

**Universal Multiple-Octet Coded Character Set
(UCS)**

ISO/IEC JTC 1/SC 2 N 4187
ISO/IEC JTC 1/SC 2/WG 2 N 4104
Date: 2011-06-10

Source: WG 2 meeting 58, Helsinki, Finland; 2011-06-06/10
Title: Resolutions of WG 2 meeting 58
Action: For approval by SC 2 and for information to WG 2
Status: Adopted at meeting 58 of WG 2
Distribution: ISO/IEC JTC 1/SC 2 and WG 2

Experts from Austria, Canada, China, Finland, Germany, India, Ireland, IRG, Japan, JTC1/SC35 (Liaison), Korea (Republic of), SEI - UC Berkeley (Liaison), TCA (Liaison), the Unicode Consortium (Liaison), and USA were present when the following resolutions were adopted (see attached attendance list).

Character count 109379 in 2nd edition

Addition of 776 in FCD 3rd edition

Character count 110155 (total in 3rd edition)

Addition of 281 in PDAM1 to 3rd edition

Character count 110436 (total at end of Amd. 1 to 3rd edition)

RESOLUTION M58.01 (Moving of characters from 3rd edition to Amendment 1):

Ireland - Abstained

Austria, Canada, China, Finland, Germany, India, Japan, Korea (Republic of), and USA - Accepted
WG2 accepts moving the following character out of the 3rd edition and including it in Amendment 1 to the 3rd edition of the standard:

- A78F LATIN LETTER MIDDLE DOT (with a changed name from LATIN LETTER GLOTTAL DOT).

count: 776-1 = 775 additions in 3rd ed

count: 281+1 = 282 additions in Amendment. 1

RESOLUTION M58.02 (Deleting 2 Batak characters from 3rd edition):

Unanimous

WG2 accepts deleting the two Batak characters from the 3rd edition -- 1BFA BATAK SYMBOL BINDU GODANG, and 1BFB BATAK SYMBOL BINDU PINARJOLMA, pending more evidence for their usage in plain text.

count: 775-2 = 773 additions in 3rd ed

RESOLUTION M58.03 (Correction of G-sources in CJK main block):

Unanimous

WG2 accepts the following corrections to G-sources in the CJK Unified Ideographs main block:

- replace the G source reference for 5655 in the CJK main block with HYD 10685.050
- remove the G source reference for 58ED in the CJK main block

RESOLUTION M58.04 (Correction of glyphs):

Unanimous

WG2 accepts changing the representative glyphs for:

- 2D7F TIFINAGH CONSONANT JOINER to that shown in document N4069;
- Adjustments to several glyphs arising from ad hoc report on Wingdings and Webdings as described in document N4115.

RESOLUTION M58.05 (New source identifiers for orphaned CJK ideographs):

Unanimous

WG2 accepts the proposal for new source references of the form UCI-xxxxx, per document N4111, and requests the Unicode Consortium to update Unicode Technical Report #45, assigning UCI source labels for all the ideographs which have no other source reference in ISO/IEC 10646, coordinating with the project editor. Three CJK Unified Ideograph Extension C characters --- 2AD12, 2B089, and 2B08F (per item 5 in document N4021 from IRG) are also to be given UCI source labels. The project editor is instructed to add appropriate text to the standard.

RESOLUTION M58.06 (Disposition of ballot comments of FCD 3rd edition):

Unanimous

WG2 accepts the disposition of 3rd edition FCD ballot comments in document N4098. The following significant changes are noted:

- marking 288 "Multilingual Latin Subset" to be a fixed collection;
- deleting 33 characters - 109C0 through 109F0 – Meroitic fractions and numbers, pending more satisfactory evidence for including them;
- fixing erroneous glyph for 2AAC9 (an ideograph in the CJK Extension C set);
- removing "GB 12052-90" and "GB 15564-1995" from the Sub-clause 'S.1.6, G-Source';
- addition of the following formal name aliases:
 - 2448 MICR ON US SYMBOL for 2448 OCR DASH, and,
 - 2449 MICR DASH SYMBOL for 2449 OCR CUSTOMER ACCOUNT NUMBER
- removal of the following Named UCS Sequence Identifiers:
 - <U+21F3, U+20E2> KEYBOARD SYMBOL SCROLLING, and,
 - <U+2139, U+20E2> KEYBOARD SYMBOL HELP
- moving of one character from 3rd edition to Amendment 1 per resolution M58.01 above;
- deleting the two Batak characters per resolution M58.02 above;
- correction of G-sources of two CJK unified ideographs per resolution M58.03 above;
- adding new source references of the form UCI-xxxxx for ideographs which have lost their original source references over the years, per resolution M58.05 above.

