

**Approved Minutes of the UTC 91 / L2 188 Joint Meeting**  
**Pleasanton, CA -- April 30 - May 3, 2002**  
August 26, 2002

---

*April 30, 2002*

Number of members in good standing as of this meeting: 21, Number of members in regular attendance: 19, Quorum: 10.

PRESENT: Adobe Systems, Inc.; Apple Computer; Basis Technology; Compaq Computer (by proxy); Hewlett Packard; IBM Corporation; Microsoft Corporation; PeopleSoft; RLG (by proxy); Sybase, Inc.; Trigeminal Software; Unisys Corporation (by proxy).

NOT PRESENT: Government of India, MIT; Justsystem Corp.; NCR Corporation; Oracle Corp.; Progress Software; Reuters, Ltd.; RWS Group LLC; SAP AG; Sun Microsystems.

NOT IN REGULAR ATTENDANCE: Government of India, MIT; Reuters.

*Total members represented: 12, Total not represented: 9*

### **Calendar Review and Update**

UTC 92/L2 189 - August 20 - 23, 2002, Redmond, host Microsoft  
UTC 93/L2 190 - November 5 - 8, 2002, Nashua, NH, host Compaq (*Annual Members Mtg*)  
UTC 94/L2 191 - January 27 - 30, 2003, Mountain View, host Microsoft  
UTC 95/L2 192 - April 22 - 25, 2003, San Jose, host Adobe

*Calendar details posted at [www.unicode.org/unicode/timesens/calendar.html](http://www.unicode.org/unicode/timesens/calendar.html)*

**[91-A1] Action Item** for Cathy Wissink: Add emergency phone numbers to logistics info for meetings.

**[91-A2] Action Item** for Lisa Moore: Note on the calendar the standard meeting times.

### **UTC 90/L2 187 Minutes**

**[91-M1] Motion:** Approve the minutes of UTC 90/L2 187 as documented in L2/02-070.

Moved by V.S. Umamaheswaran, seconded by Deborah Goldsmith

7 for (Adobe, Apple, Compaq, IBM, Justsystem, Microsoft, PeopleSoft, Sybase, Trigeminal, Unisys)

0 against

5 abstain (Basis, Compaq, RLG, Trigeminal, Unisys)

*Minutes posted publicly at [www.unicode.org/unicode/consortium/utc-minutes.html](http://www.unicode.org/unicode/consortium/utc-minutes.html)*

### **Action Item Review**

**[91-A3] Action Item** for Cathy Wissink: Follow up on AI 90-36, AI 90-70.

**[91-A4] Action Item** for Deborah Goldsmith: Follow up on all of John Jenkins' open Action Items.

**[91-A5] Action Item** for Lisa Moore: Follow up on action 88-35.

**[91-A6] Action Item** for Rick McGowan, Officers: Make mirroring PDF files available to members on their web sites. Reference: AI 88-22. Write text explaining how to do the mirroring and which pages may be mirrored.

[91-A7] **Action Item** for Rick McGowan, Editorial Committee: Review the text for mirroring PDF files for legal disclaimers and post.

[91-A8] **Action Item** for Mark Davis: Raise issues in AI 87-43 & 87-44 on to the Bidi committee with a request for last call for comments.

### Unicode Technical Reports - SCSU

[91-C1] **Consensus:** The UTC approves the update of *Unicode Technical Standard #6 A Standard Compression Scheme for Unicode* and forwards to the Editorial Committee for final text review and publication. [L2/02-171]

[91-A9] **Action Item** for Asmus Freytag, Editorial Committee: Review and post *Unicode Technical Standard #6 A Standard Compression Scheme for Unicode*. [ L2/02-171]

### Unicode Technical Reports - UCD in XML

[91-A10] **Action Item** for Lisa Moore: Add to the agenda for UTC#92 an item about cross references -- to look at how aliases can be usefully represented in a machine readable form.

[91-A11] **Action Item** for Mark Davis: Add Unihan properties to the UCD.

