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Universal Multiple-Octet Coded Character Set International Organization for Standardization Organisation internationale de normalisation Международная организация по стандартизации

Doc Type: Working Group Document

Title: Proposal to encode four Qur'anic Arabic characters in the UCS

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Individual Contribution Status:

For consideration by JTC1/SC2/WG2 and UTC **Action:**

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Request. This document asks for the addition of four Qur'anic Arabic characters to the UCS. The characters are used in Qur'ans published in Iran, most importantly the new official Qur'ans published by the governmental Centre for Qur'an Printing and Publishing of the Islamic Republic of Iran (Markaz-e Tab' va Našr-e Qor'ān-e Jomhuri-ye Eslāmi-ye Irān).

If this proposal is adopted, the following characters would exist:

| ز | | |
|---|------|------------------------|
| | 0617 | ARABIC SMALL HIGH ZAIN |
| | | * Qur'anic use |
| Ó | 0618 | ARABIC SMALL FATHA |
| | | * Qur'anic use |
| Ć | 0619 | ARABIC SMALL DAMMA |
| | | * Qur'anic use |
| Ò | 061A | ARABIC SMALL KASRA |
| | | * Qur'anic use |

The following combining classes are suggested. The smaller version of the harakat share the same properties of the normal versions.

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0617; ARABIC SMALL HIGH ZAIN; Mn; 230; NSM;;;;; N;;;;
0618; ARABIC SMALL FATHA; Mn; 30; NSM;;;;; N;;;;
0619; ARABIC SMALL DAMMA; Mn; 31; NSM;;;;; N;;;;
061A; ARABIC SMALL KASRA; Mn; 32; NSM;;;;; N;;;;;
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ARABIC SMALL HIGH ZAIN is a Qur'anic annotation sign. Semantically, it is more or less equivalent to the Our'anic symbol used in the Arab world, U+06D6 ARABIC SMALL HIGH LIGATURE SAD WITH LAM WITH ALEF MAKSURA. The character is used to indicate that while a pause can be made at the point it appears in the text, it is recommended that one recite the scripture without a pause. This character is also comparable to U+0615 ARABIC SMALL HIGH TAH (which is used in Iran as roughly equivalent to U+06D7 ARABIC SMALL HIGH LIGATURE QAF WITH LAM WITH ALEF MAKSURA).

ARABIC SMALL FATAH, ARABIC SMALL DAMMA, and ARABIC SMALL KASRA are smaller versions of the simple harakat ARABIC FATAH, ARABIC DAMMA, and ARABIC KASRA. Readers who do not know the finer points of the grammar of the standard Arabic language make use of these characters to pronounce some initial ALEFS correctly. For example, see Figure 2, verses 2 and 4 from *Sura* 83. Here, verse 2 begins with an ALEF bearing a SMALL FATHA, while verse 4 starts with an ALEF bearing a normal FATHA. This means that if a reader recites verse 1 and verse 2 of the *Sura* continuously, that is, without stopping at the end of verse 1, he or she should not pronounce the initial ALEF of verse 2, and should instead connect the final FATHA of verse 1 to the first letter (LAM) of verse 2. If, on the other hand, the reader pauses at the end of verse 1, he or she should pronounce the ALEF and FATHA when beginning to read from verse 2. But when reciting verse 4, the ALEF and FATHA that begins it should always be pronounced, whether the reader had paused at the end of verse 3 or not. In Qur'ans published in Arabic-speaking countries, U+0671 ARABIC LETTER ALEF WASLA is used instead to represent the combination of U+0627 ARABIC LETTER ALEF and the small vowels.

Ordering. The three vowels SMALL FATHA, SMALL DAMMA, and SMALL KASRA all sort with FATHA, DAMMA, and KASRA, with a third-level difference to break ties.

In the chart shown on page 5 below, the background color signifies the status of the character with regard to the UTC and WG2. Light yellow is for the characters already under ballot; light green is for characters proposed in WG2 N3180; and bright yellow indicates the characters proposed in this document. In the names list these are indicated with italics, with underlined italics, and with underlining respectively.

