



ISO/IEC JTC 1/SC 2/WG 2
Universal Multiple-Octet Coded Character Set (UCS) - ISO/IEC 10646
Secretariat: ANSI

DOC TYPE: Meeting Minutes

TITLE: Unconfirmed minutes of WG 2 meeting no. 56
Albertus Conference Room, West Tower, Adobe Systems Inc., San Jose, CA, USA
2010-04-19/23

SOURCE: V.S. Umamaheswaran, Recording Secretary, and Mike Ksar, Convener

PROJECT: JTC 1.02.18 – ISO/IEC 10646

STATUS: SC 2/WG 2 participants are requested to review the attached unconfirmed minutes, act on appropriate noted action items, and to send any comments or corrections to the convener as soon as possible but no later than the Due Date below.

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DUE DATE: 2010-10-xx

DISTRIBUTION: SC 2/WG 2 members and Liaison organizations

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ISO/IEC JTC 1/SC 2/WG 2
Universal Multiple-Octet Coded Character Set (UCS)

ISO/IEC JTC 1/SC 2 N _____
ISO/IEC JTC 1/SC 2/WG 2 N3803
2010-09-24

Title:	Unconfirmed minutes of WG2 meeting 56 Albertus Meeting Room, West Tower, Adobe Systems Inc., San Jose, CA, USA; 2010-04-19/23
Source:	V.S. Umamaheswaran (umavs@ca.ibm.com), Recording Secretary Mike Ksar (mikeksar@10646.com), Convener
Action:	WG 2 members and Liaison organizations
Distribution:	ISO/IEC JTC 1/SC 2/WG 2 members and liaison organizations

1 Opening

Input document:

[3805](#) 2nd call and tentative Draft Agenda; Convener – Mike Ksar; 2010-04-10

Mr. Mike Ksar opened the meeting started at 10:15h. Good to see you all again. I am glad at least Ireland was able to attend from Europe in spite of the volcanic eruption in Iceland. The documents received till last night have been posted. The major reason for this meeting is to deal with disposition of comments on Amendment 8 and the FCD of the second edition. The ballot on FCD closed on last Friday. The disposition of comments is not yet ready. If you need hardcopies of any documents please contact Mr. Eric Muller. The Tangut document is 24MB. All the documents have been linked from the document register. I do have a copy of all the documents from meetings 53 to 56 if you cannot access the website from here. The US national body is our host.

Mr. Eric Muller: Welcome. I am Eric. My local phone contact is 650 284 6917. A wireless network is provided. Cafeteria opens at 7:30am. Lunch starts at 11:30 till 2:30pm. The Unicode Consortium has invited the delegates for Wednesday evening to a restaurant about a block from here. Please indicate to me if you will be attending. I will make copies of documents [N3824](#) and [N3792](#) draft disposition of comments for Amendment 8.

Mr. Michel Suignard: I do have all the documents from WG2 site; it is about 1.5GB.

Mr. Michael Everson: I would like to have a copy of the ballot comments.

Mr. Mike Ksar: Thank you Mr. Eric Muller. Thanks also to the US national body and Adobe for hosting and providing the facilities. Again the main purpose of the meeting is progression of Amendment 8, and the 2nd edition.

1.1 Roll Call

Input document:

[3701](#) *WG2 experts list post meeting 55; Ksar/Uma; 2009-11-13*

Mr. Mike Ksar: Delegates are requested to identify themselves, the national body they represent and their affiliation. Invited experts should identify themselves as invited experts. Dr. Umamaheswaran has prepared the list of experts, which will be circulated. Please mark your attendance, make any corrections, and attach your business card so that we can get the spellings correct.

The attendees introduced themselves.

The following 34 attendees representing **6** national bodies, **3** liaison organizations, including **3** invited experts were present at different times during the meeting. There were **6** additional experts who participated remotely.

Name	Representing	Affiliation
Mike KSAR	.Convener, USA	Independent
Erich FICKLE	.Invited Expert, China	Independent
Tom BISHOP	.Invited Expert, liaison SEI	Wenlin Institute, Inc.
Van ANDERSON	.Invited Expert, liaison SEI	Independent
LU Qin	.IRG Rapporteur	Hong Kong Polytechnic University
Bear S. TSENG	.TCA – Liaison	Academia Sinica
Hsin-Kuang CHEN	.TCA – Liaison	Bureau of Standards, Metrology and Inspection,
Lin-Mei WEI	.TCA – Liaison	Chinese Foundation for Digitization Technology
Suh-Chyin CHUANG	.TCA – Liaison	Bureau of Standards, Metrology and Inspection,
Alain LABONTÉ	Canada; Editor 14651	Independent
V. S. (Uma) UMAMAHESWARAN	Canada; Recording Secretary	IBM Canada Limited
CHEN Zhuang	China	Chinese Electronics Standardization Institute
JING Yongshi	China	North University of Ethnicity, Ning Xia
LI Guoying	China	Beijing Normal University
SUN Bojun	China	Institute of Ethnology and Anthropology, Chinese Academy of Sciences
Michael EVERSON	Ireland; Contributing Editor	Evertime
Masahiro SEKIGUCHI	Japan	Fujitsu Limited
Yoshiki MIKAMI	Japan	Nagaoka University of Technology
KIM Kyongsok	Korea (Republic of)	Busan National University
Craig CUMMINGS	USA	Yahoo! Inc.
Eric MULLER	USA	Adobe Systems Inc.
Katsuhiko MOMOI	USA	Google
Lisa MOORE	USA	IBM Corp.
Mark DAVIS	USA	Google
Markus SCHERER	USA	Google
Peter EDBERG	USA	Apple Computer Inc.
Richard COOK	USA	Univ. of California, Berkeley
Rick McGOWAN	USA	Unicode Consortium
Roozbeh POURNADER	USA	High Tech Passport Ltd.
Yasuo KIDA	USA	Apple Inc.
Ken WHISTLER	USA; Contributing Editor	Sybase Inc.
Michel SUIGNARD	USA; Project Editor	Independent
Deborah ANDERSON	USA; SEI, UC Berkeley – Liaison	Dept. of Linguistics, Univ., of California, Berkeley
Peter CONSTABLE	USA; Unicode Consortium – Liaison	Microsoft Corporation

Many experts from Europe could not attend due to the volcanic eruption in Iceland.

Mr. Eric Muller: We could setup teleconferencing phone connection.

Drafting committee: Messrs. Mike Ksar, Michel Suignard, Michael Everson, Masahiro Sekiguchi, Ken Whistler and Ms. Deborah Anderson, assisted in checking the draft resolutions prepared by the recording secretary Dr. Umamaheswaran.

2 Approval of the agenda

Input document:

[3805](#) 2nd call and tentative Draft Agenda; Convener – Mike Ksar; 2010-04-10

Mr. Mike Ksar: Reviewed the agenda

Discussion:

- a. Mr. Masahiro Sekiguchi: What time would Emoji ad hoc would be? I have to inform contacts in Japan.
- b. Mr. Mike Ksar: Tomorrow afternoon.

- c. Mr. Michel Suignard: The draft disposition document contains a number of proposed dispositions related to Emoji. The ad hoc should discuss only those comments that were not accepted.
- d. Mr. Masahiro Sekiguchi: Starting today is also fine.
- e. Mr. Mike Ksar: We can deal with IRG matters on Wednesday. As to Hungarian, the expert from Hungary has indicated that he will not be able to attend.
- f. Mr. Michael Everson: I would like to have two punctuations to be added; we have done what WG2 requested.
- g. Dr. Deborah Anderson: I have received an email, requesting not to deal with it at this meeting.
- h. Dr. Umamaheswaran: Please delete agenda item 12.10 on Meetei Mayek; it has been dealt with at the last meeting.
- i. Mr. Mike Ksar: Regarding future meetings, I would like to know more logistic details about the Korean meeting. The agenda is approved as amended. We normally do not go through the agenda serially; we take them by items as they come along.

The agenda document [N3805](#) was updated reflecting the above discussion. It was also updated and posted to the WG2 website as new items were identified as the meeting progressed.

All the changes made during the progress of the meeting are included in the appropriate sections in this document. Some of the agenda items have been reorganized or renumbered in these minutes. Some agenda items that were not discussed have been deleted. The following table of contents reflects where the items are discussed and recorded.

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3 Approval of minutes of meeting 55

Input document:

[3703](#); *Minutes meeting 55; Uma; 2010-04-13*

Dr. Umamaheswaran: I could make the minutes available only last week. I have inserted some notes in the minutes pointing out some items we missed in the resolution.

There was no discussion. The minutes of meeting 55 were approved as written.

4 Review action items from previous meeting

Input document:

[3703](#); Minutes meeting 55; Uma; 2010-04-13

Dr. Umamaheswaran reviewed and updated the action items from the previous meetings. The resulting updated status for each item is shown below.

4.1 Outstanding action items from meeting 48, 2006-04-24/27, Mountain View, CA, USA

Item	Assigned to / action (Reference resolutions in document N3104 , and unconfirmed minutes in document N3103 for meeting 48 - with any corrections noted in section 3 of in the minutes of meeting 49 in document N3153).	Status
AI-48-7	US national body (Ms. Deborah Anderson)	
b.	To prepare updated Arabic Math proposal(s) based on documents N3085 to N3089 . M48, M49, M50, M51, M52, M53, M54 and M55 - in progress.	Completed; see document N3799 .

4.2 Outstanding action items from meeting 51, 2007-09-17/21, Hangzhou, China

Item	Assigned to / action (Reference resolutions in document N3354 , and unconfirmed minutes in document N3353 for meeting 51 – with any corrections noted in section 3 in the minutes of meeting 52 in document N3454).	Status
AI-51-4	IRG Convenor and IRG Editor (Dr. Lu Qin)	
	To act on the resolution below.	
c.	<i>M51.38 (IRG ideographs for Names)</i> : With reference to item 8 in document N3283 , WG2 endorses the IRG activity to investigate and report back to WG2 on the issues and recommendations on ideographs for names of persons, places and the like. M52, M53, M54 and M55 - in progress.	In progress.

4.3 Outstanding action items from meeting 52, 2008-04-21/25, Redmond, WA, USA

Item	Assigned to / action (Reference resolutions in document N3454 , and unconfirmed minutes in document N3453 for meeting 52 - with any corrections noted in section 3 in the minutes of meeting 53 in document N3553)	Status
AI-52-7	Ireland (Mr. Michael Everson)	
	To take note of and act upon the following items.	
a.	M52.5 (Principles for Dandas) : WG2 adopts the principles guiding the encoding of Dandas in Brahmic scripts from document N3457 , and instructs its ad hoc group on P&P to incorporate these into its document on Principles and Procedures (along with the additions from resolution M52.4 above). WG2 further invites the Irish national body to investigate and report on the current practice on use of currently encoded Dandas in relevant scripts towards finalizing the list of scripts and their corresponding Dandas. M53, M54 and M55 – in progress.	In progress.

4.4 Outstanding action items from meeting 54, 2009-04-20/24, Dublin, Ireland

Item	Assigned to / action (Reference resolutions in document N3604 , and unconfirmed minutes in document N3603 for meeting 54, – with any corrections noted in section 3 in the minutes of meeting 55 in document N3703)	Status
AI-54-4	IRG Convenor and IRG Editor (Dr. Lu Qin)	
	To take note of and act upon the following items:	
a.	M54.20 (IRG Principles and Procedures) : WG2 takes note of the IRG Principles and Procedures in document N3562 , and invites all national bodies and liaison organizations to review and provide feedback to the IRG rapporteur by 2009-05-15 in time for the next IRG meeting. M55 - in progress.	Completed; see document N3744 .
AI-54-7	China (Mr. Chen Zhuang)	
	To take note of and act upon the following items:	
a.	M54.18 (Nüshu script) : WG2 accepts the ad hoc report in document N3635 on Nüshu script and invites the Chinese national body to provide a revised contribution by 2009-07-31, including considerations for items in the ad hoc report. M55 - in progress.	In progress.

b.	M54.19 (Jurchen script): WG2 accepts the ad hoc report in document N3639 on Jurchen script and invites the Chinese national body to provide a revised contribution, including considerations for items in the ad hoc report. M55 - in progress.	Completed; see document N3788 .
AI-54-8	Germany (Mr. Karl Pentzlin)	
	<i>To take note of and act upon the following items:</i>	
a.	Invited to submit a revised proposal on Florin currency symbol (see document N3588) taking into consideration discussion at meeting M54. M55 - in progress.	In progress.
c.	Invited to revised proposal for Yeru characters (see document N3581) taking into consideration discussion at meeting M54.	In progress.
AI-54-9	All national bodies and liaison organizations	
	<i>To take note of and provide feedback on the following items.</i>	
g.	To review and feedback the following proposals for consideration at the next meeting M54: - Naxi Dongba pictographs in documents N3425 , N3442 and N3543 - Old Yi script in document N3288 - Germanicist, Nordicist, and other phonetic characters in document N3555 - Khojki script in document N3596 - Mro script in document N3589 . M55 - in progress.	Noted.

4.5 New action items from meeting 55, 2009-10-26/30, Tokyo, Japan

Item	Assigned to / action (Reference resolutions in document N3704 , and unconfirmed minutes in document N3703 for meeting 55, this document you are reading).	Status
AI-55-1	Recording Secretary - Dr. V.S. UMaaheswaran	
a.	To finalize the document N3704 containing the adopted meeting resolutions and send it to the convener as soon as possible.	Completed; see document N3704 .
b.	To finalize the document N3703 containing the unconfirmed meeting minutes and send it to the convener as soon as possible.	Completed; see document N3703 .
AI-55-2	Convener - Mr. Mike Ksar	
	<i>To take note of and act upon the following items:</i>	
a.	<i>M55.18 (Missing documents for Korean source references K2 to K5):</i> WG2 requests the convener and the Korean national body to search the WG2 document archives for the missing source reference documents PKS C5700-1 1994, PKS C5700-2 1994, PKS 5700-3 1998 and Korean IRG Hanja Character Set 5th edition 2001 and make it available for IRG archives and reference.	In progress.
b.	<i>M55.30 (IRG rapporteur):</i> WG2 re-nominates Dr. Lu Qin as the rapporteur of IRG and instructs its convener to request SC2 to confirm the appointment.	Completed at SC2 plenary on 2009-10-30.
c.	<i>M55.32 (Letter to SC6):</i> WG2 endorses document N3732 addressed to JTC 1/SC 6, and instructs its convener to send it to the SC2 secretariat for forwarding to SC6.	Completed at SC2 plenary on 2009-10-30.
d.	<i>M55.33 (Letter to ISO DEVCO members):</i> WG2 endorses the letter addressed to ISO DEVCO in document N3724 , nominates Dr. Deborah Anderson as the SC2 representative, and instructs its convener to send it to the SC2 secretariat for endorsing and forwarding to ISO DEVCO.	Completed at SC2 plenary on 2009-10-30.
e.	<i>M55.36 (Roadmap snapshot):</i> WG2 instructs its convener to post the updated snapshot of the roadmaps (in document N3652) to the WG2 web site and communicate the same to SC2 secretariat.	Completed.
f.	To carry forward the following documents to next meeting agenda: <ul style="list-style-type: none"> • Manichaeian script (N3644) • Rañjana script (N3649) • Pahawh Hmong script (N3667) • Warang Citi script (N3668) • Jurchen script (N3688, N3696 and N3720) • Obsolete Simplified Chinese characters (N3695, N3721) • Hentaigana characters (N3698) • Nushu script (N3705, N3719) • Hungarian related (N3664, N3670 and N3697) 	Completed. See document N3805-A .

AI-55-3	Editor of ISO/IEC 10646: (Mr. Michel Suignard with assistance from contributing editors)	
	<i>To prepare the appropriate amendment texts, sub-division proposals, collection of editorial text for the next edition, corrigendum text, or entries in collections of characters for future coding, with assistance from other identified parties, in accordance with the following:</i>	
a.	<i>M55.1 (Progression of Amendment 7):</i> WG2 instructs its project editor to forward the final text of Amendment 7 along with the disposition of comments document N3717 to the SC2 secretariat for an FDAM ballot. The final set of charts and names lists are in document N3718 . The unchanged target starting date for FDAM is 2009-11.	Completed. See documents N3717 , N3718 , and N3737 (FDAM).
b.	<i>M55.2 (Named sequence for Khinya):</i> WG2 accepts the named UCS sequence identifier for inclusion in Amendment 8 BENGALI LETTER KHINYA <0995, 09CD, 09B7> based on the request in document N3729 .	Completed; included in document N3723 .
c.	<i>M55.3 (Regional indicator symbols):</i> With reference to documents N3726 and N3727 , WG2 accepts 26 symbols for inclusion in Amendment 8 at code positions 1F1E6 to 1F1FF, in the Enclosed Alphanumeric Supplement block in the SMP, with their names and glyphs as shown in document N3727 .	Completed; included in document N3723 .
d.	<i>M55.4 (Latin letters for pre-1921 Latvian):</i> With reference to document N3587 , WG2 accepts 10 additional Latin characters for inclusion in Amendment 8 at code positions A7A0 to A7A9 in the Latin Extended-D block in the BMP, for pre-1921 Latvian orthography with their code positions, names and glyphs from document N3587 .	Completed; included in document N3723 .
e.	<i>M55.5 (Clock-face and other symbols):</i> Based on Irish comment T11 on PDAM8 and the Emoji ad hoc report in document N3726 , WG2 accepts the following 13 additional Miscellaneous Pictographic Symbols for inclusion in Amendment 8: 1F504 ANTICLOCKWISE DOWNWARDS AND UPWARDS OPEN CIRCLE ARROWS 1F55C CLOCK FACE ONE-THIRTY 1F55D CLOCK FACE TWO-THIRTY 1F55E CLOCK FACE THREE-THIRTY 1F55F CLOCK FACE FOUR-THIRTY 1F560 CLOCK FACE FIVE-THIRTY 1F561 CLOCK FACE SIX-THIRTY 1F562 CLOCK FACE SEVEN-THIRTY 1F563 CLOCK FACE EIGHT-THIRTY 1F564 CLOCK FACE NINE-THIRTY 1F565 CLOCK FACE TEN-THIRTY 1F566 CLOCK FACE ELEVEN-THIRTY 1F567 CLOCK FACE TWELVE-THIRTY with their glyphs as shown in document N3723 .	Completed; included in document N3723 .
f.	<i>M55.6 (Enclosed Alphanumeric Supplement):</i> With reference to document N3671 , WG2 accepts 66 additional enclosed Latin alphabetic characters for inclusion in Amendment 8, at code positions 1F130, 1F132 to 1F13C, 1F13E, 1F140, 1F141, 1F143 to 1F145, 1F147 to 1F149, 1F14F to 1F156, 1F158 to 1F15E, 1F160 to 1F169, 1F172 to 1F178, 1F17A, 1F17D, 1F180 to 1F189 and 1F18F, in the Enclosed Alphanumeric Supplement block in the SMP, with their names and glyphs as shown in document N3723 .	Completed; included in document N3723 .
g.	<i>M55.7 (Devanagari additions for Kashmiri):</i> With reference to document N3731 (result of ad hoc deliberations on Devanagari character additions for Kashmiri), WG2 accepts for inclusion in Amendment 8, 10 additional characters at code positions 093A, 093B, 094F, 0956, 0957, and 0973 to 0977 in the Devanagari block in the BMP, with their code positions, names and glyphs as shown on pages 3 and 4 in document N3731 .	Completed; included in document N3723 .
h.	<i>M55.8 (Arabic additions for Kashmiri):</i> With reference to document N3673 , WG2 accepts the following 2 additional Arabic characters for inclusion in Amendment 8: - 0620 ARABIC LETTER KASHMIRI YE (with its glyph as shown for entry 187 for PASCII) - 065F ARABIC WAVY HAMZA BELOW (with its glyph as shown at the end of page 2 in the document)	Completed; included in document N3723 .

