p>replace all (YEH) with (YA')</p> <p>replace all (WASLA) with (WASL)</p>		
Germany (DIN)	Comment File	2011-02-07 12:55:14
CommentFiles/SC2N4168_DIN.doc		

Ireland (NSAI)	Comment	2011-03-25 15:51:21
Ireland (NSAI) wishes to vote NEGATIVE with comments		
Ireland (NSAI)	Comment File	2011-03-25 15:51:21
CommentFiles/SC2N4168_NSAI.pdf		
Japan (JISC)	Comment File	2011-03-15 03:42:44
CommentFiles/SC2N4168_JISC.doc		
Korea, Republic of (KATS)	Comment File	2011-03-22 08:51:55
CommentFiles/SC2N4168_KATS.pdf		
United Kingdom (BSI)	Comment	2011-03-22 14:54:42
File attached		
United Kingdom (BSI)	Comment File	2011-03-22 14:54:42
CommentFiles/SC2N4168_BSI.doc		
USA (ANSI)	Comment File	2011-03-02 20:22:11
CommentFiles/SC2N4168_ANSI.docx		

Comments from Commenters		
Member:	Comment:	Date:
Armenia (SARM)	Comment	2011-03-23 07:53:19
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.		
Italy (UNI)	Comment	2011-03-23 16:57:41
No comments		

ISO/IEC JTC 1/SC 2 N 4181

DATE: 2011-03-29

ISO/IEC JTC 1/SC 2
Coded Character Sets
Secretariat: [Japan \(JISC\)](#)

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ISSUE NO.	373						
FILE	<table border="1"><thead><tr><th>NAME</th><th>SIZE (KB)</th><th>PAGES</th></tr></thead><tbody><tr><td>02n4181.zip</td><td></td><td></td></tr></tbody></table>	NAME	SIZE (KB)	PAGES	02n4181.zip		
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Secretariat ISO/IEC JTC 1/SC 2 - IPSJ/ITSCJ (Information Processing Society of Japan/Information Technology Standards Commission of Japan)* Room 308-3, Kikai-Shinko-Kaikan Bldg., 3-5-8, Shiba-Koen, Minato-ku, Tokyo 105-0011 Japan *Standard Organization Accredited by JISC
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Q.3	"If you Disapprove the Draft, would you please indicate if you accept to change your vote to Approval if the reasons and appropriate changes will be accepted?"

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France (AFNOR)	Approval as presented	Ignore	Ignore
Germany (DIN)	Approval with comments	Technical	Ignore
Greece (ELOT)	Abstention	Ignore	Ignore
Hungary (MSZT)	Approval as presented	Ignore	Ignore
India (BIS)	Approval as presented	Ignore	Ignore
Indonesia (BSN)	Abstention	Ignore	Ignore
Ireland (NSAI)	Disapproval of the draft	Ignore	Yes
Japan (JISC)	Disapproval of the draft	All	Yes
Korea, Dem. P. Rep. of (CSK)	Abstention	All	No
Korea, Republic of (KATS)	Disapproval of the draft	Ignore	Yes
Romania (ASRO)	Approval as presented	Ignore	Ignore
Russian Federation (GOST R)	Approval as presented	Ignore	Ignore
Sweden (SIS)	Abstention	Ignore	Ignore
Thailand (TISI)	Approval as presented	Ignore	Ignore
Ukraine (DSSU)	Approval as presented	Ignore	Ignore
United Kingdom (BSI)	Approval with comments	Editorial	Ignore
USA (ANSI)	Disapproval of the draft	Ignore	Ignore

Answers to Q.1: "Do you agree with approval of the FCD Text?"

10 x	Approval as presented	Canada (SCC) China (SAC) Finland (SFS) France (AFNOR) Hungary (MSZT) India (BIS) Romania (ASRO) Russian Federation (GOST R) Thailand (TISI) Ukraine (DSSU)
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4 x	Disapproval of the draft	Ireland (NSAI) Japan (JISC) Korea, Republic of (KATS) USA (ANSI)
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Answers to Q.2: "If you approve the FCD Text with comments, would you please indicate which type ? (General, Technical or Editorial)"

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2 x	All	Japan (JISC) Korea, Dem. P. Rep. of (CSK)
16 x	Ignore	Canada (SCC) China (SAC) Finland (SFS) France (AFNOR) Greece (ELOT) Hungary (MSZT) India (BIS) Indonesia (BSN) Ireland (NSAI) Korea, Republic of (KATS) Romania (ASRO) Russian Federation (GOST R) Sweden (SIS) Thailand (TISI) Ukraine (DSSU) USA (ANSI)

Answers to Q.3: "If you Disapprove the Draft, would you please indicate if you accept to change your vote to Approval if the reasons and appropriate changes will be accepted?"