[91-C2] **Consensus:** Take the draft of UCD in XML and make the following changes, then re-submit as a second committee draft: [L2/02-179]

- Take the XML document and separate programmatic side.
- Remove the name list information from the XML document
- Make DTD be generated from the UCD itself.

[91-A12] **Action Item** for Eric Muller: Update the committee draft of UCD in XM for the next meeting (UTC#92). [L2/02-179]

[91-A13] **Action Item** for Ken Whistler, Editorial Committee: Elaborate on the status of the information in Nameslist.txt.

### IRG

[91-A14] **Action Item** for Rick McGowan: Point John Jenkins to examples to use to complete AI 89-16

[91-A15] **Action Item** for John Jenkins: Create a document for AI 89-16.

[91-A16] **Action Item** for John Jenkins: Bring to the IRG's attention the fact that mappings between simplified and traditional characters are of interest to the UTC, and the UTC will request such mappings from WG2.

[91-C3] **Consensus:** Accept IDEOGRAPHIC TABOO VARIATION INDICATOR for encoding at U+2FDF. [L2/02-052]

[91-A17] **Action Item** for John Jenkins: Use the latest WG2 proposal summary form and submit U+2FDF IDEOGRAPHIC TABOO VARIATION INDICATOR for the next WG2 meeting in Dublin. Forward to Mike Ksar. [L2/02-052]

[91-A18] **Action Item** for Ken Whistler: Update pipeline to include U+2FDF IDEOGRAPHIC TABOO VARIATION INDICATOR. [L2/02-052]

[91-A19] **Action Item** for John Jenkins: Inform the IRG of UTC acceptance of U+2FDF IDEOGRAPHIC TABOO VARIATION INDICATOR. [L2/02-052]

[91-A20] **Action Item** for John Jenkins: Send a font for U+2FDF IDEOGRAPHIC TABOO VARIATION INDICATOR to Asmus Freytag. [L2/02-052]

### Scripts and New Characters - Gujarati

[91-A21] **Action Item** for Asmus Freytag: Fix the glyph error of U+0ABD GUJARATI SIGN AVAGRAHA. Will also investigate to make sure that it's really an error. [L2/02-111]

[91-A22] **Action Item** for Asmus Freytag, Editorial Committee: Post an erratum for the glyph fix to U+0ABD GUJARATI SIGN AVAGRAHA. [L2/02-111]

### Scripts and New Characters - Tetragram Characters

[91-C4] **Consensus:** UTC accepts the 87 tetragram and related characters for encoding at 1D300..1D356. [L2/02-089]

[91-A23] **Action Item** for Ken Whistler: Update the pipeline to include the 87 tetragram and related characters accepted for encoding at 1D300..1D356. [L2/02-089]

[91-A24] **Action Item** for Rick McGowan: Check on whether L2/02-089 on the encoding of 87 tetragram and related characters has been submitted to WG2. If it has not been submitted, then do so. *Answer: Yes, it is on the agenda for Dublin: N2416 Proposal to add monogram, digram and tetragram characters to the UCS. Richard S. Cook, Michael Everson, Michael Nylan; 2002-02-11.*

[91-A25] **Action Item** for Michael Everson: Submit a font to Asmus Freytag for printing the 87 tetragram characters in the standard. [L2/02-089]

[91-A26] **Action Item** for Michael Everson: Submit a plain text version of the names for the 87 tetragram & related symbols to the Editorial Committee. [L2/02-089]

### Scripts and New Characters - Khmer

[91-C5] **Consensus:** Leave the ROBAT as it is in the standard today (do not deprecate) and document its use appropriately. [L2/02-131]

[91-A27] **Action Item** for Ken Whistler, Mark Davis, Editorial Committee: Document the behavior of the ROBAT character for 4.0; also document its collation behavior. [L2/02-131]

### Scripts and New Characters - Syriac/Sogdian

[91-C6] **Consensus:** UTC supports approving, opposing, or postponing acceptance of the six Syriac/Sogdian characters based upon the best available evidence presented in the WG2 meeting in Dublin. [L2/02-132]

### Scripts and New Characters - UPA

[91-C7] **Consensus:** The Uralic Phonetic Alphabet (UPA) characters proposed in L2/02-141 are not ready for encoding at this time.

