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

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## 1. Introduction

This proposal is based on the ISO/IEC JTC1/SC35 resolutions 2012.53 (done 2012-08-31 at the Paris meeting of ISO/IEC JTC1/SC35) and 2017.08 (done 2017-02-09 at the Berlin meeting).

# 1.1 Introduction of the symbols from ISO/IEC 9995-7:2009 and its Amendment 1 (2012)

The symbols devised in ISO/IEC 9995-7:2009 and its recent Amendment 1 (2012) are to be used not only as engraving on physical keyboards, but in the light of current technical developments also on on-screen keyboards.

Also, they are intended for use in plain text, especially instructions how to use a keyboard, or how to enter specific texts.

Therefore, software must have access to all these symbols. Thus, it is advisable to have all these symbols encoded in Unicode.

This was already done for the 1994 version of ISO/IEC 9995-7.

Since then, ISO/IEC 9995-7 was developed further. The last version of the complete standard dates from 2009. Thereafter, an amendment was released in 2012 with several new symbols reflecting the need of multilingual keyboards in support of the cultural diversity. Such keyboards are easily accessible especially when not being confined to physical keyboards with fixed engravings.

Therefore, all ISO/IEC 9995-7 symbols not encoded yet and not obviously unifiable with already encoded symbols are proposed here for encoding in Unicode.

# 1.2 Introduction of the symbols from ISO/IEC 9995-10:2013

There are two parts of the ISO/IEC 9995 international standard series which devise keyboard symbols. While ISO/IEC 9995-7 devises symbols for keyboard functions, ISO/IEC 9995-10 devises symbols for characters which cannot be identified by their shape only. E.g., an engraving of a dash on a keyboard does not indicate its character identity by its length, which is to be regarded in relation to similar characters, or its height relative to the baseline, as the engraving is done on an area which does not necessarily present any clues about this.

ISO/IEC 9995-10 resolves this issue by defining symbols for some common characters which consist of a representation of the character itself, augmented by special symbol parts which give a unique optical hint for the identity of the character.

Moreover, ISO/IEC 9995-10 provides placeholders for base characters. By these, diacritical marks can be shown in the relative position to their base character. These placeholders also indicate in which way the diacritical mark has to be entered: A dotted circle (known from the Unicode code tables) indicates that the diacritical mark has to be entered after the base character, while a flat rectangle indicates that the diacritical mark has to be entered has to be entered before the character. The latter method, inherited from the mechanical typewriters and older encoding standards line ISO/IEC 6937, is called the "dead key" method and is part of the keyboard standards of several European countries (e.g. Germany).

Additional to the dotted circle, dotted half circles are provided which allow more room for a clearer representation of the diacritical mark itself when keytop place is limited.

The symbols devised in ISO/IEC 9995-10:2013 are to be used not only as engraving on physical keyboards, but in the light of current technical developments also on on-screen keyboards. Also, they are intended for use in plain text, especially instructions how to use a keyboard, or how to enter specific texts. Therefore, software must have access to all these symbols. Thus, it is advisable to have all these symbols encoded in Unicode.

**Fig. 1:** Detail of a German standard keyboard according to DIN 2137-1:2012-06, showing some of the ISO/IEC 9995-7 and 9995-10 symbols proposed here as Unicode characters.



**Fig. 2:** Excerpts from p.9 and p.10 of the printed edition of the German standard DIN 2137-1:2012-06, showing the use of some of the proposed characters in print.

C08	k U+006B (A)	K U+004B	-, U+0326	к U+0138	🤿 U+0326	🕂 U+0335
C09	1 U+006C A	L U+004C	·군 U+0328	ł U+0142	Ł U+0141 ®	∦ U+0338
C10	ö U+00F6 🕭	Ö U+00D6	- U+0323	← U+0301	<i>—</i> U+030В	° U+00B0

B08	, U+002C	; U+003B	∫ <sup>€</sup> U+02BB	U+2026	× U+00D7	\$ U+0024
B09	. U+002E	: U+003A	U+200C	・ U+00B7	÷ U+00F7	# U+0023
B10	- U+002D	U+005F	() U+00AD	ŀ U+0140	L U+013F B	<sup>1-(</sup> U+2011
A03	니 U+0020	山 U+0020	ጊ U+00A0	□_ U+202F	U+200C	U+00A0

# 1.3 The SC35/WG1 Public Domain font project

By resolutions 2010.47 and 2010.48 adopted at the Venice meeting in August 2010, SC35 decided to make all ISO/IEC 9995-7 symbols public by providing a publicly accessible document and a font released into the Public Domain (or equipped with an equivalent license), to enable everybody to freely use all these symbols (e.g. in keyboard descriptions).

To complete this project, and to avoid to have to resort to PUA codepoints in a public document issued by an ISO workgroup, it is necessary to have Unicode codepoints for all ISO/IEC 9995-7 symbols. This would be accomplished by encoding the characters included in this proposal.

# 2. Encoding Considerations

Until now, ISO/IEC 9995-7 symbols, which are not explicitly arrows, are contained in the "Miscellaneous Technical" block of Unicode. As this block is full now, this cannot be accomplished for symbols new to Unicode proposed here.

All symbols, which are keyboard symbols for (and thus visualizations of) invisible characters (including spaces; or special uses or variants of visible characters) are placed in the "control pictures" block.

Symbols which are enclosed alphanumerics are consequently placed in the "Enclosed Alphanumeric Supplement" block.

The generic symbols which represent selections of specific groups and modes, which have to be augmented by a letter or character denoting that specific group or mode, are given as "enclosing diacritics".

Symbols which are mainly arrows are placed in the "Supplemental Arrows-C" block. Groups of "left/up/right/down arrows" are completed where appropriate if single arrows of such a group are not used in ISO/IEC 9995-7.

All other symbols are placed in a new group "Miscellaneous Technical Supplement" which is proposed at 1FA80–1FAFF (the first block place following the "Pictographic Sets" area in the SMP roadmap which is currently not mentioned in other proposals).

Two symbols, which can be given as combinations of existing Unicode characters (employing the "combining enclosing screen"), are proposed that way, employing the Unicode mechanism of "named sequences".

Thus, it is possible to give a 1:1 correspondence between ISO/IEC 9995-7 and 9995-10 symbols and Unicode codepoints/sequences (see appendix).

Regarding the representative glyphs, they are derived from the original depictions contained in the ISO/IEC 9995-7 and 9995-10 documents. According to principles devised when the original symbols of 1994 were encoded into Unicode, small arrowheads, which are hollow in ISO/IEC 9995-7, are shown filled in the representative glyphs for Unicode (and as it was decided for similar arrows from the Wingdings set, such arrows are named "triangle-headed" here).

# 3. Proposed Characters

#### Block: Combining Diacritical Marks for Symbols

#### Enclosing Keyboard symbols from ISO/IEC 9995-7

The specific group or mode addressed is denoted by a character enclosed in the symbol.

	U+20F1	COMBINING ENCLOSING SQUARE WITH ROUNDED CORNERS = ISO/IEC 9995-7 symbol 105, IEC 60417 symbol 6086 = switch to specific group according to the enclosed letter → 25A2 white square with rounded corners
$\bigcirc$	U+20F2	COMBINING ENCLOSING RIGHTWARDS WHITE SHORT ARROW = ISO/IEC 9995-7 symbol 106, IEC 60417 symbol 6087 = latch to specific group according to the enclosed letter → 21E8 rightwards white arrow
	U+20F3	COMBINING ENCLOSING DOUBLE SQUARE WITH ROUNDED CORNERS = ISO/IEC 9995-7 symbol 107, IEC 60417 symbol 6088 = switch to specific mode according to the enclosed letter

#### **Block: Control Pictures**

#### Keyboard symbols from ISO/IEC 9995-7

Also intended for display of the symbolized characters in "controls visible mode", and for use in instruction texts

	U+2427	SYMBOL FOR EN SPACE = ISO/IEC 9995-7 symbol 63, IEC 60417 symbol 6072-1 $\rightarrow$ 2002 en space
	U+2428	SYMBOL FOR EM SPACE = ISO/IEC 9995-7 symbol 64, IEC 60417 symbol 6072-2 $\rightarrow$ 2003 em space
3	U+2429	SYMBOL FOR THREE-PER-EM SPACE = ISO/IEC 9995-7 symbol 65, IEC 60417 symbol 6072-3 $\rightarrow$ 2004 three-per-em space $\rightarrow$ 1FA8A space select symbol
4	U+242A	SYMBOL FOR FOUR-PER-EM SPACE = ISO/IEC 9995-7 symbol 66, IEC 60417 symbol 6072-4 $\rightarrow$ 2005 four-per-em space
6	U+242B	SYMBOL FOR SIX-PER-EM SPACE = ISO/IEC 9995-7 symbol 67, IEC 60417 symbol 6072-5 $\rightarrow$ 2006 six-per-em space
1	U+242C	SYMBOL FOR FIGURE SPACE

		= ISO/IEC 9995-7 symbol 68, IEC 60417 symbol 6072-6 $\rightarrow$ 2007 figure space
L • ]	U+242D	SYMBOL FOR PUNCTUATION SPACE = ISO/IEC 9995-7 symbol 69, IEC 60417 symbol 6072-7 $\rightarrow$ 2008 punctuation space
	U+242E	SYMBOL FOR THIN OR NARROW SPACE = ISO/IEC 9995-7 symbol 70, IEC 60417 symbol 6072-8 $\rightarrow$ 2009 thin space
	U+242F	SYMBOL FOR HAIR SPACE = ISO/IEC 9995-7 symbol 71, IEC 60417 symbol 6072-9 $\rightarrow$ 200A hair space
ļ	U+2430	SYMBOL FOR ZERO WIDTH SPACE = ISO/IEC 9995-7 symbol 72, IEC 60417 symbol 6072-10 $\rightarrow$ 200A zero width space
<u>  + </u> ]	U+2431	SYMBOL FOR MEDIUM MATHEMATICAL SPACE = ISO/IEC 9995-7 symbol 73, IEC 60417 symbol 6072-11 → 205F medium mathematical space
-1-	U+2432	<ul> <li>SYMBOL FOR NARROW NO-BREAK SPACE</li> <li>= ISO/IEC 9995-7 symbol 74, IEC 60417 symbol 6072-12</li> <li>→ 202F narrow no-break space</li> <li>→ 237D shouldered open box</li> </ul>
(—)	U+2433	<ul> <li>SYMBOL FOR SOFT HYPHEN</li> <li>= ISO/IEC 9995-7 symbol 76, IEC 60417 symbol 6073</li> <li>• hyphen surrounded by very small parentheses</li> <li>→ 00AD soft hyphen</li> </ul>
]—[	U+2434	<ul> <li>SYMBOL FOR NON-BREAKING HYPHEN</li> <li>= ISO/IEC 9995-7 symbol 77, IEC 60417 symbol 6074</li> <li>• hyphen surrounded by very small inverted brackets</li> <li>→ 2011 non-breaking hyphen</li> </ul>
•	U+2435	<ul> <li>SYMBOL FOR NON-STOPPING PERIOD</li> <li>= ISO/IEC 9995-7 symbol 78, IEC 60417 symbol 6075</li> <li>→ 002E full stop</li> <li>• entering U+002E FULL STOP by a key marked such prevents automatic capitalization of the next letter entered</li> </ul>
7	U+2436	SYMBOL FOR LINE SEPARATOR = ISO/IEC 9995-7 symbol 79, IEC 60417 symbol 6076-1 $\rightarrow$ 2028 line separator
//	U+2437	SYMBOL FOR PARAGRAPH SEPARATOR