3 x	Yes	Ireland (NSAI) Japan (JISC) Korea, Republic of (KATS)
-----	-----	---

1 x	No	Korea, Dem. P. Rep. of (CSK)
17 x	Ignore	Canada (SCC) China (SAC) Egypt (EOS) Finland (SFS) France (AFNOR) Germany (DIN) Greece (ELOT) Hungary (MSZT) India (BIS) Indonesia (BSN) Romania (ASRO) Russian Federation (GOST R) Sweden (SIS) Thailand (TISI) Ukraine (DSSU) United Kingdom (BSI) USA (ANSI)

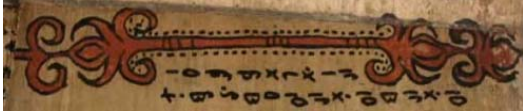
Comments from Voters		
Member:	Comment:	Date:
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United Kingdom (BSI)	Comment	2011-03-22 14:54:42
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Italy (UNI)	Comment	2011-03-23 16:57:41
No comments		

Template for comments and secretariat observations

Date:	Document:
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1	2	(3)	4	5	(6)	(7)
MB ¹	Clause No./ Subclause No./ Annex (e.g. 3.1)	Paragraph/ Figure/Table/ Note (e.g. Table 1)	Type of comment ²	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
US		Latin Extended-D	T.1.	<p>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.</p> <p>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.</p>	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.	
US		Batak	T.2.	<p>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.</p> <p>Compare the following two figures from N3320.</p> <p>U+ 1BFA BATAK SYMBOL BINDU GODANG in figure 11:</p>  <p>U+1BFB BATAK SYMBOL BINDU PINARJOLM in figure 13 :</p>	The U.S. requests the removal of the following two characters: 1BFA BATAK SYMBOL BINDU GODANG 1BFB BATAK SYMBOL BINDU PINARJOLM	

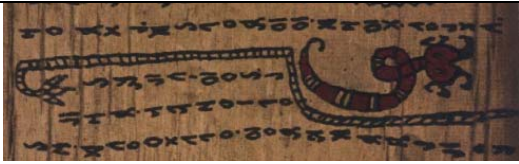
1 **MB** = Member body (enter the ISO 3166 two-letter country code, e.g. CN for China; comments from the ISO/CS editing unit are identified by **)

2 **Type of comment:** **ge** = general **te** = technical **ed** = editorial

NOTE Columns 1, 2, 4, 5 are compulsory.

Template for comments and secretariat observations

Date:	Document:
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1	2	(3)	4	5	(6)	(7)
MB ¹	Clause No./ Subclause No./ Annex (e.g. 3.1)	Paragraph/ Figure/Table/ Note (e.g. Table 1)	Type of comment ²	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
				 <p>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.</p>		
US		Optical Character Recognition	T.3	<p>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.barcode.com/e13bmapping.htm http://en.wikipedia.org/wiki/Magnetic_ink_character_recognition http://www.printerm.com/fonts2C.htm http://mindprod.com/jgloss/micr.html</p>	<p>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</p>	
US		NUSI.txt	T.4	<p>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.</p>	<p>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</p>	

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MB ¹	Clause No./ Subclause No./ Annex (e.g. 3.1)	Paragraph/ Figure/Table/ Note (e.g. Table 1)	Type of comment ²	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
US		CJK Fonts	E.1.	(see Proposed Change)	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.	
US		Arrows	E.2.	The proposed glyph changes, as proposed in N3987, 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	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.	
US			T.7.			
US			T.8.			
US			T.9.			
US			T.2.			
US			T.2.			
US			T.2.			
US			T.2.			
US			T.2.			
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Template for comments and secretariat observations

Date: 2011-03-12 Document: ISO/IEC FCD 10646: 2012

1	2	(3)	4	5	(6)	(7)
MB ¹	Clause No./ Subclause No./ Annex (e.g. 3.1)	Paragraph/ Figure/Table/ Note (e.g. Table 1)	Type of comment ²	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
GB	16.5	Note 2	ed	<p>“This International Standard incorporates by reference the variation sequences listed in version 2007-12-14 of the Ideographic Variation Database”</p> <p>The version referenced should be “2010-11-14”</p>	<p>Change to:</p> <p>“This International Standard incorporates by reference the variation sequences listed in version 2010-11-14 of the Ideographic Variation Database”</p>	
GB	23.1		ed	<p>The G-source “ZhongHua ZiHai” is incorrectly capitalized.</p>	<p>Capitalize as “Zhonghua Zihai”</p>	
GB	23.2, 23.4		ed	<p>“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/.”</p> <p>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.</p>	<p>In 23.2 change to:</p> <p>“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/.”</p> <p>In 23.4 change to:</p> <p>“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.”</p>	
GB	29		ed	<p>“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.”</p>	<p>Change to:</p> <p>“The TIP (plane 03) is used for ancient ideographic scripts that are related to but not classified as CJK unified ideographs. No</p>	

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Template for comments and secretariat observations

Date: 2011-03-12	Document: ISO/IEC FCD 10646: 2012
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1	2	(3)	4	5	(6)	(7)
MB¹	Clause No./ Subclause No./ Annex (e.g. 3.1)	Paragraph/ Figure/Table/ Note (e.g. Table 1)	Type of com- ment²	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
				The grammar of these two sentences is awkward.	characters are currently encoded in the TIP.”	
GB	30		ed	“The SSP (plane 0E) is used for special purpose use graphic characters.” Tag characters in the SSP are format characters not graphic characters.	Change to: “The SSP (plane 0E) is used for special purpose use graphic characters and format characters.”	
GB	S.1.4.3		ed	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.	Revert to the examples given in ISO/IEC 10646:2003 S.1.4.3.	

1 **MB** = Member body (enter the ISO 3166 two-letter country code, e.g. CN for China; comments from the ISO/CS editing unit are identified by **)

2 **Type of comment:** **ge** = general **te** = technical **ed** = editorial

NOTE Columns 1, 2, 4, 5 are compulsory.

