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**AMENDMENT 3**  
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**Information technology — Document  
description and processing languages —  
DSSSL library for complex compositions**

**AMENDMENT 3: Extensions to multilingual  
compositions (North and South Asian  
compositions)**

*Technologies de l'information — Description de document et langages  
de traitement — Bibliothèque DSSSL pour compositions complexes*

*AMENDEMENT 3: Extensions aux compositions multilingues  
(compositions d'Asie du nord et du sud)*

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## Foreword

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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.

In exceptional circumstances, the joint technical committee may propose the publication of a Technical Report of one of the following types:

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- type 2, when the subject is still under technical development or where for any other reason there is the future but not immediate possibility of an agreement on an International Standard;
- type 3, when the joint technical committee has collected data of a different kind from that which is normally published as an International Standard ("state of the art", for example).

Technical Reports of types 1 and 2 are subject to review within three years of publication, to decide whether they can be transformed into International Standards. Technical Reports of type 3 do not necessarily have to be reviewed until the data they provide are considered to be no longer valid or useful.

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.

Amendment 3 to ISO/IEC TR 19758:2003 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 34, *Document description and processing languages*.

This amendment provides additional DSSSL library specifications for multilingual compositions. The style elements supported in this amendment are based on the requirements for North and South Asian documents.

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## Information technology — Document description and processing languages — DSSSL library for complex compositions

### AMENDMENT 3: Extensions to multilingual compositions (North and South Asian compositions)

Page 9, subclause 4.10.1.1

Replace the paragraph of 4.10.1.1 with the following:

An interlinenote is composed within a line space and at the side (upper/lower side in horizontal composition, or right side in vertical composition) of words or phrases to be noted. Character locations in a line and interlinenote in horizontal composition are illustrated in Figure 1.

NOTE 1 An interlinenote in horizontal composition may take vertically composed text, and vice versa.

NOTE 2 An interlinenote can be expressed by the flow object class interlinenote which is introduced in ISO/IEC 10179:1996/Amd.2.

Page 14, subclause 4.17.1

Add the following notes at the end of 4.17.1:

NOTE 1 Bullet items in an ordered list may take spelled-out numbers or words, not numerals. They can be expressed by characteristic of string-bullet-list in the flow object class paragraph which is introduced in ISO/IEC 10179:1996/Amd.2.

NOTE 2 To indicate the level of nesting, bullet items may be duplicated or multiplied as many times as the level of nesting, instead of having nested numbering, as shown below:

- a) item1
- b) item2
  - aa) nested item1
  - bb) nested item2
- c) item3

NOTE 3 The nested first item may be rendered just after the superior without line-breaking, as shown below:

- 1) item1 a) nested item1
- b) nested item2
- c) nested item3
- 2) item2

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Add the following subclauses before Clause 5:

#### 4.29 First paragraph identification

To indicate the beginning of an article, the entire first paragraph may have a distinct typeface or other relevant representation from the rest of the article.

#### 4.30 Paragraph separator

A special mark is located between adjacent paragraphs to emphasizing their separation. The mark of paragraph separator should be specified by its glyph identifier.

Page 36, Clause 6

Add the following specification after "(fs (assoc-value '\*footnote-style\* spec))":

```
(ins (assoc-value '*interlinenote-style* spec))
```

Add the following specification after "(add-result `(define \*footnote-exp\* ,(if fe (car fe) "[]")))":

```
(add-result `(define *footnote-exp* ,(if ins (car ins) " ")))
```

Page 39, Clause 7

Add the following specification after the specification of \*fli-paragraph-style\*:

```
(define (FIRST-ITEM-WITHOUT-LINEBREAK #!optional (snl (current-node)))
  (if (first-sibling? snl)
      (make sequence
        (literal (format-number (child-number snl) "&glyph;") " ")
        (process-children))
      (make paragraph
        start-indent: (+ (inherited-start-indent) 10pt)
        (literal (format-number (child-number snl) "&glyph;") " ")
        (process-children))))

;; 4.29 First paragraph identification
(define (FIRST-PARAGRAPH-IDENTIFICATION)
  (make paragraph
    font-family-name: (if (first-sibling? (current-node))
      "&FontName;" ;Arbitrary fontname toward first paragraph
      "&FontName;" ;Arbitrary fontname toward after second
    paragraph
  )))
; (define (FIRST-PARAGRAPH-IDENTIFICATION)
```

```

; (if (first-sibling? (current-node))
; (make paragraph
; ;; first paragraph characteristic
; ;; ...
; )
; (make paragraph
; ;; other paragraphs characteristic
; ;; ...
; )))

;; 4.30 Paragraph separator
(define (PARAGRAPH-SEPARATOR)
  (make display-group
    (make leader (literal "&glyph;"))
    (make paragraph (process-children))
    (make leader (literal "&glyph;"))))

```

**Page 42, Clause 7**

Add the following specification after the specification of LIST-ELEMENT:

```

;; 4.17.1 Ordered list
(define (NESTED-NUMBERING element-name #!optional (snl (current-node)))
  (let* ((numl (hierarchical-number-recursive element-name snl)) ; number list
        (len (length numl))
        (num (child-number snl)))
    (make paragraph
      start-indent: (+ (inherited-start-indent) 10pt)
      (literal
        (let loop ((i len))
          (if (<= 0 i)
              (string-append (format-number num "&glyph;") (loop (- i 1)))
              ""))
        ") ")
      (process-children))))

;; 4.17.1 Ordered list with string bullet item
(define (STRING-BULLET-ELEMENT)
  (make paragraph
    use: *paragraph-style*
    ;;string-bullet-list: '(list("one" "two" "\"three\"" "four")).
    (process-children-trim)))

```

**Page 49, Clause 8**

Add the following specification after the specification of FOOTNOTE:

```

;; 4.10.1.1 Interlinenote
(define (INTERLINENOTE)
  (let ((factor (if (null? f) *superscript-font-size-factor* (car f))))
    (make interlinenote
      font-size: (* (inherited-font-size) factor)
      ;;writing-mode:
      ;;position:
      ;;note-width:
      ;;note-height:
      (process-children))))

```