i.	<p><i>M55.9 (Miscellaneous character additions for Amd. 8):</i> WG2 accepts the following additions and deletions of characters for inclusion in Amendment 8:</p> <p>a. 4 Pentagram characters based on Irish comment T.1 on PDAM8 in the Miscellaneous Symbols block: 26E4 PENTAGRAM 26E5 RIGHT-HANDED INTERLACED PENTAGRAM 26E6 LEFT-HANDED INTERLACED PENTAGRAM 26E7 INVERTED PENTAGRAM with their glyphs and code positions as shown in document N3723.</p> <p>b. 2 Mathematical Symbols at code positions 27CE and 27CF as shown on the last page of document N3677. <i>(M55.9 - Continued from previous row)</i></p> <p>c. 1 character - 0D4E MALAYALAM LETTER DOT REPH, with its glyph as shown under item E in document N3676, based on US comment T.1 on PDAM8.</p> <p>d. 2 Batak characters from Irish comment T.2 on PDAM8 at code positions 1BFA and 1BFB with their names and glyphs as shown in document N3723.</p> <p>e. 3 characters, based on German comment T2 and Irish comment T.6 on PDAM8: 1F30D EARTH GLOBE EUROPE-AFRICA 1F30E EARTH GLOBE AMERICAS 1F310 GLOBE WITH MERIDIANS with their glyphs as shown in document N3723. <i>(M55.9 - Continued from previous row)</i></p> <p>f. Based on German comment T.16 on PDAM8 and the Emoji ad hoc report in document N3726, Delete the following 2 symbols: 1F4EB MAILBOX, 1F4EC MAILBOX WITH RAISED FLAG Add the following 4 symbols: 1F4EA CLOSED MAILBOX WITH LOWERED FLAG 1F4EB CLOSED MAILBOX WITH RAISED FLAG 1F4EC OPEN MAILBOX WITH RAISED FLAG, and 1F4ED OPEN MAILBOX WITH LOWERED FLAG with their glyphs as shown on page 47 in document N3723.</p> <p>g. 1 character based on Irish comment T1 and US comment T.2 on PDAM8: 26E2 ASTRONOMICAL SYMBOL FOR URANUS with its glyph as shown in document N3672. <i>(M55.9 - Continued from previous row)</i></p> <p>h. 1 character based on Irish comment T.2 on PDAM8 27BF DOUBLE CURLY LOOP its glyph as shown in document N3723.</p> <p>i. 4 Miscellaneous Pictographic Symbols based on Irish comment T8 and the UK comment T.1 on PDAM8, and the Emoji ad hoc report in document N3726: 1F42A DROMEDARY CAMEL 1F46C TWO MEN HOLDING HANDS 1F46D TWO WOMEN HOLDING HANDS 1F4B7 BANKNOTE WITH POUND SIGN With their glyphs as shown in document N3723. <i>(M55.9 - Continued from previous row)</i></p> <p>j. 1 Emoticon symbol - 1F629 FACE WITHOUT MOUTH - based on Irish comment T14 and the Emoji ad hoc report in document N3726:</p> <p>k. 1 Transport and Map symbol - 1F6C1 BATHTUB - based on Irish comment T16 and the Emoji ad hoc report in document N3726:</p> <p>l. Delete 1 CJK Extension D ideograph at 2B779 and move the following Extension D ideographs up by one position, and correct the J-column glyph for CJK Extension D ideograph 2B7EB, based on Japan comment T2 on PDAM8.</p> <p><i>Note: Some of these additions have caused movement of other characters in the Amendment.</i></p>	Completed; included in document N3723 .
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j.	<p><i>M55.10 (Progression of Amendment 8):</i> WG2 notes and accepts various name changes, glyph changes and changes to code positions of characters resulting from the disposition of PDAM8 ballot comments. The mapping information for Emoji symbols in document N3728 (<i>revised to use the final FPDAM8 code point allocations</i>) is also accepted.</p> <p>WG2 instructs its project editor to forward the final text of Amendment 8, including all the additions and deletions mentioned in resolutions <i>M55.2 to M55.9</i> above, along with the disposition of comments document N3722 to the SC2 secretariat for an FPDAM ballot. The final set of charts and names list are in document N3723. The unchanged target starting dates are FPDAM 2009-12, and FDAM 2010-06.</p>	Completed; see documents N3722 , N3723 , and N3738 (FPDAM8).
k.	<p><i>M55.11 (Multilingual Latin Subset):</i> WG2 accepts the proposed subset of Latin characters in document N3685 as collection number 288 named Multilingual Latin Subset (changed from the name in the proposal) for inclusion in the next edition of the standard.</p>	Completed; included in FCD text.
l.	<p><i>M55.12 (Annex S revision):</i> WG2 accepts the changes to Annex S proposed by the IRG in document N3661 for inclusion in the next edition of the standard.</p>	Completed; included in FCD text.
m.	<p><i>M55.13 (Character stability):</i> WG2 accepts the proposal in document N3715 to make the stability of the names and code points for characters as normative in the second edition of the standard, by replacing the current note under clause 7 with the following paragraph:</p> <p style="padding-left: 40px;">"The names and code point allocation of all characters in this coded character set shall remain unchanged in all future editions and amendments of this standard."</p>	Completed; included in FCD text.
n.	<p><i>M55.14 (Progression of CD of 2nd edition):</i> WG2 instructs its project editor to forward the final text of second edition of the standard, including the changes from resolutions <i>M55.11 to M55.13</i> above, along with the disposition of comments document <i>N</i> to the SC2 secretariat for an FCD ballot. <i>The revised target starting dates are:</i> FCD: 2009-12 and FDIS: 2010-07.</p>	Completed; see documents N3716 and N3739 (link to FCD text).
o.	<p><i>M55.15 (Change in the title of the next edition of the standard):</i> WG2 approves the change in the title of the next edition of the standard to:</p> <p style="padding-left: 40px;">"Information technology – Universal Coded Character Set (UCS)"</p> <p>removing the words multiple-octet from the title of the current edition. WG2 further instructs its convener to inform SC2 to endorse this change and get approvals from JTC1 and ITTF if needed.</p>	Noted; reflected in FCD.
p.	<p><i>M55.22 (Sundanese additions):</i> With reference to document N3666, WG2 accepts to:</p> <ul style="list-style-type: none"> - add 9 characters in code positions 1BAB to 1BAD and 1BBA to 1BBF in the existing Sundanese block, and, - create a new block named Sundanese Supplement in the range 1CC0 to 1CCF in the BMP, and populate it with 8 characters in code positions 1CC0 to 1CC7 <p>with their code positions, names and glyphs from pages 6 to 8 in document N3666.</p>	Completed; see document N3735 .
q.	<p><i>M55.23 (Meetei Mayek extensions):</i> With reference to document N3478, WG2 accepts to create a new block named Meetei Mayek Extensions in the range AAE0 to AAFF in the BMP, and populate it with the 23 characters in code positions AAE0 to hAAF6, with their code positions, names and glyphs as shown on the last page of document N3478. It contains some combining marks.</p>	Completed; see document N3735 .
r.	<p><i>M55.24 (Sora Sompeng script):</i> With reference to document N3647, WG2 accepts to create a new block named Sora Sompeng in the range 110D0 to 110FF in the SMP, and populate it with 35 characters in code positions 110D0 to 110E8 and 110F0 to 110F9, with their code positions, names and glyphs as shown on the last page of document N3647.</p>	Completed; see document N3735 .

s.	<i>M55.25 (Meroitic script):</i> With reference to document N3665 , WG2 accepts to <ul style="list-style-type: none"> - create a new block named Meroitic Hieroglyphs (changed from proposed block name) in the range 10980 to 1099F in the SMP and populate it with 32 characters in code positions 10980 to 1099F - create another new block named Meroitic Cursive in the range 109A0 to 109FF in the SMP, and populate it with 66 characters, in code positions 109A0 to 109B7, 109BE to 109CA, 109CC to 109D9, 109DB, 109DC, 109DE to 109E5, 109E7 to 109E9, 109EB and 109F0 with their code positions, names and glyphs as shown in the charts and names lists in document N3665 . This is a right-to-left script.	Completed; see document N3735 .
t.	<i>M55.26 (Chakma script):</i> With reference to document N3645 , WG2 accepts to create a new block named Chakma in the range 11100 to 1114F in the SMP, and populate it with 67 characters in code positions 11100 to 11134, and 11136 to 11143 with their code positions, names and glyphs as shown in the charts in document N3645 . It contains some combining marks.	Completed; see document N3735 .
u.	<i>M55.27 (Sharada script):</i> With reference to document N3595 , WG2 accepts to create a new block named Sharada in the range 11180 to 111DF in the SMP, and populate it with 83 characters in code positions 11180 to 111D9 with their code positions, names and glyphs as shown on pages 4 and 5 in document N3595 .	Completed; see document N3735 .
v.	<i>M55.28 (Working draft of future amendment):</i> WG2 instructs its project editor to create a Working Draft of accepted characters and charts covering resolutions <i>M55.22 to M55.27 above for the next WG2 meeting in 2010-04</i> .	Completed; see document N3735 .
AI-55-4	IRG Convener and IRG Editor (Dr. Lu Qin)	
	<i>To take note of and act upon the following items:</i>	
a.	<i>M55.17 (Unified CJK Charts for 2nd edition):</i> WG2 notes that the glyphs for the TCA source for the unified CJK multiple column charts need finalization based on correct fonts being made available to the project editor. There are also missing or incorrect glyphs for other sources. WG2 instructs its project editor to produce the CJK charts of the 2nd edition with fonts to be provided by IRG members and send to the IRG rapporteur. The IRG is instructed to review and correct any errors in the glyphs for the various sources and report back to the project editor, with the objective of replacing the current CJK charts with the verified version in the FDIS (2010-07) of the second edition.	In progress.
b.	<i>M55.19 (Unification/mapping concerns reported by Korea):</i> WG2 requests the IRG to review the ballot comments T19 and T20 on the CD of second edition from Korea (Republic of) in document N3716 and recommend any action to be taken by WG2 to resolve the unification and mapping concerns before the next WG2 meeting in 2010-04.	Completed; see documents N3747 and N3787 .
c.	<i>M55.20 (Missing source references for CJK Extensions A and B):</i> With reference to the discussion on comment JP9 in document N3716 (disposition of CD ballot comments), IRG is instructed to review and provide to the project editor all the missing indices in source references for unified CJK ideographs, specifically Extensions A and B before the next WG2 meeting in 2010-04.	In progress.
d.	<i>M55.21 (Code points for ideographs in Annex S):</i> IRG is instructed to review Annex S of the second edition and provide to the project editor the code point values for all the encoded ideographs that appear in the various examples, with the objective of replacing the images with actual characters for these ideographs in the Annex before the next WG2 meeting in 2010-04.	Completed; see documents N3745 and N3794 .
AI-55-5	Ad hoc group on Principles and Procedures (Dr. Umamaheswaran)	
a.	<i>M55.35 (Updates to Principles and Procedures):</i> WG2 accepts <ul style="list-style-type: none"> - the proposed additions (with minor edits) to the Principles and Procedures from document N3675, and, - the proposed rewording of questions 5a and 5b related to fonts in the proposal summary form from document N3709 and instructs Dr. Umamaheswaran to prepare an updated principles and procedures document (N3702) and submit it to the convener to post to the WG2 web site and communicate to SC2 secretariat.	Completed; see document N3702 .
AI-55-6	Ad hoc group on roadmap (Mr. Michael Everson)	

a.	To update the roadmaps reflecting changes to block allocations, status of various scripts and reference documents through the various resolutions at this meeting 55.	Completed; on Unicode website roadmap pages.
b.	The roadmap ad hoc is to take note of document N3692 on scripts of Nepal and update the roadmaps appropriately.	Noted.
AI-55-7 Ireland (Mr. Michael Everson)		
a.	M55.29 (Miao script): WG2 accepts the ad hoc report in document N3730 on Miao script and invites the national bodies of China, Ireland and UK, to provide a revised contribution, following the principles detailed in the ad hoc report.	Completed; see documents N3761 and N3789.
AI-55-8 China (Mr. Chen Zhuang)		
<i>To take note of and act upon the following items:</i>		
a.	M55.29 (Miao script): WG2 accepts the ad hoc report in document N3730 on Miao script and invites the national bodies of China, Ireland and UK, to provide a revised contribution, following the principles detailed in the ad hoc report.	Completed; see documents N3761 and N3789.
AI-55-9 UK (Mr. Martin Hosken)		
<i>To take note of and act upon the following items:</i>		
a.	M55.29 (Miao script): WG2 accepts the ad hoc report in document N3730 on Miao script and invites the national bodies of China, Ireland and UK, to provide a revised contribution, following the principles detailed in the ad hoc report.	Completed; see documents N3761 and N3789.
AI-55-10 TCA (Mr. Bear Tseng)		
<i>To take note of and act upon the following items:</i>		
a.	M55.16 (Fonts for T-source from TCA for the second edition): WG2 requests TCA to provide the needed revised fonts urgently for the T-sources in the unified CJK multiple column charts to the project editor (the editor will continue to use the currently available fonts for production of FCD charts). TCA is further requested to classify the differences in glyphs into minor glyph changes versus mapping changes, and to inform the project editor, IRG rapporteur and the WG2 convener of any mapping related issues that need review and recommendations to WG2.	Completed; the link for font has been sent to the project editor; was used in preparing FCD ballot.
AI-55-11 Greek national body		
<i>To take note of the following item:</i>		
a.	With reference to ballot comments from Greece in document N3684-GR, to take note of the discussion on PDAM8 disposition of comments in document N3703, and in particular to the referenced source document N2642, and is invited to contribute to the annotations for the four Greek characters.	In progress.
AI-55-12 All national bodies and liaison organizations		
<i>To take note of and provide feedback on the following items.</i>		
a.	M55.15 (Change in the title of the next edition of the standard): WG2 approves the change in the title of the next edition of the standard to: "Information technology – Universal Coded Character Set (UCS)" removing the words multiple-octet from the title of the current edition. WG2 further instructs its convener to inform SC2 to endorse this change and get approvals from JTC1 and ITTF if needed.	Noted.
b.	M55.34 (Compatibility Ideographs for Government Use in Japan): WG2 notes the decision by the Japanese national body (reported in document N3706) to register Ideographic Variation Sequences in the Ideographic Variation Database, for encoding the compatibility ideographs identified in document N3530.	Noted.
c.	M55.37 (Future meetings): WG2 endorses the following schedule for future meetings of WG2 and of IRG: WG 2 meetings: Meeting 56 - 2010-04-19/23, San Jose, CA. USA Meeting 57 - 2010-10-04/08, Busan, Korea (Republic of) Meeting 58 - 2011-04-11/15, Helsinki, Finland (along with SC2 plenary) Meeting 59 - Fall 2011, Mountain View, CA, USA (pending confirmation), Germany (as backup) IRG meetings: IRG 34 - 2010-06-21/25, Nagaoka, Japan	Noted.

5 JTC1 and ITTF matters

Input documents:

[3808](#)

Correspondence from the JTC1 and SWG-D Secretaries Concerning the Transition from FCD to DIS in the Normal 5 Stage Development Process [JTC 1 N 10020] [SC2 N4132]; JTC1 Secretariat; 2010-04-07

The above documents are for information for the delegates. There was no discussion on these.

6 SC2 matters

6.1 SC2 program of work

SC2 program of work is available on line at <http://www.itsci.ipsi.or.jp/sc2/open/pow.htm>. It is for information for the delegates.

6.2 Ballot results

6.2.1 FPDAM8

Input document:

[3790](#) Summary of Voting on SC 2 N 4123, ISO/IEC 10646: 2003/FPDAM 8, Information technology – Universal Multiple-Octet Coded Character Set (UCS) – AMENDMENT 8: Additional symbols, Bamum supplement, CJK Unified Ideographs Extension D, and other characters; SC2 Secretariat; 2010-03-27

Twenty one national bodies had voted, two had sent in comments and seven did not respond. Of the 21 votes, there were 2 abstentions, 13 approvals without any comments, 3 approvals with comments (India, Indonesia and the United Kingdom), and three disapprovals (Germany, Japan and the United States). See section 11.1 on page 26 for the discussion of the ballot comments and disposition of these.

6.2.2 10646: 2010 edition

Input document:

[3824](#) Summary of Voting ISO/IEC FCD 10646; SC2 Secretariat, sc02/4135; 2010-04-19

Nineteen national bodies had voted, two had sent in comments and nine did not respond. Of the 19 votes, there were 2 abstentions, 10 approvals without any comments, 4 approvals with comments (Canada, China, the United Kingdom and the United States), and three disapprovals (Ireland, Japan and Republic of Korea). See section 11.1 on page 38 for the discussion of the ballot comments and disposition of these.

6.3 Liaison from JTC1/SC34 on FPDAM 8

Input document:

[3824](#) Summary of Voting ISO/IEC FCD 10646; SC2 Secretariat, sc02/4135; 2010-04-19

Some of the aspects of the issues mentioned in the liaison document from JTC1/SC34 were dealt with under disposition of ballot comments on FPDAM8. The convener will use the text from the final disposition of comments and prepare a response to JTC1/SC34 to be forwarded through SC2 secretariat.

Relevant resolution:

M56.16 (Liaison response to SC34):

Unanimous

WG2 instructs its convener to prepare a response to the Liaison letter from ISO/IEC JTC1/SC34 in document N[3809](#), and forward it to SC2 to communicate to SC34. The response will state WG 2's views on the issue that is similar to the response to comment JP.G7 in the disposition of FPDAM8 ballot comment in document N[3828](#).

7 WG2 matters

7.1 Snapshot of Pictorial view of Roadmaps

Input document:

[3807](#) Snapshot of Pictorial view of Roadmaps to BMP, SMP, SIP, TIP and SSP; Uma; 2010-04-07

Dr. Umamaheswaran: there is an entry marked as 'Proposed'; but it has no reference document available for WG2.

Relevant resolution:

M56.23 (Roadmap snapshot):

Unanimous

WG2 instructs its convener to post the updated snapshot of the roadmaps (in document N[3807](#)) to the WG2 web site and communicate the same to SC2 secretariat

7.2 Announcement of Japan's IVD Registration

Input document:

Mr. Mike Ksar: This document is for delegates' information.

Discussion:

- a. Mr. Peter Constable: Unicode consortium is pleased with JP submission.
- b. Mr. Masahiro Sekiguchi: It is an announcement from JP. The data file is also available on the website. Please give us feedback on the data files.
- c. Mr. Eric Muller: UTS #37 describes the organization of the Ideographic Variation Database, and the procedure to add sequences to that database. I would be proposing changes to UTS37 to Unicode and the draft will be available. WG2 is requested to provide feedback.
- d. Mr. Peter Constable: I will send the update information to WG2 when it is available for WG2 feedback.

Action item: Mr. Peter Constable is to send information on updates to UTS #37 for WG2 feedback.

7.3 Proposal to reorder Yogh in the UCA and ISO 14651

Input document:

[3782](#) Proposal to re-order yogh in the UCA and ISO 14651; Michael Everson; 2010-03-04

This contribution contains information regarding ordering. It is for information to WG2 and is to be dealt with by OWG-SORT.

7.4 Guidelines on English spellings in character names

Input document:

[3815](#) Guidelines on English spellings in character names; Debbie Anderson – SEI; 2010-04-09

Output document:

[3832](#) Spelling of English character names; Debbie Anderson & Uma; 2010-04-21

Dr. Deborah Anderson introduced the document – proposing some guidelines regarding spelling of character names to be included in the principles and procedures (P&P) document.

Discussion:

- a. Mr. Michael Everson: In general terms we have been using OED.
- b. Mr. Mike Ksar: I will check with SC2 secretariat if there is anything in the ITTF directives.
- c. Mr. Peter Constable: There is nothing in the ITTF directives for character names.
- d. Dr. Umamaheswaran: I don't know if we can find a pointer to something called International English.
- e. Dr. Ken Whistler: The whole point about this submission is to end the argument we get into pointing to OED and dig their heels etc.
- f. Mr. Michael Everson: We have a number of terms from different sources, dictionaries of various sources etc. I don't think it is needed in the P&P.
- g. Mr. Mike Ksar: Dr. Umamaheswaran and Dr. Deborah Anderson to discuss this item and come up with a proposed wording for P&P.

Dr. Deborah Anderson: Myself, Dr. Umamaheswaran and Dr. Ken Whistler discussed document [N3815](#). We have come up a single sentence proposed in document [N3832](#) to be included in the P&P Annex L.

Discussion:

- a. Mr. Masahiro Sekiguchi: The previous proposal had wordings for International English etc. Is the new sentence acceptable for those who are interested in the topic? For me all English dictionaries are foreign.
- b. Ms. Lisa Moore: This sentence opens the window for alternate spellings, whereas, previously we did not have any window.

Disposition: Accept the new wording proposed in document [N3832](#) for incorporating into P&P document.

Relevant resolution:

M56.22 (Guideline on spelling for English character names):

Unanimous

WG2 accepts the proposed text for guideline proposed in document [N3832](#) on spelling of English character names in the standard for inclusion in the Principles and Procedures document, and instructs Dr. Umamaheswaran to prepare an updated Principles and Procedures document ([N3802](#)) and submit it to the convener to post to the WG2 web site and communicate to SC2 secretariat.

8 IRG status and reports

Input documents:

- [3741](#) IRG Meeting No. 33 Resolution (IRGN 1630); IRG; 2009-11-26
- [3742](#) Summary of IRG Meeting Activities; IRG; 2010-03-22
- [3743](#) Suggested Text Revision of WG2 P&P Annex I (IRGN 1644); IRG; 2009-11-26
- [3744](#) IRG P&P (IRGN 1646); IRG; 2010-03-16
- [3746](#) IRG Working Document Series (IRGN 1648); IRG; 2010-03-16
- [3747](#) Suggested solution to M55.19 (IRG N1651) for incorrectly mapped compatibility characters; ROK NB; 2010-01-25

8.1 Summary of IRG activities

Dr. Lu Qin: Document N[3742](#) summarizes the IRG activities since the last meeting. It is a summary of the resolutions.

- Item 1: We need WG2 to approval for IRG 35. Macao is still to send confirmation.
- Item 2: This is for your information. Evidence must be provided for all submissions to IRG.
- Item 3: This is for your information. Macao representatives were asked to provide missing evidences for their supplementary set by 2010-05-14.
- Item 4: This is for your information. Extension E work is delayed due to review of CJK multiple-column charts. All IRG members were asked to provide more evidence for Ext. E by 2010-06-04.
- Item 5: This is for your information. The group working on Old Hanzi is expecting the consolidated list Version 2 to be submitted to IRG meeting 34. Two additional rounds of review between meetings 34 and 35 are planned. It should be ready after meeting 35.

Dr. Ken Whistler: What is the size of the current consolidated list?

Dr. Lu Qin: 9000+.

- Item 6: Regarding Multi-column code chart review, the CJK extension B charts cannot be reviewed in a 6 month period. Two rounds of review for the rest of the charts. Ad hoc on CJK charts recommended proceeding with single column chart for extension B.
- Item 7: IRG P&P version 5 is available. Feedback is requested from WG2 before IRG meeting in June 2010.

Mr. Mike Ksar: IRG should keep these as standing documents.

Mr. Eric Muller: Where are the docs in IWDS (IRG Working Document Series)?

Dr. Lu Qin: It is on the IRG website.

- Item 8: This is for your information – Japan’s IVD submission to WG2 is to be reviewed by IRG also for potential impact on IRG work.
- Item 9: ROK mapping issue; IRG agrees with ROK’s proposed solution – for your information.
- Item 10: This is for your information – IRG will be submitting examples for inclusion in Annex S to the editor.
- Item 11: Input to Annex I P&P – proposed revised text is submitted to WG2 as document N[3743](#).
Dr. Umamaheswaran: I had requested some input from IRG. The response I got did not address the problem adequately. I had requested Dr. Lu Qin that IRG to take another look. I don’t think the submitted document has addressed that feedback.

Action item: IRG is to a review and update of document N[3743](#). Response given by IRG is not sufficient for replacing Annex I of P&P.

Relevant resolution:

M56.20 (IRG Principles and Procedures):

Unanimous

WG2 invites experts from national bodies and liaison organizations to review and provide feedback to the IRG rapporteur, on the principles and procedures document of the Ideographic Rapporteur’s Group in document N[3744](#) and the associated Ideographic Working Document Series from document N[3746](#) before the June meeting of IRG.

8.2 Text version of Annex S examples

Input documents:

- [3745](#) Text version of Annex S examples (IRGN 1640); IRG; 2009-11-26
- [3794](#) Annex S clause S.1.5 rewrite; Project Editor - Michel Suignard; 2010-04-02

Mr. Michel Suignard: Document N[3745](#) was from the last meeting. This was given as an input to the editor. It was used. Document N[3794](#) proposes minor revision of the clause S.1.5 in Annex S. Many of the characters that were provided by IRG were as pictographs. I have taken the characters into the individual clauses within S.1.5 – a to k. The big dot and asterisk are used to show which are unified as

component etc. I need feedback from IRG as to if there are errors in the rearrangement that has been made. The big first block of ideographs has been moved inline.

Discussion:

- a. Mr. Masahiro Sekiguchi: As an informative Annex it may be OK. But for IRG it is important. IRG has been working on Annex S for a number of years. They were careful in providing the input. With that background, I appreciate the suggestion from the editor. But the document should be reviewed by IRG experts before we accept the proposed revisions.
- b. Dr. Ken Whistler: There are some specific errors in the changes. Item j and k for example. An example in j is repeated twice and is also under k. Some items under 'i'; it is debatable as to whether the 6th instance could be a structural difference. It could be an existing one before the proposal. You have added the asterisk.
- c. Mr. Michel Suignard: I don't have problem in waiting for IRG input. But I don't want this to drag for too long time. I don't want to be made responsible for errors in the current edition.
- d. Mr. Peter Constable: Can we work with IRG in the same time frame as the CJK charts? If they review it and we can get IRG-accepted version of your proposal then you may be able to incorporate in FDIS.
- e. Dr. Lu Qin: We want to ensure the content is correct after reading by IRG experts. This will be the first time the IRG experts will be looking at this proposed revision. This is the bible for our work.
- f. Mr. Michel Suignard: The intent was to move the big block of text in front. The only mistake that could be there is whether I have moved them into the right place in a to k.

Relevant resolution:

M56.05 (Revised text for examples Annex S.1.5):

Unanimous

IRG is instructed to review and propose updates to the revision to the examples proposed by the editor in document [N3794](#). If an agreed upon text is made available to the editor prior to the start of the FDIS ballot, it will be included in the FDIS ballot.