Bibliography. All examples come from the newer Qur'ans published by the Centre for Qur'an Printing and Publishing of the Islamic Republic of Iran, which are typeset using computers in a font resembling the style of Othman Taha. The specific section describing the usage of the small *harakat* and the annotation mark is from:

Qor'ān-e Karim. With translation into Persian by Abdol-Mohammad Ayati. Tehran, Madreseh, 1382 AP (= 2003 CE). ISBN 964-385-280-6.

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د) علائم وقف و سکت:

از بین علائم وقف و سکت متداول، این علائم انتخاب شده است:

- م علامت وقف لازم (وصل به عبارت بعد جايز نيست)
 - ط علامت وقف مطلق (وقف بر أن نيكوست)
 - ج علامت جواز وقف

ز کاعلامت جواز وقف، ولی وصل آن نیکوتر است.

بی علامت وقف معانقه (در صورت وقف بر علامت اول، وقف بــر دومــی جایز نیست و در صورت وقف بر علامت دوم، ابتدا از اولی جایز نیست)

لا علامت عدم جواز وقف و در برخی موارد، عدم جواز ابتدا از کلمه بعد

س علامت سکت (اگر قاری میخواهد وصل کند، باید در محل علامت ،
 بدون تجدید نفس، مکث کوتاهی نماید)

Figure 1. Sample text describing the use of ARABIC SMALL HIGH ZAIN.

كَلا بَل ثُكَذِبونَ بِالدّينِ ۞ وَإِنَّ عَلَيكُم لَحَفِظينَ ۞ كِرامًا كَاتِبينَ ۞ يَعَمَونَ ما تَفْعَلُونَ ۞ إِنَّ الأَبرارَ لَفَى نَعِيمٍ ۞ وَإِنَّ الأَبرارَ لَفَى نَعِيمٍ ۞ وَإِنَّ الفُجَارَ لَفَى جَحيمٍ ۞ يَصَلُونَها يَوْمَ الدّينِ ۞ وَما هُم عَنها بِغَانَبْينَ ۞ وَما هُم عَنها بِغَانَبْينَ ۞ وَما اللّه عَنها بِغَانَبْينَ ۞ وَما اللّه عَنها بِغَانَبْينَ ۞ وَما الدّينِ ۞ وَمَ الدّينِ ۞ وَما الدّينِ ۞ وَما الدّينِ ۞ مُعَمَّ ما اَدرنكَ ما يَوْمُ الدّينِ ۞ ثُمُّ ما اَدرنكَ ما يَوْمُ الدّينِ ۞ يَوْمَ لا تَملِكُ نَفْسُ لِنَفْسٍ شَيْطًا ۖ وَالْمَورَ يَوْمَئذٍ لِلّهِ ۞ يَوْمُ اللّهِ الرّحيلِ اللّهِ الرّحيلِ اللّهِ الرّحيلِ اللّهِ الرّحيلِ اللّهِ الرّحيلِ اللهِ الرّحيلِ اللّهِ الرّحيلِ اللهِ الرّحيلِ اللهِ الرّحيلِ اللهِ الرّحيلِ اللهِ الرّحيلِ اللهُ الرّب العلمَينَ ۞ وَزُنُوهُم يُخْسِرُونَ ﴿ اللّهُ النّاسُ لِرَبِ العلمَينَ ۞ مَبعوثُونَ ۞ لِيَوْمَ يَقُومُ النّاسُ لِرَبِ العلمَينَ ۞ مَبعوثُونَ ۞ لِيَوْمَ يَقُومُ النّاسُ لِرَبِ العلمَينَ ۞ مَبعوثُونَ ۞ لِيَوْمَ يَقُومُ النّاسُ لِرَبِ العلمَينَ ۞ مَبعوثُونَ ۞ يَقُومُ النّاسُ لِرَبِ العلمَينَ ۞ مَبعوثُونَ ۞ يَقُومُ النّاسُ لِرَبِ العلمَينَ ۞ مَبعوثُونَ ۞ يَوْمَ يَقُومُ النّاسُ لِرَبِ العلمَينَ ۞ مَبعوثُونَ ۞ يَقُومُ النّاسُ لِرَبِ العلمَينَ ۞ مَبعوثُونَ ۞ إِيْمَ يَقُومُ النّاسُ لِرَبِ العلمَينَ ۞ مَبعوثُونَ ۞ إِيْمَ يَقُومُ النّاسُ لِرَبِ العلمَينَ ۞ مَبعوثُونَ ۞ إِيْمَ يَقُومُ النّاسُ لِرَبِ العلمَينَ ۞ مَبْعُونُ الْمُنْ الْم

Figure 2. Sample showing ARABIC SMALL HIGH ZAIN and ARABIC SMALL FATHA over ALEF, alongside ARABIC FATHA over ALEF.