count: 773-33 = 740 additions in 3rd edition

RESOLUTION M58.07 (Progression of 3rd edition):

Unanimous

- a. WG2 instructs its project editor to prepare and to forward the final text of the 3rd edition, which will include the changes arising from resolutions M58.06 above, along with the final disposition of comments to the SC2 secretariat for an FDIS ballot.
 - b. WG2 further instructs the IRG to assist the project editor with the review and finalization of the multiple-column charts for CJK Unified Ideographs Extension B.
- The target revised starting date for FDIS is 2011-11.

count: addition of 740 in 3rd edition
Total of 109379 + 740 = 110119 in 3rd edition

RESOLUTION M58.08 (Disposition of PDAM1 ballot comments):

Unanimous

WG2 accepts the disposition of PDAM1 ballot comments in document N4099. The following significant changes are noted:

- a. renaming 0605 ARABIC COPTIC NUMBER MARK to ARABIC NUMBER MARK ABOVE;
- b. deletion of 16AF5 BASSA VAH COMMA and moving 16AF6 BASSA VAH FULL STOP up by one position to 16AF5;
- c. moving 1F53E RIGHT-FACING ARMENIAN ETERNITY SIGN to 058D, and 15F3F LEFT-FACING ARMENIAN ETERNITY SIGN to 058E in the Armenian block, with an annotation for 058E that it maps to AST 34.005: 1997;
- d. changing the block name and the names of all the characters in the block - 'Coptic Numbers' (102E0-102FF), by inserting the word 'Epact' after the word 'Coptic' in the names;
- e. changing the block name and the names of all the character in the 'Sindhi' block (112B0-112FF), by replacing 'Sindhi' with 'Khudawadi' in their names.

count: 282-1 = 281 additions in Amd 1.

RESOLUTION M58.09 (Format of NUSI.txt file):

Unanimous

WG2 accepts the proposed change to clause 25 describing the format used for NUSI.txt data file, detailed in document N4114, and to change the data in NUSI.txt file to follow this new format. This change will allow the NUSI.txt files in ISO/IEC 10646 and the Unicode Standard to be identical.

RESOLUTION M58.10 (Tirhuta script):

Unanimous

WG2 accepts to create a new block named Tirhuta in the range 11480 to 114DF, and populate it with 82 characters in code positions 11480 to 114C7 and 114D0 to 114D9, with their glyphs and character names as shown on pages 14 and 15 in document N4035. The repertoire includes some combining characters and some two part vowels needing decomposition specification.

count: 0+82 = 82 new additions

RESOLUTION M58.11 (Khojki script):**Unanimous**

WG2 accepts to create a new block named Khojki in the range 11200 to 1124F, and populate it with **61** characters in code positions 11200 to 11211, and 11213 to 1123D, with their glyphs and character names as shown on page 4 in document [N3978](#). The repertoire includes some combining characters.

*count: 82+61 = 143 new additions***RESOLUTION M58.12 (Elbasan script):****Unanimous**

WG2 accepts to create a new block named Elbasan in the range 10500 to 1052F, and populate it with **40** characters in code positions 10500 to 10527, with their glyphs and character names as shown on pages 19 and 20 in document [N3985](#).

*count: 143+40 = 183 new additions***RESOLUTION M58.13 (Nabataean script):****Unanimous**

WG2 accepts to create a new block named Nabataean in the range 10880 to 108AF, and populate it with **40** characters in code positions 10880 to 1089E, and 108A7 to 108AF, with their glyphs and character names as shown on page 4 in document [N3969](#).

*count: 183+40 = 223 new additions***RESOLUTION M58.14 (Linear A script):****Unanimous**

WG2 accepts to create a new block named Linear A in the range 10600 to 1077F, and populate it with **341** characters in code positions 10600 to 10736, 10740 to 10755 and 10760 to 10767, with their glyphs and character names as shown on pages 5 to 11 in document [N3973](#).

