
**Information technology — Keyboard
layouts for text and office systems —**

**Part 3:
Complementary layouts of the
alphanumeric zone of the alphanumeric
section**

*Technologies de l'information — Disposition des claviers conçus pour la
bureautique —*

*Partie 3: Dispositions complémentaires de la zone alphanumérique du
module alphanumérique*

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Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work. In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of the joint technical committee is to prepare International Standards. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any or all such patent rights.

ISO/IEC 9995-3 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 35, *User interfaces*.

This third edition cancels and replaces the second edition (ISO/IEC 9995-3:2002), which has been technically revised. The main modifications consist of the following:

- defining of a new common secondary group layout while keeping the previous one for compatibility reasons;
- fixing some issues due to the expansion of the Universal Character Set;
- adding missing Latin characters in use in countries which have referenced this part of ISO/IEC 9995 precedingly;
- adding support for the Vietnamese Latin characters.

ISO/IEC 9995 consists of the following parts, under the general title *Information technology — Keyboard layouts for text and office systems*:

- *Part 1: General principles governing keyboard layouts*
- *Part 2: Alphanumeric section*
- *Part 3: Complementary layouts of the alphanumeric zone of the alphanumeric section*
- *Part 4: Numeric section*
- *Part 5: Editing and function section*
- *Part 7: Symbols used to represent functions*
- *Part 8: Allocation of letters to the keys of a numeric keypad*

Introduction

The MES-1 repertoire specified in ISO 10646 permits the representation of 40 recognized European languages (plus Afrikaans) using a Latin-based alphabet.

The extended character repertoire presented in this part of ISO/IEC 9995 is intended to fulfill the following goals.

- All names (personal and organizational) and texts written in official main languages of all countries can be entered correctly (provided they use the Latin script).
- All names and texts written in most “indigenous” or “aboriginal” languages can be written correctly (provided they use the Latin script).

NOTE At this time, this does not apply to some languages of North America and most languages of Central Africa, which use more special letters and letterforms than can be handled by the means currently defined in this part of ISO/IEC 9995. However, languages which rely on multiple diacritical marks instead, like Yorùbá, are supported.

- It is possible to write typographically correct at the character level (therefore en-/em-dashes, different quote forms, etc. are included).
- Standardized transliterations of geographical and personal names from non-Latin scripts into Latin are supported at least for widely used languages.
- The Latin script variants Fraktur (Blackletter) and Gaelic (which have some contemporary use in spite of their “old fashioned” look) are supported (for environments which provide appropriate fonts and automatic ligating for Fraktur which can be controlled by the “zero width non-joiner”).
- Some symbols used commonly in business texts are provided, like € or ®.

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Information technology — Keyboard layouts for text and office systems —

Part 3:

Complementary layouts of the alphanumeric zone of the alphanumeric section

1 Scope

Within the general scope described in ISO/IEC 9995-1, this part of ISO/IEC 9995 defines the allocation on a keyboard of a set of graphic characters which, when used in combination with an existing national version keyboard layout or the complementary Latin group layout as defined in this part of ISO/IEC 9995, allows the input of a minimum character repertoire as defined by collection 281 (MES-1) specified in ISO/IEC 10646 and proposes extensions of this minimum repertoire.

This part of ISO/IEC 9995 is primarily intended for word-processing and text-processing applications.

2 Conformance

The layout of a keyboard conforms to this part of ISO/IEC 9995 if the allocation of the graphic characters of the common secondary group (group 2) is as defined in one of the two layouts of Clause 5, and if the allocation of the graphic characters of the primary group (group 1) conforms to one of the following layouts:

- a national keyboard standard;
- a national keyboard layout established by common usage in a particular country;
- the complementary Latin group layout as defined in Clause 6.

NOTE ISO/IEC 9995-2:2009, Annex A gives examples of allocations of graphic characters to the primary group of the alphanumeric zone of the alphanumeric section.

Any statement of conformance to this part of ISO/IEC 9995 shall be taken by default to imply that the complete current common secondary group layout (Group 2) has been implemented, unless

- a subset is explicitly declared,
- the use of the outdated common secondary group (or a subset thereof) is explicitly declared,

and provided that all other requirements of Clause 5 are respected.