Template for comments and secretariat observations

Date: 2011-02-07

Document: ISO/IEC FCD 10646

1	2	(3)	4	5	(6)	(7)
MB ¹	Clause No./ Subclause No./ Annex (e.g. 3.1)	Paragraph/ Figure/Table/ Note (e.g. Table 1)	Type of comment ²	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
de			te	The name of the proposed character U+08AA RABIC LETTER REH WITH LOOP obviously is mistyped (at the beginning, an "A" is missing).	U+08AA ARABIC LETTER REH WITH LOOP	
de			te	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 typographicly appropriate way.	Germany opposes to requests to remove these characters from the FCD, if such are raised.	
de			te	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.	Germany requests not to introduce unnecessary arbitrariness 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.	
de			te	The following proposed character: U+A78F LATIN LETTER GLOTTAL DOT 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.	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.	
de			te	The following proposed character: U+2E3A TWO-EM DASH was accepted after the German request which yielded the	Germany requests the addition of U+2E3A TWO-EM DASH to the character collection 288 "Multilingual Latin Subset".	

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Template for comments and secretariat observations

Date: 2011-02-07	Document: ISO/IEC FCD 10646
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1	2	(3)	4	5	(6)	(7)
MB¹	Clause No./ Subclause No./ Annex (e.g. 3.1)	Paragraph/ Figure/Table/ Note (e.g. Table 1)	Type of com- ment²	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
				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.		

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Template for comments and secretariat observations

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1	2	(3)	4	5	(6)	(7)
MB ¹	Clause No./ Subclause No./ Annex (e.g. 3.1)	Paragraph/ Figure/Table/ Note (e.g. Table 1)	Type of comment ²	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
JP 1	Foreword	Last paragraph	ed	"ISO/IEC 10646:2010" is wrong.	"ISO/IEC 10646:2011"	
JP 2	4.4	NOTE	ed	"(see 0)" is wrong.	"(see 4.23)"	
JP 3	9.1	Table 2	ed	On the third row, the first letter "z" is mistakenly capitalized.	"zzzzzzzzzzzzzzzzzzzz"	
JP 4	9.2	Table 4	ed	On the first row, the first letter "x" is mistakenly capitalized.	"xxxxxxxxxxxxxxxxxxxx"	
JP 5	11	NOTE 2	ed	"ISO/IEC 6492" is wrong.	"ISO/IEC 6429"	
JP 6	16.5	NOTE 2	te	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.	Change " version 2007-12-14" to "version 2010-11-14" in the text. (URL is correct.)	
JP 7	23.5 and 31.3	code charts for CJK Compatibility Ideographs and their format	ge	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 "≡" 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.)	Revert the code charts and the explanation of the code chart format, i.e., use the <i>single column</i> format as before. Otherwise, update the code charts appropriately (under the new format.)	
JP 8	31.3	name lists for CJK compatibility ideographs	ge	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 "→" seem inappropriate and don't make sense.	Revise the lists appropriately.	
JP 9	31.3	code chart for CJK	ge	Japan understood that those code charts are exactly as in their corresponding amendments, but they are revised	Revert the change.	



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		UNIFIED IDEOGRAPHS EXTENSION C and D		unexpectedly in the 2nd edition. Japan considers those in the amendments are better. Moreover,		
JP 10	31.3	code chart for CJK UNIFIED IDEOGRAPHS EXTENSION B	ge	Reflect the review report by the IRG.	Update appropriately.	
JP 11	A.4.3	Last sentence	ed	"See 0" is wrong.	"See 23.1"	
JP 12	A.5.5	First bullet	ed	"See 023.1" is wrong.	"See 23.1"	
JP 13	Annex M	-	ed	Title of ISO 6861 is wrong; it lacks a word "alphabet".	Insert "alphabet" as "Glagolitic alphabet coded"	
JP 14	Annex M	-	ed	Title of ISO 6937 is wrong; a singular word "set" is mistakenly spelled as "sets"..	Change "sets" to "set" as "Coded graphic character set"	
JP 15	I.1.2	Row for "SURROUND FROM BELOW" in Table I.1	ed	The "IDS examples represents" column for the row is inappropriate, because it shows  inside while the corresponding IDS has  as D ₂ .	Use a correct picture as in the 2003 edition.	
JP 16	S.1.4.3	chart of examples	ge	(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,	Revert the examples in S.1.4.3 to those in 2003 edition.	

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1	2	(3)	4	5	(6)	(7)
MB ¹	Clause No./ Subclause No./ Annex (e.g. 3.1)	Paragraph/ Figure/Table/ Note (e.g. Table 1)	Type of comment ²	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
				<p>changes on S.1.4.3 were not found until recently.</p> <p>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:</p> <p> 扌·擴, 策·筭, 𠂇·然, 圣·聖, 兪·僉, 区·區, 夾·夾, 单·單, 隹·隹, 𠂇·𠂇, 贊·贊, 襄·襄, 載·載, 間·間, 朶·朶, 雋·雋, 恒·恆, 奂·奂, 从·从, 秦·秦, 豐·豐 </p> <p>when compared to the corresponding examples in the 2003 edition of ISO/IEC 10646:</p> <p> 扌·擴, 策·筭, 𠂇·然, 圣·聖, 兪·僉, 区·區, 夾·夾, 单·單, 隹·隹, 𠂇·𠂇, 贊·贊, 襄·襄, 朶·朶, 間·間, 朶·朶, 雋·雋, 恒·恆, 奂·奂, 人·人, 朶·朶, 友·友 </p> <p>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.</p> <p>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</p>		

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1	2	(3)	4	5	(6)	(7)
MB¹	Clause No./ Subclause No./ Annex (e.g. 3.1)	Paragraph/ Figure/Table/ Note (e.g. Table 1)	Type of com- ment²	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
				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.		
JP 17	S.1.6	G-Source	te	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.	Remove "GB 12052-90" and "GB 15564-1995".	

