L2/05-080

ISO/IEC JTC 1/SC 2/WG 2 PROPOSAL SUMMARY FORM TO ACCOMPANY SUBMISSIONS FOR ADDITIONS TO THE REPERTOIRE OF ISO/IEC 10646¹

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

A. Administrative

1. Title:	Proposal to Encode Additional Cyrillic Characters			
2. Requester's r	name: Lorna A. Priest			
3. Requester type	pe (Member body/Liaison/Individual contribution): Individual contri	ibution		
4. Submission d		arch 2005		
•	eference (if applicable):			
6. Choose one of				
This is a comple		Yes		
	nformation will be provided later:	No		
B. Technical -				
1. Choose one o		NI-		
a. Inis	proposal is for a new script (set of characters):	No		
h Tho	Proposed name of script:	Yes		
b. The	Name of the existing block: Cyrillic Supplementary	165		
2 Number of ob		10		
	aracters in proposal:			
•	egory (select one from below - see section 2.2 of P&P document):	lined (levere cellection)		
A-Contempora	· · · · · · · · · · · · · · · · · · ·	lized (large collection)		
C-Major extino		tionable usage symbols		
	<u> </u>	ilonable usage symbols		
	vel of Implementation (1, 2 or 3) (see Annex K in P&P document): ionale provided for the choice?	No		
15 a 1al	If Yes, reference:	NO		
E la a rapartaire		Vec		
	e including character names provided? ES, are the names in accordance with the "character naming guidelin	es" Yes Yes		
a. 11 1 L	in Annex L of P&P document?	163		
b. Are	the character shapes attached in a legible form suitable for review?	Yes		
	ide the appropriate computerized font (ordered preference: True Type			
	ing the standard? SIL International	oo, or recomperentially for		
	able now, identify source(s) for the font (include address, e-mail, ftp-	site, etc.) and indicate the tools		
used:		·		
7. References:				
	references (to other character sets, dictionaries, descriptive texts etc			
b. Are _l	published examples of use (such as samples from newspapers, mag	-		
	of proposed characters attached?	Yes		
8. Special encode				
	ne proposal address other aspects of character data processing (if a			
presentation, sorting, searching, indexing, transliteration etc. (if yes please enclose information)? Yes, suggested character properties are included.				
9. Additional Info		tor(s) or Script that will assist in correct		
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 http://www.unicode.org/Public/UNIDATA/UCD.html and associated Unicode Technical Reports for information needed for consideration				

by the Unicode Technical Committee for inclusion in the Unicode Standard.

¹ 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

Has this proposal for addition of character(s) been submitted before? If YES explain	No		
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		
If YES, with whom? linguists			
If YES, available relevant documents: Email correspondence. See also Refere	ences.		
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 comments in Section E			
4. The context of use for the proposed characters (type of use; common or rare)	Common		
Reference: orthographic characters are used in literacy materials, liturgical books and g			
5. Are the proposed characters in current use by the user community?	Yes		
If YES, where? Reference: See comments in Section E			
6. After giving due considerations to the principles in the P&P document must the proposed charact in the BMP?	ers be entirely Preferably		
If YES, is a rationale provided?			
If YES, reference:If possible, should be kept with other related blocks			
7. Should the proposed characters be kept together in a contiguous Preferably together with other range (rather than being scattered)?			
8. Can any of the proposed characters be considered a presentation form of an existing character or character sequence?	No		
If YES, is a rationale for its inclusion provided?			
If YES, reference:			
9. Can any of the proposed characters be encoded using a composed character sequence of either existing characters or other proposed characters? Yes			
If YES, is a rationale for its inclusion provided? Characters with bar might be or precomposed forms of sequence combining overlay marks.			
If YES, reference: (Cf. §F.1 of L2/04-047.)			
10. Can any of the proposed character(s) be considered to be similar (in appearance or function) to an existing character?	No		
If YES, is a rationale for its inclusion provided?			
If YES, reference:			
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?			
If YES, reference:			
Is a list of composite sequences and their corresponding glyph images (graphic sprovided?	ymbols)		
If YES, reference:			
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)			
13. Does the proposal contain any Ideographic compatibility character(s)?	No		
If YES, is the equivalent corresponding unified ideographic character(s) identified?			
If YES, reference:			

D. Proposed Characters

A code chart and list of character names are shown on a new page.