3 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO/IEC 9995-1, *Information technology — Keyboard layouts for text and office systems — Part 1: General principles governing keyboard layouts*

ISO/IEC 10646:2003, *Information technology — Universal Multiple-Octet Coded Character Set (UCS)*

4 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO/IEC 9995-1 apply.

5 Common secondary group layout

5.1 General

The common secondary group layout (in either its current or its outdated version) specified in ISO/IEC 9995-3 requires a keyboard with at least 48 graphic keys according to ISO/IEC 9995-2. This layout requires the provision of another group as defined in ISO/IEC 9995-1. The graphic characters of group 1 and the layout of these on the keyboard are defined by the relevant national keyboard layout standard or established by common usage.

The graphic characters of the outdated version of the common secondary group (group 2) are those of the repertoire specified in collection 281 (titled MES-1) as specified in ISO/IEC 10646 that are not found as group 1 characters in all national keyboard layouts nor in layouts established by common usage in a particular country.

The graphic characters of the current version of the common secondary group are a superset of the repertoire specified in the outdated version with changes in the arrangement of some characters.

This leads to a certain duplication of graphic characters between the group 1 layouts and the layout of the common secondary group (group 2). However, it allows the graphic characters of the common secondary group and their allocation to keys to be always the same for their use with any established Latin group layout.

The allocation of the characters of the common secondary group (group 2) shall be as defined in Table 1 or Table 2.

The encoding of characters is not specified in this part of ISO/IEC 9995 but any implementation shall ensure that the character use correspond to their ISO/IEC 10646 identifiers (identifiers hereafter starting with "U+") documented for each character in Tables 1 to 6.

NOTE 1 The repertoire of MES-1 (collection 281) of ISO/IEC 10646 is identical to the union of the character repertoire of ISO/IEC 6937:1994 with the character EURO SIGN (which has not yet been encoded in any version of ISO/IEC 6937 and at time of publication of this part of ISO/IEC 9995 there was no plan to update ISO/IEC 6937 to that effect). ISO/IEC 6937 was historically the prime reference for the repertoire used by ISO/IEC 9995-3 before it was amended to allocate a keyboard position to the euro sign. The reference to ISO/IEC 6937 having been deprecated for this part of ISO/IEC 9995, it has not been included in the current list of normative references. This does not preclude to implement the repertoire of ISO/IEC 6937 as a subset but this is now outside the scope of this part of ISO/IEC 9995. Implementations of subsets of MES-1 are allowed if they are declared specifically as mentioned in the conformance clause.

NOTE 2 The current common secondary group builds on MES-1, adding some characters that have come into use since the standardization of ISO/IEC 6937, i.e. some characters that are in use in Europe but that are not included in MES-1, and some characters used in Canadian aboriginal languages which use the Latin script. Support for Vietnamese Latin characters has also been added. At time of development of this part of ISO/IEC 9995, Sweden and Canada were

the only countries which had a national standard referencing a version of the common secondary group layout of ISO/IEC 9995-3.

Table 1 — Allocation of the graphic characters of the current common secondary group (group 2)

