

# UC Berkeley

## Proposals from the Script Encoding Initiative

### Title

Proposal for encoding the Palmyrene script in the SMP of the UCS

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Universal Multiple-Octet Coded Character Set  
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**Doc Type: Working Group Document****Title: Proposal for encoding the Palmyrene script in the SMP of the UCS****Source: UC Berkeley Script Encoding Initiative (Universal Scripts Project)****Source: Michael Everson****Status: Individual Contribution****Action: For consideration by JTC1/SC2/WG2 and UTC****Date: 2010-07-29**

**1. Introduction.** The Palmyrene alphabet was used from the first century BCE, in a small independent state established in the Syrian desert between Damascus and the Euphrates. The alphabet was derived as a national script by modification of the customary forms of cursive Aramaic which themselves developed during the first Persian Empire.

Palmyrene is known from documents distributed over a period from the year 9 BCE until 273 CE, the date of the sack of Palmyra by Aurelian. Palmyrene has both a monumental and a cursive form. Fonts for Palmyrene typically follow the monumental style as in the examples below (just as is typical for Latin and Greek). There are only a few fragmentary documents on perishable materials; there are a few painted inscriptions, but many inscriptions on stone. It may be that the monumental forms were derived from the cursive. Earlier inscriptions show more rounded forms, but later inscriptions tended to regularize the letterforms, perhaps in imitation of the monumental the Greek script.

Cursive forms of the script have more ligatures than the monumental forms do, but ligatures are optional, as will be discussed below. At a certain point, some letterforms became confused and in Palmyrene a distinguishing diacritical dot was introduced. This may have been the first appearance of such a feature in the Western Semitic scripts. In the code chart here, RESH is distinguished from DALETH by means of a dot—but there are also styles in which the two letters are distinct in shape and where a dot is not used.

**2. Processing.** Palmyrene is written from right to left horizontally. Palmyrene language inscriptions usually have no space between words; modern editors tend to insert U+0020 SPACE. Sorting order is as in the code chart. The letter PALMYRENE LETTER FINAL NUN is to be treated in the same way as HEBREW LETTER FINAL NUN is.

**3. Ligation** is sometimes used in Palmyrene; it is common, but not obligatory. In fonts which implement automatic ligation, ZWNJ can be used to break the ligatures. In fonts which do not implement automatic ligation, ZWJ can be used to force the ligatures. OpenType features like “Discretionary Ligatures” or “Historic Ligatures” may be used. This is a matter for the designer’s judgement. The table below is displayed in visual order:

<i>b'</i>		= ALEPH		+	BETH		←
<i>bd</i>		= DALETH		+	BETH		←
<i>bw</i>		= WAW		+	BETH		←
<i>br</i>		= RESH		+	BETH		←
<i>bt</i>		= TAW		+	BETH		←

<i>hd</i>		= DALETH		+	HETH		←
<i>hw</i>		= WAW		+	HETH		←
<i>hr</i>		= RESH		+	HETH		←

*m'* אַמ = ALEPH א + MEM מ ←  
*md* דַמ = DALETH ד + MEM מ ←  
*mh* חַמ = HETH ח + MEM מ ←  
*mr* רַמ = RESH ר + MEM מ ←  
*mt* תַמ = TAW ת + MEM מ ←

*n'* אַן = ALEPH א + NUN נ ←  
*nh* חַן = HE ח + NUN נ ←  
*nw* וַן = WAW ו + NUN נ ←  
*nt* תַן = TAW ת + NUN נ ←  
*pl* לַפ = LAMEDH ל + PE פ ←  
*qd* דַק = DALETH ד + QOPH ק ←  
*qr* רַק = RESH ר + QOPH ק ←

The letter NUN has a swash tail which often trails under the following letter. In particular note NUN followed by YODH:

*ny* נַי = YODH י + NUN נ ←

**4. Character names.** The names used for the characters here are based on those used for Imperial Aramaic. Other West Semitic names may have some currency, but the UCS Imperial Aramaic names have been preferred here since Palmyrene is an Aramaic language.