		= ISO/IEC 9995-7 symbol 80, IEC 60417 symbol 6076-2 $\rightarrow$ 2029 paragraph separator
Ť	U+2438	SYMBOL FOR ZERO WIDTH NON-JOINER JOINER = ISO/IEC 9995-7 symbol 81, IEC 60417 symbol 6077-1 = nail → 200C zero width non-joiner
	U+2439	SYMBOL FOR ZERO WITDH JOINER = ISO/IEC 9995-7 symbol 82, IEC 60417 symbol 6077-2 $\rightarrow$ 200D zero width joiner
Ī	U+243A	SYMBOL FOR WORD JOINER = ISO/IEC 9995-7 symbol 83, IEC 60417 symbol 6077-3 $\rightarrow$ 2060 word joiner
	U+243B	SYMBOL FOR COMBINING GRAPHEME JOINER = ISO/IEC 9995-7 symbol 84, IEC 60417 symbol 6077-4 → 034F combining grapheme joinder
	U+243C	SYMBOL FOR LEFT-TO-RIGHT MARK = ISO/IEC 9995-7 symbol 85, IEC 60417 symbol 6078 $\rightarrow$ 200E left-to-right mark
٦	U+243D	SYMBOL FOR RIGHT-TO-LEFT MARK = ISO/IEC 9995-7 symbol 86, IEC 60417 symbol 6078 $\rightarrow$ 200F right-to-left mark

#### Block: Miscellaneous Symbols and Arrows

#### Keyboard symbols from ISO/IEC 9995-10:2013

 U+2B74	<ul> <li>WHITE HORIZONTAL NARROW RECTANGLE</li> <li>= ISO/IEC 9995-10 symbol 44, IEC 60417 symbol 6140</li> <li>= dead key base mark</li> <li>has the width of an em dash</li> </ul>
U+2B75	<ul> <li>WHITE VERTICAL NARROW RECTANGLE</li> <li>= ISO/IEC 9995-10 symbol 45, IEC 60417 symbol 6141</li> <li>= cap height marker</li> <li>identifies modifier letters on keytops</li> <li>has the height of a capital Latin letter</li> </ul>

## Keyboard symbols from ISO/IEC 9995-10:2013

	U+2B96	DOTTED UPPER HALF CIRCLE = ISO/IEC 9995-10 symbol 42, IEC 60417 symbol 6138 $\rightarrow$ 25CC dotted circle
$\sim$	U+2B97	DOTTED LOWER HALF CIRCLE = ISO/IEC 9995-10 symbol 43, IEC 60417 symbol 6139

#### Keyboard symbol from ISO/IEC 9995-7

	LI+2BC9	
~	012000	= ISO/IEC 9995-7 symbol 89, IEC 60417 symbol 6089

#### Block: Enclosed Alphanumeric Supplement

#### Keyboard symbols from ISO/IEC 9995-7

Fn	U+1F1AD	SQUARED FN = ISO/IEC 9995-7 symbol 97, IEC 60417 symbol 6081 = function key
09	U+1F1AE	SANS-SERIF CAPITAL U ENCLOSING ZERO-NINE = ISO/IEC 9995-7 symbol 103, IEC 60417 symbol 6085-1 = switch to decimal Unicode mode
OF	U+1F1AF	SANS-SERIF CAPITAL U ENCLOSING ZERO-F = ISO/IEC 9995-7 symbol 104, IEC 60417 symbol 6085-2 = switch to hexadecimal Unicode mode

#### **Block: Supplemental Arrows-C**

#### Keyboard symbols from ISO/IEC 9995-7

[◀	U+1F8B0	LEFTWARDS TRIANGLE-HEADED ARROW FROM BAR TO BRACKET = ISO/IEC 9995-7 symbol 52, ISO 7000 symbol 2042 = set margin left
⊢ <b>∍</b> ] BRACI	U+1F8B1 KET	RIGHTWARDS TRIANGLE-HEADED ARROW FROM BAR TO
		<ul><li>ISO/IEC 9995-7 symbol 53, ISO 7000 symbol 2042</li><li>set margin right</li></ul>
<b>€</b> [-	U+1F8B2	LEFTWARDS TRIANGLE-HEADED ARROW THROUGH LEFT BRACKET = ISO/IEC 9995-7 symbol 54, ISO 7000 symbol 2044 = release margin left
-]►	U+1F8B3	RIGHTWARDS TRIANGLE-HEADED ARROW THROUGH RIGHT BRACKET

		<ul> <li>ISO/IEC 9995-7 symbol 55, ISO 7000 symbol 2044</li> <li>release margin right</li> </ul>
	U+1F8B4	LEFTWARDS WHITE DOUBLE ARROW $\rightarrow$ U+21EE upwards white double arrow
<b>-{}</b> >	U+1F8B5	PAIR OF BRACKETS WITH OUTWARDS TRIANGLE-HEADED ARROWS = ISO/IEC 9995-7 symbol 56, ISO 7000 symbol 2045 = release margin right and left
	U+1F8B6	RIGHTWARDS WHITE DOUBLE ARROW = ISO/IEC 9995-7 symbol 102, IEC 60417 symbol 6084 = special group 2 select
₽	U+1F8B7	DOWNWARDS WHITE DOUBLE ARROW
┫	U+1F8B8	LEFTWARDS TRIANGLE-HEADED ARROW FROM BAR TO BAR = ISO/IEC 9995-7 symbol 47, ISO 7000 symbol 253 = backspace
1	U+1F8B9	UPWARDS TRIANGLE-HEADED ARROW FROM BAR TO BAR = ISO/IEC 9995-7 symbol 45, ISO 7000 symbol 253 = line up
⊢►	U+1F8BA	RIGHTWARDS TRIANGLE-HEADED ARROW FROM BAR TO BAR
Ŧ	U+1F8BB	DOWNWARDS TRIANGLE-HEADED ARROW FROM BAR TO BAR = ISO/IEC 9995-7 symbol 46, ISO 7000 symbol 253 = line down
₩	U+1F8BC	LEFTWARDS SHORT TRIANGLE-HEADED ARROW FROM LONG BAR TO SHORT AND LONG BAR = ISO/IEC 9995-7 symbol 50, ISO 7000 symbol 2038 = partial space left
Ŧ	U+1F8BD	UPWARDS SHORT TRIANGLE-HEADED ARROW FROM LONG BAR TO SHORT AND LONG BAR = ISO/IEC 9995-7 symbol 48, ISO 7000 symbol 2038 = partial line up
₩	U+1F8BE	RIGHTWARDS SHORT TRIANGLE-HEADED ARROW FROM LONG BAR TO SHORT AND LONG BAR = ISO/IEC 9995-7 symbol 51, ISO 7000 symbol 2038 = partial space right
Ŧ	U+1F8BF	DOWNWARDS SHORT TRIANGLE-HEADED ARROW FROM LONG BAR TO SHORT AND LONG BAR = ISO/IEC 9995-7 symbol 49, ISO 7000 symbol 2038 = partial line down

## New Block: Miscellaneous Technical Supplement (1FA80–1FAFF)

#### Keyboard symbols from ISO/IEC 9995-7

<b>—</b>	U+1FA80	HORIZONTAL STROKE APPLICATOR SYMBOL = ISO/IEC 9995-7 symbol 87, IEC 60417 symbol 6079-1 $\rightarrow$ 2B75 white vertical narrow rectangle
	U+1FA81	DIAGONAL SLASH APPLICATOR SYMBOL = ISO/IEC 9995-7 symbol 88, IEC 60417 symbol 6079-2
+	U+1FA82	OVERLAID TILDE APPLICATOR SYMBOL = ISO/IEC 9995-7 symbol 89, IEC 60417 symbol 6079-3
l,	U+1FA83	HOOK BELOW APPLICATOR SYMBOL = ISO/IEC 9995-7 symbol 90, IEC 60417 symbol 6079-4
ľ	U+1FA84	HOOK ABOVE APPLICATOR SYMBOL = ISO/IEC 9995-7 symbol 91, IEC 60417 symbol 6079-5
Ŗ	U+1FA85	HOOK APPLICATOR SYMBOL = ISO/IEC 9995-7 symbol 92, IEC 60417 symbol 6079-6
ŧ	U+1FA86	SUPERSCRIPT APPLICATOR SYMBOL = ISO/IEC 9995-7 symbol 93, IEC 60417 symbol 6079-7 $\rightarrow$ 2B74 white horizontal narrow rectangle
ŧ	U+1FA87	SUBSCRIPT APPLICATOR SYMBOL = ISO/IEC 9995-7 symbol 94, IEC 60417 symbol 6079-7
ŧ	U+1FA88	SUPERSCRIPT AND SUBSCRIPT APPLICATOR SYMBOL = ISO/IEC 9995-7 symbol 95, IEC 60417 symbol 6079-8
	U+1FA89	PARTIAL BACKWARD DELETE = ISO/IEC 9995-7 symbol 96, IEC 60417 symbol 6080 $\rightarrow$ 232B erase to the left
<u>X</u>	U+1FA8A	SPACE SELECT SYMBOL = ISO/IEC 9995-7 symbol 74, IEC 60417 symbol 6072-13 $\rightarrow$ 2423 open box
Η̈́	U+1FA8B	<ul> <li>WHITE SQUARE WITH RAYS</li> <li>= ISO/IEC 9995-7 symbol 100, IEC 60417 symbol 6082</li> <li>= square sun</li> <li>= superselect</li> <li>→ 25A1 white square</li> <li>→ 263C white sun with rays</li> <li>• selects a special keyboard state where the next key selects the subsequent state</li> </ul>
Æ	U+1FA8C	VERTICAL HALF WHITE SQUARE WITH RIGHT RAYS = ISO/IEC 9995-7 symbol 101, IEC 60417 symbol 6083 = secondary superselect