8.3 Suggested solution to M55.19 for incorrectly mapped compatibility characters

Input document:

[3747](#) Suggested solution to M55.19 (IRG N1651) for incorrectly mapped compatibility characters; ROK NB; 2010-01-25

(This topic was discussed during discussion on disposition of Korean ballot comments T32 and T33 on the FCD.)

The document was reviewed by IRG and recommends to WG2 that they agreed with the solution proposed by Korea. Appendix 3 of document [N3747](#) has the request

Section 1.2 on page 9 and section 2.2 on page 10 of Appendix 3 has the request for two compatibility characters and mappings:

xxx1;096B7;;;K0-6766;; , and,

xxx2;090DE;;;K0-522B;;

The glyphs are also shown in the document.

Two new code positions 0FA2E and 0FA2F are allocated to these characters. These are after the end of the end of the IBM 32 compatibility characters. The relevant additions are to be made to CJKC_SR.txt file also.

U0FA2E: 090DE;;; ; ;K0-522B glyph on page 10

U0FA2F: 096B7; ; ; K0-6766 glyph on page 9.

Korea will send the font to the editor.

Disposition: Accepted for future encoding. See relevant resolution M56.08 item I, on page 19.

Accepted in principle. Korea to send font to Editor.

8.4 Request for disunifying CJK ideograph U+2F89F from U+5FF9

Input document:

[3787](#) Request for disunifying U+2F89F from U+5FF9; TCA and China NB; 2010-03-25

Mr. Bear S. Tseng: Document [N3787](#) is input from TCA and China. The character 5FF9 is encoded in the BMP. Character 5FF9 in the BMP and 2F89F are non cognates. When we discussed CJK extension B

we incorrectly unified these two. We are requesting to disunify these. Relevant supporting information is in the document. The document shows entries from the standard.

Discussion:

- a. Dr. Lu Qin: This request is related to a compatibility character; that is why it is sent to WG2.
- b. Mr. Peter Constable: it is comparable to what we discussed for Korean disunification requests.
- c. Dr. Lu Qin: Yes. It is similar; TCA is encouraged by Korean proposal.
- d. Mr. Michel Suignard:
 - Item 2.1 – we can change the glyphs in G and T column.
 - Item 2.2 – We cannot remove an existing mapping; we can remove the T Source for this entry.
 - i. There is confusion as to which character will have the T source removed / moved etc.
 - ii. Mr. Chen Zhuang: T source from 2F89F; T source from 5FF9, which has T source: T3-2623.
 - Item 2.3 – New code point for T5-2438 is requested.
 - i. Mr. Richard Cook: The character is already encoded in 225D6 in Ext. B. It has a G source.
 - ii. Dr. Lu Qin: The glyph is not the same.
- e. Mr. Mike Ksar: We can accept 2.1 and 2.2.
- f. Mr. Michel Suignard: The charts are being updated for 2.1 – will be done by June 2010.
- g. Mr. Masahiro Sekiguchi: Questions about code chart production issue and this proposal -- what glyph shape will be shown for 5FF9 for the T column? What is the glyph shape for the G column?
- h. Mr. Chen Zhuang: The latest font is wrong; what we want is the shape from page 2277 of Hanyu Da Zidian – middle of page 5.
- i. Mr. Mike Ksar: It looks like there is some confusion as to what is being requested. I would like to see a more precise contribution clarifying what is being requested from TCA and China.

Relevant resolution:

M56.19 (Disunification request from China and TCA):

Unanimous

With reference to the disunification request in document [N3787](#), China and TCA are invited to revise the document clarifying what exactly is requested, have it reviewed by IRG, and submit the revised document to the next WG2 meeting.

9 Contributions related to ballots

9.1 Willcom input on Emoji

Input document:

[3783](#) Willcom Input on Emoji; Japan NB; 2010-03-08

Mr. Masahiro Sekiguchi: Document [N3783](#) is a very short input. It was not discussed in the Emoji ad hoc. Willcom is a Japanese mobile telephone company. The current Emoji text does not have explanation on their mapping. There are three major mobile telephone companies whose names are mentioned. Currently DoCoMo name appears. The Willcom's set is identical to it. They would like to have the name DoCoMo / Willcom as the replacement.

Discussion:

- a. Mr. Peter Constable: DoCoMo was the originator of the set. Isn't Willcom simply using it? Will Willcom and DoCoMo start using any different sets in future?
- b. Mr. Mike Ksar: As far as WG2 is concerned we don't need to change anything in our standard. We should not be getting into any political aspects between the two companies. What does Japan national body say? It is not up to WG2 to decide.
- c. Mr. Masahiro Sekiguchi: It is really for marketing considerations. The request from Japan national body is that WG2 consider it. I don't have any information on whether DoCoMo and Willcom are in synch or not.
- d. Mr. Peter Constable: The US national body came in with the set and the source was DoCoMo set. The US did not come up with this request to include Willcom.
- e. Dr. Ken Whistler: I concur with what Mr. Peter Constable has expressed. In the future if after the data is verified that Willcom / DoCoMo set are identical etc. we may add additional notes. But not now.
- f. Ms. Lisa Moore: If the data is not verified to be the same we cannot change it. If they have any additions to the standard or additional information we could consider that in the future.

Disposition: Not accepted.

9.2 *Emoji ad hoc discussion*

Input documents:

- [3769](#) Proposal to encode an emoticon "Neutral Face" in the UCS; Karl Pentzlin; 2010-01-26
- [3776](#) DoCoMo Input on Emoji; Japan – NB; 2010-03-08
- [3777](#) KDDI Input on Emoji; Japan – NB; 2010-03-08
- [3778](#) Updated Proposal to Change Some Glyphs and Names of Emoticons; Japan – NB; 2010-03-03
- [3779](#) Proposal on use of ZERO WIDTH JOINER (ZWJ) between two Regional Indicator Symbols; Japan – NB; 2010-03-03
- [3785](#) Problems concerning "U+1F471 WESTERN PERSON" in ISO/IEC 10646 FPDAM8; Karl Pentzlin; 2010-04-16
- [3806](#) Rational for Proposal of [N3778](#); Expert Contribution - Katsuhiko OGATA, Koichi KAMICHI, Shigeki MORO, Taichi KAWABATA, Yasushi NAOI; 2010-04-06

Output documents:

- [3826](#) Emoticons Chart; Michael Everson; 2010-04-20
- [3829](#) Emoji ad hoc report; Peter Constable; 2010-04-22

Mr. Peter Constable: An ad hoc met on Tuesday and Wednesday to deal with ballot comments that were not disposed off in the main meeting. Refer to the ad hoc report in document [N3829](#) and accompanying document [N3826](#) containing the charts. The net was one character addition 1F610 – Neutral Face for Amendment 8; reordering, glyph changes, name changes and changes to mappings to Emoji sources. 13 other Emoji characters are for future addition. Mr. Markus Scherer will double check the mapping references and will reflect the outcome in a revised EmojiSrc.txt file for Amendment 8. A point that is missing in the ad hoc report is a set of recommendations about the sub headings within the names list. I would like to thank the participants in the ad hoc. Many hours of work have gone into the successful outcome of the ad hoc.

Relevant resolution:

M56.01 (Emoji ad hoc report):

Unanimous

WG2 accepts the recommendations in the ad hoc report in document [N3829](#) dealing with various ballot comments on FPDAM8 and supporting documents related to Emoji symbols. The recommendations include:

- Addition of 1 new character 1F610 NEUTRAL FACE
- Changes to several glyphs, changes to character names and reordering of the characters inside the Emoticons block (the results are consolidated in document [N3826](#))
- Changes to mappings to Emoji sources (to be incorporated in the revised EmojiSrc.txt - document [N3835](#)), and
- Accepting the following 13 Emoticon symbols for encoding in a future version of the standard:
 - 1F600 GRINNING FACE
 - 1F611 EXPRESSIONLESS FACE
 - 1F615 CONFUSED FACE
 - 1F617 KISSING FACE
 - 1F619 KISSING FACE WITH SMILING EYES
 - 1F61B FACE WITH STUCK-OUT TONGUE
 - 1F61F WORRIED FACE
 - 1F626 FROWNING FACE WITH OPEN MOUTH
 - 1F627 ANGUISHED FACE
 - 1F62C GRIMACING FACE
 - 1F62E FACE WITH OPEN MOUTH
 - 1F62F HUSHED FACE
 - 1F634 SLEEPING FACEwith their glyphs as shown in document [N3834](#).

9.3 *Additional input for second edition from Project Editor*

I would like to bring a few miscellaneous items to the attention of WG2, and would like the approval to incorporate these in the second edition FDIS text.

- a. A source for HKSCS; the date should be 2008. Page 39 reference.
- b. BMP CJK Unified ideograph 94C4 .. a T source entry is missing. We did some disunification at some time earlier. TC-4A76. There is also an impact on the charts. I will work with TCA to get it in.
- c. New Alias for CC-Data Element – no one has a clue as to what it is. The term ‘code-unit-sequence’ is the term used in many places in the standard. It makes the standard a difficult to understand. The term ‘CC Data Element’ will be kept as normative term. I would like to use code

unit sequence change editorially in the text of the 2nd Edition. It exists in 4.5 under terms. I would like to add the term 'code unit sequence' under this.

Mr. Masahiro Sekiguchi: You will have *CC Data Element* and *code unit sequence* in the terms and definitions. You want to replace everywhere else with code unit sequence.

Mr. Michel Suignard: Yes.

Disposition: WG2 accepted the proposed items a, b and c, listed above.

10 Script contributions not related to ballots

Input document:

[3795](#) Summary of repertoire proposals for future amendment of 10646:2010; Project Editor Michel Suignard; 2010-04-02

Document N[3795](#) contains the draft charts and names for characters that were anticipated to be accepted at this meeting by the project editor. It is used as a reference for glyphs and character names once a proposal is accepted after discussion at this meeting.

10.1 Proposed additions to 10646:2003

Input document:

[3810](#) Proposed additions to ISO/IEC 10646:2003 [INCITS L2 10-068]; US NB; 2010-02-05

This document is a list of items pointing to other contributions discussed under different agenda items under section 10.

10.2 Proposal to encode Arabic sign SAMVAT

Input document:

[3734](#) Proposal to Encode Arabic Sign SAMVAT; SEI - Anshuman Pandey; 2009-11-20

Dr. Deborah Anderson: Document N[3734](#) proposes adding one character used in Urdu as a marker to indicate the Indian calendar system in a date. It is a subtending mark, written inside the date. The length of the mark depends on the orthography. Example is provided.

Dr. Ken Whistler: This is fine and we can add to the bucket.

Disposition: Accepted for future encoding. See relevant resolution M56.08 item a, below.

Relevant resolution:

M56.08 (Miscellaneous character additions):

Unanimous

WG2 accepts the following additions and corrections for future encoding in the standard:

- a. 0604 ARABIC SIGN SAMVAT
with its glyph shown in section 4 of document N[3734](#).
- b. Six punctuation characters:
2E32 TURNED COMMA
2E35 TURNED SEMICOLON
2E36 DAGGER WITH LEFT GUARD
2E37 DAGGER WITH RIGHT GUARD
2E38 TURNED DAGGER
2E39 TOP HALF SECTION SIGN
with their glyphs and annotations from page 1 of document N[3740](#).
- c. Two mathematical symbols:
27CB MATHEMATICAL RISING DIAGONAL
27CD MATHEMATICAL FALLING DIAGONAL
with their glyphs and annotations from pages 9 and 10 of document N[3763](#).
- d. Nine Cyrillic characters for Slavonic:
A674 COMBINING CYRILLIC LETTER UKRAINIAN IE
A675 COMBINING CYRILLIC LETTER I
A676 COMBINING CYRILLIC LETTER YI
A677 COMBINING CYRILLIC LETTER U
A678 COMBINING CYRILLIC LETTER HARD SIGN
A679 COMBINING CYRILLIC LETTER YERU

- A67A COMBINING CYRILLIC LETTER SOFT SIGN
A67B COMBINING CYRILLIC LETTER OMEGA
A69F COMBINING CYRILLIC LETTER IOTIFIED E
with their glyphs and annotations from section 2 in document N[3748](#).
- e. 0AF0 GUJARATI ABBREVIATION SIGN,
with its glyph as shown on line 1 page 1 of document N3764.
- f. Four Typikon symbols:
1F540 CIRCLED CROSS POMMY
1F541 CROSS POMMY WITH HALF-CIRCLE BELOW
1F542 CROSS POMMY
1F543 NOTCHED LEFT SEMICIRCLE WITH THREE DOTS
with their glyphs from left column in Table 1 of document N[3772](#).
- g. 058F ARMENIAN DRAM SIGN:
with its glyph as shown in document N[3834](#).
- h. Two dashes required for Chicago manual of Style
2E3A TWO-EM DASH
2E3B THREE-EM DASH
with their glyphs and annotations based on document N[3770](#).
- i. Seven Georgian and Nuskhuri letters
10C7 GEORGIAN CAPITAL LETTER YN
10CD GEORGIAN CAPITAL LETTER AEN
10FD GEORGIAN LETTER AEN
10FE GEORGIAN LETTER HARD SIGN
10FF GEORGIAN LETTER LABIAL SIGN
2D27 GEORGIAN SMALL LETTER YN
2D2D GEORGIAN SMALL LETTER AEN
with their glyphs and annotations shown on page 1 in document N[3775](#).
- j. Four Arabic combining marks
08F0 ARABIC OPEN FATHATAN
08F1 ARABIC OPEN DAMMATAN
08F2 ARABIC OPEN KASRATAN
08F3 ARABIC SMALL HIGH WAW
in a new block named Arabic Extended-A with the range 08A0 to 08FF
with their glyphs as shown in document N[3791](#).
- k. Correct the names for three Sundanese Supplement characters, based on document N[3836](#):
1CC4 change KA to LEU in the name
1CC5 change BA to KA in the name, and
1CC7 change LEU to BA in the name.
- l. Two new compatibility ideograph characters, as requested in Korean comment T32.3 on FCD ballot, and in Appendix 3 of document N3747:
FA2E with its glyph shown on page 10, corresponding to K0-522B
FA2F with its glyph shown on page 09, corresponding to K0-6766

10.3 Proposal to encode six punctuation characters

Input document:

[3740](#) Proposal to encode six punctuation characters in the UCS; Everson; 2009-12-05

Mr. Michael Everson introduced document N[3740](#). Palaeotype is an early phonetic alphabet. Some of the characters in this system are not in UCS. Some modifier letters are used but are not proposed to be added. Turned Dagger is also used elsewhere. Six punctuation characters are proposed. Glyphs, proposed code points and names and annotations are on page 1 in the document.

Mr. Michel Suignard: It is included also in document N[3795](#). It has been reviewed by Unicode.

Disposition: Accepted for future encoding. See relevant resolution M56.08 item b, on page 19.

10.4 Revised proposal to encode mathematical diagonals

Input document:

[3763](#) Revised Proposal to Encode Mathematical Diagonals; UC Berkeley SEI: Barbara Beeton, Laurențiu Iancu, Murray Sargent; 2010-01-12

Dr. Deborah Anderson: This is a proposal for two Math symbols used in Math publications in context of group theory. They differ from other similar diagonals in their slopes. Two characters 45 deg and 135 deg are proposed for the Miscellaneous Mathematical Symbols A block. The glyphs are shown on page 9 and the names are on page 10. These symbols are part of STIX project collection used for scientific publications. This proposal has been reviewed by the Unicode Technical Committee (UTC), and is a revision of a previous proposal considered by the UTC.

Mr. Peter Constable: UTC has reviewed it and we have no objection.

Disposition: Accepted for future encoding. See relevant resolution M56.08 item c, on page 19.

10.5 Proposal for extending the annotation of the character “Y WITH DIAERESIS”

Input document:

[3759](#) Proposal for extending the annotation of the character “Y WITH DIAERESIS”; Gábor Hosszú and Péter Krauth; 2009-08-12

Dr. Deborah Anderson: Document N[3759](#) is a proposal to add an annotation ‘Old Hungarian Orthography’ to 00FF- SMALL LETTER Y WITH DIAERESIS. The document provides the background information. The use of these letters falls between old to middle Hungarian writings.

Mr. Michael Everson: I would support an annotation. I think ‘French, Medieval Hungarian Orthography’ will be more accurate.

Dr. Deborah Anderson: I am not sure if the claim is correct – it needs verification.

Disposition: Accepted adding the annotation “French, medieval Hungarian orthography” to 00FF in a future amendment or edition of the standard.

10.6 Proposal to encode the Takri script

Input document:

[3758](#) Proposal to Encode the Takri Script in ISO/IEC 10646; Anshuman Pandey; 2009-12-31

Dr. Deborah Anderson: This is a mature script of an earlier proposal from Anshuman Pandey. It is a script used in India, in Kashmir and nearby areas. There is a move to revive this script for Dogri and other Pahari languages. The Chambeali form of Takri is proposed. The proposal is for adding 66 characters, in five columns in a new Takri block in the SMP.

Discussion:

- a. Mr. Peter Constable: The UTC has reviewed and accepted.
- b. Mr. Michel Suignard: It is included in document N[3795](#).
- c. Dr. Ken Whistler: I concur that this is a mature proposal.

Relevant resolution:

M56.09 (Takri script):

Unanimous

WG2 accepts to create a new block named Takri in the range 11680 to 116CF in the SMP, and to populate it with 66 characters in code positions 11680 to 116B7 and 116C0 to 116C9, with their code positions, names and glyphs as shown on pages 10 and 11 of document N[3758](#). This block contains some combining marks.

10.7 Proposal to encode nine Cyrillic characters for Slavonic

Input document:

[3748](#) Proposal to encode nine Cyrillic characters for Slavonic; SEI – Michael Everson, Victor Baranov, Heinz Mklas, Achim Rabus; 2010-01-21

Mr. Michael Everson: We have encoded several combining Cyrillic characters. They were used in liturgical text. The proposed nine additions in document N[3748](#) are used in other types of Slavonic documents. They are not in liturgical text. Examples are from manuscripts.

Disposition: Accepted for future encoding. See relevant resolution M56.08 item d, on page 19.

10.8 Proposal to encode an Abbreviation sign for Gujarati

Input document:

[3764](#) Proposal to Encode an Abbreviation Sign for Gujarati; Anshuman Pandey; 2009-09-27

Dr. Deborah Anderson: Document N[3764](#) proposes to add one character - Gujarati abbreviation Sign. It is a character similar to other abbreviations in scripts such as Devanagari.

Disposition: Accepted for future encoding. See relevant resolution M56.08 item e, on page 19.

10.9 Proposal to encode the Typikon Symbols

Input document:

[3772](#) Proposal to Encode the Typikon Symbols; Yuri Shardt, Aleksandr Andreev; 2010-02-11

Dr. Deborah Anderson: Typikon is a book. These symbols appear in the margin. The proposal in document [N3772](#) came from Yuri Shardt and Aleksandr Andreev. There was some discussion on the acceptable glyph from a range of glyphs and comparing to similar glyphs in UCS. Authors have responded with a revised document, with their responses in Tables 2 and 3. It is also requested by the US national body for inclusion.

Discussion:

- a. Mr. Michael Everson: I am in favour of the inclusion of these symbols, but not the proposed code points or their names. The glyphs are fine. They should not be in Cyrillic Extended block, since we know more are to come for that block. It should be elsewhere. There is no Typikon script. My suggestion is to use a neutral name, with annotation to indicate usage with Typikon. For example, Greek cross with xxx. We have other crosses too with more generic names.
- b. Dr. Deborah Anderson: I have a question on suggested Greek Cross.
- c. Mr. Michael Everson: I did find evidence for these – see the range of glyphs.
- d. Mr. Rouzbeh Pournader: A 'cross with circles on it' for Cross Pommie?
- e. Dr. Ken Whistler: 'Cross Pommie' describes a cross with apples; for the three with crosses in them.
- f. Mr. Masahiro Sekiguchi: Listening to the discussion, the left side shows the selected shape; but the right shows variations in the shapes. How do we know they represent the same?
- g. Dr. Ken Whistler: The symbols under Type II are all from manuscripts. Similar to the dollar sign, they are shaped slightly differently in different contexts. The typographer was not involved earlier.
- h. Mr. Masahiro Sekiguchi: The identification is based on context of use. We should not use a name which is too close to the description of the glyph, when there are variations in glyphs for same usage. The number of crosses we have in the standard prescribe the use of that variant.
- i. Dr. Ken Whistler: A Maltese Cross is another example; variant glyphs are used in manuscripts.
- j. Mr. Michael Everson: The annotation shows the intended use for Typikon to direct the user to the right code point.
- k. Dr. Ken Whistler: It seems we have consensus that these are four symbols should be included. We can use the proposed revised names.

The following is revised list of names and annotations received from the project contributing editor Mr. Michael Everson:

- @ Religious symbols
- 1F540 CIRCLED CROSS POMMY
 - * Orthodox typikon symbol for great feast service
- 1F541 CROSS POMMY WITH HALF-CIRCLE BELOW
 - * Orthodox typikon symbol for vigil service
- 1F542 CROSS POMMY
 - * Orthodox typikon symbol for Polyeleos
 - x (four teardrop-spoked asterisk - 2722)
- 1F543 NOTCHED LEFT SEMICIRCLE WITH THREE DOTS
 - * Orthodox typikon symbol for lower rank feast

Disposition: Accepted for future encoding. See relevant resolution M56.08 item f, on page 19.

10.10 Proposal to encode an Armenian Dram currency symbol

Input document:

[3771](#) Proposal to encode an Armenian Dram currency symbol; Karl Pentzlin; 2010-02-10

Document [N3771](#) is a proposal for a single currency symbol for Armenian Dram. Refer also to comment from Armenia in FCD ballot – with a disposition of 'Noted'.

Disposition: Accepted for future encoding. See relevant resolution M56.08 item g, on page 19.

10.11 Proposal to encode two dashes required by the Chicago Manual of Style

Input document:

[3770](#) Proposal to encode two dashes required by the Chicago Manual of Style in the UCS; Karl Pentzlin; 2010-02-10

Document [N3770](#) proposes to add two dashes - TWO-EM DASH and THREE-EM DASH

Discussion:

- a. Mr. Peter Constable: The UTC has reviewed this proposal and we can accept them.
- b. Dr. Deborah Anderson: This is also part of US requested additions.
- c. Mr. Michael Everson: I may have to fix the glyphs.
- d. Mr. Michel Suignard: I propose to show a single dash but with an annotation that it has to be double or triple lengths.
- e. Mr. Masahiro Sekiguchi: Current fonts have tiny space in them. We can encourage all font designers to use the proposed glyphs in document [N3770](#).
- f. Dr. Ken Whistler: The same argument we heard about 10 years ago, when we declined those. Germany and others have advocated these again. While it is possible to have multiple EM dashes in sequence, they do have different meanings as punctuation symbols.
- g. Mr. Michel Suignard: The code chart and names list will both use a single EM dash glyph.

Disposition: Accepted for future encoding. See relevant resolution M56.08 item h, on page 19.

10.12 Proposal for encoding Georgian and Nuskhuri letters

Input document:

[3775](#) Proposal for encoding Georgian and Nuskhuri letters for Ossetian and Abkhaz; UC Berkeley SEI; 2010-02-17

Mr. Michael Everson: In various older orthographies using Nuskhuri letters some characters are needed for Ossetian and Abkhaz languages. Document [N3775](#) provides the background information. The code positions chosen are to align between lower and upper letter forms.