بَعضُهُم لِبَعضٍ عَدُوَّ إِلَّا المُتَّقِينَ ﴿ يَعْبَادِ لاَحُوفُ عَلَيْكُو اليَومَ وَلاَ اَنتُم تَحَزَنُونَ ﴿ اللَّهِ اللَّهِ اللَّهِ اللَّهِ اللَّهِ اللَّهِ اللَّهِ اللَّهُ وَازواجُكُو وَكَانُوا مُسلِمينَ ﴿ اللَّهُ اللَّهُ اللَّهُ اللَّهُ اللَّهُ اللَّهُ وَازواجُكُو تَحَبَرُونَ ﴿ يُطَافُ عَلَيهِم بِصِحافٍ مِن ذَهَبٍ وَاكوابٍ تُحَبَرُونَ ﴿ يُطافُ عَلَيهِم بِصِحافٍ مِن ذَهَبٍ وَاكوابٍ تُحَبَرُونَ ﴿ يُطافُ عَلَيهِم بِصِحافٍ مِن ذَهَبٍ وَاكوابٍ وَفيها ما تَسْتَه يوالاَنفُسُ وَتَلَدُّ الاَعْيُثُ وَانتُم فيها وَفيها ما تَسْتَه يوالاَنفُسُ وَتَلَدُّ الاَعْيُثُ وَانتُم فيها خَلُونَ ﴿ وَفيها ما كَنتُم فيها فاكِهَةً كَثِيرَةً مِنها تَأْكُلُونَ ﴿ وَاللّهُ الْحَيْلُ الْحَيْلُ الْحَيْلُ الْحَيْلُ الْحَالُونَ اللّهُ الْحَيْلُ الْحَيْلُ الْحَيْلُ اللّهُ الْحَيْلُ اللّهُ الْحَيْلُ الْمُعَلِّى الْحَيْلُ الْحَيْلُ الْحَيْلُ الْحَيْلُ الْحَيْلُ الْمُعَلِّى الْحَيْلُ الْحَيْلُ الْحَيْلُ الْحَيْلُ الْحَيْلُ الْحَيْلُ الْحَيْلُ الْحَيْلُونَ الْحَيْلُونَ الْمَالُونَ الْحَيْلُونَ الْحَيْلُ الْحَيْلُ الْحَيْلُ الْحَيْلُ الْحَيْلُ الْحَيْلُ الْحَيْلُونَ الْحَيْلُونَ الْمُعَلِي الْحَيْلُونَ الْمُتَعْمُ الْعُلْمُ الْمُونَ الْمُعْلُونَ الْمُتَعْمُ الْعُلْمُ الْمُعْتَلِي الْحَيْلُونَ الْمُتُونَ الْحَيْلُونُ الْمُعْلِقُلُونَ الْمُعْلِقُلُونُ الْمُعْلِمُ الْمُنْ الْمُنْ الْمُعْلِقُونَ الْمُعْلِقُلُونَ الْمُعْلِقُلُونَ الْمُعُلُونُ الْمُعْلِقُلُونَ الْمُعْلِقُلُونُ الْمُعُلِقُلُونُ الْمُعُلُونَ الْمُعْلِمُ الْمُعْلِقُ الْمُعْلِقُلُونُ الْمُعْلِقُلُ الْمُعْلِقُلُونُ الْمُعْلِقُلُونُ الْمُعْلِقُلُونُ الْمُعْلِقُلَالُونُ الْمُعْلِقُلُونُ الْمُعْلِقُلُونُ الْمُعْلِقُلُولُ الْمُعْلِقُلُولُ الْمُعْلِمُ الْمُعْلِقُلُولُ الْمُعْلِقُلُولُ الْمُعْلِمُ الْمُعْلِقُلُولُ الْمُعْلِقُلُولُ الْمُعْلِمُ الْمُعْلِمُ ا

Figure 3. Sample showing ARABIC SMALL FATHA and ARABIC SMALL DAMMA.