## Keyboard symbols from ISO/IEC 9995-10:2013

"	U+1FA90	SYMBOL FOR HYPHEN = ISO/IEC 9995-10 symbol 1, IEC 60417 symbol 6097 $\rightarrow$ 2010 hyphen
·	U+1FA91	SYMBOL FOR HYPHENATION POINT = ISO/IEC 9995-10 symbol 2, IEC 60417 symbol 6099 $\rightarrow$ 2027 hyphenation point
<u>   1                                 </u>	U+1FA92	SYMBOL FOR FIGURE DASH = ISO/IEC 9995-10 symbol 3, IEC 60417 symbol 6100 $\rightarrow$ 2013 figure dash
	U+1FA93	SYMBOL FOR EN DASH = ISO/IEC 9995-10 symbol 4, IEC 60417 symbol 6101 $\rightarrow$ 2013 en dash
	U+1FA94	SYMBOL FOR EM DASH = ISO/IEC 9995-10 symbol 5, IEC 60417 symbol 6102 $\rightarrow$ 2014 em dash
<u> </u>	U+1FA95	SYMBOL FOR TWO-EM DASH = ISO/IEC 9995-10 symbol 6, IEC 60417 symbol 6103 $\rightarrow$ 23EA two-em dash
<u> </u>	U+1FA96	SYMBOL FOR THREE-EM DASH = ISO/IEC 9995-10 symbol 7, IEC 60417 symbol 6104 $\rightarrow$ 23EB three-em dash
	U+1FA97	SYMBOL FOR HORIZONTAL BAR = ISO/IEC 9995-10 symbol 8, IEC 60417 symbol 6105 $\rightarrow$ 6105 horizontal bar
-=-	U+1FA98	SYMBOL FOR MINUS SIGN = ISO/IEC 9995-10 symbol 9, IEC 60417 symbol 6106 $\rightarrow$ 2212 minus sign
I	U+1FA99	SYMBOL FOR MACRON = ISO/IEC 9995-10 symbol 10, IEC 60417 symbol 6107 $\rightarrow$ 00AF macron
11	U+1FA9A	SYMBOL FOR OVERLINE = ISO/IEC 9995-10 symbol 11, IEC 60417 symbol 6108 $\rightarrow$ 203E overline
<u> </u>	U+1FA9B	SYMBOL FOR LOW LINE = ISO/IEC 9995-10 symbol 12, IEC 60417 symbol 6109 $\rightarrow$ 005F low line

<del>  </del>	U+1FA9C	SYMBOL FOR DOUBLE HYPHEN = ISO/IEC 9995-10 symbol 13, IEC 60417 symbol 6098 $\rightarrow$ 2E40 double hyphen
~=	U+1FA9D	SYMBOL FOR SWUNG DASH = ISO/IEC 9995-10 symbol 14, IEC 60417 symbol 6110 $\rightarrow$ 2053 swung dash
~	U+1FA9E	SYMBOL FOR TILDE OPERATOR = ISO/IEC 9995-10 symbol 15, IEC 60417 symbol 6111 $\rightarrow$ 223C tilde operator
*	U+1FA9F	SYMBOL FOR LARGE ASTERISK = ISO/IEC 9995-10 symbol 16, IEC 60417 symbol 6112
<b> •</b>	U+1FAA0	SYMBOL FOR MIDDLE DOT = ISO/IEC 9995-10 symbol 17, IEC 60417 symbol 6113 $\rightarrow$ 00B7 middle dot
<b> </b> ●	U+1FAA1	SYMBOL FOR BULLET = ISO/IEC 9995-10 symbol 18, IEC 60417 symbol 6114 $\rightarrow$ 2022 bullet
ć	U+1FAA2	SYMBOL FOR LEFT SINGLE QUOTATION MARK = ISO/IEC 9995-10 symbol 19, IEC 60417 symbol 6115 $\rightarrow$ 2018 left single quotation mark
2	U+1FAA3	SYMBOL FOR RIGHT SINGLE QUOTATION MARK = ISO/IEC 9995-10 symbol 20, IEC 60417 symbol 6116 $\rightarrow$ 2019 right single quotation mark
<b>?</b> .	U+1FAA4	SYMBOL FOR COMMA-SHAPED APOSTROPHE = ISO/IEC 9995-10 symbol 21, IEC 60417 symbol 6117 $\rightarrow$ 2019 right single quotation mark
?	U+1FAA5	SYMBOL FOR SINGLE LOW-9 QUOTATION MARK = ISO/IEC 9995-10 symbol 22, IEC 60417 symbol 6118 $\rightarrow$ 201A single low-9 quotation mark
"	U+1FAA6	SYMBOL FOR LEFT DOUBLE QUOTATION MARK = ISO/IEC 9995-10 symbol 23, IEC 60417 symbol 6119 $\rightarrow$ 201C left double quotation mark
22	U+1FAA7	SYMBOL FOR RIGHT DOUBLE QUOTATION MARK = ISO/IEC 9995-10 symbol 24, IEC 60417 symbol 6120 $\rightarrow$ 201D right double quotation mark

<del>)</del> )	U+1FAA8	SYMBOL FOR DOUBLE LOW-9 QUOTATION MARK = ISO/IEC 9995-10 symbol 25, IEC 60417 symbol 6121 → 201E double low-9 quotation mark
*	U+1FAA9	SYMBOL FOR SINGLE LEFT-POINTING ANGLE QUOTATION MARK = ISO/IEC 9995-10 symbol 26, IEC 60417 symbol 6122 → 2039 single left-pointing angle quotation mark
<b>&gt;•</b>	U+1FAAA	SYMBOL FOR SINGLE RIGHT-POINTING ANGLE QUOTATION MARK = ISO/IEC 9995-10 symbol 27, IEC 60417 symbol 6123 $\rightarrow$ 203A single right-pointing angle quotation mark
•	U+1FAAB	SYMBOL FOR DOUBLE LEFT-POINTING ANGLE QUOTATION MARK = ISO/IEC 9995-10 symbol 28, IEC 60417 symbol 6124 $\rightarrow$ 00AB double left-pointing angle quotation mark
»»•	U+1FAAC	SYMBOL FOR DOUBLE RIGHT-POINTING ANGLE QUOTATION MARK = ISO/IEC 9995-10 symbol 29, IEC 60417 symbol 6125 $\rightarrow$ 00BB double right-pointing angle quotation mark
Ķ	U+1FAAD	SYMBOL FOR LEFT ANGLE BRACKET = ISO/IEC 9995-10 symbol 30, IEC 60417 symbol 6126 $\rightarrow$ 27E8 mathematical left angle bracket
λ	U+1FAAE	SYMBOL FOR RIGHT ANGLE BRACKET = ISO/IEC 9995-10 symbol 31, IEC 60417 symbol 6127 $\rightarrow$ 27E9 mathematical right angle bracket
<u> </u>	U+1FAAF	SYMBOL FOR DOUBLE LEFT ANGLE BRACKET = ISO/IEC 9995-10 symbol 32, IEC 60417 symbol 6128 $\rightarrow$ 27EA mathematical double left angle bracket
»»,	U+1FAB0	SYMBOL FOR DOUBLE RIGHT ANGLE BRACKET = ISO/IEC 9995-10 symbol 33, IEC 60417 symbol 6129 $\rightarrow$ 27EB mathematical double right angle bracket
<b>'</b>	U+1FAB1	SYMBOL FOR PRIME = ISO/IEC 9995-10 symbol 34, IEC 60417 symbol 6130 $\rightarrow$ 2032 prime
·//	U+1FAB2	SYMBOL FOR DOUBLE PRIME = ISO/IEC 9995-10 symbol 35, IEC 60417 symbol 6131 $\rightarrow$ 2033 double prime
•\	U+1FAB3	SYMBOL FOR REVERSED PRIME = ISO/IEC 9995-10 symbol 36, IEC 60417 symbol 6132 $\rightarrow$ 2035 reversed prime

.//	U+1FAB4	SYMBOL FOR REVERSED DOUBLE PRIME = ISO/IEC 9995-10 symbol 37, IEC 60417 symbol 6133 $\rightarrow$ 2036 reversed double prime
.//.	U+1FAB5	SYMBOL FOR DITTO MARK = ISO/IEC 9995-10 symbol 38, IEC 60417 symbol 6134 $\rightarrow$ 3033 ditto mark
*/	U+1FAB6	SYMBOL FOR FRACTION SLASH = ISO/IEC 9995-10 symbol 39, IEC 60417 symbol 6135 $\rightarrow$ 2044 fraction slash
<b>%</b>	U+1FAB7	SYMBOL FOR DIVISION SLASH = ISO/IEC 9995-10 symbol 40, IEC 60417 symbol 6136 $\rightarrow$ 2215 division slash
Ŧ	U+1FAB8	<ul> <li>SYMBOL FOR COMBINING TILDE OVERLAY</li> <li>= ISO/IEC 9995-10 symbol 46, IEC 60417 symbol 6142</li> <li>→ 0334 combining tilde overlay</li> <li>→ 2B75 white vertical narrow rectangle</li> </ul>
₽	U+1FAB9	SYMBOL FOR COMBINING SHORT STROKE OVERLAY = ISO/IEC 9995-10 symbol 47, IEC 60417 symbol 6143 $\rightarrow$ 0335 combining short stroke overlay
	U+1FABA	SYMBOL FOR COMBINING LONG STROKE OVERLAY = ISO/IEC 9995-10 symbol 48, IEC 60417 symbol 6144 $\rightarrow$ 0336 combining long stroke overlay
ł	U+1FABB	SYMBOL FOR COMBINING SHORT SOLIDUS OVERLAY = ISO/IEC 9995-10 symbol 49, IEC 60417 symbol 6145 $\rightarrow$ 0337 combining short solidus overlay
X	U+1FABC	SYMBOL FOR COMBINING LONG SOLIDUS OVERLAY = ISO/IEC 9995-10 symbol 50, IEC 60417 symbol 6146 $\rightarrow$ 0338 combining long solidus overlay

