## Proposal to Encode Slovene Metelko Alphabet 2022

in ISO/IEC 10646 and The Unicode Standard

Nikita Manulov, pacancuvak15@gmail.com

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Replaces L2/11-136

#### 1.Introduction

The Metelko alphabet (Slovene: metelčica) was developed by Franc Serafin Metelko in 1825 and presented in [1]. It was designed to overcome the shortcomings of the then used Slovene orthography (bohoričica) by trying to establish an one-to-one relation for phonemes and letters. The alphabet was used by some authors in printed works until 1833. Some of the letters introduced in the basic Latin alphabet are modeled after the Cyrillic letters III/III, III/III, 3/3, Ж/ж, and Ч/ч. However, these letters are modified to comply with the overall design of Latin letters. All these small letters have descenders while none of the Cyrillic originals have them. Moreover, the designs of III/III, III/III, and Ж/ж were considerably reworked by used curved forms where the Cyrillic originals only have straight constituents.

## 2. Encoding Considerations

The Metelko alphabet uses a letter pair to denote the schwa sound which resembles a reversed S/s. Due to the principle of encoding Latin letters by shape than by meaning, this letter is unified with the existing U+01A7/U+01A8 LATIN CAPITAL/SMALL LETTER TONE TWO, in spite of the

fundamentally different meaning.

Regarding U+A7DA/A7DB LATIN CAPITAL/SMALL LETTER ROUND E,, U+A7DB LATIN SMALL LETTER ROUND E was modified by having a serif in the middle bar. Even if it is advocated that in pure historic alphabets

the use of Cyrillic letters is appropriate to denote Latin letters of an identical form, a cross-script special casing is considered problematic. To avoid this, the capital forms are proposed as Latin letters also, yielding unproblematic case pairs.

UPD: Some of the letters were unified with existing letters in connection with comments from SAP, as well as to free up code positions.

#### 3. Proposed Characters

Annotations in parentheses address special issues for a character, or reference to figures where such special issues are discussed. (These annotations are not intended to be retained in the character list when copied into the standard.)

**Block: Latin Extended-D** 

Additions for the Slovene Metelko Alphabet

Cu+a7da latin capital letter rounded e

- → 0404 cyrillic capital letter ukrainian ie
- $\rightarrow$  2108 scruple
- → A792 latin capital letter c with bar
- · the serif on the middle bar is sometimes retained or modified in sans-serif fonts
- · denotes the sound [tf] in the English Phonotypic Alphabet

· denotes the sound [e] in the Slovene Metelko alphabet

## **C** U+A7DB LATIN SMALL LETTER ROUNDED E

- → 03F5 greek lunate epsilon symbol
- · used in German dialectology

f M U+A7DC LATIN CAPITAL LETTER H WITH NOTCH

 ${f h}$  U+A7DD LATIN SMALL LETTER H WITH NOTCH

U+A7DE LATIN CAPITAL LETTER L WITH PIGTAIL AT BOTTOM

- · resembles the digraph "Lj" in modern Slovene orthography
- $\rightarrow$  027A latin small letter turned r with long leg

lowercase is 027A J

 ${f N}$ U+A7E0 LATIN CAPITAL LETTER N WITH INWARDS HOOK

· resembles the digraph "Nj" in modern Slovene orthography

🗓 U+A7E1 LATIN SMALL LETTER N WITH INWARDS HOOK

· also used in modern Lithuanian dialectology

(NOTE: This letter is identical with U+AB83 as proposed in L2/11-135

" Proposal to add characters used in Lithuanian dialectology to the UCS".)

U+A7E2 LATIN CAPITAL LETTER VERTICALLY BARRED O
U+A7E3 LATIN SMALL LETTER VERTICALLY BARRED O

fu U+A7E4 LATIN CAPITAL LETTER ROUND SHA

- → 0428 cyrillic capital letter sha
- $\rightarrow$  05E9 hebrew letter shin
- → 0633 arabic letter seen

f U U+A7E5 LATIN SMALL LETTER ROUND SHA

 $\mathbf{U}_{ ext{U+A7E6}}$  LATIN CAPITAL LETTER ROUND SHCHA

→ 042A cyrillic capital letter shcha

Щ <sub>U+A7E7</sub> LATIN SMALL LETTER ROUND SHCHA

TU+A7EA LATIN CAPITAL LETTER ROUND ZHE

→ 0416 cyrillic capital letter zhe

 $oldsymbol{\mathfrak{B}}$  U+A7EB LATIN SMALL LETTER ROUND ZHE

3.1 Annotations to be added for already encoded characters

## **2** U+01A8 LATIN SMALL LETTER TONE TWO

after: · Zhuang (old orthography)