Key	Level 1	Level 2	Level 3
E00	U+204A tironian sign et	U+00AD soft hyphen	U+007C vertical line
E01	U+00B9 superscript one	U+00A1 inverted exclamation mark	U+02B9 modifier letter prime
E02	U+00B2 superscript two	U+00A4 currency sign	U+02BA modifier letter double prime
E03	U+00B3 superscript three	U+00A3 pound sign	U+02BF modifier letter left half ring
E04	U+00BC vulgar fraction one quarter	U+20AC euro sign	U+02BE modifier letter right half ring
E05	U+00BD vulgar fraction one half	U+2191 upwards arrow	U+02C1 modifier letter reversed glottal stop
E06	U+00BE vulgar fraction three quarters	U+2193 downwards arrow	U+02C0 modifier letter glottal stop
E07	U+215B vulgar fraction one eighth	U+2190 leftwards arrow	U+007B left curly bracket
E08	U+215C vulgar fraction three eighths	U+2192 rightwards arrow	U+007D right curly bracket
E09	U+215D vulgar fraction five eighths	U+00B1 plus-minus sign	U+005B left square bracket
E10	U+215E vulgar fraction seven eighths	U+2122 trade mark sign	U+005D right square bracket
E11	U+005C reverse solidus	U+00BF inverted question mark	U+02BB modifier letter turned comma
E12	U+0327 combining cedilla	U+0328 combining ogonek	U+00AC not sign
D01	U+0242 latin small letter glottal stop	U+0241 latin capital letter glottal stop	U+030D combining vertical line above
D02	U+02B7 modifier letter small w	U+2126 ohm sign	U+0307 combining dot above
D03	U+0153 latin small ligature oe	U+0152 latin capital ligature oe	U+0306 combining breve
D04	U+00B6 pilcrow sign	U+00AE registered sign	U+0302 combining circumflex accent
D05	U+A78C latin small letter saltillo	U+A78B latin capital letter saltillo	U+0308 combining diaeresis
D06	U+027C latin small letter r with long leg	U+00A5 yen sign	U+0311 combining inverted breve
D07	U+0223 latin small letter ou	U+0222 latin capital letter ou	U+030C combining caron
D08	U+0131 latin small letter dotless i	U+214D aktieselskab	U+0313 combining comma above
D09	U+00F8 latin small letter o with stroke	U+00D8 latin capital letter o with stroke	U+031B combining horn
D10	U+00FE latin small letter thorn	U+00DE latin capital letter thorn	U+0309 combining hook above
D11	U+017F latin small letter long s	U+030A combining ring above	U+0300 combining grave accent
D12	U+0303 combining tilde	U+0304 combining macron	U+0040 commercial at
C01	U+00E6 latin small letter ae	U+00C6 latin capital letter ae	U+0329 combining vertical line below
C02	U+00DF latin small letter sharp s	U+00A7 section sign	U+0323 combining dot below
C03	U+00F0 latin small letter eth	U+00D0 latin capital letter eth	U+032E combining breve below
C04	U+0294 latin letter glottal stop	U+00AA feminine ordinal indicator	U+032D combining circumflex accent below
C05	U+014B latin small letter eng	U+014A latin capital letter eng	U+0331 combining macron below
C06	U+0272 latin small letter n with left hook	U+019D latin capital letter n with left hook	U+0332 combining low line
C07	U+0133 latin small ligature ij	U+0132 latin capital ligature ij	U+0325 combining ring below
C08	U+0138 latin small letter kra	U+0326 combining comma below	U+0335 combining short stroke overlay
C09	U+0142 latin small letter l with stroke	U+0141 latin capital letter l with stroke	U+0338 combining long solidus overlay
C10	U+0301 combining acute accent	U+030B combining double acute accent	U+00B0 degree sign
C11	U+019B latin small letter lambda with stroke	U+1E9E latin capital letter sharp s	U+2032 prime
C12	U+0259 latin small letter schwa	U+018F latin capital letter schwa	U+2033 double prime
B00	U+0149 latin small letter n preceded by apostrophe	U+00A6 broken bar	U+266A eighth note
B01	U+0292 latin small letter ezh	U+01B7 latin capital letter ezh	U+00AB left-pointing double angle quotation mark

Key	Level 1	Level 2	Level 3
B02	U+201E double low-9 quotation mark	U+201A single low-9 quotation mark	U+00BB right-pointing double angle quotation mark
B03	U+00A2 cent sign	U+00A9 copyright sign	U+2015 horizontal bar
B04	U+201C left double quotation mark	U+2018 left single quotation mark	U+2039 single left-pointing angle quotation mark
B05	U+201D right double quotation mark	U+2019 right single quotation mark	U+203A single right-pointing angle quotation mark
B06	U+019E latin small letter n with long right leg	U+0220 latin capital letter n with long right leg	U+2013 en dash
B07	U+00B5 micro sign	U+00BA masculine ordinal indicator	U+2014 em dash
B08	U+2026 horizontal ellipsis	U+00D7 multiplication sign	U+0024 dollar sign
B09	U+00B7 middle dot	U+00F7 division sign	U+0023 number sign
B10	U+0140 latin small letter l with middle dot	U+013F latin capital letter l with middle dot	U+2011 non-breaking hyphen
A03	U+202F narrow no-break space	U+200C zero width non-joiner	U+00A0 no-break space

