

Universal Multiple-Octet Coded Character Set  
International Organization for Standardization  
Organisation Internationale de Normalisation  
Международная организация по стандартизации

**Doc Type: Working Group Document**

**Title: Second revised proposal to encode four historic Latin letters for Sakha (Yakut)**

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**Status: Expert Contribution**

**Action: For consideration by JTC1/SC2/WG2 and UTC**

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**Replaces: L2/12-044, WG2 N4213**

*Some remarks regarding distantly similar Cyrillic letters are added at the end of the introduction, addressing a question raised during UTC #130.*

*In consequence, two characters were renamed.*

## **1. Introduction**

Sakha (ISO 639: sah, also known as Yakut) is a language spoken by 456.288 people according to the 2002 census [2], mainly in the area which today is the Sakha Republic, a federal subject of Russia located in the north east of Siberia.

Some Cyrillic orthographies devised in the 19<sup>th</sup> century did not yield a larger success in alphabetization. Based on this fact and the feeling that the former orthographies did not reflect the phonemes of the language sufficiently, the linguist Semyon Andreyevich Novgorodov (семен нəжурұодап, Səmən Noğoruodap, 1892–1924) devised a Latin orthography using a subset of IPA, augmented by four letters for specific diphthongs which are proposed here. This orthography did use lowercase letters only (like IPA).

This orthography was introduced 1917 in the wake of the Russian revolution, and it was the official orthography of the Sakha language until 1927, when the alphabet was changed again.

Details can be found in [3].

Regarding the letter **IĘ** proposed as U+AB60 LATIN SMALL LETTER IOTIFIED E, it is noted that this letter somewhat resembles the Cyrillic letter **ie** U+0465 CYRILLIC SMALL LETTER IOTIFIED E. In fact, it is possible that Novgorodov was inspired by the "iotified" Cyrillic letters when devising the alphabet. However, the Latin IOTIFIED E resembles a "iotified Latin e", while U+0465 resembled a "iotified Cyrillic e" despite of its name based on its use rather than on its glyptic appearance. The following lines show the Cyrillic letters U+0435, U+0454, U+0465 using some common fonts:

**e** **€** **IĘ** — Arial

**e** **€** **IĘ** — Times New Roman

**e** **€** **IĘ** — Roman Cyrillic (<http://kodeks.uni-bamberg.de/AKSL/Schrift/RomanCyrillicStd.htm>)

This shows that the IOTIFIED E is, if any, a "iotified Latin e", not a "iotified Cyrillic e". Thus, independent of the question whether unification of Latin and Cyrillic letters is appropriate at all, it cannot be unified with **ie**, as **e** and **€** are distinct Cyrillic letters. Thus, unifying the iotified forms of these letters while the base letters are different in form and function would cause confusion.

## 2. Proposed Characters

### **Block: Latin Extended-E**

#### **Historic letters for Sakha (Yakut)**

These letters were used 1917–1927 in the official IPA-based Latin orthography of that era.

<b>Ӑ</b>	U+AB60	LATIN SMALL LETTER SAKHA IOTIFIED A → A657 cyrillic small letter iotified a
<b>Ӗ</b>	U+AB61	LATIN SMALL LETTER IOTIFIED E → 0465 cyrillic small letter iotified e
<b>Ӯ</b>	U+AB62	LATIN SMALL LETTER OPEN OE → 0254 latin small letter open o
<b>ӭ</b>	U+AB63	LATIN SMALL LETTER UO

#### **Notes on the character names**

The names of the characters proposed here as Latin small letters "IOTIFIED E", "OPEN OE", and "UO" are derived from their shape. It is not unlikely that such letters are found when still unencoded repertoires of other historical orthographies or of dialectological transcriptions are researched (see e.g. some examples of similar letters in recent proposals for German dialectology). Thus, names which describe their obvious composition are proposed here.

As the "LATIN SMALL LETTER SAKHA IOTIFIED A" does not resemble glyphically an "a" (neither a Latin or modern Cyrillic nor a Church Slavonic one) and was devised for Sakha, it is named according to its use in the Sakha orthography which it is part of.

#### **Properties:**

AB60;LATIN SMALL LETTER SAKHA IOTIFIED A;Ll;0;L;;;;N;;;;;  
AB61;LATIN SMALL LETTER IOTIFIED E;Ll;0;L;;;;N;;;;;  
AB62;LATIN SMALL LETTER OPEN OE;Ll;0;L;;;;N;;;;;  
AB63;LATIN SMALL LETTER UO;Ll;0;L;;;;N;;;;;

## 3. References

- [1] Юшманов, Николай Владимирович: Определитель Языков. Москва/Ленинград 1941
- [2] [http://ru.wikipedia.org/wiki/%D0%AF%D0%BA%D1%83%D1%82%D1%81%D0%BA%D0%B8%D0%B9\\_%D1%8F%D0%B7%D1%8B%D0%BA](http://ru.wikipedia.org/wiki/%D0%AF%D0%BA%D1%83%D1%82%D1%81%D0%BA%D0%B8%D0%B9_%D1%8F%D0%B7%D1%8B%D0%BA) (retrieved 2011-09-10)
- [3] <http://ilin-yakutsk.narod.ru/1999-12/50-2.htm> (retrieved 2011-09-05; in Russian)
- [4] Новогородов С.А. Первые шаги якутской письменности. Статьи и письма. - М.: Наука, 1977.
- [5] saqalw: suruk bicik, Yakutsk 1917
- [6] нэжирюдап, semen (Novgorodov, S. A.); et al., suruk bicik. мөскуба (Moscow) 1923
- [7] Будищев, И. П.; Русско-якутский словарь. Якутск 1926

## 4. Examples and Figures

**Fig. 1:** [1], p. 28/29. This table shows a compilation of special Latin letters used in orthographies of languages of the Soviet Union before the publication of [1] (1941). The Yakut letters proposed here are marked. (The table shows several other letters not contained in Unicode 6.0, which are not subject of this proposal.)

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Таблица II  
Латиницы языков СССР