وَاشْرَبُوا مِن رِزقِ اللهِ وَلاتَعثُوا فِي الأَرْضِ مُفْسِدينَ ﴿ وَإِذْ قُلْتُم يِلْمُوسِي لَن نَصِيرَ عَلَىٰ طَعامٍ واحِدٍ فَادعُ لَنَا رَبَّكَ يُخْرِج لَنَا مِمَّا تُنبِتُ الأَرْضُ مِن بَقلِها وَقِثْ آئها وَفومِها وُعَدَسِها وَبَصَلِها قَالَ الشَيتَبدِلوبَ الَّذي هُو اَدن وَعَدَسِها وَبَصَلِها قَالَ السَّتَبدِلوبَ الَّذي هُو اَدن وَعَدَسِها وَبَصَلِها قَالَ السَّتَبدِلوبَ الَّذي هُو اَدن وَعَدَسِها وَبَصَلِها قَالَ السَّتَبدِلوبَ الله وَيَعْمَلُ مَا سَالتُم وَعَدَرِبَ مُعَلِيهِمُ الذِلَّةُ وَ المَسكَنَةُ وَ بَاءُو بِغَضَبٍ مِنَ وَضَرِبَت عَلَيهِمُ الذِلَّةُ وَ المَسكَنَةُ وَ بَاءُو بِغَضَبٍ مِنَ اللهِ وَيَقتُلُونَ اللهِ وَيَقتُلُونَ اللهِ وَيَقتُلُونَ النَّهِ وَيَقتُلُونَ النَّهِ وَيَقتُلُونَ فَي النَّهِ وَيَقتُلُونَ النَّهِ وَيَقتُلُونَ النَّهِ وَيَقتُلُونَ النَّهِ وَيَقتُلُونَ فَي النَّهِ وَيَقتُلُونَ النَّهِ عَلَي اللهِ وَيَقتُلُونَ النَّهِ عَيْرِ الْحَقِّ ذَلِكَ بِمَا عَصَوا وَكانوا يَعتَدونَ اللهُ النَّيْمِينَ بِغَيْرِ الْحَقِّ ذَلِكَ بِمَا عَصَوا وَكانوا يَعتَدونَ النَّهُ وَيَعْتَدونَ النَّا اللهِ الْمَعْمُ الذَيْكَ بِمَا عَصَوا وَكانوا يَعتَدونَ اللهُ النَّهِ الْمَعْمُ الذَيْكَ بِمُ الْمَالِيَةُ فَلُولَ اللهُ اله

Figure 4. Sample showing ARABIC SMALL KASRA.

البته در مواردی که همزهٔ وصل در آغاز آیه یا بعد از علامت وقف واقع شده، حرکت همزهٔ وصل ریزتر از حرکات معمولی نوشته شده است؛ مانند: مُسلِمیناً اُدخُلُوا

Figure 5. Text describing the use of the three small vowels, showing ARABIC SMALL DAMMA. The text follows an introduction which explains how other *alef*s and *harakats* are written, and reads: "Except in cases when the *wasla hamza* [*alef*] occurs in the beginning of the Ayah or after a *waqf*, the *harakat* of the *hamza* [*alef*] has been written much smaller than the normal *harakat*; thus: *moslimīn-a* (69) *odxolu*."

TABLE XXX - Row 06: ARABIC

| | 060 | 061 | 062 | 063 | 064 | 065 | 066 | 067 |
|---|-----|----------|----------|-----|----------|----------|-----|-----|
| 0 | | ់ | | ذ | - | 0 | • | ं |
| 1 | | ្ | ç | ر | ف | ៉ | 1 | Ĩ |
| 2 | ۰ | ි | 1 | j | ق | ి | ۲ | عہ |
| 3 | ص | ै | <u> </u> | س | خ | | ٣ | عہ |
| 4 | | ੋਂ | ؤ | ىش | J | Ć | ٤ | ٤ |
| 5 | | ٥ | ء | ص | م | ् | 0 | ٤ |
| 6 | 1 | ै | ئ | ض | ن | <u>-</u> | ٢ | ۇ |
| 7 | \$ | Ċ | ١ | ط | ٥ | Ć | ٧ | 9 |
| 8 | œ | Ó | ب | 岜 | و | ੱ | ٨ | ئ |
| 9 | %. | Ć | ö | ع | ی | | ٩ | ط |
| Α | */ | Ó | ت | غ | ي | Č | % | ٺ |
| В | ف | . | ث | ػ | ీ | ै | ر | ب |
| С | 6 | | ج | ؼ | ీ | ় | , | ټ |
| D | , | | ح | ؽ | <u> </u> | ৾ | * | ت |
| Е | • | | خ | ؾ | Ó | Ő | U | Ų |
| F | وع | ? | د | ؿ | ំ | | و | ٿ |