Table 2 — Allocation of the graphic characters of the outdated common secondary group (group 2)

Key	Level 1	Level 2	Level 3
E00	U+00AC not sign	U+00AD soft hyphen	
E01	U+00B9 superscript one	U+00A1 inverted exclamation mark	
E02	U+00B2 superscript two	U+215B vulgar fraction one eighth	
E03	U+00B3 superscript three	U+00A3 pound sign	
E04	U+00BC vulgar fraction one quarter	U+20AC euro sign	U+00A4 currency sign
E05	U+00BD vulgar fraction one half	U+215C vulgar fraction three eighths	
E06	U+00BE vulgar fraction three quarters	U+215D vulgar fraction five eighths	
E07	U+007B left curly bracket	U+215E vulgar fraction seven eighths	
E08	U+005B left square bracket	U+2122 trade mark sign	
E09	U+005D right square bracket	U+00B1 plus-minus sign	
E10	U+007D right curly bracket	U+00B0 degree sign	
E11	U+005C reverse solidus	U+00BF inverted question mark	
E12	U+00B8 cedilla	U+02DB ogonek	
D01	U+0040 commercial at	U+2126 ohm sign	
D02	U+0142 latin small letter l with stroke	U+0141 latin capital letter l with stroke	
D03	U+0153 latin small ligature oe	U+0152 latin capital ligature oe	
D04	U+00B6 pilcrow sign	U+00AE registered sign	
D05	U+0167 latin small letter t with stroke	U+0166 latin capital letter t with stroke	
D06	U+2190 leftwards arrow	U+00A5 yen sign	
D07	U+2193 downwards arrow	U+2191 upwards arrow	
D08	U+2192 rightwards arrow	U+0131 latin small letter dotless i	
D09	U+00F8 latin small letter o with stroke	U+00D8 latin capital letter o with stroke	
D10	U+00FE latin small letter thorn	U+00DE latin capital letter thorn	
D11	U+00A8 diaeresis	U+02DA ring above	
D12	U+007E tilde	U+00AF macron	
C01	U+00E6 latin small letter ae	U+00C6 latin capital letter ae	
C02	U+00DF latin small letter sharp s	U+00A7 section sign	
C03	U+00F0 latin small letter eth	U+0110 latin capital letter d with stroke	
C04	U+0111 latin small letter d with stroke	U+00AA feminine ordinal indicator	
C05	U+014B latin small letter eng	U+014A latin capital letter eng	
C06	U+0127 latin small letter h with stroke	U+0126 latin capital letter h with stroke	
C07	U+0133 latin small ligature ij	U+0132 latin capital ligature ij	
C08	U+0138 latin small letter kra	U+0026 ampersand	
C09	U+0140 latin small letter l with middle dot	U+013F latin capital letter l with middle dot	

Key	Level 1	Level 2	Level 3
C10	U+00B4 acute accent	U+02DD double acute accent	
C11	U+005E circumflex accent	U+02C7 caron	
C12	U+0060 grave accent	U+02D8 breve	
B00	U+007C vertical line	U+00A6 broken bar	
B01	U+00AB left-pointing double angle quotation mark	U+003C less-than sign	
B02	U+00BB right-pointing double angle quotation mark	U+003E greater-than sign	
B03	U+00A2 cent sign	U+00A9 copyright sign	
B04	U+201C left double quotation mark	U+2018 left single quotation mark	
B05	U+201D right double quotation mark	U+2019 right single quotation mark	
B06	U+0149 latin small letter n preceded by apostrophe	U+266A eighth note	
B07	U+00B5 micro sign	U+00BA masculine ordinal indicator	
B08	U+2015 horizontal bar	U+00D7 multiplication sign	
B09	U+00B7 middle dot	U+00F7 division sign	
B10	U+0323 combining dot below	U+02D9 dot above	

If there is no graphic key provided in position B00, then the graphic characters of key B00 shall be allocated to a graphic key in position E13.

