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Information and documentation — Transliteration of Cyrillic characters into Latin characters — Slavic and non-Slavic languages

iTeh STANDARD PREVIEW Information et documentation — Translittération des caractères cyrilliques en

Information et documentation — Translittération des caractères cyrilliques en caractères latins — Langues slaves et non slaves

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Foreword

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Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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This second edition cancels and replaces the first edition (ISO 9:1986) of which it constitutes a technical revision. 903890fdc336/iso-9-1995

Annexes A to D of this International Standard are for information only.

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Introduction

This International Standard is one of a series of International Standards, dealing with the conversion of systems of writing. The aim of this International Standard and others in the series is to provide a means for international communication of written messages in a form which permits the automatic transmission and reconstitution of these by men or machines. The system of conversion, in this case, must be univocal and entirely reversible.

This means that no consideration should be given to phonetic and aesthetic matters nor to certain national customs: all these considerations are, indeed, ignored by the machine performing the function.

The adoption of this International Standard for international communication leaves every country free to adopt for its own use a national standard which may be different, on condition that it be compatible with the International Standard. The system proposed herein should make this possible, and be acceptable for international use if the graphisms it creates are such that they may be converted automatically into the graphisms https://standards.used in any national system, so long as it is strict. 903890fdc336/iso-9-1995

> This International Standard may be used by anyone who has a clear understanding of the system and is certain that it can be applied without ambiguity. The result obtained will not give a correct pronunciation of the original text in a person's own language; but it will serve as a means of finding automatically the original graphism and thus allow anyone who has a knowledge of the original language to pronounce it correctly. Similarly, one can only pronounce correctly a text written in, for example, English or Polish, if one has a knowledge of English or Polish.

> The adoption of national standards compatible with this International Standard will permit the representation, in an international publication, of the morphemes of each language according to the customs of the country where it is spoken. It will be possible to simplify this representation in order to take into account the extent of the character sets available on different kinds of machine.

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Information and documentation — Transliteration of Cyrillic characters into Latin characters — Slavic and non-**Slavic languages**

1 Scope

This International Standard establishes a system for the transliteration into Latin characters of Cyrillic characters constituting the alphabets of Slavic and non-Slavic languages, in accordance with the principles of stringent conversion in order to permit international information exchange, particularly by electronic means. For the transliteration of Slavic Cyrillic characters, tables 1 and 2 reproduce the tables published in the first edition of ISO 9:1986; for the transliteration of Cyrillic characters constituting the alphabets of non-Slavic languages, table 3 adopts the transliteration of tables 1 and 2 for all characters US similar to those of Slavic languages and gives equivalents for all supplementary characters intro-0-100

Table 3 includes in a single sequence, listed in the Cyrillic alphabetic order, the 118 single or diacriticcarrying characters that appear in one or another of the considered alphabets. The list of the languages written in these alphabets is given in annex C.

2 General principles of conversion of writing systems

2.1 The words in a language, which are written according to a given script (the converted system), sometimes have to be rendered according to a different system (the conversion system) normally used for a different language. The procedure is often used for historical or geographical texts, cartographical documents and in particular bibliographical work where characters must be converted from different writing systems into a single alphabet to allow for alphabetical intercalation in bibliographies, catalogues, indexes, toponymic lists, etc.

It is indispensable in that it permits the univocal transmission of a written message between two countries using different writing systems, or ex-changing a message the writing of which is different from their own. It thereby permits transmission by manual, mechanical as well as electronic means.

The two basic methods of conversion of a system of writing are transliteration and transcription.

2.2 Transliteration is the process which consists of representing the characters¹⁾ of an alphabetical or syllabic writing by the characters of a conversion alphabet.

duced in the alphabets of non-Slavic languages alog/standards/sin/%onfocialed the 420 bits on should be made character 903890fdc336/iso-Byleharacter: each character of the converted graphical system is rendered by only one character of the conversion alphabet, this being the easiest way to ensure the complete and unambiguous reversibility of the conversion alphabet in the converted system.

> When the number of characters used in the conversion system is smaller than the number of characters of the converted system, it is necessary to use digraphs or diacritical marks. In this case, arbitrary choices and the use of purely conventional marks shall be avoided as far as possible, and a certain phonetic logic shall be maintained in order to give the system a wide acceptance.