TABLE XXX - Row 06: ARABIC

| hex | Name |
|------------|---|
| 00 | ARABIC NUMBER SIGN |
| 01 | ARABIC SIGN SANAH |
| 02 | ARABIC FOOTNOTE MARKER |
| 03 04 | ARABIC SIGN SAFHA (This position shall not be used) |
| 05 | (This position shall not be used) |
| 06 | ARABIC-INDIC CUBE ROOT |
| 07 | ARABIC-INDIC FOURTH ROOT |
| 08 09 | ARABIC RAY ARABIC-INDIC PER MILLE SIGN |
| 0A | ARABIC-INDIC PER TEN THOUSAND SIGN |
| 0B | AFGHANI SIGN |
| 0C | ARABIC COMMA ARABIC DATE SEPARATOR |
| 0D 0E | ARABIC POETIC VERSE SIGN |
| 0F | ARABIC SIGN MISRA |
| 10 | ARABIC SIGN SALLALLAHOU ALAYHE WASSALLAM |
| 11 12 | ARABIC SIGN ALAYHE ASSALLAM ARABIC SIGN RAHMATULLAH ALAYHE |
| 13 | ARABIC SIGN RADI ALLAHOU ANHU |
| 14 | ARABIC SIGN TAKHALLUS |
| 15 16 | ARABIC SMALL HIGH TAH |
| 17 | ARABIC SMALL HIGH ALEF-LAM-YEH ARABIC SMALL HIGH ZAIN |
| 18 | ARABIC SMALL FATHA |
| 19 | ARABIC SMALL KASBA |
| 1A 1B | ARABIC SMALL KASRA ARABIC SEMICOLON |
| 1C | (This position shall not be used) |
| 1 <u>D</u> | (This position shall not be used) |
| 1E 1F | ARABIC TRIPLE DOT PUNCTUATION MARK ARABIC QUESTION MARK |
| 20 | (This position shall not be used) |
| 21 | ÀRABIC LETTER HAMZA |
| 22 | ARABIC LETTER ALEF WITH MADDA ABOVE ARABIC LETTER ALEF WITH HAMZA ABOVE |
| 23 24 | ARABIC LETTER WAW WITH HAMZA ABOVE |
| 25 | ARABIC LETTER ALEF WITH HAMZA BELOW |
| 26 | ARABIC LETTER ALE |
| 27 28 | ARABIC LETTER ALEF ARABIC LETTER BEH |
| 29 | ARABIC LETTER TEH MARBUTA |
| 2A | ARABIC LETTER TEH |
| 2B 2C | ARABIC LETTER THEH ARABIC LETTER JEEM |
| 2D | ARABIC LETTER HAH |
| 2E | ARABIC LETTER KHAH |
| 2F 30 | ARABIC LETTER DAL ARABIC LETTER THAL |
| 31 | ARABIC LETTER THAL |
| 32 | ARABIC LETTER ZAIN |
| 33 | ARABIC LETTER SEEN |
| 34 35 | ARABIC LETTER SHEEN ARABIC LETTER SAD |
| 36 | ARABIC LETTER DAD |
| 37 | ARABIC LETTER TAH |
| 38 | ARABIC LETTER ZAH ARABIC LETTER AIN |
| 3A | ARABIC LETTER GHAIN |
| 3B | ARABIC LETTER KEHEH WITH TWO DOTS ABOVE |
| 3C 3D | ARABIC LETTER KEHEH WITH THREE DOTS BELOW ARABIC LETTER YEH WITH INVERTED V |
| 3E | ARABIC LETTER YEH WITH TWO DOTS ABOVE |
| 3F | ARABIC LETTER YEH WITH THREE DOTS ABOVE |
| 40 41 | ARABIC TATWEEL ARABIC LETTER FEH |
| 42 | ARABIC LETTER PER |
| 43 | ARABIC LETTER KAF |
| 44 | ARABIC LETTER LAM |
| 45 46 | ARABIC LETTER MEEM ARABIC LETTER NOON |
| 47 | ARABIC LETTER HEH |
| 48 | ARABIC LETTER WAW |
| 49 4A | ARABIC LETTER ALEF MAKSURA ARABIC LETTER YEH |
| 4B | ARABIC FATHATAN |
| 4C | ARABIC DAMMATAN |
| 4D 4E | ARABIC KASRATAN |
| 4E 4F | ARABIC FATHA ARABIC DAMMA |
| 50 | ARABIC KASRA |
| 51 | ARABIC SHADDA |
| 52 53 | ARABIC SUKUN ARABIC MADDAH ABOVE |
| 54 | ARABIC HAMZA ABOVE |
| 55 | ARABIC HAMZA BELOW |
| 56 57 | ARABIC SUBSCRIPT ALEF ARABIC INVERTED DAMMA |
| 58 | ARABIC MARK NOON GHUNNA |
| | <u> </u> |

