L2/10-442R

To: UTC and ISO/IEC JTC1/SC2 WG2

Title: Proposal to add ARABIC LETTER BEH WITH HAMZA ABOVE

From: Lorna A. Priest, Martin Hosken (SIL International)

Date: 25 October 2010

Reference: L2/10-288R, WG2=N3882

## 1 Introduction

ARABIC LETTER BEH WITH HAMZA ABOVE was initially proposed in L2/10-288. There was some question as to whether it should be encoded. Therefore, it was withdrawn at the request of UTC pending further research. Description, arguments for encoding and examples of usage are found in L2/10-288R and N3882. In addition to those arguments it should be remembered that this is a single consonant in Fulfulde which also requires the need for including vowels above this character.

All of Kew's arguments in L2/04025R and N2723 (see page 7) for encoding U+076C would also appear to apply to this character:

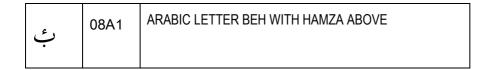
The proposed character  $\supset$  U+076C deserves special mention, in that a similar graphic appearance could be produced by the sequence <  $\supset$  U+0631,  $\circ$  U+0654>, applying the HAMZA ABOVE mark to the standard Arabic letter REH. However, this is not an appropriate encoding, as this Ormuri letter does not have any association with the HAMZA; it has merely borrowed its graphic form as a means to create a new consonant.

In this context, we should note the existence of  $\dot{z}$ U+0681 HAH WITH HAMZA ABOVE. This character is well established in Pashto orthography, and probably provided the inspiration for the Ormuri extension of REH with a HAMZA-shaped mark. There is thus a precedent for the use of this mark as a consonant modification, independent of its conventional Arabic meaning.

We may also note that  $\not\subset$  U+0681 does *not* decompose to a sequence <  $\subset$  U+062D,  $\circ$  U+0654>, as would be expected if the mark here were in fact an occurrence of HAMZA. This is in contrast to  $\circ$  U+0623,  $\circ$  U+0624, etc., which do decompose. This supports the view that  $\circ$  U+0681 is a single, indivisible letter, not a combination of an existing letter with HAMZA added. The same would be true of the proposed  $\circ$  U+076C.

Thus, although the mark seen on  $\not\subset$  U+0681 and  $\supset$  U+076C is visually based on HAMZA, it is not in fact HAMZA but an integral part of a new letter. It should not be encoded as  $\circ$  U+0654, especially given the inconsistency this would introduce between these two letters

A codepoint was reserved in the event that this character is accepted for encoding. If the characters in this proposal are accepted, the following characters would exist:



## 2 Unicode character Properties

08A1; ARABIC LETTER BEH WITH HAMZA ABOVE; Lo; 0; AL;;;;; N;;;;;

## 3 Joining type and group for ArabicShaping.txt

08A1; HAMZA ON BEH; D; BEH

### 4 Normalization Issues

ARABIC LETTER BEH WITH HAMZA ABOVE should never be decomposed.

# 5 Suggested Collation

Suggested collation is as follows:

0756 < 08A1 < 0629

Characters proposed in this document are colored in red with the black characters already in the standard.

### 6 References

Kew, Jonathan, et. al. 2004. *Proposal to encode additional Arabic-script characters*. L2/04025R WG2= N2723. http://std.dkuug.dk/jtc1/sc2/wg2/docs/n2723.pdf (accessed 23 Sept 2010).

Priest, Lorna and Martin Hosken. 2010. *Proposal to add Arabic script characters for African and Asian languages*. L2/10-288R and WG2 N3882. http://std.dkuug.dk/jtc1/sc2/wg2/docs/n3882.pdf (accessed 23 Sept 2010).

#### ISO/IEC JTC 1/SC 2/WG 2

# PROPOSAL SUMMARY FORM TO ACCOMPANY SUBMISSIONS FOR ADDITIONS TO THE REPERTOIRE OF ISO/IEC 10646<sup>1</sup>

Please fill all the sections A, B and C below.

Please read Principles and Procedures Document (P & P) from

http://www.dkuug.dk/JTC1/SC2/WG2/docs/principles.html for guidelines and details before filling this form.

Please ensure you are using the latest Form from http://www.dkuug.dk/JTC1/SC2/WG2/docs/summaryform.html.

See also http://www.dkuug.dk/JTC1/SC2/WG2/docs/roadmaps.html for latest Roadmaps.

