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

Doc. Type:	**Input to ISO/IEC 10646:2003**
Title:	**Proposed additions to ISO/IEC 10646:2003**
Source:	**US National Body**
Project:	JTC1 02.18
Status:	For review by WG2
Date:	2006-08-09
Distribution:	WG2
Reference:	
Medium:	

This document describes additions to ISO/IEC 10646:2003 that the US National body would like to see integrated in the standard. They are classified in 3 categories:
1) Additions that should preferably be done in the currently balloted amendment (3.2)
2) Additions for which the US has no preference for either the current or next amendment.
3) Addition that should preferably be done in a future amendment.

Current Amendment (3.2)

The items in this category are considered mature enough that the US National body would not object to see them added in the currently balloted draft of Amendment 3.2, but these additions could also be proposed in a future amendment if deemed more appropriate.

1. Addition of Old Cyrillic characters
The US is in favor of adding the following 22 Old Cyrillic characters as proposed by document WG2 N3097 (L2/06-172) at the following positions:
```
2DE0 COMBINING CYRILLIC LETTER BUKI
2DE1 COMBINING CYRILLIC LETTER VEDI
2DE2 COMBINING CYRILLIC LETTER GLAGOL
2DE3 COMBINING CYRILLIC LETTER DOBRO
2DE4 COMBINING CYRILLIC LETTER ZHIVETE
2DE5 COMBINING CYRILLIC LETTER ZEMLYA
2DE6 COMBINING CYRILLIC LETTER KAKO
2DE7 COMBINING CYRILLIC LETTER LYUDI
2DE8 COMBINING CYRILLIC LETTER MYSLETE
2DE9 COMBINING CYRILLIC LETTER NASH
2DEA COMBINING CYRILLIC LETTER ON
2DEB COMBINING CYRILLIC LETTER POKOY
2DEC COMBINING CYRILLIC LETTER RTSY
2DED COMBINING CYRILLIC LETTER SLOVO
2DEE COMBINING CYRILLIC LETTER TVERDO
```

```
2DEF COMBINING CYRILLIC LETTER KHER
2DF0 COMBINING CYRILLIC LETTER TSY
2DF1 COMBINING CYRILLIC LETTER CHERV
2DF2 COMBINING CYRILLIC LETTER SHA
2DF3 COMBINING CYRILLIC LETTER SHTA
2DF4 COMBINING CYRILLIC LETTER FITA
2DF5 COMBINING CYRILLIC LETTER SLOVO-TVERDO
```

The document also proposes the addition of COMBINING CYRILLIC LITERAL TITLO but the US is in favor of unifying it with the already encoded U+0483 CYRILLIC COMBINING TITLO U+0483.

2. Addition of Arabic letters

The US is in favor of adding the following 16 Arabic characters as proposed by document WG2 N3117 (L2/06-149).

Khovar

```
U+076E ARABIC LETTER HAH WITH SMALL ARABIC LETTER TAH BELOW
U+076F ARABIC LETTER HAH WITH SMALL ARABIC LETTER TAH AND TWO DOTS
U+0770 ARABIC LETTER SEEN WITH SMALL ARABIC LETTER TAH AND TWO DOTS
U+0771 ARABIC LETTER REH WITH SMALL ARABIC LETTER TAH AND TWO DOTS
```

Torwali
```
U+0772 ARABIC LETTER HAH WITH SMALL ARABIC LETTER TAH ABOVE
```

Burushaski
```
U+0773 ARABIC LETTER ALEF WITH EASTERN ARABIC-INDIC DIGIT TWO ABOVE
U+0774 ARABIC LETTER ALEF WITH EASTERN ARABIC-INDIC DIGIT THREE ABOVE
U+0775 ARABIC LETTER FARSI YEH WITH EASTERN ARABIC-INDIC DIGIT TWO ABOVE
U+0776 ARABIC LETTER FARSI YEH WITH EASTERN ARABIC-INDIC DIGIT THREE ABOVE
U+0777 ARABIC LETTER FARSI YEH WITH EASTERN ARABIC-INDIC DIGIT FOUR BELOW
U+0778 ARABIC LETTER WAW WITH EASTERN ARABIC-INDIC DIGIT TWO ABOVE
U+0779 ARABIC LETTER WAW WITH EASTERN ARABIC-INDIC DIGIT THREE ABOVE
U+077A ARABIC LETTER YEH BARREE WITH EASTERN ARABIC-INDIC DIGIT TWO ABOVE
U+077B ARABIC LETTER YEH BARREE WITH EASTERN ARABIC-INDIC DIGIT THREE ABOVE
U+077C ARABIC LETTER HAH WITH EASTERN ARABIC-INDIC DIGIT FOUR BELOW
U+077D ARABIC LETTER SEEN WITH EASTERN ARABIC-INDIC DIGIT FOUR ABOVE
```

3. Addition of Arabic Mathematical symbols

The US is in favor of adding the following 27 Arabic Mathematical symbols Egyptian transliteration characters in a Latin block as proposed by document WG2 N3086 (L2/06-125) with the following modified code positions (for the arrows). In addition, two character names have been changed from the proposal, see below.