**5. Numerals.** Palmyrene numerals are built up out of 1, 2, 3, 4, 5, 10, and 20. The numbers 2 𐤁 and 3 𐤂 and 4 𐤃 are composed of multiples of 1 𐤀, but because in practice the numbers are clumped together as units separate from one another they are encoded as individual characters. The last stroke is sometimes lengthened. The origin of the highest numbers in their Aramaic predecessors is clear; compare Aramaic numbers 10 𐤀, 20 𐤁𐤁 (in origin two 10s one atop the other), and 100 𐤀𐤀 (in origin, a 10 with a stroke added to differentiate it from 100) with Palmyrene 10 𐤀, 20 𐤁, 100 𐤀. Note that in Palmyrene the originally distinct 10 and 100 have coalesced into the same character. The numbers have right-to-left directionality. In the chart below, the third and sixth columns are displayed in visual order.

1	𐤀	1 ←	11	𐤀𐤁	1 + 10 ←
2	𐤁	2 ←	12	𐤁𐤁	2 + 10 ←
3	𐤂	3 ←	13	𐤂𐤁	3 + 10 ←
4	𐤃	4 ←	14	𐤃𐤁	4 + 10 ←
5	𐤄	5 ←	15	𐤄𐤁	5 + 10 ←
6	𐤅	1 + 5 ←	16	𐤅𐤁	1 + 5 + 10 ←
7	𐤆	2 + 5 ←	17	𐤆𐤁	2 + 5 + 10 ←
8	𐤇	3 + 5 ←	18	𐤇𐤁	3 + 5 + 10 ←
9	𐤈	4 + 5 ←	19	𐤈𐤁	4 + 5 + 10 ←
10	𐤀	10 ←	100	𐤀𐤀	10 + 1 ←
20	𐤁	20 ←	200	𐤀𐤁	10 + 2 ←
30	𐤀𐤁	10 + 20 ←	300	𐤀𐤂	10 + 3 ←
40	𐤀𐤃	20 + 20 ←	400	𐤀𐤃	10 + 4 ←
50	𐤀𐤄	10 + 20 + 20 ←	500	𐤀𐤄	10 + 5 ←
60	𐤀𐤅	20 + 20 + 20 ←	600	𐤀𐤅	10 + 1 + 5 ←
70	𐤀𐤆	10 + 20 + 20 + 20 ←	700	𐤀𐤆	10 + 2 + 5 ←
80	𐤀𐤇	20 + 20 + 20 + 20 ←	800	𐤀𐤇	10 + 3 + 5 ←
90	𐤀𐤈	10 + 20 + 20 + 20 + 20 ←	900	𐤀𐤈	10 + 4 + 5 ←

To say 134, 𐤀𐤃𐤁𐤄𐤀 would be written. Examples of other compound numbers are given in Figures 4, 5, 6, 7, 9, 10, 11, and 12.

**6. Punctuation.** Two ornamental leaves are found in inscriptions and printed texts and have been encoded at U+10877..10878. They tend to appear near numbers. The texts give no information as their line-breaking properties, but they should not break before or after and a space should be used if necessary.

