[91-A28] **Action Item** for Asmus Freytag: Convey to the author the UTC consensus on the Uralic Phonetic Alphabet (UPA) characters proposed in L2/02-141:

- more aggressive/enthusiastic unification is needed (Look at 02F4 through 6 as examples)
- separate out small caps forms and those modifier letters that are indistinguishable from superscript and subscript letters, into a separate set for consideration for Plane 1.

Number of members in good standing as of this May 1, 2002: 20 (Sybase no longer a member as of May 1). Number of members in regular attendance: 18, Quorum: 9.

**PRESENT:** Adobe Systems, Inc.; Apple Computer; Basis Technology; Compaq Computer (by proxy); Hewlett Packard; IBM Corporation; Justsystem Corp. (by proxy); Microsoft Corporation; Oracle Corp.; PeopleSoft; RLG (by proxy); Sun Microsystems; Trigeminal Software; Unisys Corporation (by proxy).

**NOT PRESENT:** Government of India, MIT; NCR Corporation; Progress Software; Reuters, Ltd.; RWS Group LLC; SAP AG.

*Total members represented: 14, Total not represented: 6*

### **Scripts and New Characters - Syriac/Sogdian**

**[91-C8] Consensus:** UTC would support addition of the six Sogdian characters in document L2/02-132 if the information requested by Paul Nelson were supplied in the proposal.

### **Unicode Technical Reports - Text Boundaries**

**[91-A29] Action Item** for Asmus Freytag: Address the problem with line breaking in hangul jamo for the next meeting, UTC#92.

**[91-C9] Consensus:** Advance *Proposed Draft Unicode Technical Report #29 Text Boundaries* to *Draft Unicode Technical Report #29 Text Boundaries* after incorporating comments received during discussion and review by the Editorial Committee. [L2/02-164, 175]

**[91-A30] Action Item** for Mark Davis, Editorial Committee: Update and post *Draft Unicode Technical Report #29 Text Boundaries*. [L2/02-164, 175]

**[91-M2] Motion:** *Draft Unicode Technical Report #29 Text Boundaries* is to be placed on track to become a Unicode Annex for 4.0.

Moved by Ken Whistler, seconded by V.S. Umamaheswaran

**12** for (Adobe, Apple, Basis, HP, IBM, Justsystem, Microsoft, Oracle, PeopleSoft, Sun, Trigeminal, Unisys)  
**0** against  
**2** abstain (RLG, Compaq)

**[91-A31] Action Item** for Mark Davis, Editorial Committee: Make *Draft Unicode Technical Report #29 Text Boundaries* a Unicode Annex in Unicode 4, after appropriate editorial updates to the content.

### **Unicode Technical Reports - Character Foldings**

**[91-C10] Consensus:** Accept document L2/02-186, after incorporating modifications discussed in the meeting, as *Proposed Draft Unicode Technical Report #30 Character Foldings*.

**[91-A32] Action Item** for Asmus Freytag: Update *Proposed Draft Unicode Technical Report #30 Character Foldings* as per discussion. [L2/02-186]

**[91-A33] Action Item** for Asmus Freytag, Editorial Committee: Review and post *Proposed Draft Unicode Technical Report #30 Character Foldings*. [L2/02-186]

### **WG2**

**[91-A34] Action Item** for Lisa Moore, Officers: Discuss having Unicode host the WG2 meeting planned for 4th quarter of 2003.

### **Scripts and New Characters - Urdu**

**[91-M3] Motion:** The UTC rejects the encoding of duplicate digits 0-9 for Urdu, and will document more clearly the range of glyphs that can be used for digits. The remaining characters proposed in L2/02-163 are a good initial proposal, but needs further time for expert review and should not be accepted into either of the two WG2 amendments. [L2/02-163]

*Point 1. Urdu Misra Sign:* needs expert opinion; would support if expert opinion supports.

*Point 2. Urdu Safah Sign:* needs expert opinion; would support if expert opinion supports.