If there is no graphic key provided in position C12, then the graphic characters of key C12 shall be allocated to a graphic key in position D13.

A keyboard with only 47 graphic keys according to ISO/IEC 9995-2, lacking a key on position B00 or E13, can be declared conformant by specifying the subset yielded by omitting the graphic characters allocated on position B00 from the full repertoire.

If a keyboard is used in an environment which uses character encoding according to ISO/IEC 10646, the conformance is not violated if it outputs the graphic character "greek capital letter omega" instead of "ohm sign".

If a keyboard is used in an environment which uses character encoding according to ISO/IEC 10646, the conformance is not violated if it outputs the sequence of graphic characters "right single quotation mark" + "latin small letter n" instead of the single graphic character "latin small letter n preceded by apostrophe", as the latter character is deprecated in the Unicode encoding based on ISO/IEC 10646, and as the former sequence is the replacement recommended by the Unicode standard.

It is not mandatory to show the graphic symbols of all graphic characters on keytops. Duplicates of primary group 1 graphic characters should not be shown in group 2. Where small and capital forms of a letter exist, either the small or the capital form need be shown.

The names of the graphic characters shown in the table are those used for the equivalent coded graphic characters in other ISO/IEC Standards, for example in the most recent version of ISO/IEC 10646. The convention there is to use capital letters for the names to indicate that they are coded graphic characters. As this part of ISO/IEC 9995 does not specify coding, the convention of using only capital letters was not retained here. Otherwise the names of the graphic characters are identical with those in the relevant ISO/IEC coding standards.

The names chosen to denote the graphic characters are intended to reflect their customary meaning. However, this part of ISO/IEC 9995 does not define and does not restrict the meanings of graphic characters. Nor does it specify a particular style or font design for imaging the graphic characters.

5.2 Operation of keys with diacritical marks

Table 3 — Diacritical marks in MES-1

Name of the combining diacritical mark	Name of resulting character when applied to Space
U+0301 combining acute accent	U+00B4 acute accent
U+0306 combining breve	U+02D8 breve
U+030C combining caron	U+02C7 caron
U+0327 combining cedilla	U+00B8 cedilla
U+0302 combining circumflex accent	U+005E circumflex accent
U+0308 combining diaeresis	U+00A8 diaeresis
U+0307 combining dot above	U+02D9 dot above
U+030B combining double acute accent	U+02DD double acute accent
U+0300 combining grave accent	U+0060 grave accent
U+0304 combining macron	U+00AF macron
U+0328 combining ogonek	U+02DB ogonek
U+030A combining ring above	U+02DA ring above
U+0303 combining tilde	U+007E tilde

Table 4 — Diacritical marks additionally used in the current common secondary group layout

Name of the combining diacritical mark	Name of resulting character when applied to Space (if applicable)
U+032E combining breve below	
U+0310 combining candrabindu	
U+032D combining circumflex accent below	U+A788 modifier letter low circumflex accent
U+0313 combining comma above	U+02BC modifier letter apostrophe
U+0315 combining comma above right	
U+0324 combining diaeresis below	
U+0323 combining dot below	
U+0326 combining comma below	
U+035D combining double breve	
U+035C combining double breve below	
U+030F combining double grave accent	
U+0361 combining double inverted breve	
U+035E combining double macron	
U+035F combining double macron below	
U+0360 combining double tilde	
U+030E combining double vertical line above	
U+0348 combining double vertical line below	
U+0347 combining equals sign below	
U+0309 combining hook above	
U+031B combining horn	
U+0311 combining inverted breve	
U+0338 combining long solidus overlay	U+2215 division slash
U+0332 combining low line	

Name of the combining diacritical mark	Name of resulting character when applied to Space (if applicable)
U+0331 combining macron below	U+02CD modifier letter low macron
U+0325 combining ring below	
U+0335 combining short stroke overlay	U+2212 minus sign
U+030D combining vertical line above	U+02C8 modifier letter vertical line
U+0329 combining vertical line below	U+02CC modifier letter low vertical line

Diacritical marks appear above or below certain letters or overstrike some letters, and all of them are non-spacing characters.

Actuating a key with a diacritical mark, or a sequence of such, followed by actuating a key with a letter, a symbol, or another diacritical, shall indicate that the graphical symbols of the implied characters are intended to be combined.

The order in which two diacritical marks that apply to the same letter are entered does not matter.

Table 5 lists additional characters which are input as combinations starting with diacritical marks contained in the current common secondary group, which produce peculiar diacritical marks or characters as a result.

Table 5 — Peculiar Characters which can be entered as combinations using diacritical marks

First input character	Second input character	Resulting character
U+0300 combining grave accent	U+0300 combining grave accent	U+030F combining double grave accent
U+0302 combining circumflex accent	U+0302 combining circumflex accent	U+1DCD combining double circumflex above
U+0303 combining tilde	U+0303 combining tilde	U+0360 combining double tilde
U+0304 combining macron	U+0304 combining macron	U+035E combining double macron
U+0306 combining breve	U+0306 combining breve	U+035D combining double breve
U+0307 combining dot above	U+0306 combining breve	U+0310 combining candrabindu
U+030D combining vertical line above	U+030D combining vertical line above	U+030E combining double vertical line above
U+0311 combining inverted breve	U+0311 combining inverted breve	U+0361 combining double inverted breve
U+0313 combining comma above	U+0313 combining comma above	U+0315 combining comma above right
U+0323 combining dot below	U+0323 combining dot below	U+0324 combining diaeresis below
U+0329 combining vertical line below	U+0329 combining vertical line below	U+0348 combining double vertical line below
U+032E combining breve below	U+032E combining breve below	U+035C combining double breve below
U+0331 combining macron below	U+003C less-than sign	U+2264 less-than or equal to
U+0331 combining macron below	U+003E greater-than sign	U+2265 greater-than or equal to
U+0331 combining macron below	U+0331 combining macron below	U+0347 combining equals sign below
U+0332 combining low line	U+0332 combining low line	U+035F combining double macron below
U+0335 combining short stroke overlay	U+0062 latin small letter b	U+0180 latin small letter b with stroke
U+0335 combining short stroke overlay	U+0042 latin capital letter b	U+0243 latin capital letter b with stroke
U+0335 combining short stroke overlay	U+0064 latin small letter d	U+0111 latin small letter d with stroke
U+0335 combining short stroke overlay	U+0044 latin capital letter d	U+0110 latin capital letter d with stroke
U+0335 combining short stroke overlay	U+0067 latin small letter g	U+01E5 latin small letter g with stroke
U+0335 combining short stroke overlay	U+0047 latin capital letter g	U+01E4 latin capital letter g with stroke
U+0335 combining short stroke overlay	U+0068 latin small letter h	U+0127 latin small letter h with stroke
U+0335 combining short stroke overlay	U+0048 latin capital letter h	U+0126 latin capital letter h with stroke
U+0335 combining short stroke overlay	U+0069 latin small letter i	U+0268 latin small letter i with stroke
U+0335 combining short stroke overlay	U+0049 latin capital letter i	U+0197 latin capital letter i with stroke
U+0335 combining short stroke overlay	U+006A latin small letter j	U+0249 latin small letter j with stroke
U+0335 combining short stroke overlay	U+004A latin capital letter j	U+0248 latin capital letter j with stroke