| 59 ARABIC ZWARAKAY 5A ARABIC VOWEL SIGN SMALL V ABOVE 5B ARABIC VOWEL SIGN INVERTED SMALL V ABOVE 5C ARABIC VOWEL SIGN DOT BELOW 5D ARABIC REVERSED DAMMA 5E ARABIC FATHA WITH TWO DOTS 5F (This position shall not be used) 60 ARABIC-INDIC DIGIT ZERO 61 ARABIC-INDIC DIGIT TWO 63 ARABIC-INDIC DIGIT TWO 63 ARABIC-INDIC DIGIT THREE 64 ARABIC-INDIC DIGIT FOUR 65 ARABIC-INDIC DIGIT FIVE 66 ARABIC-INDIC DIGIT SIX 67 ARABIC-INDIC DIGIT SIX 68 ARABIC-INDIC DIGIT SEVEN 68 ARABIC-INDIC DIGIT SIX 69 ARABIC-INDIC DIGIT SIX 69 ARABIC-INDIC DIGIT SIGHT 69 ARABIC-INDIC DIGIT RIVE |
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| ARABIC PERCENT SIGN BA ARABIC DECIMAL SEPARATOR ARABIC THOUSANDS SEPARATOR ARABIC ETTER DOTLESS BEH ARABIC LETTER DOTLESS BEH ARABIC LETTER SUPERSCRIPT ALEF ARABIC LETTER ALEF WASLA ARABIC LETTER ALEF WITH WAVY HAMZA ABOVE ARABIC LETTER ALEF WITH WAVY HAMZA BELOW ARABIC LETTER HIGH HAMZA ARABIC LETTER HIGH HAMZA ALEF ARABIC LETTER HIGH HAMZA ABOVE ARABIC LETTER THEH ARABIC LETTER THEH ARABIC LETTER THEH ARABIC LETTER THEH ARABIC LETTER THEHH ARABIC LETTER THEHH ARABIC LETTER TEH WITH THING ARABIC LETTER TEH WITH THREE DOTS ABOVE DOWNWARDS ARABIC LETTER TEH WITH THREE ARABIC LETTER TEH ARABIC LETTER TEH HITH THREE ARABIC LETTER TEH ARABIC LETTER TEH ARABIC LETTER TEH ARABIC LETTER TEH WITH THREE ARABIC LETTER THREE ARA |

A. Administrative

1. Title

Proposal to encode four Qur'anic Arabic characters in the UCS

2. Requester's name

Michael Everson and Roozbeh Pournader.

3. Requester type (Member body/Liaison/Individual contribution)

Individual contribution.

4. Submission date

2006-11-08

- 5. Requester's reference (if applicable)
- 6. Choose one of the following:

6a. This is a complete proposal

Vec

6b. More information will be provided later

No.

B. Technical - General

1. Choose one of the following:

1a. This proposal is for a new script (set of characters)

No.

1b. Proposed name of script

1c. The proposal is for addition of character(s) to an existing block

Yes.