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Template for comments and secretariat observations

Date: March 22,2011 Document: **N.4168**

1	2	(3)	4	5	(6)	(7)
MB¹	Clause No./ Subclause No./ Annex (e.g. 3.1)	Paragraph/ Figure/Table/ Note (e.g. Table 1)	Type of com- ment²	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
KR	U11xx and U31xx	U11xx and U31xx	TE	Rep. of Korea suggests that annotations for U11xx and U31xx be added	1109 ㄱ HANGUL CHOSEONG SIOS → 1109 ㅋ HANGUL CHOSEONG SIOS • voiceless lenis alveolar fricative consonant	
				- R.O.Korea votes "No". - R.O.Korea will change its vote to "Yes" if the following request is accepted.		

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Korea JTC1/SC2, Committee on Character Codes

KIM, Kyongsok (GIM, Gyeongseog), Chairperson of Korea JTC1/SC2

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Author: KIM Zongsoo; KIM Kyongsok

Date: 2011.03.16

Status: National Body Position, Rep. of KOREA

Subject: Korea's comments on SC2 N4168, FCD Ballot on ISO/IEC 10646, 3ed.

- R.O.Korea votes "No".
- R.O.Korea will change its vote to "Yes" if the following request is accepted.

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 ㄱ̣ HANGUL CHOSEONG SIOS
• voiceless lenis alveolar fricative consonant
- 110A ㄱ̣̥ HANGUL CHOSEONG SSANGSIOS
• voiceless unaspirated glottalized alveolar fricative consonant
- 110B ㅇ HANGUL CHOSEONG IEUNG
• zero sound
- 110C ㄷ̣ HANGUL CHOSEONG CIEUC
• voiceless or voiced lenis alveolar affricate consonant
- 110D ㄷ̣̥ HANGUL CHOSEONG SSANGCIEUC
• voiceless unaspirated glottalized alveolar affricate consonant
- 110E ㄷ̣̥̥ HANGUL CHOSEONG CHIEUCH
• voiceless aspirated alveolar affricate consonant
- 1112 ㅎ̣ HANGUL CHOSEONG HIEUH
• voiceless glottal fricative consonant
- 113C ㄷ̣̥ HANGUL CHOSEONG CHITUEUMSIOS
• voiceless lenis dental fricative consonant
- 113D ㄷ̣̥̥ HANGUL CHOSEONG CHITUEUMSSANGSIOS
• voiceless glottalized dental fricative consonant
- 113E ㄷ̣̥̥̥ HANGUL CHOSEONG CEONGCHIEUMSIOS
• voiceless lenis retroflex fricative consonant
- 113F ㄷ̣̥̥̥̥ HANGUL CHOSEONG CEONGCHIEUMSSANGSIOS
• voiceless glottalized retroflex fricative consonant
- 1140 ㄷ̣̥̥̥̥ HANGUL CHOSEONG PANSIOS
• voiced alveolar fricative consonant
- 114C ㅇ̣ HANGUL CHOSEONG YESIEUNG
• velar nasal consonant
- 114E ㄷ̣̥̥̥̥ HANGUL CHOSEONG CHITUEUMCIEUC
• voiceless or voiced lenis dental affricate consonant
- 114F ㄷ̣̥̥̥̥̥ HANGUL CHOSEONG CHITUEUMSSANGCIEUC
• voiceless unaspirated glottalized dental affricate consonant

- 1150 ㄸ HANGUL CHOSEONG CEONGCHIEUMCIEUC
 • voiceless or voiced lenis retroflex affricate consonant
- 1151 ㅈ HANGUL CHOSEONG CEONGCHIEUMSSANGCIEUC
 • voiceless unaspirated glottalized retroflex affricate consonant
- 1154 ㅊ HANGUL CHOSEONG CHITUEUMCHIEUCH
 • voiceless aspirated dental affricate consonant
- 1155 ㅊ HANGUL CHOSEONG CEONGCHIEUMCHIEUCH
 • voiceless aspirated retroflex affricate consonant
- 1159 ㆁ HANGUL CHOSEONG YEORINHIEUH
 • glottal stop consonant
- 119E ㅝ HANGUL JUNGSEONG ARAEA
 • rounded open-mid back vowel
- 11BA ㅅ HANGUL JONGSEONG SIOS
 • voiceless lenis alveolar fricative consonant
- 11BB ㅆ HANGUL JONGSEONG SSANGSIOS
 • voiceless unaspirated glottalized alveolar fricative consonant
- 11BC ㅇ HANGUL JONGSEONG IEUNG
 • velar nasal consonant
- 11BD ㅌ HANGUL JONGSEONG CIEUC
 • voiceless or voiced lenis alveolar affricate consonant
- 11BE ㅊ HANGUL JONGSEONG CHIEUCH
 • voiceless aspirated alveolar affricate consonant
- 11C2 ㅎ HANGUL JONGSEONG HIEUH
 • voiceless glottal fricative consonant
- 11EB ㄹ HANGUL JONGSEONG PANSIOS
 • voiced alveolar fricative consonant
- 11F0 ㆁ HANGUL JONGSEONG YESIEUNG
 • velar nasal consonant
- 11F9 ㆁ HANGUL JONGSEONG YEORINHIEUH
 • glottal stop consonant