First input character	Second input character	Resulting character
U+0335 combining short stroke overlay	U+006C latin small letter l	U+019A latin small letter l with bar
U+0335 combining short stroke overlay	U+004C latin capital letter l	U+023D latin capital letter l with bar
U+0335 combining short stroke overlay	U+006F latin small letter o	U+0275 latin small letter barred o
U+0335 combining short stroke overlay	U+004F latin capital letter o	U+019F latin capital letter o with middle tilde
U+0335 combining short stroke overlay	U+0070 latin small letter p	U+1D7D latin small letter p with stroke
U+0335 combining short stroke overlay	U+0050 latin capital letter p	U+2C63 latin capital letter p with stroke
U+0335 combining short stroke overlay	U+0072 latin small letter r	U+024D latin small letter r with stroke
U+0335 combining short stroke overlay	U+0052 latin capital letter r	U+024C latin capital letter r with stroke
U+0335 combining short stroke overlay	U+0074 latin small letter t	U+0167 latin small letter t with stroke
U+0335 combining short stroke overlay	U+0054 latin capital letter t	U+0166 latin capital letter t with stroke
U+0335 combining short stroke overlay	U+0075 latin small letter u	U+0289 latin small letter u bar
U+0335 combining short stroke overlay	U+0055 latin capital letter u	U+0244 latin capital letter u bar
U+0335 combining short stroke overlay	U+0079 latin small letter y	U+024F latin small letter y with stroke
U+0335 combining short stroke overlay	U+0059 latin capital letter y	U+024E latin capital letter y with stroke
U+0335 combining short stroke overlay	U+007A latin small letter z	U+01B6 latin small letter z with stroke
U+0335 combining short stroke overlay	U+005A latin capital letter z	U+01B5 latin capital letter z with stroke
U+0338 combining long solidus overlay	U+0061 latin small letter a	U+2C65 latin small letter a with stroke
U+0338 combining long solidus overlay	U+0041 latin capital letter a	U+023A latin capital letter a with stroke
U+0338 combining long solidus overlay	U+0063 latin small letter c	U+023C latin small letter c with stroke
U+0338 combining long solidus overlay	U+0043 latin capital letter c	U+023B latin capital letter c with stroke
U+0338 combining long solidus overlay	U+0065 latin small letter e	U+0247 latin small letter e with stroke
U+0338 combining long solidus overlay	U+0045 latin capital letter e	U+0246 latin capital letter e with stroke
U+0338 combining long solidus overlay	U+006C latin small letter l	U+0142 latin small letter l with stroke
U+0338 combining long solidus overlay	U+004C latin capital letter l	U+0141 latin capital letter l with stroke
U+0338 combining long solidus overlay	U+006D latin small letter m	U+20A5 mill sign
U+0338 combining long solidus overlay	U+006F latin small letter o	U+00F8 latin small letter o with stroke
U+0338 combining long solidus overlay	U+004F latin capital letter o	U+00D8 latin capital letter o with stroke
U+0338 combining long solidus overlay	U+0074 latin small letter t	U+2C66 latin small letter t with diagonal stroke
U+0338 combining long solidus overlay	U+0054 latin capital letter t	U+023E latin capital letter t with diagonal stroke
U+0338 combining long solidus overlay	U+003D equals sign	U+2260 not equal to
U+0338 combining long solidus overlay	U+00B0 degree sign	U+2300 diameter sign

Actuating a key with a diacritical mark, or a sequence of such, followed by actuating the space bar, shall indicate that the diacritical mark or the combined sequence of diacritical marks is intended to appear as a graphic character of its own (i.e. free-standing), as listed in Table 3 and Table 4.

It is recommended that the method used for the deletion of a character should also be used to cancel a partially-constructed character, such as one or more diacritical marks without a following letter or a following Space character.

NOTE The circumflex accent and the tilde used in the Common Supplementary Groups are always diacritical marks. If a keyboard is designed for use in a software development environment where these characters are needed in a way such that they are not used as diacritical marks, they should be included in the primary group in that way.

6 Complementary Latin group layout

6.1 General

The complementary Latin group layout specified in ISO/IEC 9995-3 requires a keyboard with a minimum of 48 graphic keys according to ISO/IEC 9995-2. This complementary layout is provided for those cases where no national keyboard layout standard or common national usage keyboard layout is available. It may also be used in those cases when the primary layout is based on a non-Latin script.

The allocation of the characters of the complementary Latin group shall be as defined in Table 6.

It is not mandatory to show the graphic symbols of all graphic characters on keytops. Duplicates of complementary Latin group layout characters already shown on the keyboard should not be shown in the common secondary group layout (group 2).

The names of the graphic characters shown in the table are those used for the equivalent coded graphic characters in other ISO/IEC Standards, for example in the most recent version of ISO/IEC 10646. The convention there is to use capital letters for the names to indicate that they are coded graphic characters. As this part of ISO/IEC 9995 does not specify coding, the convention of using only capital letters was not retained here. Otherwise the names of the graphic characters are identical with those in the relevant ISO/IEC coding standards.