*Point 3. Urdu Nuqtatain:* defer under all circumstances.

*Point 4. Urdu Jazm:* needs expert opinion; would support if expert opinion supports.

*Point 5. Arabic Small High Tah:* needs expert opinion; would support if expert opinion supports.

*Point 6. Bismillah Ligature:* acceptable, would not oppose encoding.

*Point 7. Urdu digits 0-9:* opposed.

Moved by Ken Whistler, seconded by Asmus Freytag

9 for (Adobe, Basis, HP, IBM, Justsystem, Oracle, PeopleSoft, Sun, Unisys)

3 against (Apple, Microsoft, Trigeminal)

2 abstain (Compaq, RLG).

**[91-A35] Action Item** for Asmus Freytag: Ask the Bidi Subcommittee to advise regarding the proposal in L2/02-163 and to send their recommendations to the UTC.

**[91-A36] Action Item** for Julie Allen, Editorial Committee: Document more clearly the range of glyphs for the Arabic digits, L2/02-163.

## Scripts and New Characters - Bactrian

**[91-C11] Consensus:** The UTC accepts two Greek characters for use in Bactrian: U+03F7 GREEK CAPITAL LETTER SHO and U+03F7 GREEK SMALL LETTER SHO. [L2/02-056]

**[91-A37] Action Item** for Ken Whistler: Update the pipeline with the two Greek characters to be used with Bactrian (U+03F7 GREEK CAPITAL LETTER SHO and U+03F7 GREEK SMALL LETTER SHO). [L2/02-163]

**[91-A38] Action Item** for Michael Everson: Send Asmus a font for the two Greek characters to be used with Bactrian (U+03F7 GREEK CAPITAL LETTER SHO and U+03F7 GREEK SMALL LETTER SHO). [L2/02-163]

**[91-A39] Action Item** for Asmus Freytag: As UTC's WG2 liaison, be advised that the UTC has no strong opinion on the timing of adding the two Greek characters for use in Bactrian (U+03F7 GREEK CAPITAL LETTER SHO and U+03F7 GREEK SMALL LETTER SHO). [L2/02-163]

## Scripts and New Characters - Bengali

**[91-A40] Action Item** for UTC's WG2 representatives: Support the position on Bengali given in L2/02-108, including a request for more information if the subject should come up during the Dublin meeting.

## Scripts and New Characters - Coptic

**[91-C12] Consensus:** The UTC is willing to entertain a proposal for the disunification of Coptic and Greek, and hopes that proponents of the disunification will bring forward fully worked out proposal. The UTC requests more information on why this should be considered a script difference rather than a style difference within a script (for example such as Gaelic versus Roman). [L2/98-022]

**[91-A41] Action Item** for Rick McGowan: Relay the UTC consensus on Coptic disunification to Michael Everson. [L2/98-022]

PRESENT: Adobe Systems, Inc.; Apple Computer; Basis Technology; Compaq Computer (by proxy); Hewlett Packard; IBM Corporation; Justsystem Corp. (by proxy); Microsoft Corporation; Oracle Corp.; PeopleSoft; RLG; Sun Microsystems; Trigeminal Software; Unisys Corporation (by proxy).

NOT PRESENT: Government of India, MIT; NCR Corporation; Progress Software; Reuters, Ltd.; RWS Group LLC; SAP AG.

*Total members represented: 14, Total not represented: 6*

## **WG20**

**[91-C13] Consensus:** The UTC recommends that Annex A of WG20 TR 10176 be modified to point to two options for handling identifiers: 1) the XML 1.1 model, or 2) the Unicode model. Both are well defined, consistent models. The UTC supports V. S. Umamaheswaran as the editor. [L2/02-142]

**[91-A42] Action Item** for Ken Whistler, Umamaheswaran: Draft text for Annex A of TR 10176 by May 25, 2002. [L2/02-142]

**[91-A43] Action Item** for Lisa Moore: Add identifier stability to the agenda of the next UTC (UTC#92). [L2/02-142]

**[91-C14] Consensus:** The UTC favors disbanding CLAUI.

**[91-A44] Action Item** for Mike Ksar: Report on the status of the liaison between Unicode and SC2 and SC22, both directions.