Discussion:

- a. Mr. Peter Constable: What was the rationale for the offset?
- b. Mr. Michael Everson: From document [N3775](#), "Note that the relative code positions of YN and AEN are the same in all three charts (Khutsuri and Mkhedruli)".
- c. Mr. Rouzbeh Pournader: Are the hard and labial signs specific to Mkhedruli? Yes.

Disposition: Accepted for future encoding. See relevant resolution M56.08 item 'i', on page 19.

10.13 Final proposal for encoding the Miao script

Input documents:

[3761](#) Towards a proposal for encoding Miao; Michael Everson, Erich Fickle, Martin Hosken; 2010-01-28

[3789](#) Final proposal for encoding the Miao script in the SMP of the UCS; China, Ireland, and UK; 2010-03-26

Mr. Erich Fickle introduced the proposal in document [N3789](#). It is a complete rewrite of previous document. It incorporates all the items the ad hoc group on Miao script agreed to in Tokyo meeting 55. The other document [N3761](#) was submitted to UTC earlier. There is no change in charts other than glyph changes. It reverts to the model proposed by Mr. John Jenkins in the preliminary proposal. In Hangzhou meeting 51, additions used by some minorities were requested. In Tokyo meeting 55, further archaic letters were requested to be added. The current proposal is the complete set of all the known characters. There is a default collation sequence. It is used by about 24 mutually non intelligible user groups. We think the proposal is ready for WG2 to include in the next amendment.

Discussion:

- a. Mr. Michel Suignard: [N3795](#) includes the provisional chart. The information was based on input from Mr. Michael Everson. It is based on document [N3789](#), dated 26 March 2010.
- b. Mr. Michael Everson: It should be the same set of charts.
- c. Mr. Peter Constable: The UTC has reviewed this document. We think it is mature proposal, and can be included in the standard. We had some proposed changes to character names. Various combining marks have the word LETTER in their names. It is preferable to remove the word letter.
- d. Mr. Erich Fickle: It would be in line with Unicode properties etc. – such as on page 7, Vowels and finals 16F54 to 16F7C and a couple of other vowel marks. These changes can be input as ballot comments.
- e. Mr. Masahiro Sekiguchi: We could also wait for a revised proposal after the next UTC meeting

could be accepted. I want to understand – are you suggesting that we will accept the document now; the UTC can make the comments when the document is balloted next. (Yes).

Relevant resolution:

M56.10 (Miao script):

Unanimous

WG2 accepts to create a new block named Miao in the range 16F00 to 16F8F in the SMP, and populate it with 128 characters in code positions 16F00 to 16F41 and 16F50 to 16F8D, with their code positions, names and glyphs as shown on pages 6 to 8 of document N3789. This block contains some combining marks.

10.14 Revised proposal to encode the Jurchen characters

Input documents:

[3788](#)

Revised Proposal to Encode the Jurchen Characters in UCS; China NB; 2010-01-26

[3817](#)

Comments on Jurchen; Andrew West; 2010-04-16

Mr. Chen Zhuang: Our expert will talk about the proposal for Jurchen in document N3788.

Dr. Sun Bojun: This is the revised proposal based on last meeting discussion. There are some additional characters and radicals. We suggest that we use transliterated names. Mr. Andrew West has additional comments in document N3817. His suggestion is to change some words for transliteration. He had suggested adding some variants earlier. Now he is suggesting removing some of these. The question is about naming of these characters with transliteration. The naming guidelines do not permit use of accented Latin letters in the names.

Discussion:

- a. Dr. Ken Whistler: The phonetic transliteration is used for names from China. However it includes the accented letters. Mr. Andrew West's suggestion is to have a one to one mapping to ASCII letters that could be used in the names. Where there is no contrast between sounds like e, we could change it to use E. Same with the eng, tch, tsi etc. which could be transliterated to ng, tch etc.
- b. Mr. Michael Everson: Mr. Andrew West has a new document with further recommendations. Some name changes are proposed based on more evidence and findings. These are all on the Jurchen discussion list.
- c. Dr. Ken Whistler: People have to understand that providing character names is not an attempt to suggest a standardized transliteration for the names.
- d. Mr. Mike Ksar: The document is not ready for inclusion in the standard.
- e. Mr. Chen Zhuang: We have corrected some errors pointed out by Mr. Andrew West. I would like to know how to process the variants. We had added some and now these are being asked to be removed.
- f. Dr. Ken Whistler: The stroke composition is similar to CJK ideographs. Whether two of these Jurchen characters are the same should be similar to determining if two ideographs are the same or not. Whether some of the glyphs could be unified or not is something you need to consider. I agree with Mr. Andrew West's assessment that some of these are glyph variants.
- g. Dr. Sun Bojun: The proposal was revised based on previous comments. I don't understand why he has changed his mind and is asking for more changes.
- h. Dr. Ken Whistler: Considering all the variants it became clearer that about 40 % of these are really variants of a set of characters. If we follow that a character for each head word in a dictionary is collected ... but many of these are variants. So we have to think through whether they are to be represented by other means such as Variant sequences, rather than encoding all the glyphs.
- i. Mr. Mike Ksar: The suggestion is to revise document N3788 with additional comments in N3817. The experts seem to be disagreeing with each other. I recommend that experts continue the discussion via email.
- j. Mr. Michael Everson: Dictionary writers need each glyph for headwords in a dictionary. They need a way to represent these in the UCS. There are many glyph variants in this set. The disagreement among the experts is to determine which characters are variants of each other.
- k. Mr. Mike Ksar: I need a revised proposal based on more consensus and agreement among the experts.

Relevant resolution:

M56.18 (Jurchen script):

Unanimous

WG2 invites the authors of the proposal to encode Jurchen script in document N3788 to further revise the document based on feedback in document N3817, discussion at meeting 56, and in consultation with other Jurchen experts.

10.15 Arabic characters for Koranic use

Input documents:

- [3791](#) Proposal to encode four combining Arabic characters for Koranic use; Unicode Consortium – Roozbeh Pournader; 2010-03-30
- [3816](#) Proposal to change some combining Arabic characters for Quranic representation; King Fahd Glorious Quran Printing Complex; 2010-03-21

Mr. Roozbeh Pournader: In document [N3791](#) there are several Koranic symbols proposed. Four characters were missing to cater to interested users. Four characters are proposed (non spacing marks) U+08F0 to U+08F3 in the Arabic Extension A block.

Discussion:

- Dr. Deborah Anderson: These were included in the US national body comments. There are a few differences between documents [N3791](#) and [N3816](#). Instead of having the word 'OPEN', change them to have the words 'ARABIC SUCCESSIVE', in the three names. They are also suggesting shape in glyph.
- Mr. Roozbeh Pournader: Some publishing houses are using the previous glyph proposed. They are proposing in [N3816](#) glyphs that are being introduced for new publications; but they are not popular yet.
- Dr. Ken Whistler: We can use the OPEN in the names with aliases as ARABIC SUCCESSIVE.
- Mr. Michel Suignard: These are included in the draft charts in document [N3795](#).

Disposition: Accepted for future encoding. See relevant resolution M56.08 item j, on page 19.

10.16 Proposal for Arabic Mathematical Alphabetic Symbols

Input document:

- [3799](#) Proposal for Arabic Mathematical Alphabetic Symbols; Azzeddine Lazrek (Cadi Ayyad University, Marrakesh, Morocco), Murray Sargent, Roozbeh Pournader, Adil Allawi, and Deborah Anderson (Script Encoding Initiative, UC Berkeley); 2010-04-06

Dr. Deborah Anderson: The first proposal for these symbols was in 2006 (document [N3085](#)). Messrs. Azzeddine Lazrek, Murray Sargent, Roozbeh Pournader and others, have worked on the proposal. This revised document [N3799](#) gives the references to the previous information. These characters have different joining behaviour. These are treated as SYMBOLS. There are two operators included SUMMATION and LIMIT. They stretch. There will be more characters proposed in the future; they are being researched. The Math symbols order is older order, and is reflected here; there were comments from IBM Egypt. Non Arabic Math styles like Italic, Bold etc. have different meanings. Whereas, for Arabic different styles are used. A graduate student at UCLA from Damascus (Mr. Nizar Almoussa) and two IBM Egypt experts (Messrs. Tarek Abou Aly and Mohamed Mohie) were consulted. Our request is to include the proposed symbols in the standard.

Discussion:

- Mr. Roozbeh Pournader: There are other characters investigated for evidences and will be proposed in the future.
- Mr. Peter Constable: The UTC has reviewed this and agrees with the proposal.
- Ms. Lisa Moore: UTC has allocated a row and a half 1E800 to 1EEFF.
- Mr. Michael Everson: The roadmap has two rows allocated now.

Relevant resolution:

M56.11 (Arabic Mathematical Alphabetic Symbols):

Unanimous

WG2 accepts to create a new block named Arabic Mathematical Alphabetic Symbols in the range 1EE00 to 1EEFF in the SMP, and populate it with **143** characters with their code positions, names and glyphs as shown in the charts in document [N3799](#).

10.17 Final Proposal for encoding Tangut

Input documents:

- [3797](#) Final proposal for encoding the Tangut script in the SMP of the UCS; China, Ireland, UK; 2010-04-05
- [3797-A](#) Appendix A: Tangut Radical List; China, Ireland, UK; 2010-04-05
- [3797-B](#) Appendix B: Tangut Character List; China, Ireland, UK; 2010-04-05
- [3821](#) Comments on Tangut proposal [N3797](#); SEI – Debbie Anderson & Richard Cook; 2010-04-16
- [3822](#) Multi-Column Chart of Tangut; Richard Cook; 2010-04-16

Output document:

- [3833](#) Ad hoc report on Tangut; Debbie Anderson; 2010-04-23

Dr. Deborah Anderson: The ad hoc report is in document N[3833](#). The ad hoc on Tangut discussed two main issues.

- Naming: algorithmically derived names versus enumerated names for about 6000 of these. There was consensus on names being derived algorithmically.
- Discussion of repertoire: whether to have 300 supplemental characters separate or considered along with the main block. The leaning was towards including the 300 into a single block.

The recommendations were not unanimous, but a productive direction is recommended. The experts will continue to work together to come up with a revised proposal for the next WG2 meeting.

Discussion:

- a. Mr. Mike Ksar: I received an email from Mr. Andrew West: "... based on discussion on the Tangut list, after the ad hoc meeting, I would like to see document N[3797](#) be included in the next ballot. Algorithmic names would be acceptable."
- b. Dr. Ken Whistler: Based on the discussion yesterday I don't think the proposal is mature enough to proceed.
- c. Mr. Chen Zhuang: I have no comment regarding Mr. Andrew West's request.
- d. Mr. Mike Ksar: So we will stick with the ad hoc report. I am requesting Dr. Deborah Anderson to respond to email from Mr. Andrew West.

Relevant resolution:

M56.17 (Tangut script):

Unanimous

WG2 accepts the recommendations in the Tangut ad hoc report in document N[3833](#) and invites the authors of the Tangut proposal in document N[3797](#), together with other Tangut experts, to submit a revised proposal taking into account the ad hoc recommendations.

10.18 Name corrections for Sundanese supplement

Input document:

[3836](#) Correction to 3 character names in the Sundanese Supplement block; Deborah Anderson, SEI; 2010-04-23

Dr. Deborah Anderson: The request is to correct the names for three characters 1CC4, 1CC5 and 1CC7; they were switched around in the repertoire accepted at meeting 55.

Dr. Ken Whistler: The error was in creating the charts. Original submission was correct.

Disposition: Accepted. See relevant resolution M56.08 item k, on page 19.

11 Ballots disposition of comments

11.1 FPDAM 8

Input document:

[3792](#) Draft disposition of comments on SC2 N 4123 (FPDAM text for Amendment 8 to ISO/IEC 10646:2003); Project Editor - Michel Suignard; 2010-04-18

Input documents in support of ballot comments:

- [3320R](#) Proposal for encoding the Batak script in the UCS; SEI – Everson; 2008-10-21
- [3581](#) Latin Letter Additions for Janalif; Karl Pentzlin & Ilya Yevlampiey; 2009-03-16
- [3678](#) On the proposed U+A78F LATIN LETTER MIDDLE DOT; Anderson/USNB; 2009-08-05
- [3607](#) Towards an encoding of symbol characters used as emoji; Irish NB & German NB; 2009-04-06
- [3711](#) A proposal to Revise a Part of Emoticons in PDAM 8; Katsuhiko Ogata, Koichi Kamichi, Shigeki Moro, Taichi Kawabata, Yasushi Naoi - Experts' contribution; 2009-10-21
- [3728R](#) Updated version of [N3712](#) – Emoji sources; Markus Scherer; 2009-11-05
- [3769](#) Proposal to encode an emoticon "Neutral Face" in the UCS; Karl Pentzlin; 2010-01-26
- [3776](#) DoCoMo Input on Emoji; Japan – NB; 2010-03-08
- [3777](#) KDDI Input on Emoji; Japan – NB; 2010-03-08
- [3778](#) Updated Proposal to Change Some Glyphs and Names of Emoticons; Japan – NB; 2010-03-03
- [3779](#) Proposal on use of ZERO WIDTH JOINER (ZWJ) between two Regional Indicator Symbols; Japan – NB; 2010-03-03
- [3812](#) Feedback On the proposed U+A78F LATIN LETTER MIDDLE DOT (L2/09-031R = [N3567](#)); Hans-Jörg Bibiko, Max Planck Institute for evolutionary Anthropology, Department of Linguistics; 2010-04-07
- [3813](#) Comments on spelling SULPHUR vs SULFUR in FPDAM8; Robert Parker, Royal Society of Chemistry (forwarded by Wally Hooper, Chymistry of Isaac Newton Project, Indiana University) with summary and references provided by Deborah Anderson, Script Encoding Initiative, UC Berkeley; 2010-03-21
- [3818](#) Further Comments on the spelling SULPHUR vs SULFUR in FPDAM 8; Wally Hooper, Chymistry of Isaac Newton Project, Indiana University (forwarded by Deborah Anderson, Script Encoding Initiative, UC Berkeley); 2010-03-29
- [3785](#) Problems concerning "U+1F471 WESTERN PERSON" in ISO/IEC 10646 FPDAM8; Karl Pentzlin; 2010-04-16
- [3831](#) Input from China on G sources; China NB; 2010-04-21

Output documents:

[3828](#) Disposition FPDAM8 updated at meeting 56; Project Editor – Michel Suignard; 2010-04-23

[3829](#) Emoji ad hoc report; Peter Constable; 2010-04-22

[3835](#) Updated Emoji Source File; Markus Sherer; 2010-04-24

[3838](#) Summary of repertoire and charts FDAM8; Project Editor; 2010-04-23

Document [N3792](#) contains the proposed dispositions for the ballot comments. It contains the original comment followed by editor's proposed disposition and any rationale. Items that need further WG2 discussion towards a disposition are identified.

11.1.1 Germany: Negative

T1. Suggests block name be changed from "Miscellaneous Pictographic Symbols" to "Miscellaneous Symbols and Pictographs".

Accepted.

T2. Suggests name of U+1F471 WESTERN PERSON be changed to "PERSON WITH BLOND HAIR" (as in [N3607](#)). Rationale is provided. Points to similar comment T.11 on PDAM8 ballot comment from Germany.

Mr. Michel Suignard: This is a repeat of FPDAM8 comment. Germany strongly feels that they need the change.

Discussion:

- a. Mr. Michael Everson: Not all the Western people are blond. Will Japan depict a Western person always with a blonde hair?
- b. Mr. Masahiro Sekiguchi: Will postpone till ad hoc on Emoji tomorrow. This glyph was designed by a person who thinks there is a Japanese and a Western person.
- c. Dr. Ken Whistler: One way to address this would be to call the symbol with Japanese term .. SEIYOJIN. This will get us out of the terminology WESTERN. This will put an end to the discussion.
- d. Mr. Masahiro Sekiguchi: It is OK with Japan to use SEIYOJIN.

There was further discussion in Emoji ad hoc. The ad hoc recommends in document [N3829](#) accepting the name change for U+1F471 from WESTERN PERSON to PERSON WITH BLOND HAIR.

Disposition: *Accepted.*

T3. In addition to T.2 above, Germany wants the "PERSON" aspect in U+1F471 to be addressed also. Proposes either – two separate symbols one for MAN and another with WOMAN .. with blond hair; or, Change its name to 'COMPATIBILITY SYMBOL PERSON WITH BLOND HAIR' and move its code position into the collection of Emoji or JIS compatibility set, along with a suggested informative note. The rationale is also included, with pointer to document [N3785](#).

Discussion:

See also disposition of comment Germany - T2 above.

Dr. Ken Whistler: The disposition of naming as SEIYOJIN becomes non gender specific name. So it should take care of Germany's concern.

There was further discussion in Emoji ad hoc. The ad hoc recommends in document [N3829](#) that the name for U+1F471 be changed from WESTERN PERSON to PERSON WITH BLOND HAIR. Thereby, this comment from Germany is not accepted.

Disposition: *Not accepted.*

Editorial comment:

E1. Proposes to change the header "UPA letters" for U+A790/A791 to "Additions for Janalif". References document [N3581](#).

Discussion:

- a. Mr. Michel Suignard: This could also be accommodated by annotations. Are those letters only used for Janalif? We should check it.
- b. Mr. Michael Everson: UPA was a mistake.

Disposition: *Accepted.* Change to "Additions for Janalif".

(We think Germany will change its ballot to Acceptance.)

11.1.2 India: Positive with comments

T1a. Agrees with encoding 065F - ARABIC WAVY HAMZA BELOW.

Noted.

T1b. Requests review of decision to encode 0620 - ARABIC LETTER KASHMIRI YEH, since there is a need to encode one more “ARABIC LETTER PALATALIZED YEH” for Kashmiri.

Noted. The proposed addition of 0620 ARABIC LETTER KASHMIRI removes the need to annotate 06CC. Even if there is a need to encode another character as suggested by India, this should not delay the encoding 0620. India needs to submit an encoding proposal if such encoding is desired.

T2. Agrees with encoding of 10 Devanagari characters for use in Kashmiri.

Noted.

T3. Agrees with encoding of 0D4E - MALAYALAM LETTER DOT.

Noted.

See also comment E1 requesting an annotation for this character from US.

Editorial comment

E1. Proposes adding annotation “Character has historic use only” for 0D29 MALAYALAM LETTER NNNA and 0D3A MALAYALAM LETTER TTTA.

These would be annotations on characters not part of this ballot. India should have submitted a separate contribution requesting annotation.

Accepted.

11.1.3 Indonesia: Positive with comments

T1 Batak – points out that LETTER characters can be classified into five types based on the language they are used in. Gives references. It is not clear as what is requested.

Mr. Michel Suignard: I think the request is to use some information on the usage of the characters in different languages in the names list in the charts. I have drafted a proposed insertion of information based on information document [N3320R](#) to address Indonesia's request. I want to know if this is the right way to go about it. Except for the two symbol characters in 1BFA and 1BFB, all characters are already encoded, therefore their names cannot be changed

@+ Unless explicitly encoded separately, Batak letters are shared among the five Batak alphabets divided between Northern (Karo and Pakpak and Southern (Mandailing, Simalungun, and Toba). When letters have different usage among these alphabets, annotations are provided.

@ Letters

1BC0 BATAK LETTER A

Letter a or ha for Karo and Pakpak

1BC2 BATAK LETTER HA

Toba letter ha or ka

Also known as letter ka for Karo and Pakpak

1BC3 BATAK LETTER SIMALUNGUN HA

Also known as Simalungun letter ka

1BCB BATAK LETTER WA

Toba letter wa can be represented by either 1BCB or 1BCD

1BD6 BATAK LETTER SOUTHERN TA

Toba letter ta can be represented by either 1BD6 or 1DB7

1BD8 BATAK LETTER SA

Pakpak letter sa or ca

1BE0 BATAK LETTER NYA

Karo letter ca can be represented by either 1BE0 or 1BE1

Discussion:

Mr. Michael Everson: What you have there will address the Indonesian request. I will correspond with them.

Dr. Ken Whistler: I am fine with the individual annotations. The preamble may be too long. We should make it shorter – not to list every possible occurrence. We should not go along the garden path of adding long preambles on tops of the blocks. It should be just enough to introduce the annotations for the few characters.

Mr. Peter Constable: The preamble could be shortened like ‘Batak letters could be shared among the five alphabets’ and not elaborate any further.

Disposition:

Accepted. Include a shortened preamble and annotations on a few characters, as proposed by the editor.

11.1.4 Ireland: Negative

T1. Reiterates A78F LATIN LETTER MIDDLE DOT be retained with a new name LATIN LETTER GLOTTAL DOT (reflecting its use as a phonetic letter in transcriptions of Tangut and Chinese). See also comment GB1 from UK, which supports its retention, and comment T1 from US, which wants it to be removed from Amendment 8.

Mr. Michel Suignard: As an editor, I don’t know what to do. If it is removed we can add them later. We had a discussion and decided to keep it in Amendment 8 at the last meeting. Two countries are voting Negative. One wants to keep it and the other one wants to remove it.

Discussion:

- a. Mr. Michael Everson: The removal of this character will not affect Ireland’s Negative vote. Nothing is going to get solved without a dialog with the countries who want to get rid of it. The UK participant is available for the ad hoc.
- b. Mr. Michel Suignard: Having an ad hoc is fine. The rationale was provided by UK.
- c. Mr. Mike Ksar We can have an ad hoc. If the ad hoc does not come up with agreement to keep it, as the editor suggested it can be moved to the next amendment.

Mr. Michael Everson: The consensus of the ad hoc was to remove it from this amendment and add to the next amendment. US (Dr. Ken Whistler, Dr. Deborah Anderson, Ms. Lisa Moore), UK (Mr. Andrew West) and Ireland (Mr. Michael Everson) participated.

Disposition: A78F Latin Letter Middle Dot is removed from current Amendment 8, and moved to next Amendment of a future edition.

T2. Requests changing block name from Miscellaneous Pictographic Symbols to Symbols and Pictographs.

See also comment T1 from Germany.

Accepted (earlier under German comment T.1)

T3. With reference to [N3777](#), “KDDI Input on Emoji”, requests insertion of 1F536 MEDIUM RED CIRCLE, and 1F537 MEDIUM BLUE CIRCLE, pushing the rest of the characters in the column down by two:

Mr. Michel Suignard: I think KDDI is confused. I think we should keep the mapping as is ‘black’ and ‘white’ in character names do not imply a specific color, they mean filled versus outline or filled with a darker color versus filled with a lighter color. I can add some clarification on use of the terms ‘black’ and ‘white’ in the charts. Also, new characters can be proposed at PDAM stage, but prefer not to add at FPDAM stage.

Mr. Michael Everson: Ireland withdraws the comments.

Withdrawn.

T4. Requests a number of name changes to encoded Emoji symbols, and additional or changed annotations.

Related comments were also received from Japan and the US. See document [N3792](#) for details.

Mr. Michel Suignard: I have combined comments from several national bodies in the proposed disposition. Where there is consensus among three or two I have suggested acceptance. While there is a single input, it may be acceptable. I would like an ad hoc on Emoji to take a look at the proposed changes in their deliberations.

