REVISED

October 11, 1993

Mr. Rick McGowan NeXt, Inc., 900 Chesapeake Drive Redwood City, CA 94063

Dear Rick:

A while back I had spoken with you on the phone regarding the inclusion of the Syriac script in the Unicode standard. Shortly thereafter, Peter Jasim had some correspondence with you regarding the same matter. You indicated to me then that no one had submitted any proposal yet. Therefore, we are submitting this proposal to the Unicode Consortium for thorough examination and possible inclusion in the Unicode standard. Please feel free to contact me for any question and/or clarification that you, or the committee in charge, might have.

Sincerely,

Sargon Hasso, Independent Consultant

P.S.

Currently, the following independent persons are in charge of the preparation of this proposal:

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CC:

PJ EO Assyrian¹ S²+0000 -- SSSS+0000

The Assyrian script (*Syriac*), which is used for writing the Assyrian language, includes the Eastern Assyrian script (*Nestorian*), the Western Assyrian script (*Serto* or *Jacobite*), and the *Estrangelo*³ script. It is also used for writing Mandaic⁴.

Assyrian script which is predominantly cursive is written from right to left even in its printed form. Few letters are written in different forms depending on how they join to their neighbors. Vowels (zaw'e) are placed above or below the consonantal base letters (radical).

Mandaic. Mandaic is written with the same script, with an additional, 23rd letter; this extra letter is given the independent code SSSS+0023.

Punctuation. Most punctuation marks used in Assyrian are not given independent codes (they are unified with the Latin, Arabic, and Hebrew punctuation) except for the few cases where the mark has a unique form and function in Assyrian.

Encoding Principles. The alphabet of Assyrian is well defined. Each letter receives only one Unicode character value regardless of the number of contextual shapes it may exhibit in text (this, indeed, is the only difference between Eastern Assyrian, Western Assyrian, Estrangela, and Mandaic). The graphic form (glyph) shown in the Unicode character chart is primarily that of free-form Estrangela.

Diacritical Points⁵ (paroshe). These are marks (more commonly, these are points of large, medium, and small sizes) that indicate vowels (zaw'e), cantillation marks, accents, and other modifications of consonantal letters. The occurrence of a character in the Paroshe range and its depiction in relation to a dashed circle constitute an assertion that this character is intended to be applied via some process to the consonantal letter, phrase and/or clause that precedes it in the text stream. General rules for applying non-spacing marks are given in the Generic Diacritical Mark block description section in the Unicode Standard, version 1.0. The Unicode standard does not specify a sequence order in case of multiple marks

¹ We use *Assyrian* and *Syriac* interchangeably in this working proposal. However, we would strongly suggest the use of *Assyrian* as a proper name for this script.

² This notation is for this working proposal only, and it follows the same convention as used in Unicode Version 1.0, i.e., U+nnnn. S stands for Syriac.

³ The correct spelling of Estrangelo is with an o at the end, not an a. It is also spelled with an o the end.

⁴ Two issues were raised in the exploratory proposal: the order of letters and Mandaic. The order of letters is correct as it appears -- *Waw* is in its correct place. *Waw* should not be placed at the end because *Waw* is, by virtue of its position in the Assyrian alphabet (the sixth letter) also the number 6. Assyrian letters are also used as numbers and have ordinal values. More information will be provided if need be. We have left the last space in the character set as reserved for the extra letter in Mandaic.

⁵ Generally we refer to all objects that are placed around the base letter in various positions, as *Diacritical Points*. However, they fall into four well-defined categories: distinction points, e.g., SSS+0005, the plural sign, e.g., SSS+0001, the actual diacritical point in its various forms e.g., SSS+0008, and, finally, the accents, e.g., SS+0008. For an in depth treatment of this subject, please cf. Segal's *The Diacritical Point and The Accents in Syriac*, Oxford University Press, 1953.

applied to the same Assyrian base character since there is no possible ambiguity of interpretation. The Assyrian script contains a rich set of diacritical marks which reflects it development over the course of its long history.

Encoding Structure. The Assyrian character block is divided into the following⁶:

S+0001-- S+0010 SS+0001 -- SS+0020⁷ SSS+0001 -- SSS+0017 SSSS+0001 -- SSSS+0023 Assyrian punctuation and number marks Assyrian diacritical marks (paroshe) -- I Assyrian diacritical marks (paroshe) -- II

Assyrian letters

⁶ This subdivision is for future addition and expansion. Cf. following note.

⁷ This list by no means is complete. Although, the majority of all Assyrian documents and manuscripts can be reproduced with the aid of only this list -- whether they are from 500 A.D. or from 1993 A.D. Therefore, we would like to reserve additional space following this category for future addition and amendment.