#### A. Administrative

1. Title:	posal to add ARABIC LETTER BEH WITH HAMZA ABOVE		
2. Requester's name:	Lorna A. Priest, Martin Hosken		
3. Requester type (Me	ember body/Liaison/Individual contribution): Individual contribution		
4. Submission date:		25 October 2010	
5. Requester's referer	nce (if applicable):		
6. Choose one of the			
This is a complete proposal:		No	
or, More informa	ation will be provided later:	L2/10-288R	
B. Technical – Gene	ral		
1. Choose one of the			
	osal is for a new script (set of characters):	No	
Proposed na			
	osal is for addition of character(s) to an existing block:		
	me of the existing block:  Arabic Extended-A	4	
2. Number of characte		1	
	(select one from below - see section 2.2 of P&P document):	aallaatian)	
A-Contemporary _ C-Major extinct	<u>x</u> B.1-Specialized (small collection) B.2-Specialized (large of D-Attested extinct E-Minor extinct	Collection)	
F-Archaic Hieroglyph		ugo symbols	
	Implementation (1, 2 or 3) (see Annex K in P&P document):	ige symbols	
	e provided for the choice?		
If Yes, refere	·		
,	iding character names provided?	Yes	
	e the names in accordance with the "character naming guidelines"	Yes	
	Annex L of P&P document?	100	
b. Are the ch	naracter shapes attached in a legible form suitable for review?	Yes	
	e appropriate computerized font (ordered preference: True Type, or PostS	cript format) for	
publishing the standard? Lorna Priest, SIL International			
	ow, identify source(s) for the font (include address, e-mail, ftp-site, etc.) ar	nd indicate the tools	
used: For	ntLab Font has already been submitted and includes this character		
7. References:			
	nces (to other character sets, dictionaries, descriptive texts etc.)	e L2/10-288R	
provided?	had avamples of use (such as complex from neuronaners, magazines, er o	other courses)	
	hed examples of use (such as samples from newspapers, magazines, or coroposed characters attached?	see L2/10-288R	
8. Special encoding is		lee L2/10-2001\	
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)?			
	sted character properties and shaping information is included	,	
9. Additional Information:			
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 behav	riour, Directional behaviour, Default Collation behaviour, relevance in Mark Up contexts, C	Compatibility equivalence	
	lization related information. See the Unicode standard at <a href="http://www.unicode.org">http://www.unicode.org</a> for such we unicode org/Public/LINIDATA/LICD html and associated Unicode Technical Reports for		
scripts. Also see <a href="http://www.unicode.org/Public/UNIDATA/UCD.html">http://www.unicode.org/Public/UNIDATA/UCD.html</a> and associated Unicode Technical Reports for information needed for consideration by the Unicode Technical Committee for inclusion in the Unicode Standard.			

<sup>&</sup>lt;sup>1</sup> Form number: N2652-F (Original 1994-10-14; Revised 1995-01, 1995-04, 1996-04, 1996-08, 1999-03, 2001-05, 2001-09, 2003-11)

#### C. Technical - Justification

If YES explain Requested to resubmit in order to give time to study hamza above issue.  2. Has contact been made to members of the user community (for example: National Body, user groups of the script or characters, other experts, etc.)?  If YES, with whom? See L2/10-288R  3. Information on the user community for the proposed characters (for example: See L2/10-3 size, demographics, information technology use, or publishing use) is included? Reference: See L2/10-288R  4. The context of use for the proposed characters (type of use; common or rare)  Common Reference: See L2/10-288R  5. Are the proposed characters in current use by the user community?  If YES, where? Reference: See L2/10-288R  6. After giving due considerations to the principles in the P&P document must the proposed characters be entirely in the BMP?  If YES, is a rationale provided?  If YES, reference: This is an existing script in the BMP and these should be in same plane  7. Should the proposed characters be kept together in a contiguous range (rather than being scattered)?  8. Can any of the proposed characters be considered a presentation form of an existing character or characters sequence?  If YES, is a rationale for its inclusion provided?  If YES, is a rationale for its inclusion provided?  If YES, reference: Discussion is in proposal  10. Can any of the proposed character(s) be considered to be similar (in appearance or function) to an existing character?  If YES, is a rationale for its inclusion provided?  If YES, is a rationale for its inclusion provided?  If YES, is a rationale for its inclusion provided?  If YES, is a rationale for its inclusion provided?  If YES, is a rationale for its inclusion provided?  If YES, is a rationale for its inclusion provided?  If YES, is a rationale for its inclusion provided?  If YES, is a rationale for its inclusion provided?  If YES, is a rationale for its inclusion provided?  If YES, is a rationale for its inclusion provided?  If YES, is a rationale for its inclusion provided?  If YES, is a rational	Has this proposal for addition of character(s) been submitted before?	Yes			
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