ISO/IEC JTC1/SC2/WG2 N2555

2002-12-04

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

Doc Type: Working Group Document

Title: Revised proposal for encoding the Glagolitic script in the UCS

Source: Michael Everson and Ralph Cleminson

Status: Expert Contribution

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

Date: 2002-12-04

This document is based on the proposal written by Joe Becker and published in UTR#3, and the proposal written by Michael Everson in N1659. It is a revision of Michael Everson's N1931, and contains the proposal summary.

A. Administrative

1. Title

Revised proposal for encoding the Glagolitic script in the UCS.

2. Requester's name

Michael Everson and Ralph Cleminson

3. Requester type (Member body/Liaison/Individual contribution)

Individual contribution.

4. Submission date

2002-12-04

- 5. Requester's reference (if applicable)
- 6. Choose one of the following:

6a. This is a complete proposal

Yes.

6b. More information will be provided later

No.

B. Technical -- General

1. Choose one of the following:

1a. This proposal is for a new script (set of characters)

Yes.

Proposed name of script

Glagolitic.

1b. The proposal is for addition of character(s) to an existing block

Nο

1b. Name of the existing block

2. Number of characters in proposal

88

3. Proposed category (see section II, Character Categories)

Category B.1.

4a. Proposed Level of Implementation (1, 2 or 3) (see clause 14, ISO/IEC 10646-1: 2000)

As an alphabetic script, Glagolitic requires Level 1.

4b. Is a rationale provided for the choice?

No.

4c. If YES, reference

5a. Is a repertoire including character names provided?

Yes.

5b. If YES, are the names in accordance with the character naming guidelines in Annex L of ISO/IEC 10646-1: 2000?

5c. Are the character shapes attached in a legible form suitable for review?

Yes.

6a. Who will provide the appropriate computerized font (ordered preference: True Type, or PostScript format) for publishing the standard?

Michael Everson.

6b. If available now, identify source(s) for the font (include address, e-mail, ftp-site, etc.) and indicate the tools used: Michael Everson, Fontographer.

7a. Are references (to other character sets, dictionaries, descriptive texts etc.) provided?

Yes, see bibliography below.

7b. Are published examples of use (such as samples from newspapers, magazines, or other sources) of proposed characters attached?

Yes.

8. 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)?

Yes, see below.

9. 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/Public/UNIDATA/UnicodeCharacterDatabase.html and associated Unicode Technical Reports for information needed for consideration by the Unicode Technical Committee for inclusion in the Unicode Standard.

Yes, see Unicode properties below.

C. Technical -- Justification

1. Has this proposal for addition of character(s) been submitted before? If YES, explain.

Yes, exploratory drafts in N1659 and N1931.

2a. 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.

2b. If YES, with whom?

Ralph Cleminson, Dr. Hinko Muren (Slovenia), ISO/TC46/SC2, ISO/TC46/SC4

2c. If YES, available relevant documents

N/A

3. Information on the user community for the proposed characters (for example: size, demographics, information technology use, or publishing use) is included?

Scholarly, ecclesiastical, and library communities.

4a. The context of use for the proposed characters (type of use; common or rare)

Originally used to write Old Church Slavonic, and used in parts of medieval and early modern Croatia for both secular and ecclesiastical purposes.

4b. Reference

See below. ISO 6861:1996 is a coded character set for Glagolitic, as well as the bibliography below.

5a. Are the proposed characters in current use by the user community?

Yes.

5b. If YES, where?

By scholars, churchmen, and librarians.

6a. After giving due considerations to the principles in Principles and Procedures document (a WG 2 standing document) must the proposed characters be entirely in the BMP?

Yes.

6b. If YES, is a rationale provided?

Yes

6c. If YES, reference

Accordance with the Roadmap, and close relationship of Glagolitic and Cyrillic texts.

7. Should the proposed characters be kept together in a contiguous range (rather than being scattered)?

Yes, they should be encoded in a single block as presented here.

8a. Can any of the proposed characters be considered a presentation form of an existing character or character sequence?

No.

