To: UTC and ISO/IEC JTC1/SC2 WG2

Title: Proposal to add ARABIC LETTER ZAIN WITH INVERTED V ABOVE

(L2/12-181R)

From: Lorna A. Priest (SIL International)

Date: 9 May 2012

Introduction

This is a proposal to add one character for Berber to the Arabic Extended-A block.

There is not a whole lot written in Berber. People do write it by hand and in some books. The dictionary referenced in this proposal is the most official publication on the Berber language in Morocco. It includes lexical items from the three main Berber languages in Morocco: Tachelhit (shi), Tamazight (tmz) and Tarifit (rif).

Figure 1 is from volume 1 of the 3 volume Arabic-Berber Dictionary by Mohamed Shafiq. It shows the three special characters the author uses to represent sounds in Berber which do not have a normal character in Arabic script: 1) z (IPA z^c) 2) g 3) \underline{k} (IPA c). The c0 and c0 are characters are already in Unicode. The character we are proposing is number 1, the pharyngealized c1.

Proposed character

There seems to be an inconsistency in naming with "inverted small v" and "inverted v" both being used. This proposal uses "inverted v". The character could also be named ARABIC LETTER REH WITH DOT AND INVERTED V ABOVE, however, that is not our preference as the character is related to "z".

Proposed codepoint	Glyph	Final Glyph	Proposed Unicode Name
08B2	ĵ	ĵ	ARABIC LETTER ZAIN WITH INVERTED V ABOVE

Unicode character Properties

Character properties should be the same as for 0632:

08B2; ARABIC LETTER ZAIN WITH INVERTED V ABOVE; Lo; 0; AL; ; ; ; ; ; ; ; ;

Joining type and group for ArabicShaping.txt

08B2; REH WITH DOT AND INVERTED V ABOVE; R; REH

Suggested Collation

Since tailoring will be required, ARABIC LETTER ZAIN WITH INVERTED V ABOVE can sort with other reh-like characters such as U+0699 or U+076B.

Normalization Issues

ARABIC LETTER ZAIN WITH INVERTED V ABOVE should never be decomposed.

Confusability

This character should be added to the list of confusables.

Figures

```
1 – زاي مفخمة نرسمها على الشكل الآتي : (أ.)
2 – كاف معقودة نرسمها كما يلي : كُــ
3 – كاف معقودة مُلَيَّنَة ينطق بها بين الكاف المعقودة والياء، نرسمها هكذا : كُــ
هكذا : كُــ
```

Figure 1. Arabic-Berber Dictionary. Vol. 1. p. 21.



Figure 2. Arabic-Berber Dictionary. Vol. 3. p. 99.

References

- المعجم العربيّ الأمازيغيّ: سلسلة "معاجم"، محمد شفيق، أكاديمية المملكة المغربية: الرباط، 1993. Al-muzjam al-zarbiy al-amaziyiy: Silsila "Mazajim", Mohamed Shafiq, Akadimiya al-mayribiya: Al-Rabat, 1993. (The Arabic-Berber Dictionary: Series "Dictionaries", Mohamed Shafiq, Royal Moroccan Acadamy: Rabat, 1993.) [Volume 1]
- المعجم العربيّ الأمازيغيّ: سلسلة "معاجم"، محمد شفيق، أكاديمية المملكة المغربية: الرباط، 2000-Al-muzjam al-zarbiy al-amaziyiy: Silsila "Mazajim", Mohamed Shafiq, Akadimiya al-mayribiya: Al-Rabat, 2000. (The Arabic-Berber Dictionary: Series "Dictionaries", Mohamed Shafiq, Royal Moroccan Acadamy: Rabat, 2000.) [Volume 3]