## 7. Unicode Character Properties

10860;PALMYRENE LETTER ALEPH;Lo;0;R;;;N;;;;;  
10861;PALMYRENE LETTER BETH;Lo;0;R;;;N;;;;;  
10862;PALMYRENE LETTER GIMEL;Lo;0;R;;;N;;;;;  
10863;PALMYRENE LETTER DALETH;Lo;0;R;;;N;;;;;  
10864;PALMYRENE LETTER HE;Lo;0;R;;;N;;;;;  
10865;PALMYRENE LETTER WAW;Lo;0;R;;;N;;;;;  
10866;PALMYRENE LETTER ZAYIN;Lo;0;R;;;N;;;;;  
10867;PALMYRENE LETTER HETH;Lo;0;R;;;N;;;;;  
10868;PALMYRENE LETTER TETH;Lo;0;R;;;N;;;;;  
10869;PALMYRENE LETTER YODH;Lo;0;R;;;N;;;;;  
1086A;PALMYRENE LETTER KAPH;Lo;0;R;;;N;;;;;  
1086B;PALMYRENE LETTER LAMEDH;Lo;0;R;;;N;;;;;  
1086C;PALMYRENE LETTER MEM;Lo;0;R;;;N;;;;;  
1086D;PALMYRENE LETTER FINAL NUN;Lo;0;R;;;N;;;;;  
1086E;PALMYRENE LETTER NUN;Lo;0;R;;;N;;;;;  
1086F;PALMYRENE LETTER SAMEKH;Lo;0;R;;;N;;;;;  
10870;PALMYRENE LETTER AYIN;Lo;0;R;;;N;;;;;  
10871;PALMYRENE LETTER PE;Lo;0;R;;;N;;;;;  
10872;PALMYRENE LETTER SADHE;Lo;0;R;;;N;;;;;  
10873;PALMYRENE LETTER QOPH;Lo;0;R;;;N;;;;;  
10874;PALMYRENE LETTER RESH;Lo;0;R;;;N;;;;;  
10875;PALMYRENE LETTER SHIN;Lo;0;R;;;N;;;;;  
10876;PALMYRENE LETTER TAW;Lo;0;R;;;N;;;;;  
10877;PALMYRENE LEFT-POINTING FLEURON;So;0;ON;;;N;;;;;  
10878;PALMYRENE RIGHT-POINTING FLEURON;So;0;ON;;;N;;;;;  
10879;PALMYRENE NUMBER ONE;No;0;R;;;1;N;;;;;  
1087A;PALMYRENE NUMBER TWO;No;0;R;;;2;N;;;;;  
1087B;PALMYRENE NUMBER THREE;No;0;R;;;3;N;;;;;  
1087C;PALMYRENE NUMBER FOUR;No;0;R;;;4;N;;;;;  
1087D;PALMYRENE NUMBER FIVE;No;0;R;;;5;N;;;;;  
1087E;PALMYRENE NUMBER TEN;No;0;R;;;10;N;;;;;  
1087F;PALMYRENE NUMBER TWENTY;No;0;R;;;20;N;;;;;
























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	1086	1087
0	 10860	 10870
1	 10861	 10871
2	 10862	 10872
3	 10863	 10873
4	 10864	 10874
5	 10865	 10875
6	 10866	 10876
7	 10867	 10877
8	 10868	 10878
9	 10869	 10879
A	 1086A	 1087A
B	 1086B	 1087B
C	 1086C	 1087C
D	 1086D	 1087D
E	 1086E	 1087E
F	 1086F	 1087F








**Letters**

10860		PALMYRENE LETTER ALEPH
10861		PALMYRENE LETTER BETH
10862		PALMYRENE LETTER GIMEL
10863		PALMYRENE LETTER DALETH
10864		PALMYRENE LETTER HE
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1086B		PALMYRENE LETTER LAMEDH
1086C		PALMYRENE LETTER MEM
1086D		PALMYRENE LETTER FINAL NUN
1086E		PALMYRENE LETTER NUN
1086F		PALMYRENE LETTER SAMEKH
10870		PALMYRENE LETTER AYIN
10871		PALMYRENE LETTER PE
10872		PALMYRENE LETTER SADHE
10873		PALMYRENE LETTER QOPH
10874		PALMYRENE LETTER RESH
10875		PALMYRENE LETTER SHIN
10876		PALMYRENE LETTER TAW

**Symbols**

10877		PALMYRENE LEFT-POINTING FLEURON
10878		PALMYRENE RIGHT-POINTING FLEURON

**Numbers**

10879		PALMYRENE NUMBER ONE
1087A		PALMYRENE NUMBER TWO
1087B		PALMYRENE NUMBER THREE
1087C		PALMYRENE NUMBER FOUR
1087D		PALMYRENE NUMBER FIVE
1087E		PALMYRENE NUMBER TEN
		• also used for hundreds
1087F		PALMYRENE NUMBER TWENTY