D.1. Proposed Characters

	xx0		
0	Ę		
1	Ę		
2	3		
3	3		
4	Л		
5	Л		
6	Х		
7	x X		
8			
9	X		
A			
В			
С			
D			
Ε			
F			

D.1. Character Names

xx00	CYRILLIC CAPITAL LETTER GHE WITH STROKE AND DESCENDER
xx01	CYRILLIC SMALL LETTER GHE WITH STROKE AND DESCENDER
xx02	CYRILLIC CAPITAL LETTER REVERSED ZE
xx03	CYRILLIC SMALL LETTER REVERSED ZE
xx04	CYRILLIC CAPITAL LETTER EL WITH HOOK
xx05	CYRILLIC SMALL LETTER EL WITH HOOK
xx06	CYRILLIC CAPITAL LETTER HA WITH HOOK
xx07	CYRILLIC SMALL LETTER HA WITH HOOK
80xx	CYRILLIC CAPITAL LETTER HA WITH STROKE
xx09	CYRILLIC SMALL LETTER HA WITH STROKE

D.3. Unicode Character Properties

xx00, xx02, xx04, xx06 and xx08 should have a general category of Lu. Other properties for these characters should match those of similar characters, such as U+0413 CYRILLIC CAPITAL LETTER GHE.

Other characters should have a general category of LI. Other properties for these remaining characters should match those of similar characters, such as U+0433 CYRILLIC SMALL LETTER GHE.

E. Other Information

CYRILLIC CAPITAL LETTER GHE WITH STROKE AND DESCENDER (Fig. 1 and 3) and CYRILLIC SMALL LETTER GHE WITH STROKE AND DESCENDER (Fig. 1, 2, 3 and 4) are used in the Nivkh orthography. We consider the differing hooks to be typographic variants (compare Fig. 1 with 2-4).

	, , , ,
Γ, τ	Eskimo (Iniut), Nivh, Aleut, Ket
₹ , ₹	Nivh

Figure 1. CYRILLIC CAPITAL LETTER GHE WITH STROKE AND DESCENDER and CYRILLIC SMALL LETTER GHE WITH STROKE AND DESCENDER (Berdnikov, 1998, p. 43) [Nivkh]

15 Куң к'есп'уркғун п'хыт к'лырох марғарны, хоньвескун п'нафқ-нафқ хердғун: «Хала, Вифлеемрох вин т'ырда: hус нуд hара ивд, нуд hара Ызн мен херд».

16 Ханы мумйот видғун. Вины Мария hара, Иосиф hара, ин Эғлн hара нрыдғун. Эғлн орн ми фигут идыдғун.

Figure 2. CYRILLIC SMALL LETTER GHE WITH STROKE AND DESCENDER, CYRILLIC CAPITAL LETTER HA WITH HOOK and CYRILLIC SMALL LETTER HA WITH HOOK (Institute for Bible Translation, 2000, p. 177) [Nivkh]



Figure 3. CYRILLIC CAPITAL LETTER GHE WITH STROKE AND DESCENDER, CYRILLIC CAPITAL LETTER HA WITH HOOK and CYRILLIC CAPITAL LETTER HA WITH STROKE (Bergmann, 1999) [Nivkh]

Жаймнаркин п'ма прачен кунвдеун, чолата, к'ыргирчинрта кат кунвдеун. Ыгртин корла иньк навркизин йагзута. Ыгрло мунчо муспирок эчна ку мунчозин гэт иньта.

Figure 4. CYRILLIC SMALL LETTER GHE WITH STROKE AND DESCENDER, CYRILLIC SMALL LETTER HA WITH HOOK, CYRILLIC CAPITAL LETTER HA WITH STROKE and CYRILLIC SMALL LETTER HA WITH STROKE (Hubsickas ckaska, undated, p. 3) [Nivkh]

CYRILLIC CAPITAL LETTER REVERSED ZE and CYRILLIC SMALL LETTER REVERSED ZE are used in the Enets (Fig. 5) and Khanti (Fig. 6) orthographies.

9 Пиную локри сєзоту орон На эйтуда озима".

Овца понида На дерихун деритарабиз.

10 Овца понида сейзу аган каниби", На эйтуда ань ноду маби:

«Нера" пид". Модь уда нэда, чук энчиг (гдэ дёри тоораз!

11(Еки дерихун Давид камозухун, уда сита нобзагуза

Христос Бем соясь.

12 Чи, нода торсе вназдумаза: уда похрудуй не сама отагуба лотэ мин мостидаась кодара"».

Figure 5. CYRILLIC CAPITAL LETTER REVERSED ZE and CYRILLIC SMALL LETTER REVERSED ZE (Institute for Bible Translation, 2000, p. 186) [Enets]

Иудея мўва манас Вифлеем воша — Давид хон рәт воша. Лув, вантэ, Давид хон рәт педа вәс.

5 Дув яха вәдты ястум Марияйд пида ханшашты пата панта еддащас, Марияйд пащирн вәдмад.

6 Щив юхатманан Вифлеем хуща Марияйд няврем тайты едпи хатдад тарумсат.

7 Дув мет одан нявремд — Пух сема щи питас, яма суха-нюра ювартсадэ па вой-худдеты хушапа пунсадэ,

Figure 6. CYRILLIC CAPITAL LETTER EL WITH HOOK, CYRILLIC SMALL LETTER EL WITH HOOK and CYRILLIC SMALL LETTER REVERSED ZE (Institute for Bible Translation, 2000, p. 158) [Khanti]

CYRILLIC CAPITAL LETTER EL WITH HOOK and CYRILLIC SMALL LETTER EL WITH HOOK (see Fig. 6-11) are used in Chukchi, Itelmen and Khanti orthographies. We consider the differing hooks to be typographic variants (compare Fig. 6, 7 with 8-12).

68. Қықадевэтгаквытқы. Қыкэдигытқы янор роодқыдтэ, ынқо қамэтваракэн яаёдқыдтэ гапындёма. Қычимгъугытқы чинитки-

Figure 7. CYRILLIC SMALL LETTER EL WITH HOOK (Kerek, 1998, p. 46) [Chukchi]

(пынуынумуочт обот

*Мэччымче ергык гатваленат рыюльыт. Ытри гакытэпгынрэтленат. Уырыкы вытрэтгы ангел, ынкъам эргычьатын Этынвэн тықэчгытратгырго нъэлгы ырык гыролмакы. Кытэпгынрэтыльыт э'қэлинэтрыугъэт. 10 Ытръэч ангел иквъи: «Тэныннэ айылгавка! Торыкы тырэтын танпыныл. Лыгэкоргын ратвагъа ымваратэты: 11 Давидын мэйнынымнымык у'рэтгъи тургин Инэнъегтэлевыльын, тургин Этын, Христос (Энэнин Льоё). 12 Минкыри рэлкылныткы Ытлён: ынан нан рэльуныткы Нэнэны, рычымкатъё ынкъам рытрэльё ранқаматкынык». 11 Люур ангелык қача вытрэтръугъэт қутти нымкықинэт, ыргынан ныгтанъяқэн Энэн:

Figure 8. CYRILLIC CAPITAL LETTER EL WITH HOOK and CYRILLIC SMALL LETTER EL WITH HOOK (Institute for Bible Translation , 2004, p. 16) [Chukchi]

	Aleut, Shor, Koryak		(Inuit), Itelmen
(J, J)	Chukcha, Itelmen, Hanty	(X, X	Nivh, Aleut, Itelmen
	(kazym)	Чч	Abkhaz Tadiik Tofalar

Figure 9. CYRILLIC CAPITAL LETTER EL WITH HOOK, CYRILLIC SMALL LETTER EL WITH HOOK, CYRILLIC CAPITAL LETTER HA WITH HOOK and CYRILLIC SMALL LETTER HA WITH HOOK (Berdnikov, 1998, p. 43) [Itelmen]

ч'элыкилаэн".

28 Хулдзахэн файханом эқ ч'онкч'онк кпәрин, ит'э әлчкалсх Аврарам, Исарак, Йақох эқ мнил профэтарн Айрмнок Нустах (хэн, °тзилвин йақ найтаталсхэн. 29. Ч'амзанларн к'олахэрн атхсанохрал, чқлнохрал,

Figure 10. CYRILLIC SMALL LETTER EL WITH HOOK, CYRILLIC CAPITAL LETTER HA WITH HOOK and CYRILLIC SMALL LETTER HA WITH HOOK (Institute for Bible Translation, 2002, p. 128) [Itelman]

вээн клудээнк нытычэн кэсарэнк Августанк кээнлэтном скәс мнил сәмтэнк, эқ мнил кээнлэткас йасақаэн зыллытнокэ. 2 Тыэн кээнлэтном пэрвой лузувэн ит'э Квириний

Figure 11. CYRILLIC SMALL LETTER EL WITH HOOK and CYRILLIC SMALL LETTER HA WITH HOOK (Institute for Bible Translation, 2000, p. 168) [Itelman]

the same manner from "minus". Additional Cyrillic letters are mainly created using standard modifiers applied to the original Cyrillic letters to produce new glyphs: tails (K, J, H), descenders (K, J, H, H, H, H), horizontal strokes (F, K, H, H), vertical strokes (K, H), cedilla (F, F, H) oriented to the left or to the right, etc. Other sources of linguistic fantasy for producing additional glyphs

Figure 12. CYRILLIC CAPITAL LETTER EL WITH HOOK, CYRILLIC SMALL LETTER EL WITH HOOK and CYRILLIC CAPITAL LETTER HA WITH STROKE (Berdnikov, 1998, p. 35) [Nivkh and Chukchi]

CYRILLIC CAPITAL LETTER HA WITH HOOK and CYRILLIC SMALL LETTER HA WITH HOOK (Fig. 2-4, and 9-11) are used in the Itelmen and Nivkh orthographies.

CYRILLIC CAPITAL LETTER HA WITH STROKE and CYRILLIC SMALL LETTER HA WITH STROKE (Fig. 3, 4, 12 and 13) are used in the Nivkh orthography. Eesti Keele Instituut and Pedersen also indicate the use of CYRILLIC CAPITAL LETTER HA WITH STROKE and CYRILLIC SMALL LETTER HA WITH STROKE.

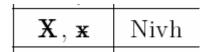


Figure 13. CYRILLIC CAPITAL LETTER HA WITH STROKE and CYRILLIC SMALL LETTER HA WITH STROKE (Berdnikov, 1998, p. 41) [Nivkh]

The main rule used to create new alphabets required that different phonemes should have different graphical representations even if they were from different languages. For example, the Chukcha alphabet contains glyph Π or "soft el" while the glyph Π is absent.

F. References

- Berdnikov, A. Mars 1998. *Alphabets Necessary for Various Cyrillic Writing Systems*. Cahiers GUTenberg n°28-29 Congrès EuroTEX.
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- Pedersen, Thomas T. Rev. 1.1, 2002-10-19. Nivkh. http://ee.www.ee/transliteration/pdf/Nivkh.pdf.
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