ISO/IEC JTC 1/SC 2/WG 2

PROPOSAL SUMMARY FORM TO ACCOMPANY SUBMISSIONS FOR ADDITIONS TO THE REPERTOIRE OF ISO/IEC 10646^1

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:	Proposal to add ARABIC LE	ETTER ZAIN WITH INVERT	ΓED V ABOVE				
2. Requester's name:		Lorna Priest					
3. Requester type (Memb	ontribution						
Submission date:	4 May 2012 (revis	sed 9 May 2012)					
5. Requester's reference (if applicable):	L2/12-181R					
6. Choose one of the follo							
This is a comple		Yes					
(or) More inform	No						
B. Technical – General							
1. Choose one of the follo							
a. This proposal is		No					
	ame of script:	;					
	for addition of character(s) to an existi		Yes				
	e existing block:	Arabic Extended-A					
2. Number of characters i		CDOD 1					
	ect one from below - see section 2.2 o		114:)				
	x B.1-Specialized (small collectionD-Attested extinct	B.2-Specialized (large E-Minor extinct	collection)				
F-Archaic Hieroglyph		G-Obscure or questionable usa	ga gymbola				
	g character names provided?	G-Obscure of questionable usa					
	ames in accordance with the "characte	or naming guidalinas"	Yes				
	of P&P document?	a naming guidennes	Yes				
	table for review?	Yes					
b. Are the character shapes attached in a legible form suitable for review? 5. Fonts related: Yes							
a. Who will provide the appropriate computerized font to the Project Editor of 10646 for publishing the standard?							
		CII	_				
b. Identify the party	granting a license for use of the font	by the editors (include address, e-mail,	ftp-site, etc.):				
SIL, lorna_priest@sil.org							
6. References:							
	o other character sets, dictionaries, de		Yes				
	*	newspapers, magazines, or other source	es)				
of proposed charac		Yes	<u>_</u>				
7. Special encoding issue	S:	. (6 1: 11) 1 :					
		processing (if applicable) such as inpu					
presentation, sortin		etc. (if yes please enclose information)' e proposal	? Yes				
8. Additional Information		e proposai					
		out Properties of the proposed Characte	er(s) or Script that will assist				
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/reports/tr44/) and associated Unicode Technical Reports for information needed for consideration by the							

Unicode Technical Committee for inclusion in the Unicode Standard.

 $^{^1 \ \}text{Form number: N4102-F (Original 1994-10-14; Revised 1995-01, 1995-04, 1996-04, 1996-08, 1999-03, 2001-05, 2001-09, 2003-11, 2005-01, 2005-09, 2005-10, 2007-03, 2008-05, 2009-11, 2011-03, 2012-01)}$

C. Technical - Justification

e. remiteur - gustineuron					
1. Has this proposal for addition of character(s) been submitted before?	No				
If YES explain					
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.)?	No				
If YES, with whom?					
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?	Yes				
Reference: See proposal					
Reference: See proposal 4. The context of use for the proposed characters (type of use; common or rare)	Somewhat				
	common				
Reference:					
5. Are the proposed characters in current use by the user community?	Yes				
If VEC volume 9 Defendance					
6. After giving due considerations to the principles in the P&P document must the proposed characters be enti	rely				
in the BMP?	Yes				
If YES, is a rationale provided?					
If YES, reference: Should be with other Arabic script characters					
7. Should the proposed characters be kept together in a contiguous range (rather than being scattered)?	na				
8. Can any of the proposed characters be considered a presentation form of an existing					
character or character sequence?	Perhaps				
If YES, is a rationale for its inclusion provided?					
If YES, reference: Follows precedence for encoding Arabic script char	acters.				
9. Can any of the proposed characters be encoded using a composed character sequence of either					
existing characters or other proposed characters?	Perhaps				
If YES, is a rationale for its inclusion provided?					
If YES, reference: Follows precedence for encoding Arabic script char	acters.				
10. Can any of the proposed character(s) be considered to be similar (in appearance or function)					
to, or could be confused with, an existing character?	No				
If YES, is a rationale for its inclusion provided?					
ICVECC.					
11. Does the proposal include use of combining characters and/or use of composite sequences?	No				
If YES, is a rationale for such use provided?	110				
If VES reference:					
Is a list of composite sequences and their corresponding glyph images (graphic symbols) provided?					
ICVECC					
12. Does the proposal contain characters with any special properties such as					
control function or similar semantics?	No				
If YES, describe in detail (include attachment if necessary)	110				
11 125, woodloo ii waan (monaa amaninon ii nooosaa j					
13. Does the proposal contain any Ideographic compatibility characters?					
If YES, are the equivalent corresponding unified ideographic characters identified?					
If VES reference:					
II 1 E.S., leteletice.	<u>-</u>				