## **IRG - Glyph Errors in Extension B**

**[91-A45] Action Item** for John Jenkins, Editorial Committee: Issue an erratum and provide corrected glyphs for Han Extension B to Asmus Freytag in reasonably matching truetype format. [L2/02-115]

**[91-A46] Action Item** for Asmus Freytag: Forward the glyph error reports for Han Extension B to John Jenkins and Michel Suignard. [L2/02-115]

**[91-A47] Action Item** for Asmus Freytag: Draft a response to Sato-san's concerns with the Unicode font policy and forward to John Jenkins. [L2/02-116]

**[91-A48] Action Item** for John Jenkins: Raise UTC response to Sato-san's concerns regarding font policy at next week's IRG meeting. [L2/02-116]

**[91-C16] Consensus:** The UTC would like clarification of the Han unification errors and would like to see flexibility allowed in resolving them. [L2/02-115]

**[91-A49] Action Item** for John Jenkins: Relay UTC comments on handling Han unification errors to the IRG at next week's. [L2/02-115]

## **Scripts and New Characters - Deseret**

**[91-C17] Consensus:** The UTC accepts four Deseret characters at the following code locations: [L2/02-169]

U+10426 DESERET CAPITAL LETTER OI

U+10427 DESERET SMALL LETTER OI

U+1044E DESERET CAPITAL LETTER EW

U+1044F DESERET SMALL LETTER EW

**[91-A50] Action Item** for John Jenkins: Prepare a WG2 proposal summary form for the four new Deseret characters, including glyphs and with L2/02-169 as an attachment for Part 2, Amendment 1.

[91-A51] **Action Item** for Ken Whistler: Update the pipeline with the four new Desert characters (91-C17). [L2/02-169]

## IRG - CJK mappings

[91-C18] **Consensus:** The UTC accepts the CJK mapping additions given in L2/02-155, 156, and requests that the IRG add them to the Super CJK database, after verification. Update the Unihan data file and notify WG2 of the changes related to the amendment under ballot.

[91-A52] **Action Item** for Asmus Freytag: Relay the consensus on CJK mapping additions (91-C18) to John Jenkins. [L2/02-155, 156]

[91-A53] **Action Item** for John Jenkins: Relay to the IRG the UTC consensus on CJK mapping additions (91-C18), and make associated updates to the Unihan data file. [L2/02-155, 156]

[91-A54] **Action Item** for Asmus Freytag: As part of the Unicode liaison report, relay to WG2 the UTC consensus on CJK mapping additions (91-C18). [L2/02-155, 156]

## Scripts and New Characters - Aegean

[91-A55] **Action Item** for Rick McGowan, Debbie Anderson: Update document L2/02-191 on Aegean, to include the corrected glyph images; explain why the value in parentheses (the ISO comment) is being removed; remove the two words "Linear B" from the annotations.

[91-A56] **Action Item** for Rick McGowan, Debbie Anderson: Send the revised document on Aegean, titled *Additional Ballot Comments on Aegean* to WG2 (Mike Ksar) for the May meeting. [L2/02-191]

## Scripts and New Characters - UPA

[91-M4] **Motion:** The UTC 1) accepts the UPA repertoire give in document L2/02-192, 2) approves moving the two rows of Greek additions and the Cyrillic addition to the UPA extensions table, and 3) to encode the UPA extension table on Plane 1.

Moved by Mark Davis, seconded by Cathy Wissink

11 for (Adobe, Apple, HP, Justsystem, Microsoft, Oracle, PeopleSoft, RLG, Sun, Trigeminal, Unisys)  
0 against  
3 abstain (IBM, Basis, Compaq).

[91-A57] **Action Item** for Ken Whistler: Update the pipeline to include the repertoire of the UPA accepted in 91-M4. [L2/02-192]

[91-M5] **Motion:** The UTC representatives at WG2 are not instructed to reject the repertoire of UPA if there is no consensus to encode the characters on Plane 1 (affects part 3 of 91-M4). [L2/02-192]

Moved by Asmus Freytag, seconded by Ken Whistler

8 for (Adobe, Apple, Basis, HP, IBM, PeopleSoft, Trigeminal, Unisys)  
1 against (Microsoft)  
5 abstain (Compaq, Justsystem, Oracle, RLG, Sun).