10. Figures.

Aelteste Schriftzeichen.							
Aramäisch.	Estrangelo.	Palmyrenisch.	Kufisch.	Altgriechisch.	Altitalisch.	Etrurisch.	
א א	Ⲁ Ⲁ	Ⲁ Ⲁ Ⲁ	Ⲁ	Α	Α Ϟ ϗ	Α Α } Ϟ Ϟ } a Α Ϟ } ϡ Α }	
ב ב		Ⲁ	Ⲁ	Β Β	Β Β	ϡ Β } b	
ג ג		Ⲁ	Ⲁ	Ⲁ	Γ Γ ϗ	( Γ )	Ϟ Ϟ } k, g Ϟ Ϟ } Ⲁ Ⲁ }
ד ד		Ⲁ	Ⲁ	Ⲁ	Δ ∇ Ϙ	Α ϡ Δ	Ⲁ Ⲁ }
ה ה		Ⲁ	Ⲁ	Ⲁ	Ϙ ϙ	Ϙ ϙ Ε	Ⲁ Ⲁ }
ו ו		Ⲁ	Ⲁ	Ⲁ	ϙ ϙ	ϙ ϙ ϙ	Ⲁ Ⲁ }
ז ז		Ⲁ	Ⲁ	Ⲁ	Ⲁ	Ⲁ	Ⲁ Ⲁ }
ח ח		Ⲁ	Ⲁ	Ⲁ	Ⲁ	Ⲁ	Ⲁ Ⲁ }
ט ט		Ⲁ	Ⲁ	Ⲁ	Ⲁ	Ⲁ	Ⲁ Ⲁ }
י י		Ⲁ	Ⲁ	Ⲁ	Ⲁ	Ⲁ	Ⲁ Ⲁ }
כ כ		Ⲁ	Ⲁ	Ⲁ	Ⲁ	Ⲁ	Ⲁ Ⲁ }
ל ל		Ⲁ	Ⲁ	Ⲁ	Ⲁ	Ⲁ	Ⲁ Ⲁ }
מ מ		Ⲁ	Ⲁ	Ⲁ	Ⲁ	Ⲁ	Ⲁ Ⲁ }
נ נ		Ⲁ	Ⲁ	Ⲁ	Ⲁ	Ⲁ	Ⲁ Ⲁ }
ס ס		Ⲁ	Ⲁ	Ⲁ	Ⲁ	Ⲁ	Ⲁ Ⲁ }
ע ע		Ⲁ	Ⲁ	Ⲁ	Ⲁ	Ⲁ	Ⲁ Ⲁ }
פ פ		Ⲁ	Ⲁ	Ⲁ	Ⲁ	Ⲁ	Ⲁ Ⲁ }
ק ק		Ⲁ	Ⲁ	Ⲁ	Ⲁ	Ⲁ	Ⲁ Ⲁ }
ר ר		Ⲁ	Ⲁ	Ⲁ	Ⲁ	Ⲁ	Ⲁ Ⲁ }
ש ש		Ⲁ	Ⲁ	Ⲁ	Ⲁ	Ⲁ	Ⲁ Ⲁ }
ת ת	Ⲁ	Ⲁ	Ⲁ	Ⲁ	Ⲁ	Ⲁ Ⲁ }	
...	Ⲁ	Ⲁ	Ⲁ	Ⲁ	Ⲁ	Ⲁ Ⲁ }	

Figure 1. Chart of Semitic alphabets from Ballhorn 1864, showing Palmyrene.