	110	111	112	113	114	115	116	117	118	119	11A	11B	11C	11D	11E	11F
0	ㄱ 1100	ㅋ 1110	ㆁ 1120	ㄴ 1130	ㄷ 1140	ㅌ 1150	ㅍ 1160	ㅊ 1170	ㅌ 1180	ㅍ 1190	ㅊ 11A0	ㅋ 11B0	ㆁ 11C0	ㄴ 11D0	ㄷ 11E0	ㅇ 11F0
1	ㄱ 1101	ㅋ 1111	ㆁ 1121	ㄴ 1131	ㄷ 1141	ㅌ 1151	ㅍ 1161	ㅊ 1171	ㅌ 1181	ㅍ 1191	ㅊ 11A1	ㅋ 11B1	ㆁ 11C1	ㄴ 11D1	ㄷ 11E1	ㅇ 11F1
2	ㄴ 1102	ㅇ 1112	ㆁ 1122	ㄴ 1132	ㄷ 1142	ㅌ 1152	ㅍ 1162	ㅊ 1172	ㅌ 1182	ㅍ 1192	ㅊ 11A2	ㅋ 11B2	ㅇ 11C2	ㄴ 11D2	ㄷ 11E2	ㅇ 11F2
3	ㄷ 1103	ㅋ 1113	ㆁ 1123	ㄴ 1133	ㄷ 1143	ㅌ 1153	ㅍ 1163	ㅊ 1173	ㅌ 1183	ㅍ 1193	ㅊ 11A3	ㅋ 11B3	ㆁ 11C3	ㄴ 11D3	ㄷ 11E3	ㅇ 11F3
4	ㄷ 1104	ㄴ 1114	ㆁ 1124	ㄴ 1134	ㄷ 1144	ㅌ 1154	ㅍ 1164	ㅊ 1174	ㅌ 1184	ㅍ 1194	ㅊ 11A4	ㅋ 11B4	ㆁ 11C4	ㄴ 11D4	ㄷ 11E4	ㅇ 11F4
5	ㄴ 1105	ㄴ 1115	ㆁ 1125	ㄴ 1135	ㄷ 1145	ㅌ 1155	ㅍ 1165	ㅊ 1175	ㅌ 1185	ㅍ 1195	ㅊ 11A5	ㅋ 11B5	ㆁ 11C5	ㄴ 11D5	ㄷ 11E5	ㅇ 11F5
6	ㅍ 1106	ㅋ 1116	ㆁ 1126	ㄴ 1136	ㄷ 1146	ㅌ 1156	ㅍ 1166	ㅊ 1176	ㅌ 1186	ㅍ 1196	ㅊ 11A6	ㅋ 11B6	ㆁ 11C6	ㄴ 11D6	ㄷ 11E6	ㅇ 11F6
7	ㅍ 1107	ㅋ 1117	ㆁ 1127	ㄴ 1137	ㄷ 1147	ㅌ 1157	ㅍ 1167	ㅊ 1177	ㅌ 1187	ㅍ 1197	ㅊ 11A7	ㅋ 11B7	ㆁ 11C7	ㄴ 11D7	ㄷ 11E7	ㅇ 11F7
8	ㆁ 1108	ㄴ 1118	ㆁ 1128	ㄴ 1138	ㄷ 1148	ㅌ 1158	ㅍ 1168	ㅊ 1178	ㅌ 1188	ㅍ 1198	ㅊ 11A8	ㅋ 11B8	ㆁ 11C8	ㄴ 11D8	ㄷ 11E8	ㅇ 11F8
9	ㄴ 1109	ㅋ 1119	ㆁ 1129	ㄴ 1139	ㄷ 1149	ㅌ 1159	ㅍ 1169	ㅊ 1179	ㅌ 1189	ㅍ 1199	ㅊ 11A9	ㅋ 11B9	ㆁ 11C9	ㄴ 11D9	ㄷ 11E9	ㅇ 11F9
A	ㄴ 110A	ㅋ 111A	ㆁ 112A	ㄴ 113A	ㄷ 114A	ㅌ 115A	ㅍ 116A	ㅊ 117A	ㅌ 118A	ㅍ 119A	ㅊ 11AA	ㅋ 11BA	ㆁ 11CA	ㄴ 11DA	ㄷ 11EA	ㅇ 11FA
B	ㅇ 110B	ㅋ 111B	ㆁ 112B	ㄴ 113B	ㄷ 114B	ㅌ 115B	ㅍ 116B	ㅊ 117B	ㅌ 118B	ㅍ 119B	ㅊ 11AB	ㅋ 11BB	ㆁ 11CB	ㄴ 11DB	ㄷ 11EB	ㅇ 11FB
C	ㅌ 110C	ㆁ 111C	ㆁ 112C	ㄴ 113C	ㄷ 114C	ㅌ 115C	ㅍ 116C	ㅊ 117C	ㅌ 118C	ㅍ 119C	ㅊ 11AC	ㅋ 11BC	ㆁ 11CC	ㄴ 11DC	ㄷ 11EC	ㅇ 11FC
D	ㅌ 110D	ㆁ 111D	ㆁ 112D	ㄴ 113D	ㄷ 114D	ㅌ 115D	ㅍ 116D	ㅊ 117D	ㅌ 118D	ㅍ 119D	ㅊ 11AD	ㅋ 11BD	ㆁ 11CD	ㄴ 11DD	ㄷ 11ED	ㅇ 11FD
E	ㅌ 110E	ㆁ 111E	ㆁ 112E	ㄴ 113E	ㄷ 114E	ㅌ 115E	ㅍ 116E	ㅊ 117E	ㅌ 118E	ㅍ 119E	ㅊ 11AE	ㅋ 11BE	ㆁ 11CE	ㄴ 11DE	ㄷ 11EE	ㅇ 11FE
F	ㅋ 110F	ㆁ 111F	ㆁ 112F	ㄴ 113F	ㄷ 114F	ㅌ 115F	ㅍ 116F	ㅊ 117F	ㅌ 118F	ㅍ 119F	ㅊ 11AF	ㅋ 11BF	ㆁ 11CF	ㄴ 11DF	ㄷ 11EF	ㅇ 11FF