The names chosen to denote the graphic characters are intended to reflect their customary meaning. However, this part of ISO/IEC 9995 does not define and does not restrict the meanings of graphic characters. Nor does it specify a particular style or font design for imaging the graphic characters.

6.2 Operation of keys with diacritical marks

Diacritical marks are the same as listed in Table 3, except “combining dot above”.

Diacritical marks appear above or below certain letters, and all of them are non-spacing characters. Actuating a key with a diacritical mark, followed by actuating a key with a letter, shall indicate that the graphical symbols of the two characters are intended to be combined. Actuating a key with a diacritical mark, followed by actuating the space bar, shall indicate that the diacritical mark is intended to appear as a graphic character of its own (i.e. free-standing).

Table 6 — Allocation of the graphic characters of the complementary Latin group

Key	Level 1	Level 2
E00	U+002A asterisk	U+002B plus sign
E01	U+0031 digit one	U+0021 exclamation mark
E02	U+0032 digit two	U+0022 quotation mark
E03	U+0033 digit three	U+0023 number sign
E04	U+0034 digit four	U+0024 dollar sign
E05	U+0035 digit five	U+0025 percent sign
E06	U+0036 digit six	U+0026 ampersand
E07	U+0037 digit seven	U+0027 apostrophe
E08	U+0038 digit eight	U+0028 left parenthesis
E09	U+0039 digit nine	U+0029 right parenthesis
E10	U+0030 digit zero	U+003D equals sign
E11	U+002F solidus	U+003F question mark
E12	U+00B8 cedilla	U+02DB ogonek
D01	U+0071 latin small letter q	U+0051 latin capital letter q
D02	U+0077 latin small letter w	U+0057 latin capital letter w
D03	U+0065 latin small letter e	U+0045 latin capital letter e
D04	U+0072 latin small letter r	U+0052 latin capital letter r

Key	Level 1	Level 2
D05	U+0074 latin small letter t	U+0054 latin capital letter t
D06	U+0079 latin small letter y	U+0059 latin capital letter y
D07	U+0075 latin small letter u	U+0055 latin capital letter u
D08	U+0069 latin small letter i	U+0049 latin capital letter i
D09	U+006F latin small letter o	U+004F latin capital letter o
D10	U+0070 latin small letter p	U+0050 latin capital letter p
D11	U+00A8 diaeresis	U+02DA ring above
D12	U+007E tilde	U+00AF macron
C01	U+0061 latin small letter a	U+0041 latin capital letter a
C02	U+0073 latin small letter s	U+0053 latin capital letter s
C03	U+0064 latin small letter d	U+0044 latin capital letter d
C04	U+0066 latin small letter f	U+0046 latin capital letter f
C05	U+0067 latin small letter g	U+0047 latin capital letter g
C06	U+0068 latin small letter h	U+0048 latin capital letter h
C07	U+006A latin small letter j	U+004A latin capital letter j
C08	U+006B latin small letter k	U+004B latin capital letter k
C09	U+006C latin small letter l	U+004C latin capital letter l
C10	U+00B4 acute accent	U+02DD double acute accent
C11	U+005E circumflex accent	U+02C7 caron
C12	U+0060 grave accent	U+02D8 breve
B00	U+003C less-than sign	U+003E greater-than sign
B01	U+007A latin small letter z	U+005A latin capital letter z
B02	U+0078 latin small letter x	U+0058 latin capital letter x
B03	U+0063 latin small letter c	U+0043 latin capital letter c
B04	U+0076 latin small letter v	U+0056 latin capital letter v
B05	U+0062 latin small letter b	U+0042 latin capital letter b
B06	U+006E latin small letter n	U+004E latin capital letter n
B07	U+006D latin small letter m	U+004D latin capital letter m
B08	U+002C comma	U+003B semicolon
B09	U+002E full stop	U+003A colon
B10	U+002D hyphen-minus	U+005F low line

If there is no graphic key provided in position B00, then the graphic characters of key B00 shall be allocated to a graphic key in position E13.

It is recommended that the method used for the deletion of a character should also be used to cancel a partially-constructed character, such as a diacritical mark without a following letter or a following Space character.