В алфавитный список не включены первичные латиницы, замененные впоследствии другими: <i>абхазская</i> (особенности — ё, Ѳ, ѵ, Ѷ, ф, ѿ, Ѽ; буквы с точками, как Ѵ, Ѹ, кружками, как ѽ, зубчиками, как Ѵ, черточкой, как Ѵ); <i>кабардинская</i> (особенности — ѳ, Ѵ, ѻ; ѿ, ѵ, Ѷ; Ѵ, ѻ; сочетания типа fѡ, Ѵѡ, qѡ); <i>якутская</i> (особенности — Ѱ, ѻ, Ѵ, Ѷ; Ѵ [= Ѵ], Ѵ, ѻ, Ѵ, ѻ, Ѵ, ѻ; двоеточие как знак долготы, напр. a:, s:; происных букв и знаков препинания нет).		
<i>Ингушская, осетинская и чеченская латиницы употребляли много сочетаний согласных с -h взамен особых букв кавказских языков. Языки народов Севера пользовались значками: — над гласными (удэйский, эвеникий, эвенинский), — под согласными (ительменский, ненецкий, нивхский, саамский, селькупский) и ' после согласных (ительменский, нивхский, нымыланский, эскимосский).</i>		
ä вепс., ижор., ингуш., карел.	ı хакасский	ї чеченский
а адигейский	ј тувинский	Ӧ см. ѹ, ѻ
æ ингуш., кетский, осет., селькупский, удэйский	Ӯ кавказские, курдский	Ӯ казах., каракалпакский
ć ингуш., осет., чеченский	ӯ в адигейский	Ӯ таджикский
€ курдский, саамский	Ӯ адиг., кабардинский	Ӯ ингуш., чеченский
ç [большинство <sup>1</sup> ]	Ӯ авар., ительм., хант., эским.	Ӯ дагестанские
đ абхаз., адиг., башк., шугн.	Ӯ агаз., авар., адиг., кабард.	Ӯ дагест., шугнанский
đ адиг., белуджский	Ӯ хантыйский	Ӯ абаз., адиг., кабард.
ø [большинство <sup>2</sup> ]	Ӯ ингуш., тюркские, <sup>4</sup> чеченский	Ӯ ингуш., осет., чеченский
ö курдский	Ӯ языки народов Севера	Ӯ кавказские
ł агаз., абхаз., адиг., кабард.	ö вепс., ижор., карел., чеченский	ӝ дунганский
đ абазинский, абхазский	ö [большинство <sup>5</sup> ]	ӝ [большинство <sup>7</sup> ]
ҹ адигейский	ӫ адигейский	ӝ даргинский, табасаранский
ӫ [большинство <sup>3</sup> ]	ӫ агаз., абхаз., кабард.	ӝ кавказские, нанайский, саам., удэйск., эвенк., эвениск.
ҝ агаз., адиг., дагест., курд., татск.	ӫ дагест. (кроме авар.), курд.	ӟ коми
ҝ дагест., татск., шугнанский	ӫ адигейский	ӟ саамский, шугнанский
ҝ агаз., кабардинский	ӫ агаз., абхаз., дагест., ка-	Ҽ, Ӯ, Ӯ, адигинский, абхазский
ҝ агаз., адиг., кабардинский	ӝ нивхский	ӝ [большинство <sup>8</sup> ]
ҝ ингуш., кабардинский, кетский, маньс., ненецкий, нивх., осет.	ӝ адиг., ингуш., чеченский	ҕ, ҕ адигейский
ҝ адигейский	ӝ [большинство <sup>6</sup> ]	ҭ, ҭ агаз., абхаз., кабард.
ҝ абазинский, абхазский	ӝ дагест., маньс., саам., хант.	Ӡ адигейский
ҝ таджикский	ӝ адигинский, абхазский	҆, ҆ агаз., абхаз., кабард.
	ӝ белудж., кавк., курд., сир.	҆, ҆ адиг., абхаз., кабард.
	ӝ адиг., башк., шугнанский	ӟ вепс., таджикский, тюркские (реже другие).
	ӝ абхазский	

<sup>1</sup> Вепсский, ижорский, иранские, кавказские, карельский, сирийский, тюркские (кроме башк., ногайск., тувин.).

<sup>2</sup> Иранские (кроме талык.), кавказские (кроме агаз., авар., кабард.), северные (кроме ительм., маньс., нымыл.), сирийский, тюркские (кроме карач.-балк., киргиз., крым.-тат., кумык., ногайск., оброт., тувин., узбек., хакас., шир., якут.).

<sup>3</sup> Иранские, кавказские (кроме адиг.), тюркские (кроме оброт., туркмен., хакас., шир.).

<sup>4</sup> Кроме азербайджанского.

<sup>5</sup> Тюркские (кроме узбек.) и еще: бурятский, казыньский, лакский, лезгинский, селькупский, удэйский, хантыйский, шугнанский.

<sup>6</sup> Вепсский, ижорский, иранские, кавказские (кроме адиг.), карельский, сирийский, тюркские (кроме казах.).

<sup>7</sup> Вепсский, ижорский, иранские (кроме татск.), кавказские (кроме адиг.), карельский, кетский, саамский, сирийский, тюркские (кроме казах., каракалп.).

<sup>8</sup> Ижорский, курдский, северные (кроме маньс., нанайск., нивх., удэйск., эвенк.), сирийский, тюркские (кроме узбек., уйгур.).

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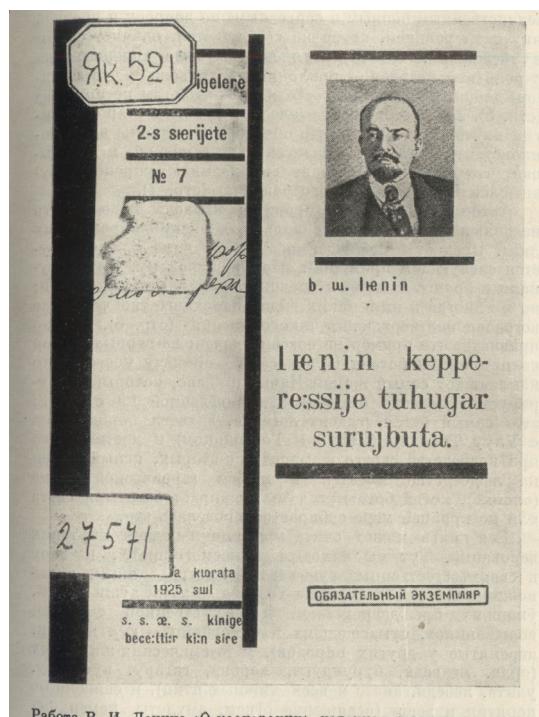
**Fig. 2:** Title page and alphabet page from [5], pictures taken from {4}.



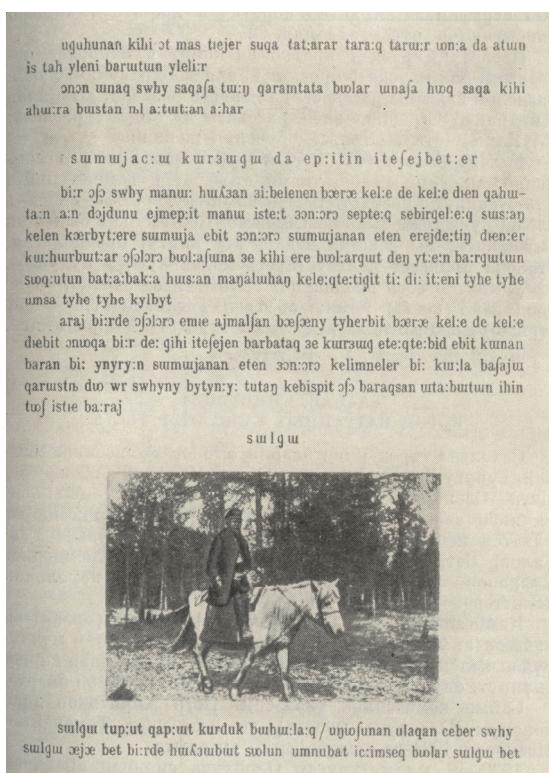
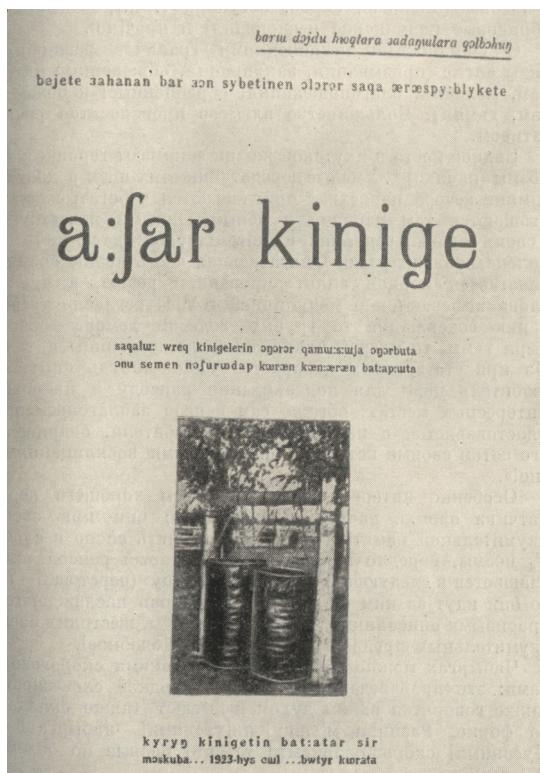
**Fig. 3:** Title page from [6].



