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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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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

Page 24

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* ((num1 (hierarchical-number-recursive element-name snl)) ; number list
        (len (length num1))
        (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))))

```