Annex 2. 6 annotations for U31xx characters.

3147 ◯ HANGUL LETTER IEUNG

- zero sound as initial or velar nasal consonant as final

314E ≡ HANGUL LETTER HIEUH

- voiceless glottal fricative consonant

317F △ HANGUL LETTER PANSIOS

- voiced alveolar fricative consonant

3181 ◯ HANGUL LETTER YESIEUNG

- velar nasal consonant

3186 ≡ HANGUL 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 ◯ HANGUL LETTER YESIEUNG

- old velar nasal

3186 ≡ HANGUL LETTER YEORINHIEUH

- old glottal stop

Hangul Compatibility Jamo

	313	314	315	316	317	318
0		ㄹㅇ 3140	ㅍ 3150	ㅍ 3160	ㅍ 3170	ㅇㅇ 3180
1	ㄱ 3131	ㅍ 3141	ㅍ 3151	ㅡ 3161	ㅍ 3171	ㅇ 3181
2	ㅍ 3132	ㅍ 3142	ㅍ 3152	ㅍ 3162	ㅍ 3172	ㅇㅅ 3182
3	ㅍ 3133	ㅍ 3143	ㅍ 3153	ㅍ 3163	ㅍ 3173	ㅇㅅ 3183
4	ㄴ 3134	ㅍㅅ 3144	ㅍ 3154	HF 3164	ㅍㅅ 3174	ㅍ 3184
5	ㅍ 3135	ㅍㅅ 3145	ㅍ 3155	ㄴ 3165	ㅍㅅ 3175	ㅇㅇ 3185
6	ㅇ 3136	ㅍㅅ 3146	ㅍ 3156	ㅍ 3166	ㅍㅅ 3176	ㅇ 3186
7	ㅍ 3137	ㅇ 3147	ㄴ 3157	ㅍㅅ 3167	ㅍㅅ 3177	ㅍㅅ 3187
8	ㅍㅅ 3138	ㅍㅅ 3148	ㅍㅅ 3158	ㅍㅅ 3168	ㅍㅅ 3178	ㅍㅅ 3188
9	ㄴ 3139	ㅍㅅ 3149	ㅍㅅ 3159	ㅍㅅ 3169	ㅍㅅ 3179	ㅍㅅ 3189
A	ㄴ 313A	ㅍㅅ 314A	ㅍㅅ 315A	ㅍㅅ 316A	ㅍㅅ 317A	ㅍㅅ 318A
B	ㅍㅅ 313B	ㅍㅅ 314B	ㅍㅅ 315B	ㅍㅅ 316B	ㅍㅅ 317B	ㅍㅅ 318B
C	ㅍㅅ 313C	ㅍㅅ 314C	ㅍㅅ 315C	ㅍㅅ 316C	ㅍㅅ 317C	ㅍㅅ 318C
D	ㅍㅅ 313D	ㅍㅅ 314D	ㅍㅅ 315D	ㅍㅅ 316D	ㅍㅅ 317D	ㅍ 318D
E	ㅍㅅ 313E	ㅇ 314E	ㅍㅅ 315E	ㅍㅅ 316E	ㅍㅅ 317E	ㅍㅅ 318E
F	ㅍㅅ 313F	ㅍㅅ 314F	ㅍㅅ 315F	ㅍㅅ 316F	ㅍㅅ 317F	

* * *



Irish comments on ISO/IEC FCD 10646:2011

Reference: SC2 N4168

Closes: 2011-03-27

Date: 2011-03-25

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

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  to . The size is merely glyph variation. The characters' semantic is to indicate the beginning of documents, just as similar characters in Tibetan and Sundanese and Javanese do.

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.

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.

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.

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.

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.

E4. Page 1223, Row 1110: Chakma. Ireland suggests that the chart glyph for 11133 should be harmonized with that for 1039, 1A60, and 10A3F.

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.

	098	099	09A	09B	09C	09D	09E	09F
0		৐ 0990	ঠ 09A0	৐ 09B0	ী 09C0		ঐ 09E0	ঐ 09F0
1	ে 0981		ড 09A1		ু 09C1		ঐ 09E1	ঐ 09F1
2	ে 0982		ঢ 09A2	ল 09B2	ু 09C2		ু 09E2	় 09F2
3	ে 0983	ে 0993	ণ 09A3		ু 09C3		ু 09E3	ট 09F3
4		ে 0994	ত 09A4		ু 09C4			় 09F4
5	ত্র 0985	ক 0995	থ 09A5					় 09F5
6	ত্রা 0986	খ 0996	দ 09A6	শ 09B6			০ 09E6	় 09F6
7	ত্রা 0987	গ 0997	ধ 09A7	ষ 09B7	ে 09C7	ী 09D7	় 09E7	় 09F7
8	ত্রা 0988	ঘ 0998	ন 09A8	স 09B8	ে 09C8		় 09E8	় 09F8
9	ত্রা 0989	ঙ 0999		হ 09B9			৩ 09E9	০ 09F9
A	ত্রা 098A	চ 099A	প 09AA				৪ 09EA	৩ 09FA
B	ত্রা 098B	ছ 099B	ফ 09AB		ে 09CB		৫ 09EB	৩ 09FB
C	ত্রা 098C	জ 099C	ব 09AC	় 09BC	ে 09CC	ড় 09DC	৬ 09EC	
D		ঝ 099D	ভ 09AD	় 09BD	় 09CD	ঢ 09DD	৭ 09ED	
E		ঞ 099E	ম 09AE	া 09BE	ে 09CE		৮ 09EE	
F	ত্রা 098F	ঢা 099F	য 09AF	ি 09BF		য় 09DF	৯ 09EF	

Various signs

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

Independent vowels

0985	অ	BENGALI LETTER A
0986	আ	BENGALI LETTER AA
0987	ই	BENGALI LETTER I
0988	ঈ	BENGALI LETTER II
0989	উ	BENGALI LETTER U
098A	ঊ	BENGALI LETTER UU
098B	ৗ	BENGALI LETTER VOCALIC R
098C	৘	BENGALI LETTER VOCALIC L
098D	◌̣	<reserved>
098E	◌̤	<reserved>
098F	এ	BENGALI LETTER E
0990	ঐ	BENGALI LETTER AI
0991	◌̣	<reserved>
0992	◌̤	<reserved>
0993	ও	BENGALI LETTER O
0994	ঔ	BENGALI LETTER AU

Consonants

0995	ক	BENGALI LETTER KA
0996	খ	BENGALI LETTER KHA
0997	গ	BENGALI LETTER GA
0998	ঘ	BENGALI LETTER GHA
0999	ঙ	BENGALI LETTER NGA
099A	চ	BENGALI LETTER CA
099B	ছ	BENGALI LETTER CHA
099C	জ	BENGALI LETTER JA
099D	ঝ	BENGALI LETTER JHA
099E	ঞ	BENGALI LETTER NYA
099F	ট	BENGALI LETTER TTA
09A0	ঠ	BENGALI LETTER TTHA
09A1	ড	BENGALI LETTER DDA
09A2	ঢ	BENGALI LETTER DDHA
09A3	ণ	BENGALI LETTER NNA
09A4	ত	BENGALI LETTER TA
09A5	থ	BENGALI LETTER THA
09A6	দ	BENGALI LETTER DA
09A7	ধ	BENGALI LETTER DHA
09A8	ন	BENGALI LETTER NA
09A9	◌̣	<reserved>
09AA	প	BENGALI LETTER PA
09AB	ফ	BENGALI LETTER PHA
09AC	ব	BENGALI LETTER BA = Bengali va, wa
09AD	ভ	BENGALI LETTER BHA
09AE	ম	BENGALI LETTER MA
09AF	য	BENGALI LETTER YA
09B0	র	BENGALI LETTER RA
09B1	◌̣	<reserved>
09B2	ল	BENGALI LETTER LA
09B3	◌̣	<reserved>
09B4	◌̤	<reserved>
09B5	◌̥	<reserved>
09B6	শ	BENGALI LETTER SHA
09B7	ষ	BENGALI LETTER SSA
09B8	স	BENGALI LETTER SA
09B9	হ	BENGALI LETTER HA

Various signs

09BC	◌̣	BENGALI SIGN NUKTA • for extending the alphabet to new letters
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09BD	ূ	BENGALI SIGN AVAGRAHA
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Dependent vowel signs

09BE	◌̣̣	BENGALI VOWEL SIGN AA
09BF	◌̣̤	BENGALI VOWEL SIGN I • stands to the left of the consonant
09C0	◌̣̥	BENGALI VOWEL SIGN II
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 ◌̣̮ 09BE ◌̣̮
09CC	◌̣̯	BENGALI VOWEL SIGN AU ≡ 09C7 ◌̣̯ 09D7 ◌̣̯

Virama

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

Additional consonant

09CE	ৎ	BENGALI LETTER KHANDA TA • a dead consonant form of ta, without implicit vowel, used in some sequences
------	---	---

Sign

09D7	◌̣̱	BENGALI AU LENGTH MARK
------	-----	------------------------

Additional consonants

09DC	ড়	BENGALI LETTER RRA ≡ 09A1 ড 09BC ্
09DD	ঢ়	BENGALI LETTER RHA ≡ 09A2 ঢ 09BC ্
09DE	◌̣̲	<reserved>
09DF	য়	BENGALI LETTER YYA ≡ 09AF য 09BC ্

Additional vowels for Sanskrit

09E0	◌̣̳	BENGALI LETTER VOCALIC RR
09E1	◌̴̣	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 devanagari danda
09E5	◌̸̣	<reserved> → 0965 devanagari double danda