Arrows (2B30-2B44)
```
2B30 LEFT ARROW WITH SMALL CIRCLE
2B31 TREE LEFTWARDS ARROWS
2B32 LEFT ARROW WITH CIRCLED PLUS
2B33 LONG LEFTWARDS SQUIGGLE ARROW
2B34 LEFTWARDS TWO-HEADED ARROW WITH VERTICAL STROKE
2B35 LEFTWARDS TWO-HEADED ARROW WITH DOUBLE VERTICAL STROKE
2B36 LEFTWARDS TWO-HEADED ARROW FROM BAR
2B37 LEFTWARDS TWO-HEADED TRIPLE DASH ARROW
2B38 LEFTWARDS ARROW WITH DOTTED STEM
2B39 LEFTWARDS ARROW WITH TAIL WITH VERTICAL STROKE
2B3A LEFTWARDS ARROW WITH TAIL WITH DOUBLE VERTICAL STROKE
2B3B LEFTWARDS TWO-HEADED ARROW WITH TAIL
2B3C LEFTWARDS TWO-HEADED ARROW WITH TAIL WITH VERTICAL STROKE
2B3D LEFTWARDS TWO-HEADED ARROW WITH TAIL WITH DOUBLE VERTICAL STROKE
2B3E LEFTWARDS ARROW THROUGH X
2B3F WAVE ARROW POINTING DIRECTLY LEFT
2B40 EQUALS SIGN ABOVE LEFTWARDS ARROW
```

```
2B41 REVERSED TILDE OPERATOR ABOVE LEFTWARDS ARROW
2B42 LEFTWARDS ARROW ABOVE REVERSED ALMOST EQUAL TO
2B43 RIGHTWARDS ARROW THROUGH LESS-THAN
2B44 RIGHTWARDS ARROW THROUGH SUBSET
```

Arabic symbols (0606-060A)
```
0606 ARABIC-INDIC CUBE ROOT
0607 ARABIC-INDIC FOURTH ROOT
0608 ARABIC RAY
0609 ARABIC-INDIC PER MILLE SIGN
060A ARABIC-INDIC PER TEN THOUSAND SIGN
```
Miscellaneous Symbols (269D)
```
269D OUTLINED WHITE ST
```

Concerning the characters proposed for 2B41 and 2B42, the original proposal had a mismatch between the glyphs and the name, showing reversed 'tilde' and 'almost equal to' glyph fragments while giving names without the 'reversed' qualification. Adding 'reversed' to the name for 2B41 should not be controversial. However using 'reversed almost equal' for 2B42 may not convey the right meaning because in a mirrored context the intent is to convey the meaning of 'almost equal to'.

4. Addition of Astrology symbols
The US is in favor of adding the following Astrology symbols as proposed by document WG2 N3110 (L2/06-171):
```
26B3 CERES
26B4 PALLAS
26B5 JUNO
26B6 VESTA
26B7 CHIRON
26B8 BLACK MOON LILITH
26B9 SEXTILE
26BA SEMISEXTILE
26BB QUINCUNX
26BC SESQUIQUADRATE
```

5. Addition of Tamil character
The US is in favor of adding the following Tamil character as proposed by document WG2 N3119 (L2/06-184):
```
0BD0 TAMIL OM
```

6. Addition of Devanagari Sign High Spacing Dot
The US is in favor of adding the following character:
```
0971  DEVANAGARI SIGN HIGH SPACING DOT
```
The rationale for inclusion is provided in document WG2 N3125 (L2/06-137).

7. Addition of Modifier Letter
The US is in favor of adding the following Modifier Letter as proposed by document L2/06-244 (WG2 TBD):
```
A788 MODIFIER LETTER LOW CIRCUMFLEX ACCENT
```

8. Addition of Myanmar character
The US is in favor of adding the following Myanmar character as proposed by document WG2 N3115 (L2/06-249):
```
1035 MYANMAR VOWEL SIGN E ABOVE
```

Current or Future amendment

The US National body is in favor of adding the characters included in the following items and has no strong preference whether they should be included in the current amendment (3.2) or in a future amendment.

9. Addition of Ancient Roman characters
The US is in favor of adding the following Ancient Roman characters as proposed by document L2/06-234 (WG2 TBD).
Roman Weights and Measures
```
10190 ROMAN SEXTANS SIGN
10191 ROMAN UNCIA SIGN
10192 ROMAN SEMUNCIA SIGN
10193 ROMAN SEXTULA SIGN
10194 ROMAN DIMIDIA SEXTULA SIGN
10195 ROMAN SILIQUA SIGN
```
Roman Coin Symbols
```
10196 ROMAN DENARIUS SIGN
10197 ROMAN QUINARIUS SIGN
10198 ROMAN SESTERTIUS SIGN
10199 ROMAN DUPONDIUS SIGN
1019A ROMAN AS SIGN
```

10. Addition of Telugu characters
The US is in favor of adding the following Telugu characters as proposed by document WG2 N3116R (L2/06-250R):
```
0C3D TELUGU SIGN AVAGRAHA
0C58 TELUGU LETTER TSA
0C59 TELUGU LETTER DZA
0C62 TELUGU VOWEL SIGN VOCALIC L
0C63 TELUGU VOWEL SIGN VOCALIC LL
0C71 TELUGU SIGN ARDHAVISARGA
```

11. Addition of Greek and Latin characters
The US is in favor of adding the following Greek and Latin characters as proposed by document WG2 N3122 (L2/06-266):
```
2C6F LATIN CAPITAL LETTER TURNED A
03CF GREEK CAPITAL KAI SYMBOL
A780 LATIN CAPITAL LETTER TURNED L
A781 LATIN SMALL LETTER TURNED L
```

Future amendment

The item in this category is not considered mature enough to be incorporated in the amendment currently balloted (3.2). The following additions should be added in a future amendment to provide sufficient time for additional feedback.

12. Addition of Chillu characters
The US is in favor of adding the following Chillu characters in the Malayalam block as proposed by document WG2 N3126 (L2/06-207)
```
0D7A MALAYALAM LETTER CHILLU NN
0D7B MALAYALAM LETTER CHILLU N
0D7C MALAYALAM LETTER CHILLU RR
0D7D MALAYALAM LETTER CHILLU L
0D7E MALAYALAM LETTER CHILLU LL
0D7F MALAYALAM LETTER CHILLU K
```