*count: 223+341 = 564 new additions***RESOLUTION M58.15 (Pau Cin Hau script):****Unanimous**

WG2 accepts to create a new block named Pau Cin Hau in the range 11AC0 to 11AFF, and populate it with **57** characters in code positions 11AC0 to 11AF8, with their glyphs and character names as shown in the consolidated charts in document [N4107](#).

*count: 564+57 = 621 new additions***RESOLUTION M58.16 (Manichaeian script):****Unanimous**

WG2 accepts to create a new block named Manichaeian in the range 10AC0 to 10AFF, and populate it with **51** characters in code positions 10AC0 to 10AE6, and 10AEB to 10AF6, with their glyphs and character names as shown on page 11 in document [N4029](#).

*count: 621+51 = 672 new additions***RESOLUTION M58.17 (Lithuanian dialectology characters):****Unanimous**

WG2 accepts the recommendation in the ad hoc report on Lithuanian dialectology (document [N4116](#)) and accepts to encode in the standard **14** characters in various blocks as follows:

a. 8 characters in the Miscellaneous Symbols and Arrows block:

2B4E SHORT NORTH EAST ARROW
2B4F SHORT SOUTH EAST ARROW
2B5A NORTH EAST ARROW WITH HOOKED HEAD
2B5B SOUTH EAST ARROW WITH HOOKED TAIL
2B5C NORTH EAST ARROW WITH HORIZONTAL TAIL
2B5D SOUTH EAST ARROW WITH HORIZONTAL TAIL
2B5E BENT ARROW POINTING DOWNWARDS THEN NORTH EAST
2B5F SHORT BENT ARROW POINTING DOWNWARDS THEN NORTH EAST

b. 2 characters in the Supplemental Punctuation block:

2E3D VERTICAL SIX DOTS
2E3E WIGGLY VERTICAL LINE

c. 2 character in the Latin Extended-D block:

A794 LATIN SMALL LETTER C WITH PALATAL HOOK
A795 LATIN SMALL LETTER H WITH PALATAL HOOK, and,

d. 2 character additions to the Cyrillic Extended-B block:

A69C MODIFIER LETTER CYRILLIC HARD SIGN
A69D MODIFIER LETTER CYRILLIC SOFT SIGN

The glyphs are as shown in the consolidated charts in document [N4107](#).

count: 672+14 = 686 new additions

RESOLUTION M58.18 (Old Hungarian script):

Unanimous

WG2 accepts the recommendation in the ad hoc report on Hungarian Runic/Szekely-Hungarian Rovas, (document [N4110](#)) and accepts to encode in the standard **111** characters as follows:

- a. 2E41 REVERSED COMMA, and,
2E42 DOUBLE LOW-REVERSED-9 QUOTATION MARK,
In the Supplemental Punctuation block,
- b. create a new block called Old Hungarian in the range 10C80 to 10CFF and populate it with 109 characters in code positions 10C80 to 10CB2, 10CC0 to 10CF2 and 10CF9 to 10CFF.
with their glyphs and character names as shown in pages 4 to 7 in document [N4110](#).

count: 686+111 = 797 new additions

RESOLUTION M58.19 (Teuthonista phonetic characters):

Unanimous

WG2 accepts the recommendation in the ad hoc report on Teuthonista phonetic characters (document [N4106](#)), and accepts to encode in the standard **85** characters as follows:

- a. create new block named Combining Diacritical Marks Extended in the range 1AB0 to 1AFF, and populate it with 15 characters in the code positions 1AB0 to 1ABE,
- b. 14 combining characters 1DE7 to 1DF4 in Combining Diacritical Marks Supplement block,
- c. 8 characters in the range A798 to A79F in Latin Extended-D block, and,
- d. create new block named Latin Extended-E in the range AB30 to ABBF, and populate with 48 characters AB30 to AB5F,
with their glyphs and character names as shown in pages 4 to 11 in document [N4106](#).

count: 797+85 = 882 new additions

RESOLUTION M58.20 (Duployan Shorthands):

Unanimous

WG2 accepts to encode the **148** characters required for Duployan Shorthands and Chinook script as follows:

- a. 2E3C STENOGRAPHIC FULL STOP (changed from 'Stenographic Period') in the Supplemental Punctuation block, with its glyph as shown in document [N3895](#);
- b. create a new block Duployan in the range 1BC00 to 1BC9F, and populate it with 143 characters at code points 1BC00 to 1BC6A, 1BC70 to 1BC7C, 1BC80 to 1BC88, 1BC90 to 1BC99, and 1BC9C to 1BC9F, with their names and glyphs from document [N4088](#), and
- c. create a new block Shorthand Format Controls in the range 1BCA0 to 1BCAF, and populate it with four characters in code positions 1BCA0 to 1BCA3 with their names and glyphs from document [N4088](#).