## SCHRIFTEN IM OSTEN PALÄSTINA'S.

Hauranitisch			Nabathäisch	Palmyrenisch	Wert
nach HALÉVY	H. MÜLLER				
ⲀⲁⲂⲃⲄⲅⲆⲇⲈ	ⲉ		ⲀⲁⲂⲃⲄⲅ	ⲀⲁⲂ	a
ⲉⲉⲉⲉⲉ	ⲉ		ⲉⲉⲉⲉⲉ	ⲉⲉ	b
ⲉⲉⲉⲉⲉⲉ	ⲉ		ⲉⲉⲉⲉⲉ	ⲉ	g
ⲉⲉⲉⲉⲉ	ⲉ		ⲉⲉⲉⲉⲉ	ⲉ	d
ⲉⲉⲉⲉⲉⲉⲉⲉ	ⲉ		ⲉⲉⲉⲉⲉⲉⲉⲉ	ⲉ	h
ⲉⲉⲉⲉⲉⲉ			ⲉⲉⲉⲉ	ⲉⲉ	w
ⲉⲉⲉⲉ	ⲉ		ⲉ	ⲉ	z
ⲉⲉⲉⲉⲉⲉⲉⲉⲉⲉ	ⲉ		ⲉⲉⲉⲉⲉⲉ	ⲉ	χ
ⲉⲉ					
ⲉⲉⲉⲉ	ⲉⲉ		ⲉⲉⲉⲉⲉⲉ	ⲉ	t
ⲉⲉⲉⲉⲉ	ⲉⲉ		ⲉⲉⲉⲉ	ⲉⲉ	y
ⲉⲉⲉⲉⲉ	ⲉⲉ		ⲉⲉⲉⲉⲉⲉ	ⲉⲉ	k
ⲉⲉⲉ	ⲉⲉ		ⲉⲉⲉⲉⲉ	ⲉ	l
ⲉⲉⲉⲉⲉⲉⲉⲉⲉⲉ	ⲉ		ⲉⲉⲉⲉⲉⲉⲉⲉⲉⲉ	ⲉ	m
ⲉ	ⲉ		ⲉⲉⲉ	ⲉⲉ	n
ⲉⲉⲉⲉⲉⲉⲉ			ⲉⲉ	ⲉⲉ	s
ⲉⲉⲉⲉⲉⲉ	ⲉ		ⲉⲉⲉⲉⲉ	ⲉⲉ	a
ⲉⲉⲉⲉⲉⲉⲉⲉ	ⲉ		ⲉⲉⲉⲉⲉ	ⲉⲉⲉⲉ	p
ⲉⲉ	ⲉ		ⲉⲉⲉⲉⲉ	ⲉ	š
ⲉⲉⲉ	ⲉ		ⲉⲉ	ⲉ	q
ⲉⲉⲉⲉⲉⲉⲉ	ⲉⲉ		ⲉⲉⲉⲉⲉ	ⲉⲉ	r
ⲉⲉⲉⲉⲉ	ⲉⲉ		ⲉⲉ	ⲉ	š
ⲉⲉ	ⲉⲉ		ⲉⲉⲉⲉ	ⲉ	t

In der Wüste Hauran, welche sich zwischen Palästina und Arabien erstreckt, befinden sich Ruinen mit merkwürdigen Inschriften, welche ein Mittelglied zwischen himyarischen und aramäischen Formen bilden. An sie schliessen sich die palmyrenische und

die Schrift der Nabathäer, deren Hauptstadt Petra war; die hier gegebenen Zeichen sind theils den Münzen aus dem 2. Jahrhundert v. Chr., theils den sinaitischen Inschriften entnommen, deren Entzifferung besonders den Studien LEVY's zu verdanken ist.

Figure 2. Chart of "scripts in the east of Palestine" from Faulmann 1880, showing Palmyrene.

ALPHABETS ARAMÉENS COMPARÉS.

(ARAMÉEN ANCIEN, PALMYRÉNIEN, NABATÉEN.)