#### **Properties:**

20F2;COMBINING ENCLOSING RIGHTWARDS WHITE SHORT ARROW;Me;0;NSM;;;;;N;;;; 20F3;COMBINING ENCLOSING DOUBLE SQUARE WITH ROUNDED CORNERS;Me;0;NSM;;;;;N;;;; 2427;SYMBOL FOR EN SPACE;So;0;ON;;;;;N;;;;; 2428;SYMBOL FOR EM SPACE;So;0;ON;;;;;N;;;;; 2429;SYMBOL FOR THREE-PER-EM SPACE;So;0;ON;;;;;N;;;;; 242A;SYMBOL FOR FOUR-PER-EM SPACE;So;0;ON;;;;;N;;;;; 242B;SYMBOL FOR SIX-PER-EM SPACE;So;0;ON;;;;;N;;;;; 242C;SYMBOL FOR FIGURE SPACE;So;0;ON;;;;;N;;;;; 242D;SYMBOL FOR PUNCTUATION SPACE;So;0;ON;;;;;N;;;;; 242E;SYMBOL FOR THIN OR NARROW SPACE;So;0;ON;;;;;N;;;;; 242F;SYMBOL FOR HAIR SPACE;So;0;ON;;;;;N;;;;; 2430;SYMBOL FOR ZERO WIDTH SPACE;So;0;ON;;;;;N;;;;; 2431;SYMBOL FOR MEDIUM MATHEMATICAL SPACE;So;0;ON;;;;;N;;;;; 2432;SYMBOL FOR NARROW NO-BREAK SPACE;So;0;ON;;;;;N;;;;; 2433;SYMBOL FOR SOFT HYPHEN;So;0;ON;;;;;N;;;;; 2434;SYMBOL FOR NON-BREAKING HYPHEN;So;0;ON;;;;;N;;;;; 2435;SYMBOL FOR NON-STOPPING PERIOD;So;0;ON;;;;;N;;;;; 2436;SYMBOL FOR LINE SEPARATOR;So;0;ON;;;;;N;;;;; 2437;SYMBOL FOR PARAGRAPH SEPARATOR;So;0;ON;;;;;N;;;;; 2438;SYMBOL FOR ZERO WIDTH NON-JOINER;So;0;ON;;;;;N;;;;; 2439;SYMBOL FOR ZERO WITDH JOINER;So;0;ON;;;;;N;;;;; 243A;SYMBOL FOR WORD JOINER;So;0;ON;;;;;N;;;;; 243B;SYMBOL FOR COMBINING GRAPHEME JOINER;So;0;ON;;;;;N;;;;; 243C;SYMBOL FOR LEFT-TO-RIGHT MARK;So;0;ON;;;;;N;;;;; 243D;SYMBOL FOR RIGHT-TO-LEFT MARK;So;0;ON;;;;;N;;;;; 2B74;WHITE HORIZONTAL NARROW RECTANGLE;So;0;ON;;;;;N;;;;; 2B75;WHITE VERTICAL NARROW RECTANGLE;So;0;ON;;;;;N;;;;; 2B96;DOTTED UPPER HALF CIRCLE;So;0;ON;;;;;N;;;;; 2B97;DOTTED LOWER HALF CIRCLE;So;0;ON;;;;;N;;;;; 2BC9;MENU INVOCATION;So;0;ON;;;;;N;;;;; 1F1AD;SQUARED FN;So;0;ON;;;;;N;;;;; 1F1AE; SANS-SERIF CAPITAL U ENCLOSING ZERO-NINE; So; 0; ON; ;; ;; N; ;; ;; 1F1AF; SANS-SERIF CAPITAL U ENCLOSING ZERO-F; So; 0; ON; ;; ;; N; ;; ;; 1F8B0;LEFTWARDS TRIANGLE-HEADED ARROW FROM BAR TO BRACKET;So;0;ON;;;;;N;;;; 1F8B1;RIGHTWARDS TRIANGLE-HEADED ARROW FROM BAR TO BRACKET;So;0;ON;;;;;;N;;;; 1F8B2;LEFTWARDS TRIANGLE-HEADED ARROW THROUGH LEFT BRACKET;So;0;ON;;;;;;N;;;; 1F8B3;RIGHTWARDS TRIANGLE-HEADED ARROW THROUGH RIGHT BRACKET;So;0;ON;;;;;N;;;;; 1F8B4;LEFTWARDS WHITE DOUBLE ARROW;So;0;ON;;;;;N;;;;; 1F8B6;RIGHTWARDS WHITE DOUBLE ARROW;So;0;ON;;;;;N;;;;; 1F8B7;DOWNWARDS WHITE DOUBLE ARROW;So;0;ON;;;;;N;;;;; 1F8B8;LEFTWARDS TRIANGLE-HEADED ARROW FROM BAR TO BAR;So;0;ON;;;;;N;;;; 1F8BA;RIGHTWARDS TRIANGLE-HEADED ARROW FROM BAR TO BAR;So;0;ON;;;;;N;;;; 1F8BB;DOWNWARDS TRIANGLE-HEADED ARROW FROM BAR TO BAR;So;0;ON;;;;;N;;;;; 1F8BC;LEFTWARDS SHORT TRIANGLE-HEADED ARROW FROM LONG BAR TO SHORT AND LONG BAR;So;0;ON;;;;;N;;;; 1F8BD; UPWARDS SHORT TRIANGLE-HEADED ARROW FROM LONG BAR TO SHORT AND LONG BAR; So; 0; ON; ;; ;; N; ;; ;; 1F8BE;RIGHTWARDS SHORT TRIANGLE-HEADED ARROW FROM LONG BAR TO SHORT AND LONG BAR;So;0;ON;;;;;N;;;; 1F8BF; DOWNWARDS SHORT TRIANGLE-HEADED ARROW FROM LONG BAR TO SHORT AND LONG BAR; So; 0; ON; ;; ;; N; ;; ;; 1FA80;HORIZONTAL STROKE APPLICATOR SYMBOL;So;0;ON;;;;;N;;;;; 1FA81;DIAGONAL SLASH APPLICATOR SYMBOL;So;0;ON;;;;;N;;;;; 1FA82;OVERLAID TILDE APPLICATOR SYMBOL;So;0;ON;;;;;N;;;;; 1FA83;HOOK BELOW APPLICATOR SYMBOL;So;0;ON;;;;;N;;;;; 1FA84;HOOK ABOVE APPLICATOR SYMBOL;So;0;ON;;;;;N;;;;; 1FA85;HOOK APPLICATOR SYMBOL;So;0;ON;;;;;N;;;;; 1FA86;SUPERSCRIPT APPLICATOR SYMBOL;So;0;ON;;;;;N;;;;; 1FA87;SUBSCRIPT APPLICATOR SYMBOL;So;0;ON;;;;;N;;;;; 1FA88;SUPERSCRIPT AND SUBSCRIPT APPLICATOR SYMBOL;So;0;ON;;;;;N;;;; 1FA89; PARTIAL BACKWARD DELETE; So; 0; ON; ;; ;; N; ;; ;;

1FA8A; SPACE SELECT SYMBOL; So; 0; ON; ;; ;; ;N; ;; ;; 1FA8B;WHITE SQUARE WITH RAYS;So;0;ON;;;;;N;;;;; 1FA90;SYMBOL FOR HYPHEN;So;0;ON;;;;;N;;;;; 1FA91;SYMBOL FOR HYPHENATION POINT;So;0;ON;;;;;N;;;;; 1FA92;SYMBOL FOR FIGURE DASH;So;0;ON;;;;;N;;;;; 1FA93;SYMBOL FOR EN DASH;So;0;ON;;;;;N;;;;; 1FA94;SYMBOL FOR EM DASH;So;0;ON;;;;;N;;;;; 1FA95;SYMBOL FOR TWO-EM DASH;So;0;ON;;;;;N;;;;; 1FA96;SYMBOL FOR THREE-EM DASH;So;0;ON;;;;;N;;;;; 1FA97;SYMBOL FOR HORIZONTAL BAR;So;0;ON;;;;;N;;;;; 1FA98;SYMBOL FOR MINUS SIGN;So;0;ON;;;;;N;;;;; 1FA99;SYMBOL FOR MACRON;So;0;ON;;;;;N;;;;; 1FA9A; SYMBOL FOR OVERLINE; So; 0; ON; ;; ;; ;N; ;; ;; 1FA9B; SYMBOL FOR LOW LINE; So; 0; ON; ;; ;; ;; N; ;; ;; 1FA9C;SYMBOL FOR DOUBLE HYPHEN;So;0;ON;;;;;N;;;;; 1FA9D;SYMBOL FOR SWUNG DASH;So;0;ON;;;;;N;;;;; 1FA9E;SYMBOL FOR TILDE OPERATOR;So;0;ON;;;;;N;;;;; 1FA9F;SYMBOL FOR LARGE ASTERISK;So;0;ON;;;;;N;;;;; 1FAA0;SYMBOL FOR MIDDLE DOT;So;0;ON;;;;;N;;;;; 1FAA1;SYMBOL FOR BULLET;So;0;ON;;;;;N;;;;; 1FAA3;SYMBOL FOR RIGHT SINGLE QUOTATION MARK;So;0;ON;;;;;N;;;; 1FAA4;SYMBOL FOR COMMA-SHAPED APOSTROPHE;So;0;ON;;;;;N;;;;; 1FAA5;SYMBOL FOR SINGLE LOW-9 QUOTATION MARK;So;0;ON;;;;;N;;;; 1FAA6;SYMBOL FOR LEFT DOUBLE QUOTATION MARK;So;0;ON;;;;;N;;;;; 1FAA7;SYMBOL FOR RIGHT DOUBLE QUOTATION MARK;So;0;ON;;;;;N;;;;; 1FAA8;SYMBOL FOR DOUBLE LOW-9 QUOTATION MARK;So;0;ON;;;;;N;;;;; 1FAA9;SYMBOL FOR SINGLE LEFT-POINTING ANGLE QUOTATION MARK;So;0;ON;;;;;N;;;; 1FAAA; SYMBOL FOR SINGLE RIGHT-POINTING ANGLE QUOTATION MARK; So;0;ON;;;;;N;;;; 1FAAC; SYMBOL FOR DOUBLE RIGHT-POINTING ANGLE QUOTATION MARK; So; 0; ON; ;; ;; N; ;; ;; 1FAAE; SYMBOL FOR RIGHT ANGLE BRACKET; So; 0; ON; ;; ;; ;N; ;; ;; 1FAAF;SYMBOL FOR DOUBLE LEFT ANGLE BRACKET;So;0;ON;;;;;N;;;;; 1FAB0;SYMBOL FOR DOUBLE RIGHT ANGLE BRACKET;So;0;ON;;;;;N;;;;; 1FAB1;SYMBOL FOR PRIME;So;0;ON;;;;;N;;;;; 1FAB2;SYMBOL FOR DOUBLE PRIME;So;0;ON;;;;;N;;;;; 1FAB3;SYMBOL FOR REVERSED PRIME;So;0;ON;;;;;N;;;;; 1FAB5;SYMBOL FOR DITTO MARK;So;0;ON;;;;;N;;;;; 1FAB6;SYMBOL FOR FRACTION SLASH;So;0;ON;;;;;N;;;;; 1FAB7;SYMBOL FOR DIVISION SLASH;So;0;ON;;;;;N;;;;; 1FAB8;SYMBOL FOR COMBINING TILDE OVERLAY;So;0;ON;;;;;N;;;;; 1FAB9;SYMBOL FOR COMBINING SHORT STROKE OVERLAY;So;0;ON;;;;;N;;;;; 1FABA; SYMBOL FOR COMBINING LONG STROKE OVERLAY; So;0;ON;;;;;N;;;;; 1FABB;SYMBOL FOR COMBINING SHORT SOLIDUS OVERLAY;So;0;ON;;;;;N;;;;; 1FABC; SYMBOL FOR COMBINING LONG SOLIDUS OVERLAY; So; 0; ON; ;; ;; ;N; ;; ;;

## 4. Named Sequences (composed of already encoded characters)

#### Keyboard symbols from ISO/IEC 9995-7

	U+21F3 U+20E2	KEYBOARD SYMBOL SCROLLING = ISO/IEC 9995-7 symbol 20, ISO 7000 symbol 2025
i	U+2139 U+20E2	KEYBOARD SYMBOL HELP = ISO/IEC 9995-7 symbol 21, ISO 7000 symbol 2026

## 5. Annotations to be changed for existing characters

#### **Block: Arrows**

μ	U+21B5 <i>ADD:</i>	DOWNWARDS ARROW WITH CORNER LEFTWARDS → 2BA0 DOWNWARDS TRIANGLE-HEADED ARROW WITH LONG TIP LEFTWARDS
Û	U+21E9 <i>ADD:</i> <i>ADD</i> :	<ul><li>DOWNWARDS WHITE ARROW</li><li>caps (capitals) lock (on some keyboards)</li><li>ISO/IEC 9995-7 uses U+21EC for capitals lock</li></ul>
<b></b>	U+21EA Delete ADD: ADD:	UPWARDS WHITE ARROW FROM BAR e:= caps lock • caps (capitals) lock (on some keyboards) • ISO/IEC 9995-7 uses U+21EC for capitals lock
谷	U+21EE ADD:	UPWARDS WHITE DOUBLE ARROW = level 3 select → 1F8B4 leftwards white double arrow
ŶĴ	U+23CE ADD:	<b>RETURN SYMBOL</b> $\rightarrow$ <b>2BA0</b> DOWNWARDS TRIANGLE-HEADED ARROW WITH LONG TIP LEFTWARDS

#### Block: Geometric Shapes

○ U+25CC DOTTED CIRCLE

(ADD:) = ISO/IEC 9995-10 symbol 41, IEC 60417 symbol 6137

- ADD:  $\rightarrow$  2B96 dotted upper half circle
- ADD: when used as a keyboard symbol together with a diacritical mark, it denotes that the diacritical mark is to be input after the base character

### Block: Miscellaneous Symbols and Arrows

- U+2BA0 DOWNWARDS TRIANGLE-HEADED ARROW WITH LONG TIP LEFTWARDS
  - (ADD:) = ISO/IEC 9995-10 symbol 23, ISO 7000 symbol 651 = return (new line) (ISO/IEC 9995-7)
  - ADD:  $\rightarrow$  21B2 downwards arrow with tip leftwards
  - ADD:  $\rightarrow$  21B2 downwards arrow with tip lettwards ADD:  $\rightarrow$  21B5 downwards arrow with corner leftwards
  - ADD:  $\rightarrow$  23CE return symbol

## 6. Appendix: Mapping of ISO/IEC 9995-7 and 9995-10 symbols into Unicode

Unprefixed numbers from 1 to 62 refer to ISO/IEC 9995-7:2009. Unprefixed numbers from 63 to 107 refer to ISO/IEC 9995-7:2009 Amendment 1. Number prefixed with "&" refer to ISO/IEC 9995-10\_2013. "\*" marks a character proposed in this document. "+" marks a named sequence proposed in this document.

21E7 # UPWARDS WHITE ARROW 1; 21EB # UPWARDS WHITE ARROW ON PEDESTAL 2; 21EC # UPWARDS WHITE ARROW ON PEDESTAL WITH HORIZONTAL BAR 3; 21ED # UPWARDS WHITE ARROW ON PEDESTAL WITH VERTICAL BAR 4 : 5; 21EE # UPWARDS WHITE DOUBLE ARROW 6; 21EF # UPWARDS WHITE DOUBLE ARROW ON PEDESTAL 7; 21E8 # RIGHTWARDS WHITE ARROW 8; 21F0 # RIGHTWARDS WHITE ARROW FROM WALL 9; 2423 # OPEN BOX 10; 237D # SHOULDERED OPEN BOX 2380 # INSERTION SYMBOL 11 ; 12; 2381 # CONTINUOUS UNDERLINE SYMBOL 13 ; 2382 # DISCONTINUOUS UNDERLINE SYMBOL 14 ; 2383 # EMPHASIS SYMBOL 15; 2384 # COMPOSITION SYMBOL 16 ; 2385 # WHITE SQUARE WITH CENTRE VERTICAL LINE 17; 232B # ERASE TO THE LEFT 18 ; 2425 # SYMBOL FOR DELETE FORM TWO 19; 239A # CLEAR SCREEN SYMBOL 20 ; + 21F3 20E2 # KEYBOARD SYMBOL SCROLLING 21 ; + 2139 20E2 # KEYBOARD SYMBOL HELP 22 ; 2399 # PRINT SCREEN SYMBOL 23; 2BA0 # DOWNWARDS TRIANGLE-HEADED ARROW WITH LONG TIP LEFTWARDS 24 ; 2386 # ENTER SYMBOL 25 ; 2387 # ALTERNATIVE KEY SYMBOL 2388 # HELM SYMBOL 26; 27; 2389 # CIRCLED HORIZONTAL BAR WITH NOTCH 28; 238A # CIRCLED TRIANGLE DOWN 29; 238B # BROKEN CIRCLE WITH NORTHWEST ARROW 30; 238C # UNDO SYMBOL 31; 2B61 # UPWARDS TRIANGLE-HEADED ARROW 32; 2B63 # DOWNWARDS TRIANGLE-HEADED ARROW 33; 2B60 # LEFTWARDS TRIANGLE-HEADED ARROW 34 ; 2B62 # RIGHTWARDS TRIANGLE-HEADED ARROW 35; 2BED # UPWARDS TWO-HEADED ARROW WITH TRIANGLE ARROWHEADS 36 ; 2BEF # DOWNWARDS TWO-HEADED ARROW WITH TRIANGLE ARROWHEADS 37; 2BEC # LEFTWARDS TWO-HEADED ARROW WITH TRIANGLE ARROWHEADS 2BEE # RIGHTWARDS TWO-HEADED ARROW WITH TRIANGLE ARROWHEADS 38; 21F1 # NORTH WEST ARROW TO CORNER 39; 40; 21F2 # SOUTH EAST ARROW TO CORNER 41; 2397 # PREVIOUS PAGE 42; 2398 # NEXT PAGE 43; 2B70 # LEFTWARDS TRIANGLE-HEADED ARROW TO BAR 44; 2B72 # RIGHTWARDS TRIANGLE-HEADED ARROW TO BAR 45 ; \* 1F8B9 # UPWARDS TRIANGLE-HEADED ARROW FROM BAR TO BAR 46 ; \* 1F8BB # DOWNWARDS TRIANGLE-HEADED ARROW FROM BAR TO BAR 47 ; \* 1F8B8 # LEFTWARDS TRIANGLE-HEADED ARROW FROM BAR TO BAR 48 ; \* 1F8BD # UPWARDS SHORT TRIANGLE-HEADED ARROW FROM LONG BAR TO SHORT AND LONG BAR

49 ; \* 1F8BF # DOWNWARDS SHORT TRIANGLE-HEADED ARROW FROM LONG BAR TO SHORT AND LONG BAR 50 ; \* 1F8BC # LEFTWARDS SHORT TRIANGLE-HEADED ARROW FROM LONG BAR TO SHORT AND LONG BAR 51 ; \* 1F8BE # RIGHTWARDS SHORT TRIANGLE-HEADED ARROW FROM LONG BAR TO SHORT AND LONG BAR 52 ; \* 1F8B0 # LEFTWARDS TRIANGLE-HEADED ARROW FROM BAR TO BRACKET 53 ; \* 1F8B1 # RIGHTWARDS TRIANGLE-HEADED ARROW FROM BAR TO BRACKET 54 ; \* 1F8B2 # LEFTWARDS TRIANGLE-HEADED ARROW THROUGH LEFT BRACKET 55 ; \* 1F8B3 # RIGHTWARDS TRIANGLE-HEADED ARROW THROUGH RIGHT BRACKET 56 ; \* 1F8B5 # PAIR OF BRACKETS WITH OUTWARDS TRIANGLE-HEADED ARROWS 57; 002B # PLUS SIGN 58; 002D # HYPHEN-MINUS 59; 00D7 # MULTIPLICATION SIGN 60; 00F7 # DIVISION SIGN 003D # EQUALS SIGN 61; 238C # DECIMAL SEPARATOR KEY SYMBOL 62; 63 ; \* 2427 # SYMBOL FOR EN SPACE 64 ; \* 2428 # SYMBOL FOR EM SPACE 65 ; \* 2429 # SYMBOL FOR THREE-PER-EM SPACE 66 ; \* 242A # SYMBOL FOR FOUR-PER-EM SPACE 67 ; \* 242B # SYMBOL FOR SIX-PER-EM SPACE 68 ; \* 242C # SYMBOL FOR FIGURE SPACE 69 ; \* 242D # SYMBOL FOR PUNCTUATION SPACE 70 ; \* 242E # SYMBOL FOR THIN OR NARROW SPACE 71 ; \* 242F # SYMBOL FOR HAIR SPACE 72 ; \* 2430 # SYMBOL FOR ZERO WIDTH SPACE 73 ; \* 2431 # SYMBOL FOR MEDIUM MATHEMATICAL SPACE 74 ; \* 2432 # SYMBOL FOR NARROW NO-BREAK SPACE 75 ; \* 1FA8A # SPACE SELECT SYMBOL 76 ; \* 2433 # SYMBOL FOR SOFT HYPHEN 77 ; \* 2434 # SYMBOL FOR NON-BREAKING HYPHEN 78 ; \* 2435 # SYMBOL FOR NON-STOPPING PERIOD 79 ; \* 2436 # SYMBOL FOR LINE SEPARATOR 80 ; \* 2437 # SYMBOL FOR PARAGRAPH SEPARATOR 81 ; \* 2438 # SYMBOL FOR ZERO WIDTH NON-JOINER 82 ; \* 2439 # SYMBOL FOR ZERO WITDH JOINER 83 ; \* 243A # SYMBOL FOR WORD JOINER 84 ; \* 243B # SYMBOL FOR COMBINING GRAPHEME JOINER 85 ; \* 243C # SYMBOL FOR LEFT-TO-RIGHT MARK 86 ; \* 243D # SYMBOL FOR RIGHT-TO-LEFT MARK 87 : \* 1FA80 # HORIZONTAL STROKE APPLICATOR SYMBOL 88 ; \* 1FA81 # DIAGONAL SLASH APPLICATOR SYMBOL 89 ; \* 1FA82 # OVERLAID TILDE APPLICATOR SYMBOL 90 ; \* 1FA83 # HOOK BELOW APPLICATOR SYMBOL 91 ; \* 1FA84 # HOOK ABOVE APPLICATOR SYMBOL 92 ; \* 1FA85 # HOOK APPLICATOR SYMBOL 93 ; \* 1FA86 # SUPERSCRIPT APPLICATOR SYMBOL 94 ; \* 1FA87 # SUBSCRIPT APPLICATOR SYMBOL 95 ; \* 1FA88 # SUPERSCRIPT AND SUBSCRIPT APPLICATOR SYMBOL 96 ; \* 1FA89 # PARTIAL BACKWARD DELETE 97 ; \* 1F19B # SQUARED FN 98 ; \* 2BC9 # MENU INVOCATION 99; 2318 # PLACE OF INTEREST SIGN 100 ; \* 1FA8B # WHITE SQUARE WITH RAYS 101 ; \* 1FA8C # VERTICAL HALF WHITE SQUARE WITH RIGHT RAYS 102 ; \* 1F8B6 # RIGHTWARDS WHITE DOUBLE ARROW 103 ; \* 1F19E # SANS-SERIF CAPITAL U ENCLOSING ZERO-NINE 104 ; \* 1F19F # SANS-SERIF CAPITAL U ENCLOSING ZERO-F 105 ; \* 20F1 # COMBINING ENCLOSING SQUARE WITH ROUNDED CORNERS 106 ; \* 20F2 # COMBINING ENCLOSING RIGHTWARDS WHITE SHORT ARROW 107 ; \* 20F3 # COMBINING ENCLOSING DOUBLE SQUARE WITH ROUNDED CORNERS

& 1 ; \* 1FA90 # SYMBOL FOR HYPHEN & 2 ; \* 1FA91 # SYMBOL FOR HYPHENATION POINT 3 ; \* 1FA92 # SYMBOL FOR FIGURE DASH & & 4 ; \* 1FA93 # SYMBOL FOR EN DASH & 5 ; \* 1FA94 # SYMBOL FOR EM DASH 6 ; \* 1FA95 # SYMBOL FOR TWO-EM DASH & 7 ; \* 1FA96 # SYMBOL FOR THREE-EM DASH & 8 ; \* 1FA97 # SYMBOL FOR HORIZONTAL BAR & 9 ; \* 1FA98 # SYMBOL FOR MINUS SIGN & & 10 ; \* 1FA99 # SYMBOL FOR MACRON & 11 ; \* 1FA9A # SYMBOL FOR OVERLINE & 12 ; \* 1FA9B # SYMBOL FOR LOW LINE & 13 ; \* 1FA9C # SYMBOL FOR DOUBLE HYPHEN & 14 ; \* 1FA9D # SYMBOL FOR SWUNG DASH & 15 ; \* 1FA9E # SYMBOL FOR TILDE OPERATOR & 16 ; \* 1FA9F # SYMBOL FOR LARGE ASTERISK & 17 ; \* 1FAA0 # SYMBOL FOR MIDDLE DOT & 18 ; \* 1FAA1 # SYMBOL FOR BULLET & 19 ; \* 1FAA2 # SYMBOL FOR LEFT SINGLE QUOTATION MARK & 20 ; \* 1FAA3 # SYMBOL FOR RIGHT SINGLE QUOTATION MARK & 21 ; \* 1FAA4 # SYMBOL FOR COMMA-SHAPED APOSTROPHE & 22 ; \* 1FAA5 # SYMBOL FOR SINGLE LOW-9 QUOTATION MARK & 23 ; \* 1FAA6 # SYMBOL FOR LEFT DOUBLE QUOTATION MARK & 24 ; \* 1FAA7 # SYMBOL FOR RIGHT DOUBLE QUOTATION MARK & 25 ; \* 1FAA8 # SYMBOL FOR DOUBLE LOW-9 QUOTATION MARK & 26 ; \* 1FAA9 # SYMBOL FOR SINGLE LEFT-POINTING ANGLE QUOTATION MARK & 27 ; \* 1FAAA # SYMBOL FOR SINGLE RIGHT-POINTING ANGLE QUOTATION MARK & 28 ; \* 1FAAB # SYMBOL FOR DOUBLE LEFT-POINTING ANGLE QUOTATION MARK & 29 ; \* 1FAAC # SYMBOL FOR DOUBLE RIGHT-POINTING ANGLE QUOTATION MARK & 30 ; \* 1FAAD # SYMBOL FOR LEFT ANGLE BRACKET & 31 ; \* 1FAAE # SYMBOL FOR RIGHT ANGLE BRACKET & 32 ; \* 1FAAF # SYMBOL FOR DOUBLE LEFT ANGLE BRACKET & 33 ; \* 1FAB0 # SYMBOL FOR DOUBLE RIGHT ANGLE BRACKET & 34 ; \* 1FAB1 # SYMBOL FOR PRIME & 35 ; \* 1FAB2 # SYMBOL FOR DOUBLE PRIME & 36 ; \* 1FAB3 # SYMBOL FOR REVERSED PRIME & 37 ; \* 1FAB4 # SYMBOL FOR REVERSED DOUBLE PRIME & 38 ; \* 1FAB5 # SYMBOL FOR DITTO MARK & 39 ; \* 1FAB6 # SYMBOL FOR FRACTION SLASH & 40 ; \* 1FAB7 # SYMBOL FOR DIVISION SLASH & 41 ; 25CC # DOTTED CIRCLE & 42 ; \* 2B96 # DOTTED UPPER HALF CIRCLE & 43 ; \* 2B97 # DOTTED LOWER HALF CIRCLE & 44 ; \* 2B74 # WHITE HORIZONTAL NARROW RECTANGLE & 45 ; \* 2B75 # WHITE VERTICAL NARROW RECTANGLE & 46 ; \* 1FAB8 # SYMBOL FOR COMBINING TILDE OVERLAY & 47 ; \* 1FAB9 # SYMBOL FOR COMBINING SHORT STROKE OVERLAY & 48 ; \* 1FABA # SYMBOL FOR COMBINING LONG STROKE OVERLAY & 49 ; \* 1FABB # SYMBOL FOR COMBINING SHORT SOLIDUS OVERLAY & 50 ; \* 1FABC # SYMBOL FOR COMBINING LONG SOLIDUS OVERLAY

Please read Principles ad Procedures Occurrent (P & P) from thir/www.dkud.dk.iTC1/ISC2/WG2/docs/principles.html. for guidelines and details before tilling this form.           Please ensure you are using the latest from from intro. Work dk.ittC1/ISC2/WG2/docs/paramety/orm.html. See also http://www.dkud.dk.ittC1/ISC2/WG2/docs/paramety/orm.html.           A. Administrative           1. Title:         Proposal to incorporate the symbols of ISO/IEC 9995-7:2009 and its Amendment 1 and of ISO/IEC 9995-7:2009           3. Requester's name:         Iso/IEC UTC1/ISC35           3. Requester's name:         Iso/IEC UTC1/ISC35           3. Requester's reference (if applicable):         Iso/IEC UTC1/ISC35           6. Choose one of the following:         2017-02-28           5. Requester's reference (if applicable):         No           6. Choose one of the following:         No           7. Dropsed name of script:         No           8. Tos proposal is for a new script (set of characters):         No           9. The proposal is for a new script (set of characters):         No           8. The proposal is for a new script (set of characters):         No           9. Proposed name of script:         No           9. Acharacters in proposal:         108 + 2 Named Sequences           9. Proposed stategory (select one from below - see section 2.2 of P&B document);         A-Contemporant           4. Characters in proposal:         Sector	ISO/IEC JTC 1/SC 2/WG 2 PROPOSAL SUMMARY FORM TO ACCOMPANY SUBMISSIONS FOR ADDITIONS TO THE REPERTOIRE OF ISO/IEC 10646 <sup>1</sup>				
Bits         Bits <th< td=""><td>Please read Principles and Pro</td><td>cedures Document (P &amp; P) from http://ww</td><td>w.dkuug.dk/JTC1/SC2/WG2/docs/principles.html_for</td></th<>	Please read Principles and Pro	cedures Document (P & P) from http://ww	w.dkuug.dk/JTC1/SC2/WG2/docs/principles.html_for		
See also http://www.dkuug.dk/ITC1/SC2/WG2/docs/roadmaps.html. for latest Roadmaps.           A. Administrative           1. Title:         Proposal to incorporate the symbols of ISO/IEC 9995-7:2009 and its Amendment 1 and of ISO/IEC 9995-7:2009           2. Requester's name:         ISO/IEC /ITC/SC35           3. Requester's name:         ISO/IEC /ITC/SC35           4. Submission date:         2017-02-28           5. Requester's reference (if applicable):         6. Choose one of the following:           6. Choose one of the following:         Yea           7. This is a complete proposal:         Yea           8. Technical - General         Income and of script:           1. Choose one of the following:         No           a. This proposal is for a new script (set of characters):         No           Proposed name of script:         Several, including a new block "Miscellaneous Technical Supplement"           2. Number of characters in proposal:         108 + 2 Named Sequences           3. Proposed category (select one from below - see section 2.2 of P&P document);         E-Anione exiting block:           2. Are the character in ames provided?         E-Minor exiting:           3. Proposed category (select one from below - see section 2.2 of P&P document?         F-Anione exiting block:           4. Is a repertoire including character names provided?         E-Minor exiting?	Please ensure vou are us	guidelines and details before fillir sing the latest Form from http://www.dkuu	ng this form. a.dk/JTC1/SC2/WG2/docs/summarvform.html.		
A. Administrative         1. Title:       Proposal to incorporate the symbols of ISO/IEC 9995-7:2009 and its Amendment 1 and of ISO/IEC 9995-7:2009         2. Requester's name:       ISO/IEC 1701/SC35         3. Requester type (Member body/Liaison/Individual contribution):       Liaison Contribution         4. Submission date:       2017-02-28         5. Requester's reference (If applicable):       2017-02-28         6. Choose one of the following:       2017-02-28         7. This is a complete proposal:       Yes         (or) More information will be provided later:       Yes         B. Technical - General       No         1. Choose one of the following:       No         a. This proposal is for a new script (set of characters):       No         Proposed name of script:       No         Proposed name of script:       B. Sepecialized (large collection)         Characters in proposal:       108 + 2 Named Sequences         3. Proposed category (select one from below - see section 2.2 of P&P document):       A-Contemporary         A-Contemporary       X. B. 1-Specialized (small collection)       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 reperotic includin	See also <u>http:</u>	//www.dkuug.dk/JTC1/SC2/WG2/docs/road	maps.html for latest Roadmaps.		
11 Nice       Proposal is Amendment and of ISON CC 9395-1/2013 into the UCS         2. Requester's name:       ISONEC JTC1/SC36         3. Requester's reference (if applicable):       Lisison Contribution:         6. Choose one of the following:       2017-02-28         7. Requester's reference (if applicable):       Stone Contribution:         8. Requester's reference (if applicable):       Yes         6. Choose one of the following:       Yes         7. Choose one of the following:       No         8. This proposal is for a new script (set of characters):       No         Proposed name of script:       No         9. The proposal is for a new script (set of character(s) to an existing block:       Yes         Name of the existing block:       Several, including a new block 'Miscellaneous Technical Supplement'.         2. Number of characters in proposal:       108 + 2 Named Sequences         3. Proposed category (select one from below - see section 2.2 of P&P document):       A-Contemporary X         A. Is a repertoire including character names provided?       Yes         a. If YES, are the names in accordance with the "character naming guidelines"       Yes         b. Are the character shapes attached in a legible form suitable for review?       Yes         5. Fonts related:       a. Wes provide the appropriate computerized font to the Project Editor of 10646 for publishing the standard	A. Administrative	Proposal to incorporate the symbol	No. of ISO/IEC 0005-7:2000		
2. Requester's name:       ISO/IEC JTC1/SC35         3. Requester's neterence (if applicable):       2017-02-28         5. Requester's neterence (if applicable):       2017-02-28         6. Choose one of the following:       Yes         (or) More information will be provided later:       Yes         8. Technical – General       Yes         1. Choose one of the following:       No         a. This proposal is for addition of character(s) to an existing block:       Yes         Name of the existing block:       Several, including a new block "Miscellaneous Technical Supplement"         2. Number of characters in proposal:       Several, including a new block "Miscellaneous Technical Supplement"         3. Proposed category (select one from below - see section 2.2 of P&P document):       A-Contemporary         A-Contemporary       B.1-Specialized (small collection)       B.2-Specialized (large collection)         C-Major extinct       D-Attested extinct       C-Obscure or questionable usage symbols         4. Is a repertoire including character names provided?       Yes       Yes         a. If YES, are the names in accordance with the "character naming guidelines"       in Annex Lof P&P document?         b. Are the character shapes attached in a legible form suitable for review?       Yes         5. Fortis related:       IP Contention       Yes         a. If YES, ar	1. Hue:	and its Amendment 1 and of ISO	/IEC 9995-10:2013 into the UCS		
3. Requester type (wember body.Laison/individual contribution):  2. Laison Continuum  4. Submission date: 2. 2017-02-28  2. 2017-02-28  3. Requester's reference (if applicable):  6. Choose one of the following: 7. Requester's reference (if applicable): 8. References: 7. Requester's reference (if applicable): 8. References: 7. Requester's reference (if applicable): 7. Requester's reference: 7. Requester's refe	2. Requester's name:	ISO/IEC	JTC1/SC35		
5. Requester's reference (if applicable): 6. Choose one of the following: This is a complete proposal: (or) More information will be provided later: 8. 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: Several, including a new block? Miscellaneous Technical Supplement* 2. Number of characters in proposal: 1. 108 + 2 Named Sequences 3. Proposed category (select one from below - see section 2.2 of P&P document): A-Contemporary X. B.1-Specialized (small collection) B.2-Specialized (large collection) C-Major extinct D-Attested extinct G-Obscure or questionable usage symbols 4. Is a repertoire including character names provided? 5. Fonts related: a. Who will provide the appropriate computerized font to the Project Editor of 10646 for publishing the standard? The co-editor of ISO/EC 9995-7 Amd1 and 9995-10 (Karl Pentzlin), on request b. Identify the party granting a license for use of the ont by the editors (include address, e-mail, Itp-site, etc.): The font will be in the Public Domain according to SC35 resolution 2010.48 6. References: a. Are references (to other character sets, dictionaries, descriptive texts etc.) provided? Yes 5. 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)? No estimation: 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 that will assist in correct measters and and erorect linguistic proces	3. Requester type (Member bo 4. Submission date:	dy/Liaison/Individual contribution):	Liaison Contribution		
6. Choose one of the following: This is a complete proposal: (or) More information will be provided later:  8. Technical – General  1. Choose one of the following: a. This proposal is for a new script (set of characters): No Proposed name of script: Name of the existing block: Several, including a new block "Miscellaneous Technical Supplement" 2. Number of characters in proposal: Description of the existing block: Description of characters in proposal: Description of the existing block: Description of characters in proposal: Description of the existing block: Description of characters in proposal: Description of the existing block: Description of the existing block in the "character raming guidelines" Description of the partypic of the existing block in a legible form suitable for review? Description of ISO/IEC 9995-7 And1 and 9995-10 (Karl Pentizlin), on request Description of ISO/IEC 9995-7 And1 and 9995-10 (Karl Pentizlin), on request Description of ISO/IEC 9995-7 And1 and 9995-10 (Karl Pentizlin), on request Description of ISO/IEC 9995-7 And1 and 9995-10 (Karl Pentizlin), on request Description of ISO/IEC 9995-7 And1 and 9995-10 (Karl Pentizlin), on request Description of ISO/IEC 9995-7 And1 and 9995-10 (Karl Pentizlin), on request Description of ISO/IEC 9995-7 And1 and 9995-10 (Karl Pentizlin), on request Description of ISO/IEC 9995-7 And1 and 9995-10 (Karl Pentizlin), on request Description of ISO/IEC 9995-7 And1 and 9995-10 (Karl Pentizlin), on request Description of ISO/IEC 9995-7 And1 and 9995-10 (Karl Pentizlin), on re	5. Requester's reference (if app	olicable):	2011 02 20		
Inis is a complete proposal:       Yes         (c) More information will be provided later:	6. Choose one of the following:				
(b) Minimum Minimum Deproved Machiner         B. Technical – General         1. Choose one of the following:         a. This proposed name of script:         b. The proposal is for a new script (set of character(s) to an existing block:         Yes         Name of the existing block:         Several, including a new block "Miscellaneous Technical Supplement"         2. Number of characters in proposal:         3. Proposed category (select one from below - see section 2.2 of P&P document):         A-Contemporary       X         B.1-Specialized (smail collection)       B.2-Specialized (large collection)         C-Major extinct       D-Attested extinct         F-Archaic Hieroglyphic or Ideographic       G-Obscure or questionable usage symbols         4. Is a repertorie 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:       . Ath the Public Domain according to SC35 resolution 2010.48         6. References:       a. Are references (to other character sets, dictionaries, descriptive texts etc.) provided?       Yes         b. Identify the party granting a license for use of the font by the editors (include address, e-mail, ftp-site, etc.): The font will be in the Public Domain a	I his is a complete prop (or) More information y	00sal: vill be provided later:	Yes		
1. Choose one of the following:       a. This proposal is for a new script (set of characters):       No         Proposed name of script:       Several, including a new block "Miscellaneous Technical Supplement"         2. Number of characters in proposal:       Several, including a new block "Miscellaneous Technical Supplement"         3. Proposed category (select one from below - see section 2.2 of P&P document):       ACOntemporary         A. Contemporary       X.       B.1-Specialized (small collection)       B.2-Specialized (large collection)         C-Major extinct       D-Attested extinct       E-Minor extinct       Yes         a. If YES, are the names in accordance with the "character naming guidelines" in Annex L of P&P document?       Yes       Yes         b. Are the character shapes attached in a legible form suitable for review?       Yes       Yes         5. Fonts related:       a. Who will provide the appropriate computerized font to the Project Editor of 10646 for publishing the standard?       The co-editor of ISO/IEC 9995-7 Amd1 and 9995-10 (Karl Pentzlin), on request       b. Identify the party granting a license for use of the font by the editors (include address, e-mail, ttp-site, etc.):         The font will be in the Public Domain according to SC35 resolution 2010.48       Yes         b. Are references:       a. Are references (to other character sets, dictionaries, descriptive texts etc.) provided?       Yes         b. Are references:       Act references:       Yes	B. Technical – General				
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: Several, including a new block "Miscellaneous Technical Supplement" 2. Number of characters in proposal: 108 + 2 Named Sequences 3. Proposed category (select one from below - see section 2.2 of P&P document): A-Contemporary A-Contemporary (Select one from below - see section 2.2 of P&P document): A-Contemporary (Select one from below - see section 2.2 of P&P document): A-Contemporary (Select one from below - see section 2.2 of P&P document): A-Contemporary (Select one from below - see section 2.2 of P&P document): A-Contemporary (Select one from below - see section 2.2 of P&P document): A-Contemporary (Select one from below - see section 2.2 of P&P document): A-Contemporary (Select one from below - see section 2.2 of P&P document): A-Chaipre extinct	1. Choose one of the following:				
Proposed name of script:	a. This proposal is for a r	new script (set of characters):	No		
b. The proposal a low block: <u>Several, including a new block</u> "Miscellaneous Technical Supplement" 2. Number of characters in proposal: <u>108 + 2 Named Sequences</u> 3. Proposed category (select one from below - see section 2.2 of P&P document): A-Contemporary X_ B.1-Specialized (small collection) <u>B.2-Specialized (large collection)</u> C-Major extinct <u>D-Attested extinct</u> <u>C-Attested extinct</u> <u>E-Minor extinct</u> F-Archaic Hieroglyphic or Ideographic <u>G-Obscure or questionable usage symbols</u> 4. Is a repertoire including character names provided? a. If YES, are the names in accordance with the "character naming guidelines" <u>Yes</u> b. Are the character shapes attached in a legible form suitable for review? <u>Yes</u> 5. Fonts related: a. Who will provide the appropriate computerized font to the Project Editor of 10646 for publishing the standard? <u>Yes of the or will be in the Public Domain according to SC35 resolution 2010.48</u> 6. References: a. Are references (to other character sets, dictionaries, descriptive texts etc.) provide? <u>Yes</u> b. Are published examples of use (such as samples from newspapers, magazines, or other sources) of proposed characters attached? <u>Yes</u> 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)? <u>No</u> 8. Additional Information: Submitters are invited to provide any additional information about Properties of the proposed Character(s) or Script. Hat will assist in correct understanding of and correct linguistic processing of the proposed Character(s) or Script. Hat will assist in correct understanding of and correct linguistic processing of the proposed Character(s) or Script. Examples of such properties are invited to provide any additional information about Properties of the proposed Character(s) or Script. Ex	Proposed name of	script:	k. Vas		
2. Number of characters in proposal:     108 + 2 Named Sequences     3. Proposed category (select one from below - see section 2.2 of P&P document):     A-Contemporary X B.1-Specialized (small collection) B.2-Specialized (large collection)     C-Major extinct D-Attested extinct C-Attested extinct C-Attestextested extinct C-Attest	Name of the existing	ng block: Several, including a nev	v block "Miscellaneous Technical Supplement"		
<ul> <li>3. Proposed category (select one from below - see section 2.2 of P&amp;P document): <ul> <li>A-Contemporary</li> <li>X. B.1-Specialized (small collection)</li> <li>B.2-Specialized (large collection)</li> <li>C-Major extinct</li> <li>D-Attested extinct</li> <li>E-Minor extinct</li> </ul> </li> <li>4. Is a repertoire including character names provided? <ul> <li>a. If YES, are the names in accordance with the "character naming guidelines"</li> <li>a. If YES, are the names in accordance with the "character naming guidelines"</li> <li>b. Are the character shapes attached in a legible form suitable for review?</li> <li>Fonts related: <ul> <li>a. Who will provide the appropriate computerized font to the Project Editor of 10646 for publishing the standard?</li> <li>The co-editor of ISO/IEC 9995-7 Amd1 and 9995-10 (Karl Pentzlin), on request</li> <li>b. Identify the party granting a license for use of the font by the editors (include address, e-mail, ftp-site, etc.):</li> <li>The co-editor of ISO/IEC 9995-7 Amd1 and 9995-10 (Karl Pentzlin), on request</li> <li>b. Identify the party granting a license for use of the font by the editors (include address, e-mail, ftp-site, etc.):</li> <li>The font will be in the Public Domain according to SC35 resolution 2010.48</li> </ul> </li> <li>6. References: <ul> <li>a. Are references (to other character sets, dictionaries, descriptive texts etc.) provided?</li> <li>Yes</li> </ul> </li> <li>7. Special encoding issues:     <ul> <li>Does the proposal address other aspects of character data processing (if applicable) such as input, presentation, sorting, searching, indexing, transilteration etc. (if yes please enclose information)?</li> <li>No</li> </ul> </li> <li>8. Additional Information: <ul> <li>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.</li> <li>Examples of such properties are: Casing in</li></ul></li></ul></li></ul>	2. Number of characters in pro	posal:	108 + 2 Named Sequences		
A-Contemporary X B.1-Specialized (small collection) B.2-Specialized (large collection)     C-Major extinct D-Attested extinct G-Obscure or questionable usage symbols     A. Is a repertoire including character names provided?     a. If YES, are the names in accordance with the "character naming guidelines"     in Annex L of P&P document?     b. Are the character shapes attached in a legible form suitable for review?     Yes     S. Fonts related:     a. Who will provide the appropriate computerized font to the Project Editor of 10646 for publishing the     standard?     The co-editor of ISO/IEC 9995-7 Amd1 and 9995-10 (Karl Pentzlin), on request     b. Identify the party granting a license for use of the font by the editors (include address, e-mail, ftp-site, etc.):     The font will be in the Public Domain according to SC35 resolution 2010.48     d. 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         Yes         S. 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)?         No         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. See the Unicode standard at http://www.unicode.org/Public/UNIDATA/UCD.html and associated Unicode Technical Reports for information         related information beverses toring the sociated Unicode Technical Reports for informa	3. Proposed category (select o	ne from below - see section 2.2 of P&F	P document):		
F-Archaic Hieroglyphic or Ideographic	A-Contemporary X B.	1-Specialized (small collection)	B.2-Specialized (large collection)		
<ul> <li>4. Is a repertoire including character names provided? <ul> <li>a. If YES, are the names in accordance with the "character naming guidelines" <ul> <li>in Annex L of P&amp;P document?</li> <li>b. Are the character shapes attached in a legible form suitable for review?</li> </ul> </li> <li>5. Fonts related: <ul> <li>a. Who will provide the appropriate computerized font to the Project Editor of 10646 for publishing the standard?</li> <li>The co-editor of ISO/IEC 9995-7 And1 and 9995-10 (Karl Pentzlin), on request</li> <li>b. Identify the party granting a license for use of the font by the editors (include address, e-mail, ftp-site, etc.): <ul> <li>The co-editor of ISO/IEC 9995-7 And1 and 9995-10 (Karl Pentzlin), on request</li> <li>b. Identify the party granting a license for use of the font by the editors (include address, e-mail, ftp-site, etc.):</li> <li>The font will be in the Public Domain according to SC35 resolution 2010.48</li> </ul> </li> <li>6. References: <ul> <li>a. Are references (to other character sets, dictionaries, descriptive texts etc.) provided?</li> <li>Yes</li> </ul> </li> <li>7. Special encoding issues: <ul> <li>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)?</li> <li>No</li> </ul> </li> <li>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.</li> <li>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, nelevance in Mark Up contexts, Compatibility equivalence and other Unicode normalization related information. See the Unicode Te</li></ul></li></ul></li></ul>	F-Archaic Hierodlyphic or Id	eographic G-O	bscure or questionable usage symbols		
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<ul> <li>a. Who will provide the appropriate computerized font to the Project Editor of 10646 for publishing the standard? </li> <li>The co-editor of ISO/IEC 9995-7 Amd1 and 9995-10 (Karl Pentzlin), on request </li> <li>b. Identify the party granting a license for use of the font by the editors (include address, e-mail, ftp-site, etc.): </li> <li>The font will be in the Public Domain according to SC35 resolution 2010.48 </li> <li>6. References: <ul> <li>a. Are references (to other character sets, dictionaries, descriptive texts etc.) provided?</li> <li>Yes</li> <li>b. Are published examples of use (such as samples from newspapers, magazines, or other sources) of proposed characters attached? <ul> <li>Yes</li> </ul> </li> <li>7. Special encoding issues: <ul> <li>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)?</li> <li>No</li> </ul> </li> <li>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 <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 neded for consideration by the Unicode Technical Committee for inclusion in the Unicode Standard.</li> </ul> </li> </ul>	5. Fonts related:				
standard?       The co-editor of ISO/IEC 9995-7 Amd1 and 9995-10 (Karl Pentzlin), on request         b. Identify the party granting a license for use of the font by the editors (include address, e-mail, ftp-site, etc.): The font will be in the Public Domain according to SC35 resolution 2010.48         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)?       No         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/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.	a. Who will provide the a	a. Who will provide the appropriate computerized font to the Project Editor of 10646 for publishing the			
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see <u>http://www.unicode.org/Public/UNIDATA/UCD.html</u> and associated Unicode Technical Reports for information needed for consideration by the Unicode Technical Committee for inclusion in the Unicode Standard.	Collation behaviour, relevance	in Mark Up contexts, Compatibility equ	uivalence and other Unicode normalization		
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<sup>&</sup>lt;sup>1</sup> Form number: N3702-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)