count: 882+148 = 1030 new additions

RESOLUTION M58.21 (Wingdings and Webdings):

Unanimous

WG2 accepts the recommendation in the ad hoc report on Wingdings and Webdings (document [N4115](#)) and accepts to encode in the standard **506** symbols in 10 blocks as follows:

- 7 characters in the Miscellaneous Technical block
- 1 character in the Dingbats block
- 140 characters in the Miscellaneous Symbols and Arrows block
- 1 character in the Supplemental Punctuation block
- 2 characters in the Enclosed Alphanumeric Supplement block
- 105 characters in the Miscellaneous Symbols and Pictographs block
- Create a new block named Ornament Symbols in the range 1F650-1F67F and populate it with 43 characters
- 1 character in the Transport and Map Symbols block
- Create a new block named Geometric Shapes Extended in the range 1F780-1F7FF, and populate it with 84 characters, and
- Create a new block named Supplemental Arrows-C in the range 1F800-1F8FF and populate it with 122 characters

with the glyphs, character names and their code positions as shown on pages 53 through 83 in document [N4115](#).

count: 1030+506 = 1536 new additions

RESOLUTION M58.22 (Miscellaneous character additions):

Unanimous

WG2 accepts to encode the following **29** characters in the standard:

- a. 1F544 NOTCHED RIGHT SEMICIRCLE WITH THREE DOTS in the Miscellaneous Symbols and Pictographs block, with its glyph as shown in Table 1 in document [N3971](#);
- b. 1F545 SYMBOL FOR MARKS CHAPTER in the Miscellaneous Symbols and Pictographs block, with its glyph as shown in consolidated charts in document [N4107](#);
- c. 0C00 TELUGU SIGN COMBINING CANDRABINDU ABOVE in the Telugu block with a corresponding annotation to 0C01 “indicates a contextually elided nasal” to differentiate it from 0C00
0C81 KANNADA SIGN CANDRABINDU in the Kannada block, and,
0D01 MALAYALM SIGN CANDRABINDU in the Malayalam block,
with their glyphs as shown on page 7 in document [N3964](#)
(all these three are combining marks);
- d. 08FF ARABIC MARK SIDEWAYS NOON GHUNNA,
a combining mark, in the Arabic Extended-A block, with its glyph as shown in the table at the top of page 2 in document [N3989](#);
- e. 08A1 ARABIC LETTER BEH WITH HAMZA ABOVE,
in the Arabic Extended-A block, with its glyph as shown in table 1 on page 1 in document [N3988](#);
- f. 037F GREEK CAPITAL LETTER YOT in the Greek and Coptic block, with its glyph from page 2, and proposed annotations for 03F3 and 037F, from document [N3997](#);
- g. 191D LIMBU LETTER GYAN (with an annotation that it is equivalent of JNYA), and
191E LIMBU LETTER TRA,
in the Limbu block, with their glyphs as shown on page 1 in document [N3975](#);
- h. 0978 DEVANAGARI LETTER MARWARI LETTER DDA,
in the Devanagari block with its glyph as shown on page 1 of document [N3970](#);
- i. A698 CYRILLIC CAPITAL LETTER DOUBLE O,
A699 CYRILLIC SMALL LETTER DOUBLE O,
A69A CYRILLIC CAPITAL LETTER CROSSED O, and,
A69B CYRILLIC SMALL LETTER CROSSED O,
in the Cyrillic Extended-B block, with their glyphs as shown on page 2 in document [N3974](#);
- j. 1F641 SLIGHTLY FROWNING FACE, and,
1F642 SLIGHTLY SMILING FACE,
in the Emoticons block, with their glyphs and annotations as shown on page 1 in document [N3982](#);
- k. 2E40 DOUBLE HYPHEN in the Supplemental Punctuation block, with its glyph as shown on page 1 in document [N3983](#), including a cross reference to 30A0; also add a cross reference from 30A0 to 2E40;
- l. 08AD ARABIC LETTER LOW ALEF
08AE ARABIC LETTER DAL WITH THREE DOTS BELOW
08AF ARABIC LETTER SAD WITH THREE DOTS BELOW
08B0 ARABIC LETTER GAF WITH INVERTED STROKE
08B1 ARABIC LETTER STRAIGHT WAW
in the Arabic Extended-A block, with their glyphs and annotations as shown in the Table on page 1 in document [N4072](#);
- m. 1031F OLD ITALIC LETTER ESS,
in the Old Italic block, with its glyph as shown on page 3 in document [N4046](#);
- n. FE27 COMBINING LIGATURE LEFT HALF BELOW
FE28 COMBINING LIGATURE RIGHT HALF BELOW
FE29 COMBINING TILDE LEFT HALF BELOW
FE2A COMBINING TILDE RIGHT HALF BELOW, and
FE2B COMBINING CONJOINING MACRON BELOW
in the Combining Half Marks block, with their glyphs as shown on page 2 in document [N4078](#).