ADD: · used as schwa in the Slovene Metelko alphabet

## 3 U+021D LATIN SMALL LETTER YOGH

after: Middle English, Scots

ADD: : · used as ze in the Slovene Metelko alphabet

 $oldsymbol{1}$  U+0220 LATIN SMALL LETTER N WITH RIGHT LONG LEG

after: · Lakota

ADD: · used as tse in the Slovene Metelko alphabet

## f U U+0265 LATIN SMALL LETTER TURNED H

after: voiced rounded palatal approximant

after: uppercase is A78D 4

ADD: · used as che in the Slovene Metelko alphabet

U+027A LATIN SMALL LETTER TURNED R WITH LONG LEG

after: voiced lateral flap

ADD: uppercase is A7DE L

## 3.2 Properties:

```
027A; LATIN SMALL LETTER TURNED R WITH LONG LEG; L1; 0; L;;;;; N;;;; A7DE;
A7DA; LATIN CAPITAL LETTER ROUNDED E; Lu; 0; L;;;;; N;;;; AB6D;
A7DB; LATIN SMALL LETTER ROUNDED E; L1; 0; L; ;; ;; N; ;; AB6C; ; AB6C
A7DC; LATIN CAPITAL LETTER H WITH NOTCH; Lu; 0; L; ;; ;; N; ;; ; A7DD;
A7DD; LATIN SMALL LETTER H WITH NOTCH; L1; 0; L;;;;; N;;; A7DC;; A7DC
A7DE;LATIN CAPITAL LETTER L WITH PIGTAIL AT BOTTOM;Lu;0;L;;;;;;N;;;;;<mark>027A</mark>;
A7E0; LATIN CAPITAL LETTER N WITH INWARDS HOOK; Lu; 0; L; ;; ;; N; ;; ; A7E1;
A7E1; LATIN SMALL LETTER N WITH INWARDS HOOK; L1; 0; L;;;;; N;;; A7E0;; A7E0
A7E2; LATIN CAPITAL LETTER VERTICALLY BARRED O; Lu; 0; L;;;;; N;;;; A7E3;
A7E3; LATIN SMALL LETTER VERTICALLY BARRED O; L1;0; L;;;; N;;; A7E2;; A7E2
A7E4; LATIN CAPITAL LETTER ROUND SHA; Lu; 0; L;;;;; N;;;; A7E5;
A7E5; LATIN SMALL LETTER ROUND SHA; L1; 0; L; ;; ;; N; ;; A7E4; ; A7E4
A7E6; LATIN CAPITAL LETTER ROUND SHCHA; Lu; 0; L;;;;; N;;;; A7E7;
A7E7; LATIN SMALL LETTER ROUND SHCHA; L1; 0; L;;;;; N;;; A7E6;; A7E6
A7EA; LATIN CAPITAL LETTER ROUND ZHE; Lu; 0; L; ;; ;; ;; ; A7EB;
A7EB; LATIN SMALL LETTER ROUND ZHE; L1; 0; L; ;; ;; N; ;; A7EA; ; A7EA
```

#### 4.Code Charts

Latin	0	1	2	3	4	5	6	7	8	9	Α	В	С	D	Е	F
Extended-																
D																
U+A7Dx											$\epsilon$	$\epsilon$	Н	h	L	
U+A7Ex	Ŋ	n	0	0	Ш	W	щ	Щ			Œ	æ				

## 5. Figures

Figure 1.

The Metelko alphabet in the "Textbook of the Slovene language in the Illyrian Kingdom and neighboring provinces", 1825, p. 38

K	raini	ifche Druch	u. Currer	nt-Chrift.
		**		
Α	a	A a	N n	$\mathcal{H}$ n
В	b	B6	N n	D n
D	d	D d	0 .	00
$\mathbf{E}$	e	ce	Φ •	O a
$\mathbf{c}$	E	E c	Рр	Pp
$\mathbf{F}$	f	F F	Rr	Rr
G	g	gg	S s	Sfs
Н	h	H'h	₩ W w	WWw
Н	$\mathbf{h}$	$\mathcal{H}h$	Чų	Uf ry
I	i	Ti	З з	3 ,
S	s	г г	Æ æ	$\mathcal{X}$ x
J	j	71	T t	Ct.
K	k	H h	U u	U u
$\mathbf{L}$	1	Le	$\mathbf{V} \mathbf{v}$	v
$\mathbf{L}$	1	211	դ դ	77
M	m	M m	Чų	44

Figure 2. Tombstone of Mihael Dežman at Navje Memorial Park in Ljubljana, written in the Metelko alphabet.



Figure 3.

Metelko alphabet from http://www2.arnes.si/~mpavle1/mete.html

# ABDEEFGHMI2JKLLMNDOOPRSU 43%TUV 14 abde ef ghh i z j k l J m n n o o o p r s w 43 x t u v n 4

Figure 4.