#### C. Technical - Justification

	rtially
If YES explain The symbols from ISO/IEC 9995-7 and its Amd1 were proposed originally in L2/12-3	02 =
ISO/IEC JTC1/SC2/WG2 N4317 and its predecessors, which are replaced by this doc	ument
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.)?	65
If YES, with whom?	040
If YES, available relevant documents: <u>150/IEC 9995-1.2009 + Arrid1 (2012), 9995-10.20</u>	J13
3. Information on the user community for the proposed characters (for example:	100
Size, demographics, information technology use, or publishing use) is included?	63
Reference: All users of keyboards compliant to the ISO/IEC 9995 series	
4. The context of use for the proposed characters (type of use; common of rare)	nmon
Reference: See above	,
5. Are the proposed characters in current use by the user community?	es
If YES, where? Reference:	
b. After giving due considerations to the principles in the P&P document must the proposed characters be e in the DMD2	ntirely
If YES, is a rationale provided?	res
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?	VO
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?	VO
If YES, is a rationale for its inclusion provided?	
If YES, reference: (I wo such characters are proposed as Named Sequences, usil	ng the
Composed character sequences constituting (nem)	
to an aviating character(s) be considered to be similar (in appearance of function)	No
If VES is a rationale for its inclusion provided?	VO
II TEO, IEIEIEIICE.	100
If VES is a rationale for such use provided?	63 /AS
	00
If YES, reference:	Vos
is a list of composite sequences and their corresponding gryph images (graphic symbols) provided?	103
If YES, reference: See lexi	
12. Does the proposal contain characters with any special properties such as	
to VEC departing in detail (include attackment if recessory)	VU
IS. Does the proposal contain any ideographic compatibility character(s)?	VO
If YES, is the equivalent corresponding unified ideographic character(s) identified?	