VALEUR.	ARAMÉEN ANCIEN.			PALMYRÉNIEN.	NABATÉEN.
	VIII <sup>e</sup> SIÈCLE.	VI <sup>e</sup> SIÈCLE.	IV <sup>e</sup> SIÈCLE.		
ʾ	𐤀	𐤀	𐤀	𐤁	𐤁 𐤂 𐤃
b	𐤁	𐤂	𐤂	𐤂	𐤃 𐤄
g	𐤂	𐤃	𐤃	𐤃	𐤄
d	𐤃	𐤄	𐤄	𐤄	𐤅
h	𐤄	𐤅	𐤅	𐤅	𐤆 𐤇
w	𐤅	𐤆	𐤆	𐤆	𐤈 𐤉
z	𐤆	𐤇	𐤇	𐤆	𐤊
h̄	𐤇	𐤈	𐤈	𐤇	𐤋 𐤌
t̄	𐤈	𐤉	𐤉	𐤈	𐤍
y	𐤉	𐤊	𐤊	𐤉	𐤎 𐤏
k	𐤊	𐤋	𐤋	𐤊	𐤐 𐤑
l	𐤋	𐤌	𐤌	𐤋	𐤒 𐤓
m	𐤌	𐤍	𐤍	𐤌	𐤔 𐤕
n	𐤍	𐤎	𐤎	𐤍	𐤖 𐤗
s	𐤎	𐤏	𐤏	𐤍	𐤘
ʿ	𐤏	𐤐	𐤐	𐤎	𐤙
f	𐤐	𐤑	𐤑	𐤎	𐤚 𐤛
ḡ	𐤑	𐤒	𐤒	𐤎	𐤜 𐤝
k̄	𐤒	𐤓	𐤓	𐤎	𐤞
r	𐤓	𐤔	𐤔	𐤎	𐤟
š	𐤔	𐤕	𐤕	𐤎	𐤠
t	𐤕	𐤖	𐤖	𐤎	𐤡 𐤢

Figure 3. Chart of "Aramaic alphabets" from Fossey 1948, showing Palmyrene.







52x  
 437

**Figure 9.** Sample texts in Palmyrene from Lidzbarski 1898. Note the LEFT-POINTING FLEURON. The number 52x is shown in the text on the left, and 437 in the text on the right.

569  
 566

**Figure 10.** Sample text in Palmyrene from Lidzbarski 1898.

Note the LEFT- and RIGHT-POINTING FLEURONS.

The number 569 is shown in the text on the left, and 566 in the text on the right.

563  
 566

**Figure 11.** Sample text in Palmyrene from Lidzbarski 1898.

Note the LEFT- and RIGHT-POINTING FLEURONS.

The number 563 is shown in the text on the left.

425

**Figure 12.** Sample text in Palmyrene from Lidzbarski 1898. Note the LEFT- and RIGHT-POINTING FLEURONS. The number 425 is shown in the text on the right.

## A. Administrative

1. Title

**Preliminary proposal for encoding the Palmyrene script in the SMP of the UCS**

2. Requester's name

**UC Berkeley Script Encoding Initiative (Universal Scripts Project)**

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

**Liaison contribution.**

4. Submission date

**2010-07-29**

5. Requester's reference (if applicable)

6. Choose one of the following:

6a. This is a complete proposal

**No.**

6b. More information will be provided later

**Yes.**

## B. Technical – General

1. Choose one of the following:

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

**Yes.**

1b. Proposed name of script

**Palmyrene.**

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

**No.**

1d. Name of the existing block

2. Number of characters in proposal

**32.**

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 E.**

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, FontLab.**

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?

**Yes.**

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?

**Reinhard Lehmann, John Healey, and Viktor Golinets.**

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?

**See above.**

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

**To write the Aramaic language.**

4b. Reference

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

**Yes.**

5b. If YES, where?

**In scholarly publications.**

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

**No.**

6b. If YES, is a rationale provided?

6c. If YES, reference

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

**Yes.**

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?

**No.**

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

10c. If YES, reference

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)?

**No.**

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

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?