See section 9.2 on page 18 for Emoji ad hoc report, discussion and disposition.

T5. Requests a number of character additions to Emoticons set.
See document N[3792](#) for details.

Mr. Michel Suignard: Ireland is asking for additions of many more characters. 1F641 was discussed at the last meeting. It was also requested by the US. In my opinion these could be postponed. I think there are too many additions for FPDAM stage.

Discussion:

- a. Mr. Peter Edberg: There is a different character that is proposed for the change.
- b. Mr. Michael Everson: We can add characters as part of ballot comments. It is part of the Emoji set. If these are postponed, there can be problems with consistency in names and holes would be left if the characters are not added.

Relegated to the ad hoc on Emoji. *See section 9.2 on page 18 for Emoji ad hoc report, discussion and disposition.*

T6. Requests rearrangement and changed annotations for several characters in the code chart for Emoticons set. The resulting rearranged chart is also provided.

Mr. Michel Suignard: The suggested moves should be acceptable, but they make life difficult for the editor. All these proposed changes are within the block. We could accept them subject to discussion on additions. The ad hoc should take the proposed disposition as input.

Relegated to the ad hoc on Emoji. *See section 9.2 on page 18 for Emoji ad hoc report, discussion and disposition.*

E1. Suggests that the glyphs for Batak characters 1BFA and 1BFB be increased in size somewhat. Examples are provided.

Mr. Michel Suignard: If the two characters in question are NOT taken out based on US comment T.2, the glyph change would be acceptable.
See discussion under US comment T.2 on Amendment 8.

E2. Requests addition of annotation to 1F4A6 DROP OF WATER:
* also represents a drop of sweat
See also comment 11d from Japan.

Mr. Michel Suignard: Request for annotation. Accepted for now; depending on Japan's comment 11d. See discussion under Japan's comment 11d.

E3. Requests a number of glyph changes for Emoticons set.

Relegated to the ad hoc on Emoji. *See section 9.2 on page 18 for Emoji ad hoc report, discussion and disposition.*

Ireland's ballot position changes to Acceptance.

11.1.5 Japan, Negative

(Japan did not provide instruction as to which comment satisfaction would change its vote)

JP.T1 Proposes text to clarify the informative nature of EmojiSrc.txt:

“The source reference information shall be informative.” - at the end of clause 26.4;

“EmojiSrc.txt is for reference purpose only and is not intended for transcoding.” at the end of the NOTE.

Discussion:

- a. Mr. Michel Suignard: Propose ‘The source reference information is informative’ instead.
- b. Dr. Ken Whistler: Use of ‘shall’ is for normative clauses. Shall is proposed in informative clause.
- c. Informative. For this particular case we can accept the proposed rewording.
- d. Mr. Michel Suignard: The term transcoding is not used; but we can use Mapping.
- e. Mr. Masahiro Sekiguchi: The issue was that one cannot understand if something is Normative. The term ‘mapping’ is OK with Japan.
- f. Dr. Ken Whistler: T.1 conflicts with US comment T.5b. I suggest a slight modification to mapping part of the proposal. ‘For reference purposes and not intended for cross mapping between vendors encodings.’
- g. Mr. Masahiro Sekiguchi: Fine with Japan.

Disposition: Accepted in principle.

JP.T2 Proposes removing the year 2009 in reference to ‘Hanyo-Denshi Program’ in 27.1, Source references for CJK Unified Ideographs

Mr. Michel Suignard: The intent was to have constant reference especially for sources for ideograph. Is there a way to address that concern?

Discussion:

Mr. Masahiro Sekiguchi: In this particular reference, it is the name of a project It is not easy to fix a date on it. It has been completed and we don’t know whether it will be restarted with the same name or not. The comment was from Japanese Government representative -- 2002-2009, not just 2009.

Dr. Ken Whistler: 2002-2009 should be fine.

Disposition:

Mr. Michel Suignard: We will change to 2002-2009, instead of removing 2009.

Accepted in principle.

JP.E3 (editorial): The glyphs for the newly added 1BFA and 1BFB are too small and hardly recognizable. Proposes putting them in a separate figure (or chart) of sufficient width, and put in the code chart some words indicating “the representative glyphs for 1BFA and 1BFB are in figure X.X”. Could become not applicable if comment T2 from US is accepted. See also comment E1 from Ireland.

Mr. Michel Suignard: However, moving them out of the code charts and pointing to a figure is setting an undesirable precedent. If the characters stay we will accept the comment to fix the glyphs
See disposition of US comment T.2.

JP.E4 (editorial): The glyphs for the newly added 26E5 and 26E6 should have some clear gaps to represent the interlacements of the edges, but in the current code chart the gaps are too narrow and hardly recognizable.

Mr. Michael Everson: I will fix the glyph to address Japan’s comments.

Accepted in principle.

JP.T5 (technical): Proposed annotation to 270C VICTORY HAND: = scissors in Rock, Paper, Scissors game.

Accepted (though the comment should have been editorial).

JP.T6 (technical): Proposes changes to explanatory text for Regional Indicator Symbols 1F1E6—1F1FF, per contribution in document N3779. Proposes:

- a phrase something like: "in a pairs joined with ZERO WIDTH JOINER" in the nameslist.
- show entries with ZWJ, like: 1F1E8 200D 1F1F3;F3D2;FBB3, in EmojiSrc.txt file showing the mapping.

Mr. Michel Suignard: Japan proposes in document N3779 to have joiners in conjunction with the Regional Indicator Symbols accepted at the last meeting. Use of these joiners probably makes it more complicated. We can have rules for ill-formed sequences of use of these Regional Indicator Symbols – similar to what we do for UTF8 etc.

Discussion:

- a. Mr. Michael Everson: Fonts are supposed to do these.
- b. Mr. Michel Suignard: Fonts are out of scope for 10646.
- c. Mr. Peter Constable: These are proposed as a set of symbols to be used by an appropriate higher level protocol. Even if we use the joiners we have to specify far more than just a set of symbols.
- d. Mr. Rouzbeh Pournader: We cannot just get the solution for many of these symbols out of just the standard. Other higher level protocols need to deal with these anyway. Even if we add joiners the issue does not go away.
- e. Mr. Masahiro Sekiguchi: What Mr. Michel Suignard proposes is to have some text as to what combinations could be valid or not. The intended use of the characters is to have two of these symbols one after another. The user may have single or other combinations, but the intent is to be clarified.
- f. Mr. Michel Suignard: The ill-formed etc. is in the context of higher level protocols that use these symbols. The intent is to be used as a pair in that protocol.
- g. Mr. Masahiro Sekiguchi: My second comment - the word higher level protocol is not clear, especially for these set of symbols. The reason for adding these symbols was to have Emoji symbols in plain text and in that sense any text data can have these symbols as well. For existing Japanese mobile phone implementations there are no region indicator symbols, but they have single flag symbols. We are suggesting that the equivalent coding for these flags in plain text is to use them in pairs. Joiners may not be the right solution. But we need to somehow identify in a plain text containing a sequence of these regional indicator symbols what is the correct interpretation.
- h. Dr. Umamaheswaran: We simply state that the intended use of these is for using them in sets to represent the Emoji symbols for flags. Leave out the error handling part, which is not within the scope of the standard.
- i. Dr. Ken Whistler: I am with Dr. Umamaheswaran in this; just state the intended use. We cannot specify the bad sequence handling etc. The joiner does not solve the problem either.
- j. Mr. Rouzbeh Pournader: If one is looking at a string of these symbols, one has to go back to the beginning of the sequence of these symbols before we can interpret the correct meaning of the symbols.
- k. Dr. Ken Whistler: One could add a symbol in the beginning and the sequence could have a different meaning.
- l. Mr. Masahiro Sekiguchi: It is almost impossible to implement; with the joiners we thought it would be possible. It may be doable without joiners. Are you sure implementations can handle the current sequences?
- m. Mr. Peter Constable: Depending on where one is in a sequence there could be different interpretations.
- n. Mr. Masahiro Sekiguchi: Someone creates a Japanese phones text containing the flag symbols; it is received by a UCS based system, and it will show the UCS plain text containing the regional indicator symbols. I want to show the user of the UCS plain text the same set of flags that the Japanese Emoji symbols sees on the phone.
- o. Dr. Ken Whistler: If there is no conversion problem, you will see the same results as on the Japanese phone.
- p. Dr. Umamaheswaran: There is already some explanatory text on its use.
- q. Mr. Masahiro Sekiguchi: Our no vote is not based only on this comment.
- r. Mr. Michel Suignard: We can say not accepted and point to the existing notes.

Disposition: *Not Accepted.*

JP.G7 (general): Proposes alternative clearer explanatory text at the top of the name list for Miscellaneous Pictographic Symbols:

“Although the representative glyphs in this International Standard are consistently presented in black and white drawing, it does not prevent implementations from using graphic symbols with some specific colour or even with multiple colours, fully or partly animated graphics, or both. It should also be noted that the actual graphics shown on the code chart are informative as all other characters of this International Standard.”

Mr. Michel Suignard: There is no precise guidance on the use of colour in the standard. We have to state as to what to do with colours.

Mr. Masahiro Sekiguchi: What the editor has proposed (in document N3792) is fine with Japan. The liaison request from JTC1/SC34 (document N3809) has also asked for clarification, on use of colours etc.

Disposition: *Accepted in principle.*

Some minor edits to the text proposed by the editor were pointed out. See document N3828 for the wording of the final text. Use the final text in the liaison response to N3809 (from SC34).

JP.T8 (technical): Proposes name change of 1F4BE from "FLOPPY DISK", to "FLEXIBLE DISK CARTRIDGE" per usage in ISO/IEC standards. Proposed change:

Accept in principle.

Use Flexible Disk Cartridge as annotation. Floppy Disk is far more popular in usage.

JP.E9 (editorial): Proposes a corrected glyph for 2B778 (JH-IB0679), correcting an error in the TrueType font for CJK D submitted to the editor by Japan.

Accepted.

Mr. Michel Suignard: I need to get the corrected font before publication.

Mr. Masahiro Sekiguchi: I do have the font; but it is not indexed with UCS code point. It is IRG editor's own numbering.

JP.T10 (technical): Requests changes to glyphs and names to Emoji symbols as proposed in document N3778.

In the proposed disposition document, the editor corrected all shifted values between 1F62A and 1F63D to 1F62B-1F63E.

See also comments E3 from Ireland and T4e from US.

US support same changes for 1F61D and 1F62E.

Ireland supports same changes for 1F61C and 1F61D

Ireland has conflicting changes for 1F60D, 1F61F, 1F631

Mr. Michel Suignard: I have proposed acceptance for most of the name changes requested, also for the Glyph changes. The Emoji ad hoc is requested to take these into consideration.

Relegated to the ad hoc on Emoji. See section 9.2 on page 18 for *Emoji ad hoc report, discussion and disposition*.

JP.G11 (general): Requests consideration of concerns regarding Emoji symbols in documents N3776 and N3777 from interested parties

Item a: Concerns mapping to 2600, 2665, 2666, 267B, 2702, and 2764

Clarified the issue about colours earlier. *Accepted in principle.*

Item b: Concern on U+27BF DOUBLE CURLY LOOP mapping to "S-JIS code F984"; see also comment JP12.

Item c: Concern on glyph for U+1F35C STEAMING BOWL. Relegated to Emoji ad hoc.

Item d: Proposes changing name of U+1F4A7 from "DROP OF WATER" to "DROP OF SWEATS".

Accepted in principle.

Add annotation “also represents a drop of sweat” as suggested by Ireland should suffice.
Dr. Ken Whistler: change the name to DROPLET.

Item e: Concerns 26AA, 26AB, 2705, 1F0CF – ‘colour’ in the name and corresponding mappings.

Accepted in principle.

Black and White do not imply specific colors, see disposition of comment JP7 for further details.

Item f: Concern about glyph (front versus side of train) for U+1F686 TRAIN and mapping to Railway Car.

Accepted in principle.

Because glyphs are not normative, front or side view could be used. Remap to the KDDI character to 1F683 RAILWAY CAR.

Item g: Concerns mapping of U+267B BLACK UNIVERSAL RECYCLING SYMBOL to KDDI's character "F47D", which is not the Recycling Symbol.

Mr. Michel Suignard: Don't know what to do about this. We don't have a good solution for this; we may need a new character for this.

Relegated to Emoji ad hoc.

Item h: Proposes mapping changes for KDDI F65A, F6D5, F6D3, F6EA, F688

Mr. Michel Suignard: I propose non acceptance. Relegated to Emoji ad hoc to discuss with cross mapping issues.

See section 9.2 on page 18 for Emoji ad hoc report, discussion and disposition.

JP.T12 (technical): EmojiSrc.txt: Proposes removing the entry for DOUBLE CURLY LOOP:
27BF;F984;;F7B1"

See also comment JP11b.

Relegated to Emoji ad hoc to consider along with mapping issues.

See section 9.2 on page 18 for Emoji ad hoc report, discussion and disposition.

Japan's ballot position changes to Acceptance.

11.1.6 United Kingdom: Positive with comments

T.1. Reaffirms the support for A78F LATIN LETTER MIDDLE DOT as required for transliteration and phonetic transcription by scholars working with Phags-pa and Tangut.

See also comment T1 from Ireland and T1 from US.

Noted.

This was relegated to an ad hoc (see under comment T.1 from Ireland). The consensus was to remove it from this amendment and add to the next amendment or a future edition.

T.2. Reaffirms the spelling of ‘SULPHUR’ in names for Alchemical symbols 17F0D, 17F0E and 17F0F.

The ad hoc group of experts who discussed the Middle Dot also discussed this comment and comments in documents [N3813](#) and [N3818](#). The International Chemistry convention is to use SULFUR. The ad hoc consensus was to accept the US proposal to change SULPHUR (which was changed from SULFUR) back to SULFUR.

Disposition: *Noted.* Change SULPHUR to SULFUR in these names respecting the International Chemistry convention.

11.1.7 USA: Negative

If comments T.1, T.2, T.5, and T.6.a are accommodated, the U.S. will change its vote to Yes.

Technical comments:

T.1 Requests the removal of U+A78F LATIN LETTER MIDDLE DOT with justification provided in document [N3678](#); suggests the of already encoded modifier letter, U+02D1 MODIFIER LETTER HALF TRIANGULAR COLON, instead.

See also comment GB1 from UK and T1 from Ireland.

Accepted in principle.

The ad hoc on this topic recommended removing it from Amendment 8 for a future amendment or edition.

T.2. Requests the removal of 1BFA BATAK SYMBOL BINDU GODANG and 1BFB BATAK SYMBOL BINDU PINARJOLMA, citing insufficient evidence in document [N3320](#) for these two. See also comment E1 from Ireland and JP3 from Japan.

Mr. Michel Suignard: The comment brings us to the same situation as at the last meeting.

Discussion:

- a. Dr. Ken Whistler: We believe there is not sufficient evidence for these to be encoded as characters.
- b. Mr. Michael Everson: The Irish document does show examples of these as text elements. People who use these know they occur in palm leaves. We have similar ones encoded in Sundanese also. The people who are using this script on computers have stated that these are useful things. You can certainly ask whether there are more of these etc. The US national body keeps stating that these are not characters.
- c. Mr. Peter Constable: The example shows what is drawn on palm leaf.
- d. Dr. Ken Whistler: Alright, I will ask. Are there more characters needing further study? This script is already encoded. We are talking about two characters. We can agree to move these two characters out of the current amendment. They do not have a history of typography, and there may be more of these.

Disposition: *Accepted.* Remove the TWO characters from current amendment, for further study along with possible such additional characters.

T.3. requests changing SULPHUR to SULFUR in the names for three Alchemical symbols 1F70D, 1F70E and 1F70F to reflect approved spelling by the International Union of Pure and Applied Chemistry (1990) and the Royal Society of Chemistry. It is also the consensus spelling used internationally.

See also comment GB2 from UK.

Per ad hoc discussion *Accepted* to use SULFUR instead of SULPHUR for these three Alchemical symbols.

T.4. Emoticons

Item a. Requests adding 1F62A NEUTRAL FACE detailed in document [N3769](#).

This character is also requested by Ireland in its comment T5.

Relegated to Emoji ad hoc, with a suggestion to accept the input.

Item b: recommends name changes suggested in [N3711](#) for 15 emoticons.

See also comments T4 from Ireland and JP10 from Japan. All the changes requested by the US are included in Japan's comment JP10. Document [N3711](#) was superseded by [N3778](#), which has the code points for value 1F62A and above off by one (e.g. 1F62A should read 1F62B).

Relegated to Emoji ad hoc, with a suggestion to accept the input.

Item c: recommends different name changes for 1F60E and 1F605 than in document [N3711](#), along with rationale for the recommendation: e-32E=U+1F60E FACE WITH MEDICAL MASK, and e-325=U+1F605 FACE WITH COLD SWEAT

See also comments T4 from Ireland and JP10 from Japan. Document [N3711](#) was superseded by document [N3778](#), which recommends the same name as the US for these two characters.

Relegated to Emoji ad hoc, with a suggestion to accept the input.

Item d: Requests a change to the glyph U+1F61D CONFOUNDED FACE, suggesting removal of the squiggle over the head.

Relegated to Emoji ad hoc with a proposed acceptance.

Item e: Requests a glyph change to U+1F62E CAT FACE KISSING, correcting the shape of the mouth. See also comments T6 from Ireland and JP10.

Relegated to Emoji ad hoc, with a suggestion to accept the input.

See section 9.2 on page 18 for Emoji ad hoc report, discussion and disposition.

T.5. Emoji mapping data

Item a. An error in [N3728R](#) - , ISO 3166 code is "GB" and not "UK"; so the mapping data needs to be

changed from: 1F1FA 1F1F0;;F3D1;FBB0 to 1F1EC 1F1E7;;F3D1;FBB0

Accepted.

Item b: Proposes text to be added in the header of the EmojiSrc.txt file, [N3728R](#):

Mr. Michel Suignard: I have a question as to whether an abstract of the text is to be added also in clause 26.4.

Mr. Peter Constable: If nothing else, the fact that additional columns may be added should be added to clause 26.4.

Accepted to add the proposed text, in addition to the text for Japan's comment; and to include a condensed version in clause 26.4.

T.6. CJK

Item a: Notes that 3 CJK sources are being mixed together in G_GF[H]ZB. Proposes that instead of citing "G_GF[H]ZB," the other two sources, G_XC and G_CY, should be cited.

Mr. Michel Suignard: No new source should be added if they contain characters from a source already represented. We have a new source now. It so happens this is a union of some existing sources. The G sources are difficult to manage. I had discussion with Chinese national body on this. They will think about it and get back to us.

Discussion:

- a. Mr. Chen Zhuang: Several of these sources are publicly available in China. We would like to keep these in the standard.
- b. Mr. Michel Suignard: You already have them.
- c. Mr. Chen Zhuang: For some of these we could merge them. However, it is better to keep the current information as is. Some of these are in governmental documents and it would be easier for people to find these.
- d. Dr. Ken Whistler: Another way of looking at it is that it is another index from some set that has a subset. They have a set of numbers to identify elements of that set. Similar to IICORE with numbers in that set.
- e. Mr. Michel Suignard: They are using the numbers to identify the characters in extension D. They are also part of dictionaries that are currently used.
- f. Mr. Masahiro Sekiguchi: One point is what Dr. Ken Whistler just mentioned. The purpose to keep the numbers in the standard was to show where these came into the standard at the beginning of the standardization. I think I understand China's requirement to identify the sources to the government approved sources. IRG has discussed this. I don't object to the idea. However, you need to state why you need new sources etc.
- g. Mr. Chen Zhuang: We are not going to change the identifier. We have submitted the information to IRG. The US request is to change the original sources.
- h. Mr. Michel Suignard: G_GF[H]ZB has three merged sources. The first one is new. The other two already exist – we should identify those that came from these.
- i. Mr. Eric Muller: We cannot have more than one G source; two characters coming from one dictionary; one is identified with that dictionary, but the other one is from some other source. The request is to identify the missing ones.
- j. Mr. Peter Constable: You are accepting the comment in principle. When you expect the results to be in the FCD?
- k. Mr. Michel Suignard: I could get the information from Unihan for G_HC (for extension B). But I would need another source to verify the correctness. If I get the information this week, I could add to the FCD. We have been updating the source information as and when updated information is available.
- l. Dr. Umamaheswaran: These show up in the CJK charts also. It could be bundled up as part of the review of the charts.
- m. Mr. Michel Suignard: They do show in charts – IRG countries will have opportunity to verify these. China and Japan have convinced me to do something different than what we have discussed so far. The rationale for doing something in extension B is the government documentation, not the dictionaries. If we keep the sources as is, I can add a note to indicate that dual entries may be present for some characters. Clause 23.2 has the rationale for sources for characters, not

necessarily for dictionaries.

- n. Mr. Chen Zhuang: G_GFHZB will have a new description mentioning the new source from Chinese government instead of mentioning the dictionaries.
- o. Mr. Masahiro Sekiguchi: The definition will be the name of the government publication.
- p. Mr. Michel Suignard: The confusion was about having dictionaries also included. We will use GFH instead of G_GFHZB.

Mr. Chen Zhuang checked with experts in China and sent email to the editor. Based on that GFH will go away with new mappings to existing sources.

Disposition: *Accepted in principle. The GFHZB indexes are replaced by GCH, GXC, GZH, and GIDC.*

Item b: Strongly requests that all sources should have a numeric value, and this information be provided as soon as possible to the Project Editor. Some sources with numeric values are easily available, such as Hanyu Da Zidian.

Mr. Michel Suignard: This is about numeric value. This information was already requested at the last WG2 meeting by the editor. There are sources with no indexes. I discussed these with the Chinese national body. For two of the sources they can do something about – for GCH and GHZ. But CH and FZ are private, vendor-specific etc. and they don't have source indices for these. Some of these are now being reverse mapped from UCS, like the early Korean case we discussed at the last meeting.

Discussion:

- a. Mr. Masahiro Sekiguchi: I think we should it get checked before we add it to UCS.
- b. Mr. Michel Suignard: For GHZ, we can do some of the comparison; Unihan has the information. The question is – who will do the review?
- c. Mr. Mike Ksar: IRG should be requested.
- d. Mr. Michel Suignard: Revisit .. clause 23.2 - G4K and GCY don't even have a numeric value. The others having numeric value or not, are mixed. For extension C we have numeric value. But not for extension B. Some sources have been referenced partially. I would like these to be completed. The same source has two different syntaxes today.
- e. Dr. Ken Whistler: We can ask China for all the source data and report to next WG2. Also identify the difficulties encountered.
- f. Mr. Chen Zhuang: For those with dictionaries we can get the numeric values. But for the others it is going to be difficult for us. We don't know how many characters are involved (ref: Page 39 .. of FCD). Intermittent results can be provided for IRG to review and comment. More complete list to be provided by next WG2 meeting. New input is provided in document N3831.xls mapping for extension D sources.

Disposition: *Accepted in principle.*

The editor will incorporate these updated values when provided by IRG editors.

E.1. Requests an annotation for 0D4E MALAYALAM LETTER DOT REPH: "not used in reformed modern Malayalam orthography."

Accepted.