SEQUENCE	GLYPH	DEFINITION
S+0001	7.7	SYRIAC QUOTATION MARK = sahrane
S+0002	+	SYRIAC ABBREVIATION MARK = gadmana
S+0003	*	SYRIAC END OF PARAGRAPH SEPARATOR
S+0004	-	SYRIAC LONG PAUSAL MARK PASUQA = period
S+0005	:	SYRIAC SHORT PAUSAL MARK ZAUGA = comma
S+0006	4	SYRIAC QUESTION MARK
S+0007	Ō	SYRIAC NUMERAL SIGN FOR TEN
S+0008	ી્	SYRIAC NUMERAL SIGN FOR THOUSAND
S+0009	<u> </u>	SYRIAC NUMERAL SIGN FOR TEN THOUSAND
S+0010	\circ	SYRIAC NUMERAL SIGN FOR MILLION
20		
SS+0001	o /	SYRIAC ONE DOT ABOVE RIGHT
		= mshalana

00.0000	T	
SS+0002	ÖÖÖÖ	SYRIAC TWO DOTS HORIZONTAL ABOVE
		= rahta
SS+0003	όι	SYRIAC TWO DOTS LEFT-SLANTED ABOVE
		= mshalmanota
SS+0004	Óν	SYRIAC ONE DOT ABOVE CENTER
		= ritma
SS+0005	٥٠	SYRIAC TWO DOTS VERTICAL CENTER ABOVE
		= zauga elaya Loo A
SS+0006	ċ٠	SYRIAC THREE DOTS ABOVE
		= rahta d karte
SS+0007	· 0 ~	SYRIAC ONE DOT ABOVE LEFT
1		- esvana
SS+0008		= esyana
00,000	ġ [SYRIAC TWO DOTS VERTICAL RIGHT ABOVE
		= mtdamrana
SS+0009	.0-	SYRIAC ONE DOT IN-LINE LEFT
		= pasoqa
SS+0010	:0 ~	SYRIAC TWO DOTS VERTICAL IN-LINE LEFT
		= zauga
SS+0011	:0	SYRIAC TWO DOTS IN-LINE ABOVE AND BELOW
		= mqimana
SS+0012	1.	
	\circ	SYRIAC ONE DOT RIGHT BELOW
		= mnakhta

00.0040	T	
SS+0013	0,	SYRIAC ONE DOT LEFT BELOW
		= samka
SS+0014	9,	SYRIAC TWO DOTS VERTICAL LEFT BELOW
22 22/2	: ~	= mitkashpana
SS+0015	, O	SYRIAC ONE LARGE DOT AND ONE SMALL DOT
	:	SLANTED LEFT BELOW
		= esasa
SS+0016	olo	SYRIAC ONE LARGE DOT AND ONE SMALL DOT
	11.7	BELOW
		= napsha
SS+0017	·:o	SYRIAC TWO DOTS RIGHT-SLANTED ABOVE LEFT
	~	= elaya
SS+0018	Ö.	SYRIAC TWO DOTS ABOVE AND IN-LINE DOT LEFT
	-	= rahta d paseq
SS+0019	\circ	SYRIAC ONE SMALL DOT AND ONE LARGE DOT LEFT-
		SLANTED BELOW LEFT
		= takhtaya
SS+0020	0	SYRIAC THREE DOTS BELOW
	.0,	= takhtaya d talata
SSS+0001	Ö	SYRIAC PLURAL MARK SYAME

SSS+0002	Ō	SYRIAC FRICATION MARK RUKAKHA
SSS+0003	٥Į٥	SYRIAC AFFRICATION MARK MAJLIANA
SSS+0004	9	SYRIAC HALF CIRCLE BELOW A LETTER = qishta
SSS+0005	Ō	SYRIAC DIACRITICAL LARGE POINT OVER A LETTER
SSS+0006	Ō	SYRIAC DIACRITICAL LARGE POINT BELOW A LETTER
SSS+0007	Ō	SYRIAC DIACRITICAL POINT QUSHAYA
SSS+0008	Ċ	SYRIAC VOWEL MARK ZQAPA
SSS+0009		SYRIAC VOWEL MARK PTAKHA
SSS+0010	Ö	SYRIAC VOWEL MARK ZLAME PSHIQE
SSS+0011	Ģ.	SYRIAC VOWEL MARK ZLAME QASHYE
SSS+0012	Ċ	SYRIAC VOWEL MARK RWAKHA
SSS+0013	Ó	SYRIAC VOWEL MARK RWASA
SSS+0014	O	SYRIAC VOWEL MARK KHWASA
SSS+0015	Ó	SYRIAC ACCENT MTALQANA

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SSSS+0014	\	SYRIAC LETTER NUN
SSSS+0015	Ġa	SYRIAC LETTER SIMKAT
SSSS+0016	٨	SYRIAC LETTER E
SSSS+0017	٩	SYRIAC LETTER PE
SSSS+0018	2	SYRIAC LETTER SADEH
SSSS+0019	70	SYRIAC LETTER QOP
SSSS+0020	વં	SYRIAC LETTER RESH
SSSS+0021	ሂ	SYRIAC LETTER SHEEN
SSSS+0022	A	SYRIAC LETTER TAW
SSSS+0023		RESERVED