8b. If YES, is a rationale for its inclusion provided?

8c. If YES, reference

9a. Can any of the proposed characters be encoded using a composed character sequence of either existing characters or other proposed characters?

No.

9b. If YES, is a rationale for its inclusion provided?

9c. If YES, reference

10a. Can any of the proposed character(s) be considered to be similar (in appearance or function) to an existing character?

No.

10b. If YES, is a rationale for its inclusion provided?

10c. If YES, reference

11a. Does the proposal include use of combining characters and/or use of composite sequences (see clauses 4.12 and 4.14 in ISO/IEC 10646-1: 2000)?

No.

11b. If YES, is a rationale for such use provided?

11c. If YES, reference

12a. Is a list of composite sequences and their corresponding glyph images (graphic symbols) provided?

No. Generic combining characters can occur with Glagolitic base forms.

12b. If YES, reference

13a. Does the proposal contain characters with any special properties such as control function or similar semantics?

13b. If YES, describe in detail (include attachment if necessary)

14a. Does the proposal contain any Ideographic compatibility character(s)?

Nο

14b. If YES, is the equivalent corresponding unified ideographic character(s) identified?

14c. If YES, reference

D. Proposal

User community

Glagolitic is considered to be the alphabet devised by St Cyril, probably in 862, for his translation of the the Scriptures and liturgical books into Slavonic. The Glagolitic inscriptions and manuscripts which survive from the early period are relatively few in number, but of great philological importance. Amongst the Slavs of the Eastem Rite, Glagolitic was subsequently supplanted by the alphabet now known as Cyrillic (based on Greek uncials but following the order and function of the Glagolitic letters), which probably arose in late tenth-century Bulgaria. In those parts of Croatia where a vernacular liturgy was used, Glagolitic continued in use until modern times: the last Glagolitic missal was printed in Rome in 1893. In these areas Glagolitic is still occasionally used as a decorative alphabet.

Structure

In the encoding Glagolitic is treated as a separate alphabet from Cyrillic, both because of its historical primacy and because in almost every case the shapes of the letters in the two alphabets are completely dissimilar: the one can in no sense be regarded as a visual variant of the other. Glagolitic itself exists in two styles, known as round and square. Round Glagolitic is the original style and more geographically widespread (though surviving examples are less numerous); square Glagolitic (and the cursive style derived from it) was used in Croatia from the thirteenth century. There are a few documents written in a style intermediate between the two. The letter-forms used in the charts are round Glagolitic, since a number of characters found in this style are not represented in square Glagolitic, while the reverse (with the exception of the stapić) is not the case.

Directionality

Like Cyrillic, the Glagolitic script is written in linear sequence from left to right with no contextual modification of the letterforms.

Ordering

The ordering of the Glagolitic alphabet is derived from that of Greek, though nearly half the Glagolitic characters have no equivalent in Greek and not every Greek letter has its equivalent in Glagolitic. The original (Cyrillo-methodian) alphabet is not recoverable, there being no extant documents from this period; its content and order can nevertheless be reconstructed with reasonable certainty on the basis of later abecedaria and a number of acrostics of extremely early origin. It should however be recognised that the order of the alphabet as represented in the surviving documents is not entirely stable, particularly towards the end.

Variant Glyph Forms

Several of the letters have variant glyph forms. These are not given separate character codes here. The character & SMALL YUS should be distinguished from & (or &) by means of VARIANT SELECTOR-1. It occurs sporadically in a few early manuscripts, but is clearly not a random variant, since it occurs only in masculine participles (in this case, though, it is worth considering that if it isn't a random variant it might be worth encoding). In ISO 6861:1996 five variant forms are explicitly encoded, and were in N1659. Discussion with the convener of ISO/SC4/WG2 indicated that in bibliographical contexts, probably *most* current use transliterates Glagolitic into Cyrillic in any case, and it is suggested that the variant characters in ISO 6861:1996 be unified with the basic letters.

Punctuation and diacritics

Glagolitic uses the following punctuation:

, 002C COMMA

. 002E FULL STOP

; 037E GREEK QUESTION MARK

· 0387 GREEK ANO TELEIA

: 0589 ARMENIAN FULL STOP

: 10FB GEORGIAN PARAGRAPH SEPARATOR

The punctuation mark ANO TELEIA is used, flanking a letter on either side, to show the numeric use of the letter (Faulmann 1880). Glagolitic uses numerous diacritical marks, many of them in common with Cyrillic. It is suggested that research on the use of these in both Cyrillic and Glagolitic be initiated, and that any characters missing from the UCS be added at a future date to the general Combining Diacritical Marks block if necessary. It has been observed that a line above or a tilde above a letter or letters can be used to show the numeric use of the letter.

Names

The names of the letters present a number of problems. The first is that regular phonological developments have caused some of them to diverge in the modem languages; **b\overline{\textit{Envi}} \textit{Chrivi} \text{ Chrivi} \tex

The letters have inherent numerical values. Those from 1 to 1000 are well attested; the values 2000, 3000 and 5000 for us sha, & yeru and by yu respectively are supported by fifteenth-century evidence; the higher values assigned to some letters by modern authors are not reliable.

				Value	ISO 6861
ተ	₼₺∞₭	аzъ	AZU	1	1
쁜	Ľ ቌ፞፞፞ኯ፞፞፞፞፞፞፞፞፞፞ጜ፞፝	buky	BUKY	2	2
v	የል &&	vědě	VEDE	3	3
%	% <mark>&</mark> +% <mark>3</mark> &%	glagoli	GLAGOLI	4	4
$\boldsymbol{\vartheta}$	ѧӭшьӭ	dobro	DOBRO	5	5
Э	3 2 W&	jestъ	JESTU	6	6
86	፠ ፠ ሦ ል መን	živěte	ZHIVETE	7	7
❖	€&A& \$	3ĕlo	DZELO	8	8
Θ_0	ል ቆ፠€∌	zemlja	ZEMLJA	9	9
ሞ	ሞ ፠ ን	iže	IZHE	10	20
82	%% 3	iže	INITIAL IZHEI	10	20
8	8	i	I	20	10
M	маьчя	djervь	DJERVI	30	_
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æ	& ℙ&ጟ϶	ljudьje	LJUDIJE	50	50
ஐ	ም ሄጽ ደ &ጽመን	myslite	MYSLITE	60	60
ተ	ያተጠጃ	паšь	NASHI	70	70
9	ን ዯጜ	опъ	ONU	80	80
ъ	ሞ ያ ኑንም	рокојь	POKOJI	90	90
Ь	Ь ፟፟፟፟፟ጜ፞፞፝፞፞፞ጜ	гьсі	RICI	100	100
8	ይዔይሦያ	slovo	SLOVO	200	200
OO	ԵՌԷՎԳՄ	tvrьdo	TVRIDO	300	300
3	ም ት&	икъ	UKU	400	400
φ	ΦĿጜሙጜ	frьtъ	FRITU	500	500
Jo	ьаья	hěrъ	HERU	600	6000/600
0	3W&	отъ	OTU	700	700
П			PE		
₩	ለ ተ	šta	SHTA	800	800
V	VX	ci	CI	900	900
k	የ Ьጃ 안 ጃ	črьvь	CHRIVI	1000	1000
Ш	Шф	ša	SHA	2000	2000
×	ЭЬ-Х	јегъ	YERU	3000	4000
X	ЭЬ⊠	јегь	YERI		3000
A	A 00 . 8	jatь	YATI		5000
Ď		· ·	SPIDERY HA		
P	DP	ju	YU	5000	8000
€		•	SMALL YUS		
☆			YO		7000
æ			IOT. SMALL YUS	S	_
3€			BIG YUS		9000
3 €			IOT. BIG YUS		
.⊕.		fita	FITA		9/500
ጅ .	%%% ٧ሑ	ižica	IZHICA		400
1	ይመቶሞ8ሣን	stapić	STAPIC		
		*			

Unicode Character Properties

Spacing letters, category "Lo", bidi category "L" (strong left to right) xx00-xx2B, xx30-xx5B

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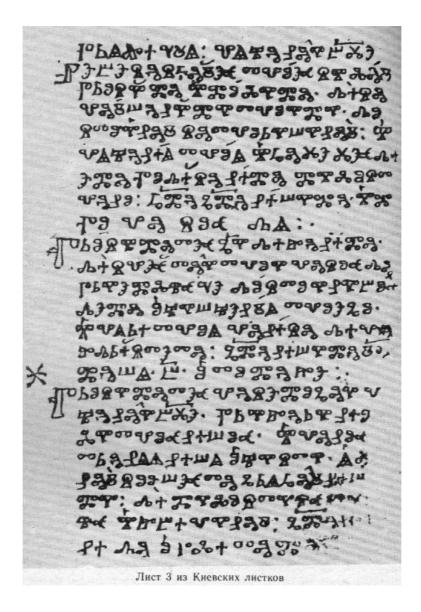
Annex A

Sample from Leskien 1922:212.

Aus dem Codex Assemanianus.

Johannes IV, 5-42.

отвесьный выная времения [этань выная выправо ተተራተለተ ውስደና ይመልተቀር ይመስተያ የሚያሉ የተመመር ይመመር ተለተመር ይመመር ተለተለተ датра дузэжа. 6. ша жэ ма дмалэрэче барале. бааса жэ መኔውጽብፅ ହ€ 3መብ የ9€ለም ደልብልትШን ለተነን ቶት ደለመብንያብላሪ. ኤንብሞያት жэ ша ар шэхмүү. 7. 8 грамэ жэгү эме хүжүрдэг гэнрегүме vэлат. занъзан эв ваяяа• анжла яв гтит. 8, ячэгвчв сэ ን ተመደመ መመደር ተቀን ጀምር ይር**ጥ** ይለመደ ይለታል ነው የተመደተመ መመደር ተቀንጀም መመደር መመደር ተቀንጀም መመደር ተቀንጀም መመደር ተቀንጀም መመደር ተቀንጀም መመደር ተ ምመም ፠3ኯፁዋ ደትመትኦልኯራጀታፍ ደንድሦር; ታን የኑሪንተደትቀርመብ Ľን ደፍ 8ቦብን8 24774627364. 10. ОТИЧЕН ВЕЗВЯ В 6343 38. 443 28 ЧАЛАМА **ሴተ**ьራ ሮ3፠ዋ8 8 ነወ<mark>ን 3ደመራ ኤ</mark>ሴተ<mark>ኤ</mark>3ራ68 **ወዋ** ሴተሯ<mark>ፊራ </mark>ሚዋ **የዋወ**ዋ, **መራዋ** шт гызатан ж гэхэ, 8 аная их шт чэлж жтчж. 11. ханхэйн ጋጬው ፠ጋታት[•] ኤንደተንሴፘ, ታፘ ተንቀኩብተትሔታሪኮት ፘጭተሠዋ, ፘ ይመውሴንታን೪**ፅ ጋደ**መፅ ължень эта нела вен вынит чиле криж; 12. эта так 26, 8 we [8]& 1989 ftwe 8 Reftovo 389 8 Rowt 383; 13. Owe-ጋጬዄ, ዋጋ ጛጬተመብ የብጽብ€ብተመዋ ደ€ የፊ የልኮብ, ቶብ የጋብተ, ቀ€ጄን ተለብ -ንፉትንልሐይፁሆ ጀትብርህ ምላይትንልዩመድይ ዮጵያርት ዮሴ ውስርብንተር ዮጵያ



Note the use of the ARMENIAN FULL STOP, the GEORGIAN PARAGRAPH SEPARATOR and the GREEK ANO TELEIA here.

TABLE XX - Row 2C: GLAGOLITIC

	2C0	2C1	2C2	2C3	2C4	2C5
0	+	P	X	ሑ	ተ	Æ
1	巴	9	A	Щ	9	A
2	V	-l o	Q	v	₽	Ø
3	%	Ь	P	%	Ь	P
4	જ	8	£	v	8	Æ
5	3	W		Э	W	☆
6	86	33	€	86	3	3€
7	�	ф	æ	�	ф	3 €
8	Øо	b	æ €	₿0	b	æ€
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С	M	V		M	V	
D	7	8		þ	₩	
Е	B	Ш		A	Ш	
F	8	%		कु	Æ	

G = 00 P = 00

TABLE XX - Row 2C: GLAGOLITIC

dec	hex	Name	dec	hex	Name
			dec		
000	00 01	GLAGOLITIC CAPITAL LETTER AZU GLAGOLITIC CAPITAL LETTER BUKY	089	59 5A	GLAGOLITIC SMALL LETTER FITA GLAGOLITIC SMALL LETTER IZHITSA
002 003	02 03	GLAGOLITIC CAPITAL LETTER VEDE GLAGOLITIC CAPITAL LETTER GLAGOLI	091 092	5B 5C	GLAGOLITIC SMALL LETTER STAPIC (This position shall not be used)
004	04 05	GLAGOLITIC CAPITAL LETTER DOBRO GLAGOLITIC CAPITAL LETTER YESTU	093	5D 5E	(This position shall not be used) (This position shall not be used)
006 007	06 07	GLAGOLITIC CAPITAL LETTER ZHIVETE GLAGOLITIC CAPITAL LETTER DZELO	095 096	5F 60	(This position shall not be used) (This position shall not be used)
008	08 09	GLAGOLITIC CAPITAL LETTER ZEMLJA	097 098	61 62	(This position shall not be used)
010	0A	GLAGOLITIC CAPITAL LETTER IZHE GLAGOLITIC CAPITAL LETTER INITIAL IZHE	099	63	(This position shall not be used) (This position shall not be used)
011	0B 0C	GLAGOLITIC CAPITAL LETTER I GLAGOLITIC CAPITAL LETTER DERVI	100	64 65	(This position shall not be used) (This position shall not be used)
013 014	0D 0E	GLAGOLITIC CAPITAL LETTER KAKO GLAGOLITIC CAPITAL LETTER LJUDIJE	102	66 67	(This position shall not be used) (This position shall not be used)
015 016	0F 10	GLAGOLITIC CAPITAL LETTER MYSLITE GLAGOLITIC CAPITAL LETTER NASHI	104 105	68 69	(This position shall not be used) (This position shall not be used)
017	11 12	GLAGOLITIC CAPITAL LETTER ONU	106	6A 6B	(This position shall not be used)
018 019	13	GLAGOLITIC CAPITAL LETTER POKOJI GLAGOLITIC CAPITAL LETTER RITSI	107	6C	(This position shall not be used) (This position shall not be used)
020 021	14 15	GLAGOLITIC CAPITAL LETTER SLOVO GLAGOLITIC CAPITAL LETTER TVRIDO	109	6D 6E	(This position shall not be used) (This position shall not be used)
022	16 17	GLAGOLITIC CAPITAL LETTER UKU GLAGOLITIC CAPITAL LETTER FRITU	111	6F 70	(This position shall not be used) (This position shall not be used)
024 025	18 19	GLAGOLITIC CAPITAL LETTER HERU GLAGOLITIC CAPITAL LETTER OTU	113	71 72	(This position shall not be used) (This position shall not be used)
026	1A	GLAGOLITIC CAPITAL LETTER PE	115	73	(This position shall not be used)
027 028	1B 1C	GLAGOLITIC CAPITAL LETTER SHTA GLAGOLITIC CAPITAL LETTER TSI	116 117	74 75	(This position shall not be used) (This position shall not be used)
029 030	1D 1E	GLAGOLITIC CAPITAL LETTER CHRIVI GLAGOLITIC CAPITAL LETTER SHA	118 119	76 77	(This position shall not be used) (This position shall not be used)