[91-A58] **Action Item** for Asmus Freytag: Notify Michael Everson of the UTC decisions regarding UPA in 91-M4, M5. [L2/02-192]

## Character Deprecation

[91-C19] **Consensus:** The UTC requests the officers establish a process for public review of selected issues. Included will be candidates for deprecation.

[91-A59] **Action Item** for Mark Davis, Officers: Establish the process for public review of issues.

[91-C20] **Consensus:** The UTC proposes that the language tag characters be made candidates for the deprecated property and that this be taken for public review.

[91-A60] **Action Item** for Mark Davis, Editorial Committee: Once the public issues process is established, raise the candidacy for deprecation of the Plane 14 Language Tag characters as an issue.

### Unicode Technical Reports - Collation

[91-C21] **Consensus:** Advance the *Proposed Update to Unicode Technical Standard #10 Collation* to *Unicode Technical Standard #10 Collation*, after incorporating Cathy Wissink's comment on the linguistic applicability of the default table, and after review by the Editorial Committee. [L2/02-173]

[91-A61] **Action Item** for Cathy Wissink: Send text modifications of *Proposed Update to Unicode Technical Standard #10 Collation* to Mark Davis. [L2/02-173]

[91-A62] **Action Item** for Mark Davis, Editorial Committee: Update and post *Unicode Technical Standard #10 Collation*. [L2/02-173]

### Unicode Technical Reports - Properties

[91-C22] **Consensus:** Advance *Proposed Draft Unicode Technical Report #23 Character Properties* to *Draft Unicode Technical Report #23 Character Properties*, after incorporating feedback, and after review by the Editorial Committee. [L2/02-172]

[91-A63] **Action Item** for Asmus Freytag, Editorial Committee: Update and post *Draft Unicode Technical Report #23 Character Properties*. [L2/02-172]

### Unicode Technical Reports - Math

[91-A64] **Action Item** for Asmus Freytag, Murray Sargent: Make updates and post again as *Draft Unicode Technical Report #25 Unicode Support for Mathematics*. [L2/02-174]

### Combining Breve/macron over the oo Pair

[91-C23] **Consensus:** Encode three new double diacritics with the following names and proposed code points: [L2/02-148, 176]

U+FE24 COMBINING DOUBLE BREVE

U+FE25 COMBINING DOUBLE MACRON

U+FE26 COMBINING DOUBLE LOW LINE

[91-A65] **Action Item** for Ken Whistler: Update the pipeline with the three new combining double diacritics (91-C22). [L2/02-148, 176]

[91-A66] **Action Item** for Mark Davis, Ken Whistler: Complete a WG2 proposal summary form, including examples, for the three new double diacritics and forward to WG2 in time for the May meeting (91-C22). [L2/02-148, 176]

[91-A67] **Action Item** for Asmus Freytag: As Unicode liaison to WG2, be advised that the UTC is flexible in the encoding location of the three new combining double diacritics, and would like to see them in the next amendment (91-C22). [L2/02-148, 176]

[91-A68] **Action Item** for Asmus Freytag: Produce the fonts for the three new combining double diacritics (91-C22). [L2/02-148, 176]

### Unicode 4.0



**[91-A69] Action Item** for Asmus Freytag: Include in the liaison report to WG2, the Unicode 4.0 book publication schedule and express the need for stable content and thus the need to synchronize with the two amendments currently under ballot.

## Variation Selection

**[91-C24] Consensus:** Issue a corrigendum removing the two variant sequences as indicated in L2/02-126, and request that WG2 also process a corresponding technical corrigendum.

**[91-A70] Action Item** for Mark Davis: Update L2/02-126 with the requested WG2 action in the beginning and submit as a WG2 document, asking them to issue a corrigendum.