**Fig. 5:** Sample pages from several books using the Sakha orthography containing the proposed letters..



Работа В. И. Ленина «О кооперации», изданная на якутском языке «новгородовским» алфавитом



iјe u:hun atu:lu:r artъla

J

ɔʃ iʃčin y:tyn ispetitten xlxr

f

тн зонъ булбут астарум, булбут бултарум твој  
сугахуна:ju ату:хутирга ату:хутилар, ату:хути  
тус туспа өлөрөр зонтона гая бафарар албунна:н  
твкејде:н улан беjetin bassum qapatar buolar.  
ату:хути bassum qapatarq kerrete, беje bassum  
qapatar arduk buлоq ete. онуqafa iјe uha iјe  
u:hunан qelbəhən artıb øroston, bular talar астар  
рум wllerin, бултарум альтарум keppereti:pke из  
зен du:, kəmyske tiejen иззен du:, зиң sъnatu  
gar ату:ла:n tuhanъq etiler. тъ кихите булар  
талаr аха wle elbeq—aru:, y:t, qapad, swhytyn  
ete tirite, баха туяша. тъ кихите бултур бulta  
alta da: elbeq—тъ bultuttan tabata тајса, кэ  
тэр kumatta:qtan kuhä, qa:ha, u: bultuttan ejin  
ejin таjnaruw qajus:a;jun ara:ha... твој da: къма  
snoq... artыl би manu barutun tymen qelbən  
tupsaran øрнөр, barar siriger keppereti:pterge  
du: kemysterge du: ату:lu: turda:funa, би ба  
ruuta ulaqan kъzuy:ske turu etc. би mantan kъ  
ра зон улаqannuk tuhanъ etiler.

---

qəmu:naja qelbəhən ələqrutun ørestərbüt  
əruskəta snoq büləqta:q.

a <sub>α</sub>	e <sub>e</sub>	ə <sub>ə</sub>	æ <sub>x</sub>
ń	ie <sub>oo</sub>	ɯ <sub>oo</sub>	w <sub>uu</sub>
u <sub>uu</sub>	i <sub>e</sub>	u <sub>u</sub>	y <sub>y</sub>
k <sub>h</sub>	q <sub>g</sub>	g <sub>g</sub>	ʃ <sub>ʃ</sub>
ŋ <sub>y</sub>	t <sub>t</sub>	d <sub>d</sub>	n <sub>n</sub>
c <sub>o</sub>	z <sub>ə</sub>	ɲ <sub>ŋ̟</sub>	p <sub>p</sub>
b <sub>h</sub>	j <sub>i</sub>	ɟ <sub>ɟ̟</sub>	m <sub>m</sub>
r <sub>i</sub>	l <sub>l</sub>	ʎ <sub>ʎ̟</sub>	s <sub>s</sub>
h <sub>h</sub>	:		-