031 032	1F 20	GLAGOLITIC CAPITAL LETTER YERU GLAGOLITIC CAPITAL LETTER YERI	120 121	78 79	(This position shall not be used) (This position shall not be used)
033	21 22	GLAGOLITIC CAPITAL LETTER YATI GLAGOLITIC CAPITAL LETTER SPIDERY HA	122	7A 7B	(This position shall not be used) (This position shall not be used)
035	23 24	GLAGOLITIC CAPITAL LETTER JU	124	7C 7D	(This position shall not be used)
036	25	GLAGOLITIC CAPITAL LETTER SMALL YUS GLAGOLITIC CAPITAL LETTER YO	125 126	7E	(This position shall not be used) (This position shall not be used)
038	26 27	GLAGOLITIC CAPITAL LETTER IOTATED SMALL YUS GLAGOLITIC CAPITAL LETTER BIG YUS	127	7F	(This position shall not be used)
040 041	28 29	GLAGOLITIC CAPITAL LETTER IOTATED BIG YUS GLAGOLITIC CAPITAL LETTER FITA			
042 043	2A 2B	GLAGOLITIC CAPITAL LETTER IZHITSA GLAGOLITIC CAPITAL LETTER STAPIC			
044	2C	(This position shall not be used)			
045 046	2D 2E	(This position shall not be used) (This position shall not be used)			
047 048	2F 30	(This position shall not be used) GLAGOLITIC SMALL LETTER AZU			
049 050	31 32	GLAGOLITIC SMALL LETTER BUKY GLAGOLITIC SMALL LETTER VEDE			
051 052	33 34	GLAGOLITIC SMALL LETTER GLAGOLI GLAGOLITIC SMALL LETTER DOBRO			
053	35	GLAGOLITIC SMALL LETTER YESTU			
054 055	36 37	GLAGOLITIC SMALL LETTER ZHIVETE GLAGOLITIC SMALL LETTER DZELO			
056 057	38 39	GLAGOLITIC SMALL LETTER ZEMLJA GLAGOLITIC SMALL LETTER IZHE			
058 059	3A 3B	GLAGOLITIC SMALL LETTER INITIAL IZHE GLAGOLITIC SMALL LETTER I			
060 061	3C 3D	GLAGOLITIC SMALL LETTER DERVI GLAGOLITIC SMALL LETTER KAKO			
062	3E	GLAGOLITIC SMALL LETTER LJUDIJE			
063 064	3F 40	GLAGOLITIC SMALL LETTER MYSLITE GLAGOLITIC SMALL LETTER NASHI			
065 066	41 42	GLAGOLITIC SMALL LETTER ONU GLAGOLITIC SMALL LETTER POKOJI			
067 068	43 44	GLAGOLITIC SMALL LETTER RITSI GLAGOLITIC SMALL LETTER SLOVO			
069 070	45 46	GLAGOLITIC SMALL LETTER TYRIDO GLAGOLITIC SMALL LETTER UKU			
071	47	GLAGOLITIC SMALL LETTER FRITU			
072 073	48 49	GLAGOLITIC SMALL LETTER HERU GLAGOLITIC SMALL LETTER OTU			
074 075	4A 4B	GLAGOLITIC SMALL LETTER PE GLAGOLITIC SMALL LETTER SHTA			
076 077	4C 4D	GLAGOLITIC SMALL LETTER TSI GLAGOLITIC SMALL LETTER CHRIVI			
078 079	4E 4F	GLAGOLITIC SMALL LETTER SHA GLAGOLITIC SMALL LETTER YERU			
080	50	GLAGOLITIC SMALL LETTER YERI			
081 082	51 52	GLAGOLITIC SMALL LETTER YATI GLAGOLITIC SMALL LETTER SPIDERY HA			
083 084	53 54	GLAGOLITIC SMALL LETTER YU GLAGOLITIC SMALL LETTER SMALL YUS			
085 086	55 56	GLAGOLITIC SMALL LETTER YO GLAGOLITIC SMALL LETTER IOTATED SMALL YUS			
087 088	57 58	GLAGOLITIC SMALL LETTER BIG YUS GLAGOLITIC SMALL LETTER IOTATED BIG YUS			
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