> However, it must be accepted that the graphism obtained cannot always be correctly pronounced according to the phonetic habits of the language (or of all the languages) which usually use(s) the conversion alphabet. On the other hand this graphism shall be such that the reader who has a knowledge of the converted language may mentally restore unequivocally the original graphism and thus pronounce it.

¹⁾ A character is an element of an alphabetical or other type of writing system that graphically represents a phoneme, a syllable, a word or even a prosodical characteristic of a given language. It is used either alone (e.g. a letter, a syllabic sign, an ideographical character, a digit, a punctuation mark) or in combination (e.g. an accent, a diacritical mark). A letter having an accent or a diacritical mark, for example â, è, ö, is therefore a character in the same way as a basic letter.

2.3 Retransliteration is the process whereby the characters of a conversion alphabet are transformed back into those of the converted writing system. It is the exact opposite of the transliteration process in that the rules of a transliteration system are applied in reverse in order to reconvert the transliterated word to its original form.

2.4 Transcription is the process whereby the pronunciation of a given language is noted by the system of signs of a conversion language.

A transcription system is of necessity based on the orthographical conventions of the conversion language. Transcription is not strictly reversible.

Transcription may be used for the conversion of all writing systems. It is the only method that can be used for systems that are not entirely alphabetical or syllabic and for all ideophonographical systems of writing like Chinese.

2.5 To carry out **romanization** (the conversion of DA non-Latin writing systems to the Latin alphabet) either transliteration or transcription or a combination of the establishment of rules for simplified two may be used depending on the nature of the ar for preparation of national standards. converted system.

2.8 When romanizing a script which has no uppercase characters, it is usual to capitalize some words, following national usage.

3 Principles of conversion for alphabetical writing systems

3.1 The conversion may be made at various levels.

The first level is that of completely reversible stringent transliteration which is necessary to attain in full the aim given in 2.2. This conversion applies all principles of transliteration without exception. It does not permit variants. The conventional systems of stringent transliteration should be applied as such without any change to meet national or regional customs as regards pronunciation or orthography. They permit the univocal international transmission of messages by mechanical or electronic means.

To permit an international unequivocal communication, International Standards on transliteration must apply by priority the principle of stringent conversion. These can then be used as a basis for the establishment of rules for simplified conversion and

ISO 9The5second level is that of simplified conversion.

use may call for compromise and the sacrifice of certain national customs. It is therefore necessary for each community of users to accept concessions, fully abstaining in every case from imposing as a matter of course solutions that are actually justified only by national practice (regarding pronunciation and orthography).

When a country uses two systems univocally convertible one into the other to write its own language, the system of transliteration thus implemented shall be taken a priori as a basis for the international standardized system, as far as it is compatible with the other principles exposed hereafter.

2.7 When necessary, the conversion systems should specify an equivalent for each character, not only the letters but also the punctuation marks, numbers, etc. They should similarly take into account the arrangement of the sequence of characters that make up the text, for example the direction of the script, and specify the way of distinguishing words and of using separation signs, following as closely as possible the customs of the language(s) which use the converted writing system.

https://standards.iteh.ai/catalog/standarbesissimplificationc-can-bbec-made necessary, for 2.6 A conversion system proposed for international/ordc3?example.by the use of machines that do not accept all the alphabet characters required for stringent conversion. The method of conversion may allow national or regional variants, which may not permit complete reversibility. The simplified conversion may be the subject of International Standards or agreements.

> The third level is that of **popular conversion** which, for example, should enable the same foreign names to be written in a uniform manner in the newspapers of a given country. It is obliged to take into account phonetic or graphic practices and therefore can only be national.

> **3.2** In cases where the same characters appear in one alphabet used with some differences by different languages, these characters would be transliterated in the same way, irrespective of the language they belong to.

> **3.3** If the converted alphabet gives a different form to the same character according to its place in the word (as is the case for example in the Arabic, Hebrew and Greek alphabets), the conversion alphabet will use only one character of constant form.