**Fig. 6:** Two sample pages from {7}.

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<p><b>A.</b></p> <table> <tbody> <tr><td>Автономия</td><td>артаңыттија</td></tr> <tr><td>Август</td><td>атыңзақ щја</td></tr> <tr><td>Агент</td><td>еџент</td></tr> <tr><td>Алмаз</td><td>алама:s та:s</td></tr> <tr><td>Амбар</td><td>ампа:r</td></tr> <tr><td>Амбулатория</td><td>ambulatоrьtтија</td></tr> <tr><td>Америка</td><td>емиерике</td></tr> <tr><td>Амнистия</td><td>емни:stije</td></tr> <tr><td>Анастасия</td><td>наста:сесија</td></tr> <tr><td>Андрей</td><td>әndyреj, әndry:s</td></tr> <tr><td>Анна</td><td>a:na, a:nus, a:nuska</td></tr> <tr><td>Англия</td><td>engilije</td></tr> <tr><td>Алексей</td><td>әләкс:еј</td></tr> <tr><td>Александр</td><td>sa:ndra, әләks:әndyre</td></tr> <tr><td>Александра</td><td>әләeksәнда:рә</td></tr> <tr><td>Аркан</td><td>әfтар</td></tr> <tr><td>Апрель</td><td>mu:s ustар</td></tr> <tr><td>Апелляция</td><td>eppеle:ssije</td></tr> <tr><td>Арестант</td><td>qa:jun:a:q</td></tr> <tr><td>Арестовать</td><td>qa:jun:ja ugшqqa, qa:junqqa</td></tr> <tr><td>Аршин</td><td>assu:n</td></tr> <tr><td>Армия</td><td>a:rmija</td></tr> <tr><td>Аэрордром</td><td>kætær a:l tyher tøqtu:t sire</td></tr> <tr><td>Аэроплан</td><td>kætær a:l</td></tr> </tbody> </table> <p><b>Б.</b></p> <table> <tbody> <tr><td>Бабушка</td><td>ебе</td></tr> <tr><td>Баба</td><td>заqtar</td></tr> </tbody> </table>	Автономия	артаңыттија	Август	атыңзақ щја	Агент	еџент	Алмаз	алама:s та:s	Амбар	ампа:r	Амбулатория	ambulatоrьtтија	Америка	емиерике	Амнистия	емни:stije	Анастасия	наста:сесија	Андрей	әndyреj, әndry:s	Анна	a:na, a:nus, a:nuska	Англия	engilije	Алексей	әләкс:еј	Александр	sa:ndra, әләks:әndyre	Александра	әләeksәнда:рә	Аркан	әfтар	Апрель	mu:s ustар	Апелляция	eppеle:ssije	Арестант	qa:jun:a:q	Арестовать	qa:jun:ja ugшqqa, qa:junqqa	Аршин	assu:n	Армия	a:rmija	Аэрордром	kætær a:l tyher tøqtu:t sire	Аэроплан	kætær a:l	Бабушка	ебе	Баба	заqtar	<p>Большие шали есть?      улаqan sa:l budat ba:r du?</p> <p>Покажите одеяла?      sүrfanna kәrdәr?</p> <p>Шапка есть?      bergehe bar du?</p> <p>Картуз есть?      qәttur:s bar du?</p> <p>Покажите шарфы?      sa:rtta kәrdәr ere?</p> <p>Пояс есть?      kur ba:r du?</p> <p>Машинные нитки есть?      massui:na saba b:r du?</p> <p>Серые нитки есть?      dwn sap ba:r du?</p> <p>Полушубки есть?      kulgas bara:n sөn ba:r du?</p> <p>Что стоит?      sүlnata tәhәenyj? (tuguj?)</p> <p>Дайте кирпич чаю?      bir kippice ca:jda ajal?</p> <p>Дайте три фунта чаю      ys mu:nta ot ejda ajal?</p> <p>байхового</p> <p>Дайте два фунта сахару? ikki mu:nta sa:qarda ajal?</p> <p>Свесьте карамели      su:la:q qamрытta uja:</p> <p>Дайте монпасье      lampasi:j qamрытta ajal</p> <p>Рубашечные пуговицы      arba:ju timefe ba:r du?</p> <p>есть?</p> <p>Пуговицы для пальто      sөn timefe ba:r du?</p> <p>есть?</p> <p>Какие пуговицы нужны? qajdaq timeq na:da?</p> <p>Что стоит дюжина?      zи:hunata qaska turar?</p> <p>Сапоги есть?      sappuks ba:r du?</p> <p>Катанки есть?      ka:tunqka ba:r du?</p> <p>Войлок есть?      bw:zәq ba:r du?</p> <p>Почем цена?      sүlnata tәhәenyj?</p> <p>Покажите швейные ма-      i:stener massui:nata</p> <p>шины      kәrdәr ere?</p> <p>Хорошая машина?      ueygej massui:na du?</p> <p>Что стоит?      sүlnata tәhәenyj?</p> <p>Машинные иголки есть? massui:na ijnete ba:r du?</p> <p>Отпустите мне один тиেqe bir mu:nta буoraftu</p> <p>фунт пороха и пять      kutta bies mu:nta dara-</p> <p>фунтов дроби      mи:nata uja: ere</p> <p>Все это что стоит?      bu baruta tәhәej turar?</p>
Автономия	артаңыттија																																																				
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Анастасия	наста:сесија																																																				
Андрей	әndyреj, әndry:s																																																				
Анна	a:na, a:nus, a:nuska																																																				
Англия	engilije																																																				
Алексей	әләкс:еј																																																				
Александр	sa:ndra, әләks:әndyre																																																				
Александра	әләeksәнда:рә																																																				
Аркан	әfтар																																																				
Апрель	mu:s ustар																																																				
Апелляция	eppеle:ssije																																																				
Арестант	qa:jun:a:q																																																				
Арестовать	qa:jun:ja ugшqqa, qa:junqqa																																																				
Аршин	assu:n																																																				
Армия	a:rmija																																																				
Аэрордром	kætær a:l tyher tøqtu:t sire																																																				
Аэроплан	kætær a:l																																																				
Бабушка	ебе																																																				
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**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:	<b>Second revised proposal to encode four historic Latin letters for Sakha (Yakut)</b>	
2. Requester's name:	Ilya Yevlampiev, Nurlan Jumageldinov, Karl Pentzlin	
3. Requester type (Member body/Liaison/Individual contribution):	Individual contribution	
4. Submission date:	2012-04-26	
5. Requester's reference (if applicable):		
6. Choose one of the following:		
This is a complete proposal:	Yes	
(or) More information will be provided later:		

**B. Technical – General**

1. Choose one of the following:		
a. This proposal is for a new script (set of characters):	No	
Proposed name of script:		
b. The proposal is for addition of character(s) to an existing block:	Yes	
Name of the existing block:	Latin Extended-E	
2. Number of characters in proposal:	4	
3. Proposed category (select one from below - see section 2.2 of P&P document):		
A-Contemporary	B-1-Specialized (small collection)	X 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	
4. Is a repertoire including character names provided?	Yes	
a. If YES, are the names in accordance with the "character naming guidelines" in Annex L of P&P document?	Yes	
b. Are the character shapes attached in a legible form suitable for review?	Yes	
5. Fonts related:		
a. Who will provide the appropriate computerized font to the Project Editor of 10646 for publishing the standard?	Karl Pentzlin; font available at <a href="http://www.pentzlin.com/sakhaletters1.ttf">http://www.pentzlin.com/sakhaletters1.ttf</a>	
b. Identify the party granting a license for use of the font by the editors (include address, e-mail, ftp-site, etc.):	Released into the Public Domain by the author	
6. References:		
a. Are references (to other character sets, dictionaries, descriptive texts etc.) provided?	Yes	
b. Are published examples of use (such as samples from newspapers, magazines, or other sources) of proposed characters attached?	Yes	
7. Special encoding issues:		
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)?	n/a	
8. 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 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.

<sup>1</sup> Form number: N3902-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)

### C. Technical - Justification

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.)?	Yes
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:	
4. The context of use for the proposed characters (type of use; common or rare)	Historically common
Reference:	
5. Are the proposed characters in current use by the user community?	Historical and scientific
If YES, where? Reference:	
6. After giving due considerations to the principles in the P&P document must the proposed characters be entirely in the BMP?	Yes
If YES, is a rationale provided?	
If YES, reference:	
7. Should the proposed characters be kept together in a contiguous range (rather than being scattered)?	Yes
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?	No
If YES, is a rationale for its inclusion provided?	
If YES, reference:	
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 symbols) provided?	
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 characters?	No
If YES, are the equivalent corresponding unified ideographic characters identified?	
If YES, reference:	