**[91-A71] Action Item** for Mark Davis, Editorial Committee: Create a corrigendum described in L2/02-126 for release in a Unicode update at the appropriate time (3.2.1 or later).

---

*May 3, 2002*

PRESENT: Adobe Systems, Inc.; Apple Computer; Basis Technology; Compaq Computer (by proxy); Hewlett Packard; IBM Corporation; Justsystem Corp. (by proxy); Microsoft Corporation; PeopleSoft; RLG; Sun Microsystems; Trigeminal Software; Unisys Corporation (by proxy).

NOT PRESENT: Government of India, MIT; NCR Corporation; Oracle Corp.; Progress Software; Reuters, Ltd.; RWS Group LLC; SAP AG.

*Total members represented: 13, Total not represented: 7*

## INFITT

**[91-A72] Action Item** for Lisa Moore: Send a formal letter to INFITT informing them that Michael Kaplan will be the Unicode liaison to their organization. Additionally, request information for enhanced block descriptions before August 31, in order to be incorporated into Unicode 4.0.

## Properties - Variants

**[91-C25] Consensus:** Change StandardizedVariants.html to a machine readable text file, and have the Editorial Committee examine producing a visible means of displaying the variant selector characters.

**[91-A73] Action Item** for Lisa Moore: Put StandardizedVariants.html (regarding a machine readable file, 91-C24) onto the agenda for next meeting.

**[91-A74] Action Item** for Mark Davis, Editorial Committee: Have a StandardizedVariants.txt file prepared for Unicode 3.2.1.

**[91-A75] Action Item** for Rick McGowan, Editorial Committee: Add standardized naming of the variant glyphs and add support to GIF serving program for retrieval of representative images.

**[91-A76] Action Item** for Asmus Freytag: Add standardized variant glyphs to the standard charting program.

**[91-A77] Action Item** for Editorial Committee: Decide whether to move StandardizedVariants.html out of the UCD or not.

**[91-A78] Action Item** for Asmus Freytag, Mark Davis: Prepare a paper clarifying of the use of variation selectors with Mongolian.

**[91-C26] Consensus:** The Unicode font policy applies to variants.

## Properties - Default Ignorable Code Points

[91-C27] **Consensus:** Remove U+06DD ARABIC END-OF-AYAH from default ignorable code point property.

[91-A79] **Action Item** for Mark Davis: Remove U+06DD ARABIC END-OF-AYAH from default ignorable code point listing in PropList.txt in Unicode 3.2.1.

[91-A80] **Action Item** UTC/Everyone: Question member experts if U+070F SYRIAC ABBREVIATION MARK should have the default ignorable code point behavior.

[91-A81] **Action Item** for Mark Davis: Raise the question of the U+070F SYRIAC ABBREVIATION MARK (if it should have the default ignorable code point behavior) to the bidi committee.

## East Asian Mapping Tables

[91-C28] **Consensus:** The UTC sees value in publishing information that documents known discrepancies in existing East Asian mapping tables.

[91-A82] **Action Item** for Asmus Freytag: Draft text that documents existing information on known discrepancies in E. Asian mapping tables.

[91-A83] **Action Item** for Mark Davis: Provide info to Asmus Freytag on pointers to information on mapping tables.

## TC46 Mappings

[91-A84] **Action Item** for Cathy Wissink, Joan Aliprand: Respond to Randy Barry, et al. on TC46 mappings.

[91-A85] **Action Item** for Joan Aliprand: Contact Michael Everson after the June WG2 meeting to discuss Glagolitic and to progress his proposal.

## Bidi Issues

[91-C29] **Consensus:** The UTC approves clarifying Bidi reordering and joining as described in points 1, 4, and 6 of L2/02-194, and remands further consideration of points 2, 3, and 5 to the Bidi Committee.

[91-A86] **Action Item** for Mark Davis, Editorial Committee: Document the UTC response to issues raised in points 1, 4, and 6b of L2/02-194.

[91-A87] **Action Item** for Asmus Freytag, Mark Davis, Editorial Committee: Document the UTC response to issues raised in point 6a of L2/02-194.