The explanation of the special signs of Metelko is in the table below:

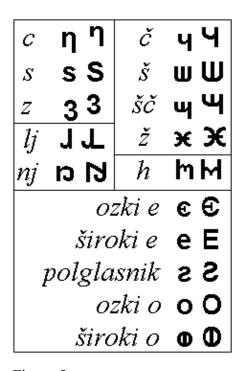


Figure 5.

The story of the Frog and the Ox on Metelko Alphabet

## Xaba inz vol

Œaba je videla vola na travneke, ine æelí pemu enaka bite. 3ayne tedej svojo gérbasto kóæo napihreváte, ter vpráwa svoje tovariwíne: Ale nésem takó velíka kakor vol? Nése, ne, ji pravijo. Le we bol se napépa, ter vprawa: Sem 3dé vender velekemu volu enáka? Spet ji odgovore, de ne. Pa ne neha; 3e vso moyjó se bol ine bol napépa ine raspoye.

Nápeh v nesreyo perprave. Kdor sam sebe pràv pozná, se néma yemú napiheváte.

## Figure 6.

Mathematical textbook "Education for Slovenian schools" (Štęvilstvo za slovénske šóle) 1830 by Fran Serafin Metelko:

## OVTSJIVSTW

# Slovénske wóle

Figure 7.

Task from "Education for Slovenian schools"

115. Navdáj. Ye se 3 vátle sikna dobí 3a 42 gl. 30 kr., 3a kólsko se ga dobí 27½ vátla?

Figure 8.

Solving the problem from "Education for Slovenian Schools"

### Wtétev

se perhítlejem.

v. gl. kr. v.
$$3:42.30=27\frac{1}{2}:X$$

$$\frac{27\frac{1}{2}}{294}$$

$$84$$

$$13.30$$

$$21.15$$

$$3\frac{1168.45}{gl.389.35}$$
 kr.

breg perhitleja.

v. gl. kr. v.

$$3:42.30 = 27\frac{1}{2}:X$$
 $6 \quad 60 \quad 55$ 
 $2550 \quad 55$ 
 $12750 \quad 1275 \quad 60 \text{ kr. gl.}$ 
 $6 \mid 140250 \mid 23375 \mid 389$ 
 $350 \quad 957$ 
 $350 \quad 957$ 

Odgóvor: 389 gl. 35 kr.

Valentin Stanič's adaptation of the poem "Der Kaiser und der Abt" by Gottfried August Bürger

## TESAR IN OPAT. 1)

(13 BÜRGERJA).

Pravline pevédal bom neve postave: Enkrat je bil nesar prebrisane glave; Opàt je tud' bil, moz mogoyen takrar, Al wkoda, evyar je bel zvit bil k' epat.

Bost' nesar prestal je vreqine in mraga, Spal malo, pa bil skog' vesel'ga obraga; Je vede in yeren kreh komaj imel, "Ue veqkrat je zejo in lakot terpel.

Opatu je mogla hit' druga postréga, Begato napitan na mehko se vlega, Na tolstem obraze se lina bleuje; Obsegle trébuha mu néso trije.

A) To balado, katero je Bürger is stare parpovéste; "King John and the Abbot of Canterbury" vsel, je ze (uda V. 8t \*\* K. preslovenil ino va léta 1828 vs. Tereta na ovallobo dal.

Figure 10. Screenshot from <a href="https://en.wikipedia.org/wiki/Metelko\_alphabet">https://en.wikipedia.org/wiki/Metelko\_alphabet</a> showing the letters of the Metelko alphabet (most of the proposed letters are shown as pictures due to lack of Unicode)

## ABDE © FGHHIZJKL I MNNO OPRS W 43 X TUV 14

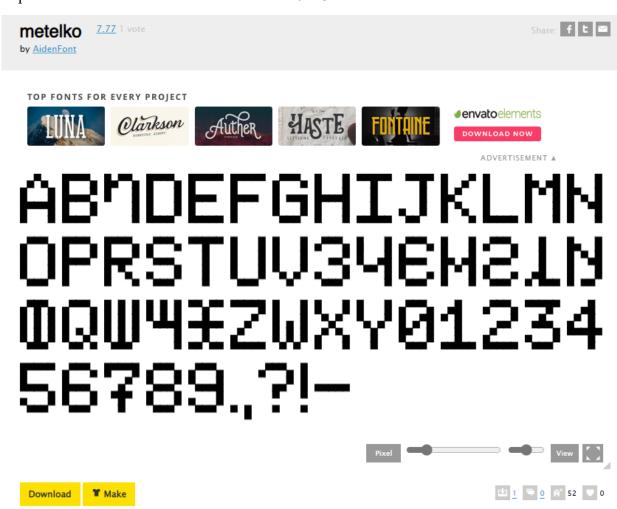
Special letters are explained in the following table (other letters have the same meaning as in modern Slovene):