4 Transliteration table

	(Cyrillic cha	iracter		characters	on into Latin from Cyrillic s of Slavic	Respective			
No.	prir	nted	written		alphabets (Bu russian, Maced	ulgarian, Byelo- Ionian, Russian, an, Ukrainian)	languages	Examples		
1	a	A	a	A	a	A	all	адрес	adres	
2	б	Б	d	Б	b	В	all	баба	baba	
3	B	B	в	В	V	V	all	вы	vy	
4	Γ	Γ	ت ۲ iTe	h-ST.	ANDAR	D FREN	all TEW	голова	golova	
5	Д	Д	d g	D	andards.iteh.ai)		all	да	da	
6	ħ	Б	https://stan	lards joh.a.	/catalog/standards 903890 f c336/is	/sist/8e9fb9cd-d0 o-9-1925	pe-4c29-b00c sr	ђон	đon	
7	ŕ	ŕ	۲ ^۱	Ĵ	Ś	Ġ	mk	ѓуѓум	ģuģum	
8	e	E	е	Е	e	E	all	еда	eda	
9	ë	Ë	ë	Ľ,	ë	Ë	be ru	ёлка	ëlka	
10	Е	E	e	E	ê	Ê	uk	твоє	tvoê	
11	ж	Ж	ж	M	ž	Ž	all	журнал	žurnal	
12	3	3	з	3	Z	Ζ	all	звезда	zvezda	

Table 1 — (continued)

Cyrillic character					Transliteratio characters f characters	rom Cyrillic	Respective			
No.	prin	ted	written		alphabets (Bu russian, Macedo Serbo-Croatia	lgarian, Byelo- onian, Russian,	languages	Examples		
13	S	S	5	S	Ź	Ź	тk	sвезда	ẑvezda	
14	И	И	И	U	i	Ι	bg mk ru sr uk	книга	kniga	
15	i	Ι	i]	ì	Ì	be uk	білий	bìlij	
16	 1	Ϊ	ï	Ï	i	Ϊ	uk	їзда	ïzda	
17	j	J	j		s I ANDA (stahdar	ds.ifeh.a	K V IE V i) ^{mk sr}	један	jedan	
18	Й	Й	<i>U</i> https	//stardfirds	iteh.ai/caralog/star	<u>9:1995</u> dards/sis <mark>/</mark> 8e9fb90 336/isce9-1995	dyd0berd9-	^{b00} ясрвый	pervyj	
19	К	К	К	K	k	K	all	как	kak	
20	Л	Л	Л	Л	1	L	all	липа	lipa	
21	љ	Љ	Л	Л	î	Ĺ	mk sr	љубав	Îubav	
22	Μ	M	M	M	m	M	all	муж	muž	
23	Η	Η	н	H	n	N	all	нижний	nižnij	
24	њ	Њ	Н	H	n	Ñ	mk sr	њива	ĥiva	

Table 1 — (continued)

Cyrillic character					Transliteratio characters f characters	rom Cyrillic	Respective			
No.	prin	printed		ten	alphabets (Bu russian, Maced Serbo-Croatia	lgarian, Byelo- onian, Russian,	languages	Examples		
25	0	Ο	0	0	Ο	Ο	all	общество	ohŝestvo	
26	П	Π	ūn	T	р	Р	all	пара	para	
27	р	Р	p	P	r	R	all	рыба	ryba	
28	С	C	С	C	S	S	all	сестра	sestra	
29	Т	Т	ū M	n 51]/(st	andards	.iteh.ai)	all	товарищ	tovariŝ	
30	ħ	ĥ	https://star	daro Fileh.a	<u>ISO 9:19</u> ii/catalog/standards 903890fflc336/is	<u>95</u> /sist/8c9fb9cd-d0 io-9-1995	be-4c29-b00c	кућа	kuća	
31	Ќ	Ŕ	Ŕ	K	Ŕ	Ŕ	mk	куќа	kuka	
32	У	У	Y	Ý	u	U	all	утро	utro	
33	ÿ	У	ÿ	Ý	ů	Ŭ	be	слоўнік	sloŭnìk	
34	ф	Φ	qo	Þ	f	F	all	физика fizika		
35	X	X	x	X	h	Н	all	химический	himičeskij	
36	Ц	Ц	Ú,	24	С	С	all	центральный	central´nyj	

 Table 1 — (concluded)

	С	yrillic cha	racter		characters	ion into Latin from Cyrillic rs of Slavic	Respective						
No.	prir	nted	written		alphabets (B russian, Maced	ulgarian, Byelo- donian, Russian, an, Ukrainian)	languages	Examples					
37	Ч	Ч	r	Y	č	Č	all	часы	časy				
38	Ų	Ц	ų	Y	â	D	mk sr	џамија	damija				
39	Ш	Ш	шш	Ul	Š	Š	all	школа	škola				
40	щ	Щ	Шş	Uly	ŝ	Ŝ	bg ru uk	ЩИТ	ŝit				
41	Ъ	Ъ	r B	Teh S	STANDA (standar	ds.iteh.	EVIEV 1) ^{bg ru}	объявление	ob"âvlenie				
42	Ы	Ы	Linttps	//stopperds.	ISC iteh.ai/cat/dog/star 0/3890fdc	<u>9:1995</u> dards/set/8e9fb9d 336/iso-1-1995	:d-d0bern4c29-	b00с-был	byl				
43	Ь	Ь	ь	6	,	,	be bg ru uk	альбом	al´bom				
44	Э	Э	Э	F	è	È	be ru	ЭТО	èto				
45	Ю	Ю	ю	Ю	û	Û	be bg ru uk	Южный	ûžnyj				
46	Я	R	я	Я	â	Â	be bg ru uk	яма	âma				
47	٩	,	,	,	,	,	be mk uk	'pŕa	'rģa				
NOT	E – For the	diacritical si	NOTE – For the diacritical signs used, see annex A.										

No.	Cyrillic character	Transliteration into Latin characters from Cyrillic characters	No.	Cyrillic character	Transliteration into Latin characters from Cyrillic characters	No.	Cyrillic character	Transliteration into Latin characters from Cyrillic characters	No.	Cyrillic character	Transliteration into Latin characters from Cyrillic characters	No.	Cyrillic character	Transliteration into Latin characters from Cyrillic characters
1	a	a	25	Ş	 ,	49	Μ	m	73	ò	Ì	97	ӌ	ċ
2	ä	ä	26	ä	ż	50	H	n	74	Т	t	98	ÿ	ċ
3	ä	ä	27	3	ź	51	ң	ņ	75	Ţ	Ì	99	Ч	ĉ
4	ă	ă	28	И	i	52	Ą	ņ	76	Ť	ť	100	ч̀	è
5	ā	ā	29	Й	ī	53	н	'n	77	Т	ţ	101	e	č
6	æ	æ	30	й	í	54	Ą	'n	78	У	u	102	ę	č š
7	á	á	31	eH S	STÎA	55	Ь) ńr	E A	IŸV	γü	103	ш	š
8	å	å	32	Й	(sta	n 5 6	rdy.	it Ă .	a 80	\bar{y}	ũ	104	щ	ŝ
9	б	b	33	i	ì	57	$\overline{\mathbf{H}}$	ñ	81	ÿ	ŭ	105	Ъ	"
10	B	V	htt <mark>3:4</mark> //s	tandards	iteh.hi/ca	talo 58 ta	nda () s/s 336/iso	- st/8 @ fb -9-1995	cd <mark>82</mark> b	e-4c 2 9-1	000	106	Ы	У
11	Γ	g	35	i	ĭ	59	Ö	Ö	83	ý	ú	107	Ӹ	ÿ
12	ŕ	ģ	36	j	Ĭ	60	θ	Ô	84	ÿ	ü	108	ы	$\bar{\mathbf{y}}$
13	F	ġ	37	j	j	61	θ̈́	Ő	85	Y	ù	109	Ь	•
14	Б	ğ	38	К	k	62	ö	ö	86	¥	ů	110	Э	è
15	h	h	39	қ	ķ	63	Q	Ò	87	ÿ	ū	111	9	ä
16	Д	d	40	К	k	64	Ó	ó	88	W	W	112	ä	à
17	e	e	41	К	k	65	Ō	Ō	89	ф	f	113	Ю	û
18	ĕ	ĕ	42	k	k	66	œ	œ	90	X	h	114	Ē	ů
19	ë	ë	43	Қ	ķ	67	Π	þ	91	X	ļ ķ	115	Я	â
20	Ж	ž	44	Ķ	k	68	Ъ	ģ	92	Ц	C	116	I	‡
21	Ж	Ž	45	q	q	69	Π	à	93	Ц	Ē	117	,	
22	Ж	Ī	46	Л		70	p	r	94	Ų	d	118	77	••
23	Ж	ž	47	Л'	Í	71	c	S	95	Ч	č			
24	3	Z	48	ூ	ļļ	72	Ç	Ş	96	प्	Ç			

Table 3 — Table for Cyrillic characters of non-Slavic languages

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