E.2. Request an annotation for e-814=U+1F3B6 MULTIPLE MUSICAL NOTES "x beamed eighth notes 266B".

Accepted.

The US ballot position changes to Acceptance.

Relevant resolutions:

M56.02 (Character deletions in Amd. 8):

Unanimous

WG2 notes moving the following three characters from Amendment 8 to the collection of characters accepted for a future amendment:

- A78F LATIN LETTER MIDDLE DOT
- 1BFA BATAK SYMBOL BINDU GODANG
- 1BFB BATAK SYMBOL BINDU PINARJOLMA

M56.03 (Progression of Amendment 8):

Unanimous

WG2 notes and accepts various name changes, glyph changes, annotation changes and changes to code positions of characters resulting from the disposition of FPDAM8 ballot comments, which incorporates results of resolutions M56.01 and M56.02 above. WG2 instructs its project editor to forward the final text of Amendment 8, along with the final disposition of comments document N3828 to the SC2 secretariat for an FDAM ballot. The final set of charts and names list are in document N3838. The unchanged target starting date is FDAM 2010-06.

(Note: There will be a net of 1862 characters added in Amendment 8).
All the changes to Amendment 8 will also be reflected in the text of the second edition.

11.2 FCD for second edition

Input document:

[3793](#) Draft disposition for fcd10646; Project Editor - Michel Suignard; 2010-04-16

Output document:

[3827](#) Disposition FCD Updated at meeting 56; Project Editor – Michel Suignard; 2010-04-23

Document N3793 contains the editor's proposed disposition of comments. It includes the full text of the original comment, its proposed disposition and points where WG2 discussion is needed.

11.2.1 Armenia: Positive with comments

Mr. Michel Suignard: Happy to note Armenia participated and commented. However, the comments are on character additions. Armenia has requested addition of NUMERO SIGN, DRAM SIGN, ETERNITY SIGN and MIDDLE DOT SIGN as part of their ballot comments. Additions are not part of FCD. At least one of them – the Dram Sign -- is on the agenda. Others are out of scope.

(See section 10.10 on page 22 for discussion and disposition on the proposal for Dram Sign.)

Disposition: Out of scope.

Armenia can submit contributions on new characters besides the Dram sign.

11.2.2 Canada: Positive with comments

Editorial: Points out discrepancy in use of parenthesized annotations in Guideline 11, compared to the changes that have occurred under the characters in the code chart.

Mr. Michel Suignard: This is related to the changes we did in the names lists. The notation for annotation etc. has been changed. There are quite a few more than what Canada has pointed out.
Accepted.

11.2.3 China: Positive with comment

The fonts of Multi-column code charts of CJK Main Block should be corrected according to IRG suggestions. The suggestions are hopefully be available after IRG#34 in June, 2010.

Noted.

Mr. Michel Suignard: Those that are stable should be OK. The remainder should be stable as soon as possible. The delay should be only for those that are not stable.

11.2.4 Ireland: Negative

Mr. Michel Suignard: I would like to remind the Irish national body that a ballot answer containing only editorial comments should not be negative.

Discussion:

- a. Mr. Michael Everson: We could have marked them as technical; we think the comments are important enough.
- b. Mr. Masahiro Sekiguchi: If it is a procedure issue, I would like to state that you cannot say what you mentioned. The directive gives right to vote yes or no on any issue, even if the comments are editorial.
- c. Mr. Michel Suignard: I will take back my comment. I still think it is improper.
- d. Mr. Alain LaBonté: We have to respect the national bodies as well.
- e. Mr. Michel Suignard: I think national bodies also should respect what we do in the working group.

- E1, E2, E3, E4, E5, E6, E10, and E11. Recommends that a uniform Times-like font be used for the glyphs in this block for Rows 0008, 0010, 0018, 0025, 002B, 0030, 01E0, 0200, and the seven Latin glyphs in Row FB0
- E7, and E12. Recommends that the updated Keft from the International Association for Coptic Studies be used for the Coptic glyphs in row 037 (03E2..03EF) and for row 02C8.
- E8, E9. Recommends the font used in the charts provided with the comment be used for Rows 00D0: Malayalam and Row 00E8 Lao.

Mr. Michel Suignard: C0, Basic Latin chart should also be included. Missing in the comment. In principle I would suggest we wait for the Latin script. It is risky at this point. The proposed charts are very different from the current ones. We may be able to propose some changes.

Discussion:

- Mr. Peter Constable: For Malayalam there would be value for improving the fonts. At the same time we do include several examples in the Unicode standard book. At this point we prefer not to see the change in fonts because it is used for beyond the charts. From the Unicode consortium perspective our feedback is not to change the Malayalam fonts at this time.
- Mr. Masahiro Sekiguchi: I am not opposed to the proposed changes. This is the FCD ballot resolution. If we change the fonts at this time for FDIS stage, some national bodies that would have approved the FCD based on current code charts may not be comfortable with changes in the code charts being very different from FCD. I don't think we should do this kind of change at this moment. I think we need at least one technical ballot for these kinds of changes.
- Dr. Ken Whistler: I did an extensive review of these .. For Latin, my assessment is that it is very good proposal, but a few things need fixing. Another round of review would be needed -- the direction of consistent font for the Latin set is good. I think we should move on Lao – it is a clear improvement on what we have on the standard. The Coptic is a case with updated fonts in the amendments. It should be OK.
- Mr. Michel Suignard: We can then accept the Irish comment on Lao and Coptic right away. Rest we can propose for further review.
- Mr. Michael Everson: What is the process for making it happen?
- Dr. Ken Whistler: We could make separate document and send it for national body review for the next amendment. It will not hold up the publication of the current edition.
- Mr. Masahiro Sekiguchi: I have instruction from Japan national body that the second edition for FCD is to request for a second FCD. If we do go for a second FCD, then I will have no objection to include these proposed changes in the 2nd FCD.
- Mr. Michel Suignard: There is an editorial phase and a technical ballot phase. The charts should be dealt with in an editorial fashion. Once we decide what we do for CJK we can revisit the charts for others proposed by Ireland, besides Lao and Coptic.
- Dr. Deborah Anderson: One of the punctuation sign for Coptic is different from what is currently published.
- Mr. Michael Everson: There is one punctuation sign has to be fixed – currently published glyph is not correct.
- Mr. Michel Suignard: If the glyph is changed significantly Errata mechanism could be used. If the experts are convinced the change is valid we should move on. Otherwise we need another amendment.

Disposition:

Accept E.7, E.9 and E.12 – for now. Invite Ireland to include a new proposal for WG2 consideration.

Mr. Michael Everson: Ireland changes its ballot to Acceptance.

11.2.5 Japan, Negative

JP.1 (Editorial): Suggests changing almost all use of "ISO/IEC 10646" to "this International Standard" (with capital "I" and "S"), except for those appearing in the introductory texts in 4 Terms and definitions to be in accordance with clause 6.6.7.2 in ISO/IEC Directives, Part 2

Mr. Michel Suignard: This has been in the standard for a long time. I understand the changes I need to do.

Accepted.

JP.2 (General), JP.3 (General), JP.4 (Editorial), JP.5 (editorial), JP.6 (Editorial) and JP.7 (Editorial) were all *Accepted*, with no discussion.

JP.8 (Editorial): Proposes changing "must" to "should" in the first paragraph under 12.1; refers to Annex H in ISO/IEC Directives, Part 2.

Accepted.

Mr. Michel Suignard: We should be saying either SHALL or SHOULD based on the context; not MUST. 'Should' is still pretty strong in terms of the ITTF terminology.

JP.8-bis (Editorial): Proposes changing "should" in the second sentence to "shall" in 20.7.

Accepted.

JP.9 (Editorial): Points out error in clause referencing "0 and 23.4" in 23.1, 2nd paragraph

See also Korean comments T6 and T7.

Mr. Michel Suignard: I missed some of the earlier instructions on acronym changes (disposition of comment JP9 to the CD ballot). Korea pointed this out.

Dr. Ken Whistler: Please note the source update for GFH2B to GFH from FPDAM8 dispositions.

Accepted in principle.

JP.10 (Technical): Remove '2009' for Hanyo-Denshi Program reference in 23.1, second paragraph.

Accepted in principle.

We will use 2002-2009 (see discussion and disposition under FPDAM8 comment JP.T2 in section 11.2.5 on page 31).

JP.11 (Editorial): Propose removing a duplicate entry for 4E17 in source reference presentation in 23.1.

See also Korean comment T12.

Mr. Michel Suignard: This is production issue. The process is partially automated and partially manual. In the future I may take a snapshot from the pdf of the charts and insert in the text. It is fluid during the dynamic state of the charts in FCD stage. It will get fixed.

Accepted.

JP.12 (Editorial): Proposes changing "41CB-41CC, 41DC, and 41EE" to "41CB-41CC, 41DC-41DD, and 41EE" to include the missing 41DD to be aligned with the figure, in 23.3.2.

See also Korean comment T13

Mr. Michel Suignard: This is also a production issue.

Accepted.

JP.13 (Editorial): Proposes replacing an open square glyph on the entry for 41DC with an appropriate K-source glyph in Figure 3 in 23.3.2.

See also Korean comment T13.

Mr. Michel Suignard: This is also a production issue.

Accepted.

JP.14 (Editorial): Proposes changing “must” to “shall” in 24.5 on Name uniqueness.
Accepted

JP.15 (Editorial): Proposes to replace syntax of USIs in "NUSI.txt" file in clause 25, with the format for "2nd UCS sequence as defined in 6.6."

(Also see comments JP31 and JP32.)

Mr. Michel Suignard: In the previous version we had the explicit list. Then we changed it to a reference to Unicode. That was not acceptable. We grabbed the text from Unicode sources; but the format is different from the rest of the format of the standard. It would be nice if Unicode also uses the same format as needed by ISO/IEC 10646. The format has to be in line with formal definition of NUSI. I will work with Unicode consortium to get the format synchronized between UAX 34 and the standard.

Action item: Project editor and Liaison from Unicode to synchronize the format for NUSI.txt to be acceptable to both Unicode and 10646.

JP.16 (Editorial): Suggests removing Note 3 in clause 25 due to synchronization issue with UAX 34.

Mr. Michel Suignard: On page 48, there is a link (unversioned link). These may not be in synch in the future. The intent of the note (informative) was to keep a loose link for versions, unlike the normative references.

Discussion:

- a. Mr. Peter Constable: Links are available for specific versions of UTR documents if we need them. However, what is not clear is the synchronization point.
- b. Dr. Umamaheswaran: it would be possible to keep the link if we need to keep them.
- c. Mr. Peter Constable: One could refer to Unicode 6.0 and the associated UAX.
- d. Mr. Masahiro Sekiguchi: The synchronization issue is what is concerning us. A link would be convenient to the users. A sentence like what Mr. Peter Constable said would be convenient.
- e. Lisa Moore: I think we can provide the correct link that is stable to a specific version of the UAX or UTR etc.
- f. Mr. Michel Suignard: We have done that for normative references.
- g. Dr. Umamaheswaran: I have done that for the Roadmaps to specific versions.
- h. Dr. Ken Whistler: At this time we would not know what the exact links will be, but they are not there for Unicode 6.0 yet. They exist as drafts now, but the final links will be available later.
- i. Mr. Masahiro Sekiguchi: It is important to have a valid link to an existing document and that could be updated at the final publication stage to synch with the final version. One could add a note in the documents to point out that the referenced document
- j. Mr. Michel Suignard: We do have informational note in current FPDAM8 text. But we cannot carry this forward to FDIS draft.
- k. Dr. Ken Whistler: Japan's concern is about Unicode's publication process. What we are looking at is how to synchronize what is referenced in the FCD to the corresponding referenced text in the Unicode side. Can we have a standing document for WG2 which keeps the normative references in 10646 which will resolve correctly for review purposes?
- l. Mr. Michel Suignard: We have gone through this process for FDAM texts; for example Amendment 6 FDAM. ITTF is comfortable with the process we used. I think the problem raised is already dealt with in the process. Until now, we could review these in FCD etc.
- m. Dr. Umamaheswaran: The notes that existed in the FCD level are useful for review.
- n. Mr. Michel Suignard: But these notes will not be in the FDIS stage.
- o. Dr. Ken Whistler: Unicode has stable links for Drafts for documents that are there for updates etc. These don't need bumping version numbers. The stable links – proposed.html will be proposed updates. The standing document could be TRxx/proposed.html, which will resolve to a document under current review or it will point to the latest approved version. The URLs

don't have to be updated during the review process. The URL could be to TRxx/proposed during the review. But in the final publication you replace with the synchronized final version – like TRxx/TRxx-vv.html.

- <http://www.unicode.org/reports/tr15/> corresponds to Approved TR.
 - <http://www.unicode.org/reports/tr15/> corresponds to Approved TR (currently Unicode V5.2)
 - <http://www.unicode.org/reports/tr15/tr15-32.html> corresponds to Proposed update for Unicode V6.0.
 - <http://www.unicode.org/reports/tr15/proposed.html> will point to a proposed update if it exists; otherwise, points to an informative empty pointer document.
 - <http://www.unicode.org/reports/tr15/tr15-33.html> corresponds to final approved version for Unicode 6.0 – not yet published.
- p. Mr. Michel Suignard: we could use /proposed etc. in the links at FCD etc.
- q. Mr. Masahiro Sekiguchi: We do have a reasonable process in place already. The comment from Japan is about normative references to Unicode publications. The intent of comment from Japan is not to have yet another process in place. I understand majority of WG2 experts want to keep the links as useful. A simple process is that we should follow the same process as we follow for the Normative reference links. Use latest available during the FCD process etc. and update to the final version at the FDIS stage. If it can be improved further it will be good, but it is a different issue than the comment from Japan.

Disposition: *Accepted in principle.* We will follow the process we use for normative references. For future amendments we can use the new stable links for Unicode publications – for example: www.unicode.org/reports/tr15/proposed.html; to be replaced with www.unicode.org/reports/tr15/tr15-33.html (for version 6.0 -- not yet published).

JP.17 (Editorial): Proposes removing asterisks after "New Tai Lue" in Figure 6 in clause 26, and before "NOTE 1" to be in accordance with ISO/IEC directives regarding references to notes in figures.

Accepted in principle.

Mr. Michel Suignard: The ITTF style will be followed. There are more changes than what Japan had proposed.

JP.18 (Editorial), JP.19 (Editorial), and JP.20 (Technical) were all *Accepted* with no discussion.

JP.21 (Editorial): Proposes changing NOTE 2 to NOTE in 29, counting the NOTE against Figure 9 separately.

Accepted

Mr. Michel Suignard: I will follow the ISO style. There are more changes related to this; figure notes are different from notes in text; they have their own numbering spaces.

JP.22 (Editorial): Proposes changing NOTE 3 to NOTE in 29, for the NOTE to Figure 9.

Accepted

JP.23 (General): Requests reverting the charts for CJK Unified Ideographs and its Extension blocks to the ones used in previous edition and amendments, due to concerns about the low quality of the glyphs in the charts.

Mr. Michel Suignard: This item could easily take up the entire meeting. I share some of the concerns expressed by Japan. Extensions C and D should be out of scope for the comment. FCD uses exactly the same charts as in the Amendments for these. Extension A has been stable too. The main block is more complicated. It is not easy to move the 2003 version simply into the current edition. The problems are related mostly to Extension B. I would like to treat the quality aspect of Extension B and the other blocks separately. From the process point of view, if we get approval for the textual part we are through with technical ballots from the view point of the ISO. I agree that the

charts still have some concerns. It could be considered as a separate editorial process to clean up the charts before we transmit these to ITTF for FDIS. I would like to have an ad hoc discussion on these.

Mr. Mike Ksar: All the IRG members and the IRG rapporteur should be there for the discussion. As the editor mentioned we should probably deal with the BMP and Extension A as one step of verification; and Extension B as another step.

Mr. Michel Suignard: We had an ad hoc regarding the CJK charts addressing Japan's concerns. The ad hoc recommends to go with single column chart for Extension B, all the other CJK unified blocks will be multiple-column with the fonts that have been provided by IRG members to the editor.

Disposition:

In the final disposition document:

*"To progress the FCD to FDIS with CJK multi-column charts, the following plan is adopted:
A CJK multi-column chart including all CJK blocks using most up to date fonts will be provided to IRG member before or by April 23rd 2010. In addition, a CJK single-column chart including CJK Unified Ideographs Ext. B will also be provided to IRG members with the resources used for the previous edition.*

These two sets of chart will be reviewed by IRG members by the next IRG meeting (June 2010, Japan), and a new set of corrected charts (as appropriate) will be produced for a two month review. Assuming that no major deficiency remains, the result will be sent to ITTF by end of August for FDIS process."

Relevant resolution:

M56.04 (CJK Charts for FCD of 2nd Edition):

Unanimous

WG2 decides to revert back to the single column format for CJK Unified Ideographs of Extension B for the 2nd edition. WG2 further instructs its editor and the IRG to review, verify and finalize the multiple-column charts for CJK Unified Ideographs in blocks other than Extension B.

JP.24 (Editorial): Proposes a replacement glyph for 1B000 (KATAKANA LETTER ARCHAIC E)

Mr. Michel Suignard: The glyph proposed in comment from Japan is not using the same style for other Katakana characters. What is in Amendment 7 is what the contributor of the proposal wants it to be. I would like interested parties to discuss and get an agreed upon shape.

Discussion:

- a. Mr. Mike Ksar: Mr. Nozomu Kato has sent me another proposed set of glyphs. He is not a member of the Japan national body. I can forward the information to Japan national body.
- b. Mr. Masahiro Sekiguchi: Japan did make comment on the glyph shape in Amendment 7. Our understanding was that WG2 had used the shape provided by Japanese national body.
- c. Mr. Michel Suignard: The shape was modified in Amendment 7 keeping in mind the style aspect with respect to the other Katakana shapes. FCD has the shape that is currently in FDAM 7.
- d. Mr. Masahiro Sekiguchi: The shape that is proposed is an ancient form from a font designer in Japan. It is not easy to produce the ancient Kana character in the same style as the existing Katakana character. That is the Japanese view.
- e. Dr. Ken Whistler: In response to the Japanese position, it is possible – not impossible as mentioned by the Japanese expert - to create a glyph which is consistent with the current Katakana characters in style. It is different from stating that it is not desirable. There is a range of forms in which this character can be represented. Personally doing it either way is fine.
- f. Mr. Michel Suignard: I would prefer the proposer and Japan national body discuss this and come to a consensus. The final shape can be introduced into the font used for the chart.
- g. Mr. Masahiro Sekiguchi: The glyph in comment from Japan is a bit map. It is in the draft for FDAM7 .. but was changed to what is in FCD before sending it to ITTF.

- h. Mr. Eric Muller: Yes it is possible to invent a shape in the style in harmony with the current style. But that does not seem to be what Japan wants.
- i. Mr. Michael Everson: That would be a reason.
- j. Mr. Masahiro Sekiguchi: I will contact the author of the alternative proposals.
- k. Mr. Michel Suignard: I have font for both shapes .. whichever way we decide to go.
- l. Mr. Masahiro Sekiguchi: We know that the glyph style does not match what is in UCS. But scholars who want to use this character do not recognize the shape as is in UCS.
- m. Mr. Michel Suignard: I understand what Japan's concern is. I will work with Mr. Michael Everson and come up with a revised glyph. I will pass it by the national bodies before we include in the charts. You had the same comment on Amendment 7 also. It is a little more complicated to fix Amendment 7. Japan made a comment in FDAM 7. If it is a point that we must fix it in Amendment 7 please let me know.

Disposition: *Accepted in principle.*

JP.25 (Editorial), and JP.26 (Editorial) were both *Accepted* without any discussion.

JP.27 (Technical): Proposes changing "must" to "most likely" in the first paragraph in Annex F.7.3
Accepted in principle.

The editor would prefer a replacement to "should".

JP.28 (Editorial), JP.29 (Editorial), and JP.30 (Editorial) were all *Accepted* without any discussion.

JP.31 (Technical): Points out the list of missing NUSIs added by Amendment 7 in the "NUSI.txt" file.
Accepted

JP.32 (Editorial): Proposes the syntax for USIs in "NUSI.txt" file does not follow the ISO/IEC 10646 syntax for USIs.

See discussion under comment JP15 above. *Accepted in principle.*

Mr. Masahiro Sekiguchi: Japan has considered the dispositions (including the ad hoc recommendation on multiple column charts). We change our vote to Acceptance.

11.2.6 Korea (ROK): Negative

Note: Comments T01 to T03 were accepted in disposition of comment for CD of 2nd edition [SC2 N4079]; however, these changes have not been reflected in 2ed FCD.

T01 [CD-KR.T8]: Requests changing cae-om to chaeum for 3164 HANGUL FILLER on p368.
Accepted - chaeum (without the space)

T02 [CD-KR.T9], T03 [CD-KR.T13], T05, T06 and T07 were *Accepted* without discussion.
There is no T4. T06 and T07 (Error in data files) is similar to comment JP9 from Japan.

T08: Proposes rewording of Note 3 to be clearer, on page 40, right before 23.2

Mr. Michel Suignard: We had a discussion on this topic, on a comment from Japan. It was with respect to a new reference rather than a new edition of an old reference. We said that we could not do it – that a new reference may have changes that were incompatible with the reference it replaces. We can do an update only if the new reference does not change anything for the old. The note was to point this out. I can understand the view of Korea from the old Korean sources. The change proposed by Korea will invalidate Japan's case.

Discussion:

- a. Dr. Ken Whistler: One thing you could fix is to move Note 3 from where it is to the top of the list. This would first address the concern regarding item 1, raised by Korea. It is misleading as it is now.

- b. Prof. Kyongsok Kim: The wordings are confusing as it is written.
- c. Dr. Ken Whistler: If 9th edition of KangXi dictionary is the reference for a standard, and if a 10th edition of KangXi dictionary is published, the reference in the standard will remain pointing to the 9th edition and not the 10th edition.

Disposition: Partially accepted.

Note 3 will be reworded and moved to beginning of the list of sources for Hanzi.

NOTE 3 – Even if there is a new version of the source publication, the existing source reference information in the data files will not be updated. The updated source may only identify characters not previously covered by the older version. The note numbers have to be correspondingly updated.

T09 Requests clarification on radical and alternate radical that are in the data file but not in the text of the standard (page 40, 23.2, radical, alternate radical)

Mr. Michel Suignard: The information is in the data file, but not in the text of the standard.

Discussion:

- a. Prof. Kyongsok Kim: Is alternative radical a simplified version of traditional?
- b. Dr. Lu Qin: It is an alternative.
- c. Dr. Ken Whistler: UAX expand to Unicode Standard Annex, not Unicode Standard UAX #38. Similar edits elsewhere where UAX, UTR etc are referenced in the FCD.

Disposition: *Accepted.*

T10: Proposes changing 4 digits to six digits in G source references (such as GBKdddd to GBK ddddd) on page 41, G source.

Accepted

T11. Proposes correcting error to recognize K0 ~ K3 do decompose in section and position values, whereas K4 and K5 indexes do not, on page 41, in Note 4. right above 23.3

Accepted in principle.

Mr. Michel Suignard: Not too many national bodies have found such issues. I appreciate the time Korean national body has spent on this.

T12, T13 and T14 were all *Accepted* without any discussion. These are all errors due to production process used, and will be fixed.

T15. Suggests adding separate clause 23.5 for CJK compatibility ideographs, on p. 43.

Mr. Michel Suignard: It is nice to have these. There are some unified CJK characters that are in the CJK Compatibility area. There is some more comment re: charts for the CJK compatibility ideographs. A multicolumn format is being worked on. The content is not changed; but will be described in a new clause. If there is a peer review we may be able to push into the FDIS. For further discussion with US comment.

Discussion:

- a. Mr. Peter Constable: New clauses are being proposed for documenting what is in the current standard. New clause 23.5 is proposed.
- b. Mr. Michel Suignard: Will propose new text for this clause.
- c. Dr. Ken Whistler: Text for a new clause is proposed by Japan in JP.20.

Disposition: *Accepted*

T16. Proposes changing 'additional information' to 'annotation' on pages 46~47.

Mr. Michel Suignard: Additional information for Hangul syllable is now provided only in Annex R. It is not an annotation in the code charts.

Discussion:

- a. Mr. Masahiro Sekiguchi: The annotation was originally short parenthesized phrases next to the character name. The Hangul information was in a separate annex R, in a table form and list form. My preference is to use the term annotation.
- b. Mr. Michel Suignard: I can go with using annotation.

c. Dr. Ken Whistler: You can accept as proposed by Korea.
Disposition: *Accepted*.

T17: Proposes adding 'or 004C L' to annotation in U2113 as another SI recommended symbol for Liter, on page 263,
Accepted

T18. Requests changing glyphs on pages 380 and 384 for U3395 uL, U3396 mL, U3397 dL, and U3398 kL; to use uppercase L instead of using script small L.

Mr. Michel Suignard: These are in the standard for compatibility with several vendor sets and matching some of the current fonts in use. These are meant to be used for compatibility reasons. Fixing these glyphs is not helping in the compatibility of shapes in the applications arena.

Discussion:

- a. Mr. Rouzbeh Pournader: Decomposition of these can also create security related issues in terms of using small L versus large L etc.
- b. Mr. Masahiro Sekiguchi: The most important point from Korean perspective is that they are changing the Korean standard to use the kL instead of kl etc. My personal opinion is that for new characters we could use the ISO formats – based on request for additional characters in support of Korean standards. It should not be part of the FCD comment.
- c. Prof. Kyongsok Kim: We discussed all possibilities. If these glyphs can be changed we will try that first. If it cannot be done we will propose as separate contribution.
- d. Mr. Masahiro Sekiguchi: Sometimes the national bodies would like to make their standards compatible with UCS. Do you have a requirement about UCS direction for national standard before you change the national standard or not?
- e. Prof. Kyongsok Kim: Korea has already decided to change the glyphs in the Korean standard.
- f. Mr. Mike Ksar: One should harmonize national standard with UCS.
- g. Prof. Kyongsok Kim: In Korean national body we expand it to mean what these symbols represent.
- h. Mr. Michel Suignard: I would suggest Korea use lower case l in their standard to make things easier.

Disposition: Prof. Kyongsok Kim: Korea: Korea will withdraw this comment. If we have a new requirement we will come up with separate proposal.

T19, T20, and T.21 were *Accepted* with no discussion.

T22. Proposes changing references on p. 2129 Annex S.16; to: KS X 1001:2004 (previously KS C 5601-1989), KS X 1002:2001 (previously KS C 5657-1991), because KS C has been changed to KS X.

Mr. Michel Suignard: There are some editorial issues with respect to the format used compared to what is in 23.1 (even though we do not say full names in clause 23 on page 40).

Discussion:

- a. Mr. Masahiro Sekiguchi: Annex S has spells out the old name .. based on which version was used in relation to Unification rule.
- b. Mr. Michel Suignard: The other sources between Annex S and clause 23 between G, J, and T they match. But the K sources seem to be different. The text in clause 23 and Annex S has to be looked at. There is more work to do aligning the notations between clause 23.1 and Annex S.16.
- c. Dr. Ken Whistler: Please refer also to Unicode standard on page 1159, which has some bibliographic information, while working on the rewordings.

Accepted in principle.

T23.T24, T25 (similar to JP.30) and T.26 were *Accepted* with no discussion.

T27. Points out that there are five duplicate source references GKX0000.00 in CJKU_SR.txt.
Mr. Michel Suignard: These are set of Ext. B characters that don't mean anything without any source references. I created a dummy reference for these.

Dr. Umamaheswaran: Suggest adding a note about the notation used ... to avoid future such questions / comment. Suggested text:

Clause 23.2

Note: A source reference 'GKX0000.00' is used as a notation to indicate that the ideograph has no identified source reference.

Disposition: *Noted – a note will be added.*

T28. There are two duplicate source references to GKX0809.20 in lines 27528 and 48450 of CJKU_SR.txt

Mr. Michel Suignard: Korea found duplicates. A Japanese expert had checked and the first line should be GKX0809.02 instead of .20. I will double check with other sources that this information came from.

Disposition: Change first line from .20 to .02. Check for any other duplicates. *Accepted.*

T29. Requests for several annotations to the 50 characters U3131--U318E, similar to U3181 or U3186; for U302E and U302F; and rewording of annotations to U3181, U3186;

Mr. Michel Suignard: Not sure if these belong in the nameslist associated with the charts. The information could go somewhere else than in the nameslist.

Dr. Umamaheswaran: One could consider Annex R.

Prof. Kyongsok Kim: There was no annotation in the previous edition. Two annotations were added, and we requested for more at the CD ballot. These were not accepted. We will withdraw all of T.29 comment at this time.

Withdrawn.

T30. Proposes a suggested modified presentation format for CJKU main table, with rationale.

Mr. Michel Suignard: We don't have Macau entries for the main block; the KP entry is blank now. What Korea has proposed is feasible. H column could probably move inline. I need to coordinate with the contributing editors for the multiple column charts. Any chance KP source is going to come .. from DPRK?

Dr. Lu Qin: No DPRK experts are not participating in IRG.

Prof. Kyongsok Kim: The code points will not start with 00xx etc.?

Accepted in principle.

T31. Notes that Annex P is missing in the second edition; and proposes text for transliteration related notes for insertion between the bottom of Table 5 and the title of Section 25 on page. 47.

Mr. Michel Suignard: Annex P is gone in the new edition. The notes can be added below Table 5 section 24.7 where we explain the Hangul syllables and Hangul Jamo short names. The notes 1 and 2 above are slightly reworded versions of what we had in the first edition. The note numbering will be rechecked.

Note 1. The I and F strings in Syllable name elements of Table 5 correspond to the Hangul Jamo short names shown in annotations in the code chart after the names of the Hangul Jamo characters in the ranges 1100 to 1112 (except 110B) and 11A8 to 11C2. The short names are transliterations of these Hangul characters.

Note 2. I and F strings in Syllable name elements are based on Method I of ISO/TR 11941:1996 Information and documentation -- Transliteration of Korean script into Latin characters. I and F strings in Annotation elements are based on Method II of ISO/TR 11941. P strings in Syllable name elements and in Annotation elements are based on ISO/TR 11941. ISO/TR 11941 is different from Revised Romanization of Korean script released on 4 July 2000 by the Ministry of Culture and Tourism, Republic of Korea.

Accepted in principle.

T32 and T33 -- Proposes removing incorrectly mapped compatibility characters K0-6766, K0-522B in CJKC_SR.txt file; and adding two new compatibility characters corresponding to K0-6766 and K0-522B.

Mr. Michel Suignard: The entry for compatibility character mapping cannot be deleted – the source references for K0-6766 and K0-522B can be removed in this edition; by changing:

0F9B8;096B8;;;K0-6766;; to 0F9B8;096B8;;;;;; and,
0F92C;090CE;;;K0-522B;; to 0F92C;090CE;;;;;;
in CJKC_SR.txt file.

If this is done new character proposals could be entertained for future addition.

Discussion:

- a. Prof. Kyongsok Kim: You misunderstood our request and proposed alternative. The alternative is what we had considered and rejected earlier.
- b. Mr. Michel Suignard: We could entertain adding two characters requested by Korea.
- c. Dr. Ken Whistler: The US national body would like to do a technical review. I understand there is a problem here and need to be solved. We could add these for the next amendment. Removal of the source reference in 32.1 can be accepted. But we cannot add the two in FDIS. For better tracking, it would be better to create a separate document.
- d. Mr. Masahiro Sekiguchi: Korea has a separate contribution reviewed by IRG in document [N3747](#).

Disposition: Accept removal of source reference for FDIS. The request for new compatibility characters were discussed in section 8.3 on page 16, and accepted for future encoding.

Accepted in principle.

E01. ROK suggests that PDF file names be changed so that the file names are sorted according to the order of code positions.

Accepted.

Prof. Kyongsok Kim: We change our vote to Acceptance.

11.2.7 United Kingdom: Positive with comments

T.1. (Editorial): Proposes a note regarding 1680 Ogham Space Mark in Clause 16.1 Space characters

Mr. Michel Suignard: There is an annotation in the nameslist. Will add proposed text (modifying 'will' to 'is') to clause 16.1.

Accepted in principle.

T.2. (Technical) Proposes excluding Digits preceded by SPACE in rule for character names in 24.2
Accepted in principle; proposed text is amended for collection names beginning with digits.

T.3. (Editorial): Proposes to add adding annotations explaining the usage of characters used as medieval abbreviations and characters used in phonetic transcription in the Latin Extended-D block list of character names.

Mr. Michael Suignard: The request may be for too much of information as annotations.

Discussion:

- a. Dr. Ken Whistler: The annotations are aimed at some additional information towards the identity of the character. This proposal is trying to explain the usage of the character.
- b. Mr. Michael Everson: Can we edit this down to be less verbose. The users don't have any equivalent mechanism.
- c. Mr. Michel Suignard: We can request UK to come back with a proposal with shorter names.
- d. Mr. Peter Constable: We can have similar information in the Unicode book or in technical notes on the Unicode web site.

Disposition: *Not accepted.*

UK can propose shorter alternatives for the annotations.

11.2.8 USA: Positive with comments

T.1. Expresses disagreement with resolution IRG M33.6 (third paragraph) about CJK Multi-column charts; also does not want to revert to the single column format for any of the CJK blocks, including Extension B.

Dr. Ken Whistler: We are not happy about it; but we do understand what the problems are.

Noted.

T.2. Requests the CJK compatibility ideographs code charts (both BMP and SIP) are also presented in multi-column format, organized similar to Extension C charts.

Mr. Michel Suignard: The production of these is more complex than the current format. It has more information in it. Need more clauses to reflect the change. I suggest we go to the next amendment, without impacting the 2nd edition.

Discussion:

- a. Mr. Eric Muller: If it happens later, the creating the compatibility multiple column charts, the providers of the font should be alerted to get the correct ones.
- b. Mr. Michel Suignard: I would be happy to collect such information from the IRG members. For most of them we do have the information. We will have more time with the next amendment.
- c. Mr. Masahiro Sekiguchi: I would like to know why they are asking for multiple column charts.
- d. Mr. Michel Suignard: It is fixing the correct sources for the characters – some of which have more than a single one. The current 12 unified characters in this block have multiple references. We are not showing them correctly. We don't even show the source reference in the current chart format. There are lots of benefits going for the multiple column charts. Today we show the mapping to the unified character. If we do have multiple sources that character may have multiple mappings too – these are technical issues that surface in this effort. Few of the compatibility mappings were corrected earlier based on glyph differences. We will have about two years to properly review these.

See relevant resolution M56.14 on page 50.

T.3: Requests a long list of corrections to CJKU_SR.txt, as referenced in IRG document N1654.

Mr. Michel Suignard: The above is based on IRG recommendations in IRG document N1654. This is a set of corrections in the form of editing instructions to the editor.

Accepted.

The editor will incorporate the results of FPDAM8 dispositions also into the text of FDIS of 2nd edition.

Relevant resolutions:

M56.06 (Disposition of Comments on FCD of 2nd Edition):

Unanimous

WG2 accepts the final disposition of ballot comments in document N3827, reflecting resolution M56.04 above. WG2 also accepts the following corrections proposed by the editor:

- update the publication date in reference for HKSCS to 2008 (page 39 of FCD text)
- Add the missing TC-4A76 reference to 94C4, including corresponding chart update
- Keep the CC-Data Element as a normative term in clause 4.5, but replace it with 'code unit sequence' in the remainder of the text of the standard. The term 'code unit sequence' will also be inserted in clause 4.5.

M56.07 (Progression of 2nd Edition):

Unanimous

WG2 instructs its editor to forward updated final text and charts (after the IRG has verified the CJK charts), incorporating the results of resolutions M56.03 to M56.06 above, and the final disposition of ballot comments in document N3827, to SC2 secretariat for an FDIS ballot. The revised target starting date for FDIS is 2010-09.

(Note: At the end of the above discussion and relevant resolutions, the total number of characters in the second edition will be 109379.)

12 Working draft for future amendment

12.1 Summary of repertoire

Input document:

[3795](#) Summary of repertoire proposals for future amendment of 10646:2010; Project Editor Michel Suignard; 2010-04-02

Output document:

[3834](#) Summary of repertoire for CD of 3rd edition; Michel Suignard; 2010-04-23

[3837](#) Subdivision of work for next CD of 3rd edition; Mike Ksar; 2010-04-23

Document [N3795](#) contains a summary of the repertoire accepted for a future encoding till end of meeting 55. This document will be updated reflecting results at this meeting.

12.2 Progression of working draft

Mr. Michel Suignard: We may not have much to discuss in April next year. There will not be any ballots. I would like to discuss whether we should create an amendment to the 2nd edition or start a 3rd edition. We have to take into account the new JTC1 procedures for progressing documents.

Discussion:

- a. Mr. Masahiro Sekiguchi: Per Ms. Toshiko Kimura the approval date is based on New Work Item Proposal (NP) start. If we use subdivision proposals the rules about start date are not clear.
- b. Mr. Eric Muller: Anything we start before July this year, we will use the old process. Anything after July 2011 we must to use new process.
- c. Mr. Mike Ksar: We can take a decision for a subdivision proposal prior to July 1 for next Amendment. We will be able to follow the old rules.
- d. Mr. Michel Suignard: If we process it as an Amendment, it will be gigantic. It will have the CJK extension B and compatibility CJK chart redesigns. The decision to take is whether we publish a full edition or just an Amendment.
- e. Dr. Umamaheswaran: We can have a subdivision proposal for the next edition to include the bucket as well as the extension B and other CJK charts.
- f. Mr. Michel Suignard: It will make life easier. Maintaining an amendment is a little bit more complicated than new edition.
- g. Dr. Ken Whistler: If we start the 3rd edition at this meeting, FCD start could be in Busan and FDIS start could be after Finland meeting.

Relevant resolutions:

M56.12 (Subdivision of work):

Unanimous

WG2 instructs its convener and project editor to create a subdivision proposal (document [N3837](#)) for creation of the 3rd edition of ISO/IEC 10646, to incorporate items accepted for future encoding at meeting 55 (resolution M55.28 in document [N3704](#)) and characters and scripts accepted in resolutions M56.08 to M56.11 above. The 3rd edition is also to include the multiple column charts for the remaining CJK ideographs. The target starting dates are: CD 2010-06, FCD 2010-12 and FDIS 2011-11.

M56.13 (Fonts for CJK multiple column charts):

Unanimous

WG2 instructs the IRG to request the IRG members to send to the project editor the necessary fonts to enable creating the multiple column charts for CJK Ext. B and for CJK compatibility ideographs for consideration to include in the 3rd edition of ISO/IEC 10646.

M56.14 (Multiple column CJK charts for 3rd edition):

Unanimous

WG2 instructs its project editor to prepare the CJK multiple column charts for CJK Ext. B and CJK compatibility ideographs using the fonts received from IRG members and send them to the IRG for review, verification and finalization.

M56.15 (CD for 3rd edition):

Unanimous

WG2 instructs its project editor to create the text of for the 3rd edition of ISO/IEC 10646, incorporating the characters accepted for encoding per resolution M56.12 above on subdivision of work, and send it to SC2 secretariat for a CD ballot.

Based on the resolutions accepted at meeting 55 and this meeting the total count of characters in the CD for the 3rd edition will be 110094.

13 Contributions carried forward

The following contributions were carried forward from meeting 55, but were not discussed at meeting 56, and are carried forward to meeting 57.

Hungarian script ([N3693](#))
Generic punctuation used with Hungarian Runic ([N3664](#))
Generic punctuation used with the Szekler Hungarian Rovas ([N3670](#))
Hungarian Runic script ([N3697](#))
Manichaeen script (Revised) ([N3644](#))
Pahawh Hmong script ([N3667](#))
Obsolete Simplified Chinese characters ([N3695](#), [N3721](#))
Hentaigana characters ([N3698](#))
Nushu script ([N3598](#), [N3705](#), [N3719](#))

Contributions that were introduced in earlier meetings but had not been discussed further:

Palmyrene script ([N3749](#))
Linear-A script ([N3755](#), [N3774](#))
Mende script ([N3756](#))
Bassa Vah script ([N3760](#))
Kpelle script ([N3762](#))
Maithili script ([N3765](#))
Scripts of the Landa family ([N3766](#), [N3768](#))
Sindhi script ([N3767](#))
Old North Arabian script ([N3773](#))
Modi script ([N3780](#))
Pau Cin Hau script ([N3781](#), [N3784](#))
Coptic numbers ([N3786](#))
Tolong Siki script ([N3811](#))
Uighur, Kazakh and Kirgiz – scripts and characters ([N3819](#))
Khitani characters ([N3820](#))
Naxi Dongba pictographs - documents [N3425](#), [N3442](#) and [N3543](#)
Old Yi script in document [N3288](#)
Germanicist, Nordicist, and other phonetic characters in document [N3555](#)
Khojki script in document [N3596](#)
Mro script in document [N3589](#).

Action item: National bodies and liaison organizations are to review and provide feedback.

14 Liaison reports

14.1 SEI

Input document:

[3814](#) SEI Liaison Report; Debbie Anderson – SEI; 2010-04-10

The document was for information to delegates; it was not discussed.

Action item: National bodies and liaison organizations to take note of the activities on various minority scripts under the Script Encoding Initiative, and encourage any national experts on these scripts to review and contribute.

15 Other business

15.1 Web Site Review

I normally post documents as soon as I receive them. The list of documents is there in the same sequence as received. I periodically send notice for a batch. The document register will be kept up to date.

Relevant resolution:

M56.25 (Appreciation to DKUUG for web site support):

By Acclamation

WG2 thanks DKUUG and its staff for its continued support of the web site for WG2 document distribution and the e-mail server.

15.2 Future Meetings

- Meeting 57 – 2010-10-04/08 Busan, Korea (Republic of)
Mr. Mike Ksar: Korea is preparing the logistics document. As soon as I receive it I will post it.

- Meeting 58 – 2011-04-11/15 Helsinki, Finland (along with SC2 plenary).
Mr. Mike Ksar: Mr. Tero Alto has sent me an email postponing the meeting to June 6/10 2011 in Finland.
Mr. Masahiro Sekiguchi: I quickly checked with future IRG meetings; there is no conflict that I could see. We should double check with Dr. Lu Qin.
- Meeting 59 – 1Q 2012, Mountain View, CA, USA (pending confirmation), Germany (as backup)
- Meeting 60 – Fall 2012 – Looking for host

Relevant resolution:

M56.24 (Future meetings):

Unanimous

WG2 endorses the following schedule for future meetings of WG2 and of IRG:

WG2 meetings:

Meeting 57 - 2010-10-04/08, Busan, Korea (Republic of)

Meeting 58 - 2011-06-06/10, Helsinki, Finland (along with SC2 plenary)

Meeting 59 – 1st Quarter, 2012, Mountain View, CA, USA (pending confirmation), Germany (as backup)

IRG meetings:

IRG 35 - 2010-11-08/12, Macao SAR

16 Closing

16.1 Approval of Resolutions of Meeting 56 (N3804)

Output document:

[3804](#) Resolutions Meeting 56; Recording Secretary – Uma, Mike Ksar -Convener; 2010-04-23

Dr. Umamaheswaran had prepared the draft resolutions with assistance from the drafting committee. There were some editorial changes and rewordings brought up during the adoption of various draft resolutions.

There was a discussion on one draft resolution, which read:

M56.07 (Hungarian annotation request): With reference to the request for annotation in document [N3759](#), WG2 accepts to modify the annotation to “French, medieval Hungarian orthography” to 00FF.

Discussion:

- Mr. Peter Constable: The Unicode consortium would like WG2 to consider whether this resolution is a wise one.
- Dr. Ken Whistler: This resolution is not necessary for adding just an annotation. It would be a bad precedence to get resolutions in place for minor additions. This would be a tactically wrong approach to respond to Hungarian input.
- Mr. Masahiro Sekiguchi: I have a question just to make sure. The US and Unicode are not objecting for adding annotation ... but only to have a resolution.
- Mr. Michael Everson: We have the same position as the US and Unicode.
- Dr. Deborah Anderson: I think this may open up another door from the requester, and would be better to handle it editorially.
- Mr. Mike Ksar: There are no corrections; either we can withdraw the resolution; or go for a vote.
- Dr. Ken Whistler: Having a resolution to proceed will force the national bodies to take a position.
- Dr. Umamaheswaran: It is safer to withdraw the resolution.
- Prof. Kyongsok Kim: Was such done earlier?
- Mr. Mike Ksar: No. This is the first time we are doing a resolution for editorial stuff. We have done similar things for China on other items.
- Mr. Peter Constable: We could reword the resolution, to give editor the instruction to take the document into consideration.
- Mr. Michael Everson: We can give instruction to the editor, but we don't do it for every such request. It may set precedence.
- Prof. Kyongsok Kim: We have decided to change the annotation already.
- Dr. Umamaheswaran: There is the possibility of simply referencing to the disposition of comments.
- Mr. Peter Constable: You can also word it to request or instruct the editor to take it into consideration.

Disposition: Mr. Mike Ksar: Because of the controversy, I would recommend we take it out of the resolutions. It has been considered during the discussion and the editor will incorporate it.

The set of adopted resolutions are in document N[3804](#).

At the end of this meeting, the total character counts are:

Character count **107517** (till end of Amendment 7); addition of **1862** in FDAM8; character count **109379** in FDIS of 2nd edition (till end of FDAM8); addition of **715** in CD 3rd edition; character count **110094** (total in 3rd edition).

Appreciation:

Relevant resolution:

M56.26 (Appreciation to Host):

By Acclamation

WG2 thanks the US national body, ANSI, for hosting the meeting, Adobe Systems Inc. and its staff, in particular Mr. Eric Muller for providing excellent meeting facilities. WG2 thanks the Unicode Consortium, specifically Ms. Magda Danish, for its kind hospitality.

16.2 Adjournment

The convener adjourned the meeting at 12:35h on Friday.

**ISO/IEC JTC/SC2/WG2 N3803-AI
2010-xx-xx**

**Action Items from
ISO/IEC JTC1/SC2/WG2 meeting 56, San Jose, CA, USA, 2010-04-19/23
For review at meeting 57, Busan, Republic of Korea, 2010-10-xx/xx
(The following is an extract of Section xx of document N3803, meeting 56 draft minutes)
[V.S. Umamaheswaran](#), Recording Secretary**

17 Action items

All the action items recorded in the minutes of the previous meetings from M25 to M50 and M53 have been either completed or dropped. Status of outstanding action items from previous meetings M51, M52, M54, M55 and new action items from the last meeting M56 are listed in the tables below.