count: 1536+29 = 1565 new additions

RESOLUTION M58.23 (Progression of PDAM 1 to the 3rd edition):**Unanimous**

WG2 instructs its project editor to create the text of for Amendment 1 to the 3rd edition of ISO/IEC 10646, incorporating the disposition of PDAM1 ballot comments per resolution M58.08 above, character moved from 3rd edition per resolution M58.01 above, and text changes and characters accepted for encoding in resolutions M58.09 to M58.22 above, and send it to the SC2 secretariat for a second PDAM ballot. The consolidated charts are in document N4107. The revised target starting dates are: PDAM 1.2 2011-07, DAM 2012-03 and FDAM 2012-11.

*count: 281+1565=1846 additions in Amd.1 to 3rd edition
count: 110119 + 1846 = total of 111965 at the end of Amd 1*

RESOLUTION M58.24 (Enhanced method for progressing PDAMs):**Unanimous**

WG2 agrees to initiate a trial period starting after meeting 58, encouraging the project editor to make use of a discussion list and teleconferencing facilities to arrive at dispositions to ballot comments, and issuing of any PDAM ballots (within the scope of current SC2 projects and its subdivisions), between WG2 face to face meetings. WG2 requests the SC2 secretariat to provide the needed support by establishing a discussion list and inviting national bodies and liaison organizations to nominate experts to participate in the discussions associated with ballot dispositions and related matters. Other subject matter experts may also be invited to participate at the discretion of the project editor.

RESOLUTION M58.25 (Normatively referenced Unicode Technical Reports):**Unanimous**

Considering the concerns expressed in the document N4092, WG 2 requests SC2 to adopt the following resolution and communicate the same to the Unicode Consortium.

Considering the concerns expressed in the document JTC1/SC2/WG2 N4092, SC2 requests the Unicode Consortium to accept the following:

- a. When the Unicode Consortium proposes to update any Unicode Technical Report that is normatively referenced by ISO/IEC 10646, the Unicode Consortium is asked to submit a notification of the planned update and/or the draft update text to SC 2, before the Consortium officially approves the update;
- b. The Unicode Consortium will consider all feedback on such a planned update received as liaison contributions from SC 2, and expressing the opinions of SC 2 and/or its participating national body members regarding a planned update; and
- c. In the event that the Unicode Consortium and SC 2 have different opinions on details of such an update, the Consortium will give full consideration to the SC 2 opinions and make its best effort to collaborate with SC 2 to reach a consensus.

RESOLUTION M58.26 (Roadmap snapshot):**Unanimous**

WG2 instructs its convener to post the updated snapshot of the roadmaps (in document N4056) to the WG2 web site and communicate the same to SC2 secretariat.

RESOLUTION M58.27 (P&P document - adoption and additions):**Unanimous**

WG2 adopts document N3902 as the updated principles and procedures. Further, WG2 accepts the additions proposed under item A, item B (with slight modification as recorded in the minutes) and item C, in document N4049, and instructs its ad hoc on Principles and Procedures to update the P&P document (as document N4102) for adoption at WG2 meeting 59. IRG is requested to review and provide feedback on item D in document N4049.

RESOLUTION M58.28 (Request for encoding symbols from SC35):**Unanimous**

With reference to requests from SC35 in document N3897, WG2 requests SC35 to provide more information on the use of these symbols in plain text, addressing the feedback in document N3996. SC35 is also asked to include a Proposal Summary Form on any proposal submitted to SC2.

RESOLUTION M58.29 (Additional characters for Uighur and Chaghatay):**Unanimous**

With reference to requests from China in documents N4066 and N4067, WG2 endorses the ad hoc report in document N4113, and invites China to submit a revised proposal, based on Named USI sequences, taking into consideration the consensus in the ad hoc report.

RESOLUTION M58.30 (Naxi Dongba pictographs):**Unanimous**

With reference to proposal from China in document N4043, WG2 endorses the ad hoc report in document N4112, and invites China to submit a revised proposal taking into consideration the recommendations in the ad hoc report.

RESOLUTION M58.31 (Chinese Chess symbols):**Unanimous**

With reference to proposal from China in document N3910, WG2 invites China to submit a revised proposal taking into consideration the feedback comments received in documents N3966 and N3992.

RESOLUTION M58.32 (Future meetings):**Unanimous**

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

WG2 meetings:

Meeting 59 - 2012-02-13/17, Microsoft Campus, Mountain View, CA, USA

Meeting 60 - 2012-10-22/26, Chiang Mai, Thailand (pending confirmation); Berlin, Germany (as backup, pending confirmation)

Meeting 61 - 2nd Quarter 2013, Berlin, Germany (pending confirmation); (Looking for backup host)

IRG meetings:

IRG Meeting 38, Gyeongju, Korea, 2012-06-18/22

IRG Meeting 39, Hong Kong S.A.R., 2012-11-12/16

RESOLUTION M58.33 (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.

RESOLUTION M58.34 (Appreciation to Host):**By Acclamation**

WG2 thanks the national body of Finland, Finnish Standards Association (SFS) and its staff, in particular Ms. Hillevi Vuori, Ms. Sari Lamminaho, Ms. Susanna Vahtila, for hosting the meeting and providing excellent meeting facilities, and to CSC – IT Center for Science and its staff, in particular Mr. Tero Aalto, Mr. Ville Savolainen, for their kind hospitality.

Character count **109379** in FDIS of 2nd edition

Addition of **740** in FCD 3rd edition

Character count **110119** (total in 3rd edition)

Addition of **1846** in PDAM1.2 to 3rd edition

Character count **111965** (total at end of Amd. 1 to 3rd edition)

Attendance List
JTC1/SC2/WG2 Meeting 58, Helsinki, Finland; 2011-06-06/10

The following **30** attendees representing **10** national bodies, and **4** liaison organizations were present at different times during the meeting.

Name	Representing	Affiliation
Mike KSAR	.Convener, USA	Independent
LU Qin	.IRG Rapporteur	Hong Kong Polytechnic University
Yoshiki MIKAMI	.SC2 Chair	Nagaoka University of Technology
Toshiko KIMURA	.SC2 Secretary	IPSJ/ITSCJ
Bear S. TSENG	.TCA – Liaison	Academia Sinica
Lin-Mei WEI	.TCA – Liaison	Chinese Foundation for Digitization Technology
Eveline WANDL-VOGT	Austria	Austrian Academy of Sciences
Alain LABONTÉ	Canada; Editor 14651; liaison SC35	Independent
V. S. (Uma) UMAMAHESWARAN	Canada; Recording Secretary	IBM Canada Limited
CHEN Zhuang	China	Chinese Electronics Standardization Institute
HE Lifeng	China	Yunnan Minority Languages Commission
HE Zhengan	China	China Electronics Standardization Institute
Wushour SILAMU	China	Xinjiang University
Yasen YIMING	China	Xinjiang Uyghur Autonomous Regional Working Committee of Minorities Languages and Writing
ZHAO Quinglian	China	Yunnan Minority Languages Commission
Erkki KOLEHMAINEN	Finland	Independent
Hillevi VUORI	Finland	Finnish Standards Association (SFS)
Tero AALTO	Finland	CSC-IT Center for Science
Alois DICKLBERGER	Germany	University of Passau
Karl PENTZLIN	Germany	AC&S Analysis GmbH
Jürgen SCHMIDT	Germany	Phillips-University, Marburg
Laxman SWARUP	India	Bureau of Indian Standards
Michael EVERSON	Ireland; Contributing Editor	Evertype
Masahiro SEKIGUCHI	Japan	Fujitsu Limited
KANG Mi-young	Korea (Republic of)	The National Institute of the Korean Language
KIM Kyongsok	Korea (Republic of)	Busan National University
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