[91-A88] **Action Item** for Mark Davis, Bidi Committee: Come to consensus on issues raised in points 2, 3, and 5 of L2/02-194, and any other outstanding issues prior to the August UTC meeting.

[91-A89] **Action Item** for Cathy Wissink: Close old Bidi Action Items from the list.

## Unicode Technical Reports - Conformance Testing

[91-C30] **Consensus:** The UTC requests the production of two documents on Unicode conformance: (1) one on the conformance model and (2) one on test cases. The UTC also sees the need for further test data. [L2/02-149, 165]

[91-A90] **Action Item** for Ken Whistler: Develop further documentation on the Unicode conformance model. [L2/02-165]

**[91-A91] Action Item** for Mark Davis: Develop further test cases and test data for Unicode conformance testing. [L2/02-149]

**[91-A92] Action Item** for all UTC Members: Provide feedback to Mark Davis on the proposed conformance test cases. [L2/02-149]

## Terminology

**[91-C31] Consensus:** The UTC agrees on the following use of terminology. Note that Assigned, Reserved, Designated, and Undesignated will be formally defined:

	Code Point		General Category	Status
Assigned to abstract character*	Normal	1. Graphic	(All other)	Designated* (assigned code point or simply assigned)
		2. Format	Cf	
	3. Control		Cc	
	4. PUA		Co	
Reserved*	5. Surrogate (reserved for UTF-16)		Cs	Undesignated* (unassigned)
	6. Noncharacter (permanently reserved for internal uses)		Cn	
	7. Reserved (for future assignment)			

**[91-A93] Action Item** for Ken Whistler, Editorial Committee: Incorporate the terminology definitions from 91-C30 into 4.0 text.

**[91-C32] Consensus:** The UTC agrees that scalar value is to be defined as equivalent to non-surrogate code points. Further work to define this term is remanded to the Editorial Committee.

**[91-A94] Action Item** for Ken Whistler, Editorial Committee: Update the definition scalar value to be the equivalent of non-surrogate code points for Unicode 4.0.

---

## UTC Attendees

Attendees:	Representing:
Joan Aliprand	RLG
Debbie Anderson	UC Berkeley
Mark Davis	IBM
Asmus Freytag	Basis
Deborah Goldsmith	Apple
Hideki Hiura	Sun
Michael Kaplan	Trigeminal
Mike Ksar	SC2/WG2
Rick McGowan	Unicode
Lisa Moore	IBM
Eric Muller	Adobe
Toby Phipps	PeopleSoft

Gabriel Plumlee	PeopleSoft
Lynn Ruggles	HP
Murray Sargent	Microsoft
Michel Suignard	Microsoft
V.S. Umamaheswaran	IBM
Ken Whistler	Sybase
Cathy Wissink	Microsoft
Jianping Yang	Oracle

---

### UTC Full Member Attendance Roster

Member	4/30/02	5/01/02	5/02/02	5/03/02
1. Adobe Systems, Inc.	yes	yes	yes	yes
2. Apple Computer, Inc.	yes	yes	yes	yes
3. Basis Technology	yes	yes	yes	yes
4. Compaq Computer Corporation	yes (proxy)	yes (proxy)	yes (proxy)	yes (proxy)
5. Gov't of India, MIT				
8. IBM Corporation	yes	yes	yes	yes
9. Justsystem Corporation		yes (proxy)	yes (proxy)	yes (proxy)
10. Microsoft Corporation	yes	yes	yes	yes
11. NCR Corporation				
12. Oracle Corporation		yes	yes	
13. PeopleSoft	yes	yes	yes	yes
14. Progress Software				
15. RLG, Inc.	yes (proxy)	yes (proxy)	yes	yes
16. Reuters, Ltd.				
17. RWS, Ltd.				
18. SAP AG				
19. Sun Microsystems, Inc.		yes	yes	yes
20. Sybase, Inc.(membership dropped 5/1)	yes			
21. Trigeminal	yes	yes	yes	yes
22. Unisys	yes (proxy)	yes (proxy)	yes (proxy)	yes (proxy)