- Meeting 25, 1994-04-18/22, Antalya, Turkey (document N1033)
- Meeting 26, 1994-10-10/14, San Francisco, CA, USA (document N1117)
- Meeting 27, 1995-04-03/07, Geneva, Switzerland (document N[1203](#))
- Meeting 28, 1995-06-22/26, Helsinki, Finland (document N[1253](#))
- Meeting 29, 1995-11-06/10, Tokyo, Japan (document N[1303](#))
- Meeting 30, 1996-04-22/26, Copenhagen, Denmark (document N[1353](#))
- Meeting 31, 1996-08-12/16, Québec City, Canada (document N[1453](#))
- Meeting 32, 1997-01-20/24, Singapore (document N[1503](#))
- Meeting 33, 1997-06-30/07-04, Heraklion, Crete, Greece (document N[1603](#))
- Meeting 34, 1998-03-16/20, Redmond, WA, USA (document N[1703](#))
- Meeting 35, 1998-09-21/25, London, UK (document N[1903](#))
- Meeting 36, 1999-03-09/15, Fukuoka, Japan (document N[2003](#))
- Meeting 37, 1999-09-17/21, Copenhagen, Denmark (document N[2103](#))
- Meeting 38, 2000-07-18/21, Beijing, China (document N[2203](#))
- Meeting 39, 2000-10-08/11, Vouliagmeni, Athens, Greece (document N[2253](#))
- Meeting 40, 2001-04-02/05, Mountain View, CA, USA (document N[2353](#)), and
- Meeting 41, 2001-10-15/18, Singapore (document [2403](#))
- Meeting 42, 2002-05-20/23, Dublin, Ireland (document N[2453](#))
- Meeting 43, 2003-12-09/12, Tokyo, Japan (document N[2553](#))
- Meeting 44, 2003-10-20/23, Mountain View, CA, USA (document N[2653](#))
- Meeting 45, 2004-06-21/24, Markham, Ontario, Canada (document N[2753](#))
- Meeting 46, 2005-01-24/28, Xiamen, China (document N[2903](#))
- Meeting 47, 2005-09-12/15, Sophia Antipolis, France (document N[2953](#))

- Meeting 48, 2006-04-24/27, Mountain View, CA, USA (document [N3103](#))
 Meeting 49, 2006-09-25/29, Tokyo, Japan (document [N3153](#))
 Meeting 50, 2007-04-23/27, Frankfurt-Am-Main, Germany (document [N3253](#))
 Meeting 51, 2007-09-17/21, Hangzhou, China (document [N3353](#))
 Meeting 52, 2008-04-21/25, Redmond, WA, USA (document N)
 Meeting 53, 2008-10-13/17, Hong Kong SAR (document [N3453](#))
 Meeting 54, 2009-04-20/24, Dublin, Ireland (document [N3603](#))
 Meeting 55, 2009-10-26/30, Tokyo, Japan (document [N3703](#))
 Meeting 56, 2010-04-19/23, San José, CA, USA (document [N3803](#)) (this document)

17.1 Outstanding action items from meeting 51, 2007-09-17/21, Hangzhou, China

Item	Assigned to / action (Reference resolutions in document N3354 , and unconfirmed minutes in document N3353 for meeting 51 – with any corrections noted in section 3 in the minutes of meeting 52 in document N3454).	Status
AI-51-4	IRG Convenor and IRG Editor (Dr. Lu Qin)	
	To act on the resolution below.	
c.	M51.38 (IRG ideographs for Names): With reference to item 8 in document N3283 , WG2 endorses the IRG activity to investigate and report back to WG2 on the issues and recommendations on ideographs for names of persons, places and the like. M52, M53, M54, M55 and M56 - in progress.	In progress.

17.2 Outstanding action items from meeting 52, 2008-04-21/25, Redmond, WA, USA

Item	Assigned to / action (Reference resolutions in document N3454 , and unconfirmed minutes in document N3453 for meeting 52 - with any corrections noted in section 3 in the minutes of meeting 53 in document N3553)	Status
AI-52-7	Ireland (Mr. Michael Everson)	
	To take note of and act upon the following items.	
a.	M52.5 (Principles for Dandas): WG2 adopts the principles guiding the encoding of Dandas in Brahmic scripts from document N3457 , and instructs its ad hoc group on P&P to incorporate these into its document on Principles and Procedures (along with the additions from resolution M52.4 above). WG2 further invites the Irish national body to investigate and report on the current practice on use of currently encoded Dandas in relevant scripts towards finalizing the list of scripts and their corresponding Dandas. M53, M54 M55 and M56 – in progress.	In progress.

17.3 Outstanding action items from meeting 54, 2009-04-20/24, Dublin, Ireland

Item	Assigned to / action (Reference resolutions in document N3604 , and unconfirmed minutes in document N3603 for meeting 54, – with any corrections noted in section 3 in the minutes of meeting 55 in document N3703)	Status
AI-54-7	China (Mr. Chen Zhuang)	
	To take note of and act upon the following items:	
a.	M54.18 (Nüshu script): WG2 accepts the ad hoc report in document N3635 on Nüshu script and invites the Chinese national body to provide a revised contribution by 2009-07-31, including considerations for items in the ad hoc report. M55 and M56 - in progress.	In progress.
AI-54-8	Germany (Mr. Karl Pentzlin)	
	To take note of and act upon the following items:	
a.	Invited to submit a revised proposal on Florin currency symbol (see document N3588) taking into consideration discussion at meeting M54. M55 and M56 - in progress.	In progress.
c.	Invited to revised proposal for Yeru characters (see document N3581) taking into consideration discussion at meeting M54. M55 and M56 - in progress.	In progress.

17.4 Outstanding action items from meeting 55, 2009-10-26/30, Tokyo, Japan

Item	Assigned to / action (Reference resolutions in document N3704 , and unconfirmed minutes in document N3703 for meeting 55 – with any corrections noted in section 3 in the minutes of meeting 56 in document N3803).	Status
AI-55-2	Convener - Mr. Mike Ksar	
	To take note of and act upon the following items:	

a.	<i>M55.18 (Missing documents for Korean source references K2 to K5):</i> WG2 requests the convener and the Korean national body to search the WG2 document archives for the missing source reference documents PKS C5700-1 1994, PKS C5700-2 1994, PKS 5700-3 1998 and Korean IRG Hanja Character Set 5th edition 2001 and make it available for IRG archives and reference. M56 - in progress.	In progress.
AI-55-4	IRG Convenor and IRG Editor (Dr. Lu Qin)	
	<i>To take note of and act upon the following items:</i>	
a.	<i>M55.17 (Unified CJK Charts for 2nd edition):</i> WG2 notes that the glyphs for the TCA source for the unified CJK multiple column charts need finalization based on correct fonts being made available to the project editor. There are also missing or incorrect glyphs for other sources. WG2 instructs its project editor to produce the CJK charts of the 2nd edition with fonts to be provided by IRG members and send to the IRG rapporteur. The IRG is instructed to review and correct any errors in the glyphs for the various sources and report back to the project editor, with the objective of replacing the current CJK charts with the verified version in the FDIS (2010-07) of the second edition M56 - in progress.	In progress.
c.	<i>M55.20 (Missing source references for CJK Extensions A and B):</i> With reference to the discussion on comment JP9 in document N3716 (disposition of CD ballot comments), IRG is instructed to review and provide to the project editor all the missing indices in source references for unified CJK ideographs, specifically Extensions A and B before the next WG2 meeting in 2010-04. M56 - in progress.	In progress.
AI-55-11	Greek national body	
	<i>To take note of the following item:</i>	
a.	With reference to ballot comments from Greece in document N3684-GR , to take note of the discussion on PDAM8 disposition of comments in document N3703 , and in particular to the referenced source document N2642 , and is invited to contribute to the annotations for the four Greek characters. M56 - in progress.	In progress.

17.5 Outstanding action items from meeting 56, San Jose, CA, USA, 2010-04-19/23

Item	Assigned to / action (Reference resolutions in document N3804 , and unconfirmed minutes in document N3803 for meeting 56 (this document you are reading).	Status
AI-56-1	Recording Secretary - Dr. V.S. UMAheshwaran	
a.	To finalize the document N3804 containing the adopted meeting resolutions and send it to the convener as soon as possible.	
b.	To finalize the document N3803 containing the unconfirmed meeting minutes and send it to the convener as soon as possible.	
AI-56-2	Convener - Mr. Mike Ksar	
	<i>To take note of and act upon the following items:</i>	
a.	<i>M56.16 (Liaison response to SC34):</i> WG2 instructs its convener to prepare a response to the Liaison letter from ISO/IEC JTC1/SC34 in document N3809 , and forward it to SC2 to communicate to SC34. The response will state WG 2's views on the issue that is similar to the response to comment JP.G7 in the disposition of FPDAM8 ballot comment in document N3828 .	
b.	<i>M56.12 (Subdivision of work):</i> WG2 instructs its convener and project editor to create a subdivision proposal (document N3837) for creation of the 3 rd edition of ISO/IEC 10646, to incorporate items accepted for future encoding at meeting 55 (resolution M55.28 in document N3704) and characters and scripts accepted in resolutions M56.08 to M56.11 above. The 3 rd edition is also to include the multiple column charts for the remaining CJK ideographs. The target starting dates are: CD 2010-06, FCD 2010-12 and FDIS 2011-11.	
c.	<i>M56.23 (Roadmap snapshot):</i> WG2 instructs its convener to post the updated snapshot of the roadmaps (in document N3807) to the WG2 web site and communicate the same to SC2 secretariat.	
d.	To add contributions carried forward from previous meetings to agenda of next meeting.	
AI-56-3	Editor of ISO/IEC 10646: (Mr. Michel Suignard with assistance from contributing editors)	

	<i>To prepare the appropriate amendment texts, sub-division proposals, collection of editorial text for the next edition, corrigendum text, or entries in collections of characters for future coding, with assistance from other identified parties, in accordance with the following:</i>	
a.	<p><i>M56.01 (Emoji ad hoc report):</i> WG2 accepts the recommendations in the ad hoc report in document N3829 dealing with various ballot comments on FPDAM8 and supporting documents related to Emoji symbols. The recommendations include:</p> <ul style="list-style-type: none"> - Addition of 1 new character 1F610 NEUTRAL FACE - Changes to several glyphs, changes to character names and reordering of the characters inside the Emoticons block (the results are consolidated in document N3826) - Changes to mappings to Emoji sources (to be incorporated in the revised EmojiSrc.txt - document N3835), and - Accepting the following 13 Emoticon symbols for encoding in a future version of the standard: <ul style="list-style-type: none"> 1F600 GRINNING FACE 1F611 EXPRESSIONLESS FACE 1F615 CONFUSED FACE 1F617 KISSING FACE 1F619 KISSING FACE WITH SMILING EYES 1F61B FACE WITH STUCK-OUT TONGUE 1F61F WORRIED FACE 1F626 FROWNING FACE WITH OPEN MOUTH 1F627 ANGUISHED FACE 1F62C GRIMACING FACE 1F62E FACE WITH OPEN MOUTH 1F62F HUSHED FACE 1F634 SLEEPING FACE <p>with their glyphs as shown in document N3834.</p>	
b.	<p><i>M56.02 (Character deletions in Amd. 8):</i> WG2 notes moving the following three characters from Amendment 8 to the collection of characters accepted for a future amendment:</p> <ul style="list-style-type: none"> - A78F LATIN LETTER MIDDLE DOT - 1BFA BATAK SYMBOL BINDU GODANG - 1BFB BATAK SYMBOL BINDU PINARJOLMA <p><i>M56.03 (Progression of Amendment 8):</i> WG2 notes and accepts various name changes, glyph changes, annotation changes and changes to code positions of characters resulting from the disposition of FPDAM8 ballot comments, which incorporates results of resolutions M56.01 and M56.02 above. WG2 instructs its project editor to forward the final text of Amendment 8, along with the final disposition of comments document N3828 to the SC2 secretariat for an FDAM ballot. The final set of charts and names list are in document N3838. The unchanged target starting date is FDAM 2010-06.</p>	
c.	<p><i>M56.04 (CJK Charts for FCD of 2nd Edition):</i> WG2 decides to revert back to the single column format for CJK Unified Ideographs of Extension B for the 2nd edition. WG2 further instructs its editor and the IRG to review, verify and finalize the multiple-column charts for CJK Unified Ideographs in blocks other than Extension B.</p>	
d.	<p><i>M56.05 (Revised text for examples Annex S.1.5):</i> IRG is instructed to review and propose updates to the revision to the examples proposed by the editor in document N3794. If an agreed upon text is made available to the editor prior to the start of the FDIS ballot, it will be included in the FDIS ballot.</p>	
e.	<p><i>M56.06 (Disposition of Comments on FCD of 2nd Edition):</i> WG2 accepts the final disposition of ballot comments in document N3827, reflecting resolution M56.04 above. WG2 also accepts the following corrections proposed by the editor:</p> <ul style="list-style-type: none"> - update the publication date in reference for HKSCS to 2008 (page 39 of FCD text) - Add the missing TC-4A76 reference to 94C4, including corresponding chart update - Keep the CC-Data Element as a normative term in clause 4.5, but replace it with 'code unit sequence' in the remainder of the text of the standard. The term 'code unit sequence' will also be inserted in clause 4.5. 	

f.	<p><i>M56.07 (Progression of 2nd Edition):</i> WG2 instructs its editor to forward updated final text and charts (after the IRG has verified the CJK charts), incorporating the results of resolutions M56.03 to M56.06 above, and the final disposition of ballot comments in document N3827, to SC2 secretariat for an FDIS ballot. The revised target starting date for FDIS is 2010-09.</p>	
g.	<p><i>M56.08 (Miscellaneous character additions):</i> WG2 accepts the following additions and corrections for future encoding in the standard:</p> <p>m. 0604 ARABIC SIGN SAMVAT with its glyph shown in section 4 of document N3734.</p> <p>n. Six punctuation characters: 2E32 TURNED COMMA 2E35 TURNED SEMICOLON 2E36 DAGGER WITH LEFT GUARD 2E37 DAGGER WITH RIGHT GUARD 2E38 TURNED DAGGER 2E39 TOP HALF SECTION SIGN with their glyphs and annotations from page 1 of document N3740</p> <p>o. Two mathematical symbols: 27CB MATHEMATICAL RISING DIAGONAL 27CD MATHEMATICAL FALLING DIAGONAL with their glyphs and annotations from pages 9 and 10 of document N3763.</p> <p>p. Nine Cyrillic characters for Slavonic: A674 COMBINING CYRILLIC LETTER UKRAINIAN IE A675 COMBINING CYRILLIC LETTER I A676 COMBINING CYRILLIC LETTER YI A677 COMBINING CYRILLIC LETTER U A678 COMBINING CYRILLIC LETTER HARD SIGN A679 COMBINING CYRILLIC LETTER YERU A67A COMBINING CYRILLIC LETTER SOFT SIGN A67B COMBINING CYRILLIC LETTER OMEGA A69F COMBINING CYRILLIC LETTER IOTIFIED E with their glyphs and annotations from section 2 in document N3748.</p> <p>q. 0AF0 GUJARATI ABBREVIATION SIGN, with its glyph as shown on line 1 page 1 of document N3764.</p> <p>r. Four Typikon symbols: 1F540 CIRCLED CROSS POMMY 1F541 CROSS POMMY WITH HALF-CIRCLE BELOW 1F542 CROSS POMMY 1F543 NOTCHED LEFT SEMICIRCLE WITH THREE DOTS with their glyphs from left column in Table 1 of document N3772.</p> <p>s. 058F ARMENIAN DRAM SIGN: with its glyph as shown in document N3834.</p> <p>t. Two dashes required for Chicago manual of Style 2E3A TWO-EM DASH 2E3B THREE-EM DASH with their glyphs and annotations based on document N3770.</p> <p>u. Seven Georgian and Nuskhuri letters 10C7 GEORGIAN CAPITAL LETTER YN 10CD GEORGIAN CAPITAL LETTER AEN 10FD GEORGIAN LETTER AEN 10FE GEORGIAN LETTER HARD SIGN 10FF GEORGIAN LETTER LABIAL SIGN 2D27 GEORGIAN SMALL LETTER YN 2D2D GEORGIAN SMALL LETTER AEN with their glyphs and annotations shown on page 1 in document N3775.</p> <p>v. Four Arabic combining marks 08F0 ARABIC OPEN FATHATAN 08F1 ARABIC OPEN DAMMATAN 08F2 ARABIC OPEN KASRATAN 08F3 ARABIC SMALL HIGH WAW in a new block named Arabic Extended-A with the range 08A0 to 08FF with their glyphs as shown in document N3791.</p>	

	<p>w. Correct the names for three Sundanese Supplement characters, based on document N3836: 1CC4 change KA to LEU in the name 1CC5 change BA to KA in the name, and 1CC7 change LEU to BA in the name.</p> <p>x. Two new compatibility ideograph characters, as requested in Korean comment T32.3 on FCD ballot, and in Appendix 3 of document N3747: FA2E with its glyph shown on page 10, corresponding to K0-522B FA2F with its glyph shown on page 09, corresponding to K0-6766</p>	
h.	<i>M56.09 (Takri script):</i> WG2 accepts to create a new block named Takri in the range 11680 to 116CF in the SMP, and to populate it with 66 characters in code positions 11680 to 116B7 and 116C0 to 116C9, with their code positions, names and glyphs as shown on pages 10 and 11 of document N3758. This block contains some combining marks.	
i.	<i>M56.10 (Miao script):</i> WG2 accepts to create a new block named Miao in the range 16F00 to 16F8F in the SMP, and populate it with 128 characters in code positions 16F00 to 16F41 and 16F50 to 16F8D, with their code positions, names and glyphs as shown on pages 6 to 8 of document N3789. This block contains some combining marks.	
j.	<i>M56.11 (Arabic Mathematical Alphabetic Symbols):</i> WG2 accepts to create a new block named Arabic Mathematical Alphabetic Symbols in the range 1EE00 to 1EEFF in the SMP, and populate it with 143 characters with their code positions, names and glyphs as shown in the charts in document N3799 .	
k.	<i>M56.12 (Subdivision of work):</i> WG2 instructs its convener and project editor to create a subdivision proposal (document N3837) for creation of the 3 rd edition of ISO/IEC 10646, to incorporate items accepted for future encoding at meeting 55 (resolution M55.28 in document N3704) and characters and scripts accepted in resolutions M56.08 to M56.11 above. The 3 rd edition is also to include the multiple column charts for the remaining CJK ideographs. The target starting dates are: CD 2010-06, FCD 2010-12 and FDIS 2011-11.	
l.	<i>M56.14 (Multiple column CJK charts for 3rd edition):</i> WG2 instructs its project editor to prepare the CJK multiple column charts for CJK Ext. B and CJK compatibility ideographs using the fonts received from IRG members and send them to the IRG for review, verification and finalization.	
m.	<i>M56.15 (CD for 3rd edition):</i> WG2 instructs its project editor to create the text of for the 3 rd edition of ISO/IEC 10646, incorporating the characters accepted for encoding per resolution M56.12 above on subdivision of work, and send it to SC2 secretariat for a CD ballot.	
AI-56-4	IRG Convenor and IRG Editor (Dr. Lu Qin)	
	To revise document N3743 for inclusion in WG2 principles and procedures document based on feedback at meeting 56.	
	<i>To take note of and act upon the following items:</i>	
a.	<i>M56.13 (Fonts for CJK multiple column charts):</i> WG2 instructs the IRG to request the IRG members to send to the project editor the necessary fonts to enable creating the multiple column charts for CJK Ext. B and for CJK compatibility ideographs for consideration to include in the 3 rd edition of ISO/IEC 10646.	
AI-56-5	Ad hoc group on Principles and Procedures (Dr. Umamaheswaran)	
a.	<i>M56.22 (Guideline on spelling for English character names):</i> WG2 accepts the proposed text for guideline proposed in document N3832 on spelling of English character names in the standard for inclusion in the Principles and Procedures document, and instructs Dr. Umamaheswaran to prepare an updated Principles and Procedures document (N3802) and submit it to the convener to post to the WG2 web site and communicate to SC2 secretariat.	
AI-56-6	Ad hoc group on roadmap (Mr. Michael Everson)	
a.	To update the Roadmaps with the results from this meeting.	
AI-56-7	Unicode Consortium (Mr. Peter Constable)	
a.	To work with the project editor on a mutually acceptable syntax for USIs in NUSI.txt between Unicode and 10646.	
b.	To send updates to UTS #37 on Ideographic Variation Database to WG2 for feedback.	
AI-56-10	TCA (Mr. Bear Tseng)	
	<i>To take note of and act upon the following items:</i>	

a.	<i>M56.19 (Disunification request from China and TCA):</i> With reference to the disunification request in document N3787, China and TCA are invited to revise the document clarifying what exactly is requested, have it reviewed by IRG, and submit the revised document to the next WG2 meeting.	
AI-56-12	All national bodies and liaison organizations	
	<i>To take note of and provide feedback on the following items.</i>	
a.	<i>(Authors of the document are from several national bodies)</i> <i>M56.17 (Tangut script):</i> WG2 accepts the recommendations in the Tangut ad hoc report in document N3833 and invites the authors of the Tangut proposal in document N3797, together with other Tangut experts, to submit a revised proposal taking into account the ad hoc recommendations.	
b.	<i>(Authors of the document are from several national bodies)</i> <i>M56.18 (Jurchen script):</i> WG2 invites the authors of the proposal to encode Jurchen script in document N3788 to further revise the document based on feedback in document N3817, discussion at meeting 56, and in consultation with other Jurchen experts.	
c.	<i>M56.20 (IRG Principles and Procedures):</i> WG2 invites experts from national bodies and liaison organizations to review and provide feedback to the IRG rapporteur, on the principles and procedures document of the Ideographic Rapporteur's Group in document N3744 and the associated Ideographic Working Document Series from document N3746 before the June meeting of IRG.	
d.	<i>M56.21 (IVD registration by Japan):</i> WG2 invites national bodies and liaison organizations to review and provide feedback to the IVD registrar by 2010-06-25 on the first set of Ideographic Variation Sequences for Hanyo-Denshi ideographic variation collection as per announcement in document N3796.	
e.	<i>M56.24 (Future meetings):</i> WG2 endorses the following schedule for future meetings of WG2 and of IRG: WG2 meetings: Meeting 57 - 2010-10-04/08, Busan, Korea (Republic of) Meeting 58 - 2011-06-06/10, Helsinki, Finland (along with SC2 plenary) Meeting 59 – 1 st Quarter, 2012, Mountain View, CA, USA (pending confirmation), Germany (as backup) IRG meetings: IRG 35 - 2010-11-08/12, Macao SAR	
f.	To review and provide feedback on the various contributions that have been carried forward from the previous meetings – see section 13 of the meeting 56 minutes document.	
g.	to take note of the activities on various minority scripts under the Script Encoding Initiative (document N3814), and encourage any national experts on these scripts to review and contribute.	

END OF MINUTES DOCUMENT