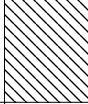


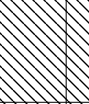





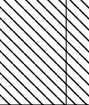





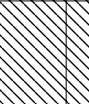





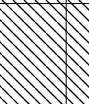





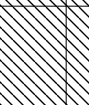



































































Digits

09E6	◌̣̹	BENGALI DIGIT ZERO
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09E7	১	BENGALI DIGIT ONE
09E8	২	BENGALI DIGIT TWO
09E9	৩	BENGALI DIGIT THREE
09EA	৪	BENGALI DIGIT FOUR
09EB	৫	BENGALI DIGIT FIVE
09EC	৬	BENGALI DIGIT SIX
09ED	৭	BENGALI DIGIT SEVEN
09EE	৮	BENGALI DIGIT EIGHT
09EF	৯	BENGALI DIGIT NINE

Bengali-specific additions

09F0	ঋ	BENGALI LETTER RA WITH MIDDLE DIAGONAL • Assamese
09F1	ৠ	BENGALI LETTER RA WITH LOWER DIAGONAL = bengali letter va with lower diagonal (1.0) • Assamese
09F2	৳	BENGALI RUPEE MARK
09F3	৲	BENGALI RUPEE SIGN
09F4	৳	BENGALI CURRENCY NUMERATOR ONE • not in current usage
09F5	৳	BENGALI CURRENCY NUMERATOR TWO • not in current usage
09F6	৳	BENGALI CURRENCY NUMERATOR THREE • not in current usage
09F7	৳	BENGALI CURRENCY NUMERATOR FOUR
09F8	৳	BENGALI CURRENCY NUMERATOR ONE LESS THAN THE DENOMINATOR
09F9	৳	BENGALI CURRENCY DENOMINATOR SIXTEEN
09FA	৳	BENGALI ISSHAR
09FB	৳	BENGALI GANDA MARK















	1F0A	1F0B	1F0C	1F0D	1F0E	1F0F
0	 1F0A0					
1	 1F0A1	 1F0B1	 1F0C1	 1F0D1		
2	 1F0A2	 1F0B2	 1F0C2	 1F0D2		
3	 1F0A3	 1F0B3	 1F0C3	 1F0D3		
4	 1F0A4	 1F0B4	 1F0C4	 1F0D4		
5	 1F0A5	 1F0B5	 1F0C5	 1F0D5		
6	 1F0A6	 1F0B6	 1F0C6	 1F0D6		
7	 1F0A7	 1F0B7	 1F0C7	 1F0D7		
8	 1F0A8	 1F0B8	 1F0C8	 1F0D8		
9	 1F0A9	 1F0B9	 1F0C9	 1F0D9		
A	 1F0AA	 1F0BA	 1F0CA	 1F0DA		
B	 1F0AB	 1F0BB	 1F0CB	 1F0DB		
C	 1F0AC	 1F0BC	 1F0CC	 1F0DC		
D	 1F0AD	 1F0BD	 1F0CD	 1F0DD		
E	 1F0AE	 1F0BE	 1F0CE	 1F0DE		
F			 1F0CF	 1F0DF		

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
















1F0B1  PLAYING CARD ACE OF HEARTS
 1F0B2  PLAYING CARD TWO OF HEARTS
 1F0B3  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  PLAYING CARD EIGHT OF HEARTS
 1F0B9  PLAYING CARD NINE OF HEARTS
 1F0BA  PLAYING CARD TEN OF HEARTS
 1F0BB  PLAYING CARD JACK OF HEARTS
 = valet, Bube, Unter, Page, fante
 = page of cups
 1F0BC  PLAYING CARD KNIGHT OF HEARTS
 = chevalier, Ober, Ritter, cavall, cavaliere
 = knight of cups
 1F0BD  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  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

1F0CB  PLAYING CARD JACK OF DIAMONDS
 = valet, Bube, Unter, Page, fante
 = page of pentacles
 1F0CC  PLAYING CARD KNIGHT OF DIAMONDS
 = chevalier, Ober, Ritter, cavall, cavaliere
 = knight of pentacles
 1F0CD  PLAYING CARD QUEEN OF DIAMONDS
 = dame, Dame, Königin, regina
 = queen of pentacles
 1F0CE  PLAYING CARD KING OF DIAMONDS
 = roi, König, re
 = king of pentacles
 1F0CF  PLAYING CARD BLACK JOKER

Clubs or wands

1F0D1  PLAYING CARD ACE OF CLUBS
 1F0D2  PLAYING CARD TWO OF CLUBS
 1F0D3  PLAYING CARD THREE OF CLUBS
 1F0D4  PLAYING CARD FOUR OF CLUBS
 1F0D5  PLAYING CARD FIVE OF CLUBS
 1F0D6  PLAYING CARD SIX OF CLUBS
 1F0D7  PLAYING CARD SEVEN OF CLUBS
 1F0D8  PLAYING CARD EIGHT OF CLUBS
 1F0D9  PLAYING CARD NINE OF CLUBS
 1F0DA  PLAYING CARD TEN OF CLUBS
 1F0DB  PLAYING CARD JACK OF CLUBS
 = valet, Bube, Unter, Page, fante
 = page of wands
 1F0DC  PLAYING CARD KNIGHT OF CLUBS
 = chevalier, Ober, Ritter, cavall, cavaliere
 = knight of wands
 1F0DD  PLAYING CARD QUEEN OF CLUBS
 = dame, Dame, Königin, regina
 = queen of wands
 1F0DE  PLAYING CARD KING OF CLUBS
 = roi, König, re
 = king of wands
 1F0DF  PLAYING CARD WHITE JOKER
 • may also be red