1d. Name of the existing block

Arabic.

2. Number of characters in proposal

4.

3. Proposed category (A-Contemporary; B.1-Specialized (small collection); B.2-Specialized (large collection); C-Major extinct; D-Attested extinct; E-Minor extinct; F-Archaic Hieroglyphic or Ideographic; G-Obscure or questionable usage symbols)

Category A.

4a. Is a repertoire including character names provided?

Yes

4b. If YES, are the names in accordance with the "character naming guidelines" in Annex L of P&P document?

Yes

4c. Are the character shapes attached in a legible form suitable for review?

Yes

5a. Who will provide the appropriate computerized font (ordered preference: True Type, or PostScript format) for publishing the standard? **Michael Everson.**

5b. If available now, identify source(s) for the font (include address, e-mail, ftp-site, etc.) and indicate the tools used:

Michael Everson, Fontographer.

6a. Are references (to other character sets, dictionaries, descriptive texts etc.) provided?

Yes.

6b. Are published examples of use (such as samples from newspapers, magazines, or other sources) of proposed characters attached?

7. Does the proposal address other aspects of character data processing (if applicable) such as input, presentation, sorting, searching, indexing, transliteration etc. (if yes please enclose information)?

Yes.

8. Submitters are invited to provide any additional information about Properties of the proposed Character(s) or Script that will assist in correct understanding of and correct linguistic processing of the proposed character(s) or script. Examples of such properties are: Casing information, Numeric information, Currency information, Display behaviour information such as line breaks, widths etc., Combining behaviour, Spacing behaviour, Directional behaviour, Default Collation behaviour, relevance in Mark Up contexts, Compatibility equivalence and other Unicode normalization related information. See the Unicode standard at http://www.unicode.org for such information on other scripts. Also see Unicode Character Database http://www.unicode.org/Public/UNIDATA/UnicodeCharacterDatabase.html and associated Unicode Technical Reports for information needed for consideration by the Unicode Technical Committee for inclusion in the Unicode Standard.

See above.

C. Technical – Justification

1. Has this proposal for addition of character(s) been submitted before? If YES, explain.

No.

2a. Has contact been made to members of the user community (for example: National Body, user groups of the script or characters, other experts, etc.)?

Yes.

2b. If YES, with whom?

Hamid Zarrabi-Zadeh.

2c. If YES, available relevant documents

3. Information on the user community for the proposed characters (for example: size, demographics, information technology use, or publishing use) is included?

No.

4a. The context of use for the proposed characters (type of use; common or rare)

Rare.

4b. Reference

5a. Are the proposed characters in current use by the user community?

Yes.

5b. If YES, where?

In editions of the Qur'an published in Iran.

6a. After giving due considerations to the principles in the P&P document must the proposed characters be entirely in the BMP?

Yes.

6b. If YES, is a rationale provided?

Yes.

6c. If YES, reference

Keep with other Arabic characters.

7. Should the proposed characters be kept together in a contiguous range (rather than being scattered)?

Ves

8a. Can any of the proposed characters be considered a presentation form of an existing character or character sequence?

No.

8b. If YES, is a rationale for its inclusion provided?

8c. If YES, reference

9a. Can any of the proposed characters be encoded using a composed character sequence of either existing characters or other proposed characters?

No.

9b. If YES, is a rationale for its inclusion provided?

9c. If YES, reference

10a. Can any of the proposed character(s) be considered to be similar (in appearance or function) to an existing character?

Yes, but they are smaller and function differently.

10b. If YES, is a rationale for its inclusion provided?

Yes.

10c. If YES, reference

See the body of the proposal.

11a. Does the proposal include use of combining characters and/or use of composite sequences (see clauses 4.12 and 4.14 in ISO/IEC 10646-1: 2000)?

Yes.

11b. If YES, is a rationale for such use provided?

No.

11c. If YES, reference

11d. Is a list of composite sequences and their corresponding glyph images (graphic symbols) provided?

No.

11e. If YES, reference

12a. Does the proposal contain characters with any special properties such as control function or similar semantics?

No.

12b. If YES, describe in detail (include attachment if necessary)

13a. Does the proposal contain any Ideographic compatibility character(s)?

No.

13b. If YES, is the equivalent corresponding unified ideographic character(s) identified?