#### Metelko's alphabet

	Meterko's a	ipiiai	/CL
majuscule	minuscule	IPA	modern Slovene
η	η	/ts/	С
Ч	Ч	/tʃ/	č
S	S	/s/	s
Ψ	W	/ʃ/	š
Ч	Щ	/ <b>ʃtʃ</b> /	šč
3	3	/z/	Z
€	€	/3/	ž
Н	h	/h/	h
М	m	/x/	h
Ŋ	J	/lj/	lj
И	ต	/nj/	nj
E	е	/٤/	e (open e; also ê)
€	$\epsilon$	/e/	e (close e; also é)
S	s	/ə/	e (schwa; also e)
0	0	/0/	o (close o; also ó)
Φ	Φ	/c/	o (open o; also ô)

Figure 11.

Shows the pixel font in which the Metelko alphabet is represented https://fontstruct.com/fontstructions/show/2129423/metelko



#### 6.References

- 1. Metelko, Franz Seraph: Lehrgebäude der slowenischen Sprache im Königreiche Illyrien und in den benachbarten Provinzen. Laibach (now Ljubljana) 1825.
- 2. L2/11-136 Proposal to encode Latin letters for the Slovene Metelko alphabet in the UCS
- 3. http://www2.arnes.si/~mpavle1/mete.html
- 4. https://en.wikipedia.org/wiki/Metelko alphabet
- 5. Metelko, Franz Seraph: Številstvo za slovénske šóle Ljubljana 1830.
- 6. https://fontstruct.com/fontstructions/show/2129423/metelko

#### 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 <a href="http://www.dkuug.dk/JTC1/SC2/WG2/docs/principles.html">http://www.dkuug.dk/JTC1/SC2/WG2/docs/principles.html</a> 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 Encode Slovene Metelko Alphabet 20	022
Requester's name: Nikta Manulov     Requester type (Member body/Liaison/Individual contribution): Individual Contribution	ntribuion
4 Submission date: 2022-11	1-26
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:	
Name of the existing block:  Latin Extended-D	
2. Number of characters in proposal:	<u>15</u>
2. Drawnood astonomy (calest one from below, and castion 2.2 of DSD decomposity)	
3. Proposed category (select one from below - see section 2.2 of P&P document):	aclication)
A-Contemporary B.1-Specialized (small collection) X B.2-Specialized (large C-Major extinct D-Attested extinct E-Minor extinct	collection)
F-Archaic Hieroglyphic or Ideographic G-Obscure or questionable us	
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. Who will provide the appropriate computerized font (ordered preference: True Type, or Posts	Script format) for
publishing the standard?	
If available now, identify source(s) for the font (include address, e-mail, ftp-site, etc.) and	
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 oth	ier sources)
of proposed characters attached? Yes	
7. Special encoding issues:	
Does the proposal address other aspects of character data processing (if applicable) suc	
presentation, sorting, searching, indexing, transliteration etc. (if yes please enclose inform	nation)? No
8. Additional Information:	
Submitters are invited to provide any additional information about Properties of the proposed C	
that will assist in correct understanding of and correct linguistic processing of the proposed cha	
Examples of such properties are: Casing information, Numeric information, Currency information	
information such as line breaks, widths etc., Combining behaviour, Spacing behaviour, Direction	
Collation behaviour, relevance in Mark Up contexts, Compatibility equivalence and other Unico	de normalization

related information. See the Unicode standard at <a href="http://www.unicode.org">http://www.unicode.org</a> for such information on other 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: N3152-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)

## C. Technical - Justification

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.)?  If YES, with whom?  Peter Weiss, Ljubljana, Slovenia  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?  Reference:  People in Slovenia  4. The context of use for the proposed characters (type of use; common or rare)  Specialized  Reference:  See text  5. Are the proposed characters in current use by the user community?  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?  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)?  8. Can any of the proposed characters be considered a presentation form of an existing character or character sequence?  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?  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, reference:  No  If YES, reference:  No
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If YES, is a rationale provided?  If YES, reference:  To keep them in line with similar characters  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 character sequence?  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?  If YES, is a rationale for its inclusion provided?
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If YES, reference:
==,
10. Can any of the proposed character(s) be considered to be similar (in appearance or function)
to an existing character? Yes
If YES, is a rationale for its inclusion provided?  Yes
If YES, reference: See text
11. Does the proposal include use of combining characters and/or use of composite sequences?
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?
If YES, describe in detail (include attachment if necessary)
13. Does the proposal contain any Ideographic compatibility character(s)?
If YES, is the equivalent corresponding unified ideographic character(s) identified?
If YES, reference: