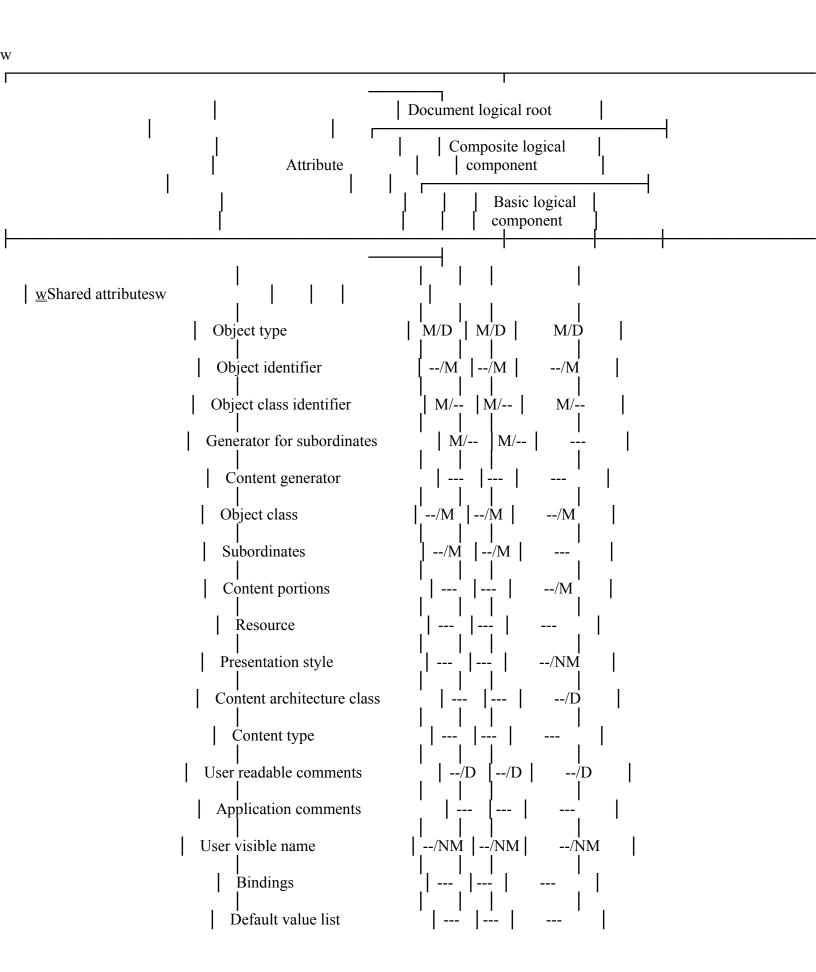
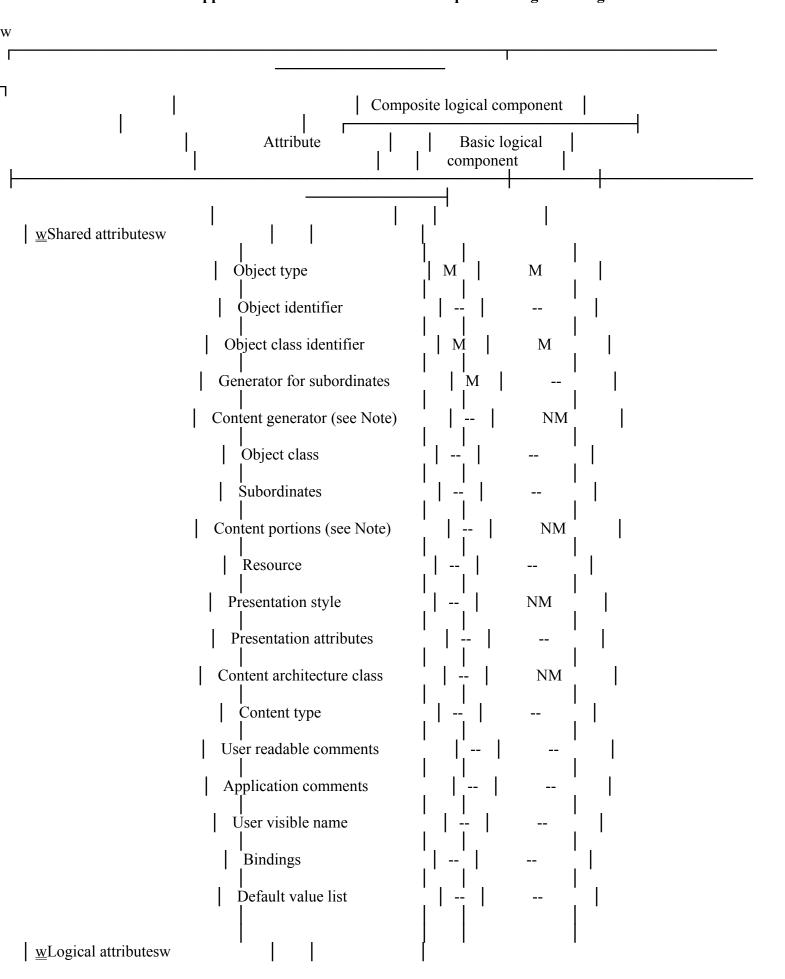
Attributes applicable to the "body" part of the generic logical structure and the specific logical structure



<u>w</u> Logical attributesw			
	Protection		
ı	Layout style		
•			

Attributes applicable to the "header and footer" part of the generic logical structure



Protection		1	 I	ľ
Layout style			NM I	
Layout directives	-	-	' 	

Note - Each basic logical object class in the "header and footer" part must reference a generic content portion or contain the attribute "content generator".

Table 3/T.502 specifies attribute values allowed in logical object class descriptions representing the "body" part of the generic logical structure. Table 4/T.502 specifies attribute values allowed in logical object class descriptions representing the "header and footer" part of the generic logical structure.

TABLE 3/T.502 Attribute values allowed for to objet classes in the "body" part of the generic logical structure

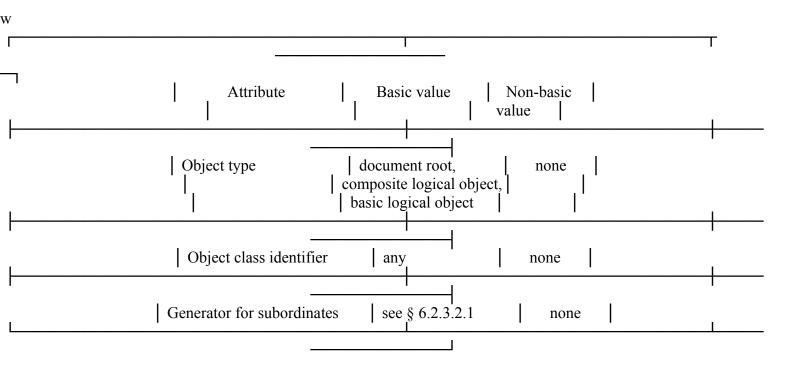
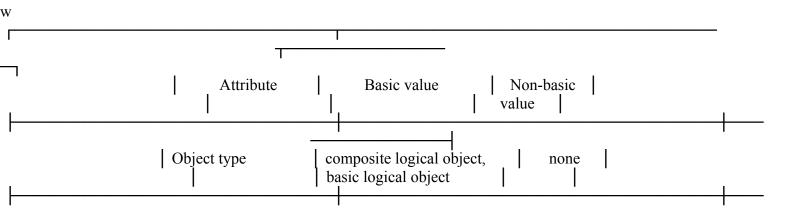
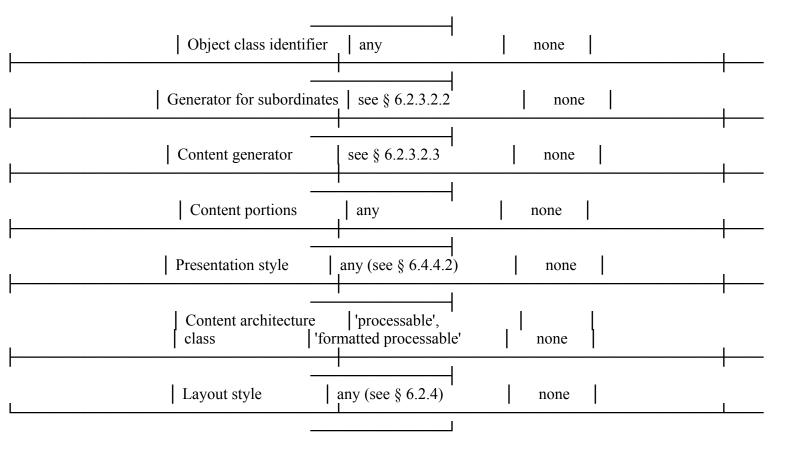


TABLE 4/T.502

Attribute values allowed for object classes in the "header and footer" part of the generic logical structure





document logical root class: REP ({GroupOfParagraphsObjClassId}) composite logical object class: REP ({ParagraphObjClassId}) where 'GroupOfParagraphsObjClassId' is the object class identifier of the composite logical object class that represents a group of "paragraphs" and 'ParagraphObjClassId' is the object class identifier of the basic logical object class that represents a "paragraph". 6.2.3.2.2 In the "header and footer" part of the generic logical structure, the allowable format of the attribute "generator for subordinates" for the composite logical object classes of the types "header root" and "footer root" is: SEQ ({BasicObjectClassId} ...) where 'BasicObjectClassId' is the object class identifier of any basic logical object class of the type "header text" and "footer text". Note - A basic logical object class in the header and footer part may be referenced by more than one "header root" and by more than one "footer root". 6.2.3.2.3 The allowable formats of the attribute "content generator" is specified by the following production rule: <string expression> ::= [<string expression 1>]{<string expression 2>} [<string expression 3>] ::= "<character string>" <string expression 1> <string expression 3> ::= "<character string>" <string expression 2> ::= MAKE-STRING (<numeric expression>) /UPPER-ALPHA (<numeric expression>) /LOWER-ALPHA (<numeric expression>) /UPPER-ROMAN (<numeric expression>) /LOWER-ROMAN (<numeric expression>) <numeric expression> ::= BINDING REFERENCE (<binding selection function>, 'PGnum') <binding selection</p> function> ::= SUPERIOR (CURRENT-INSTANCE (FRAME, CURRENT-OBJECT)

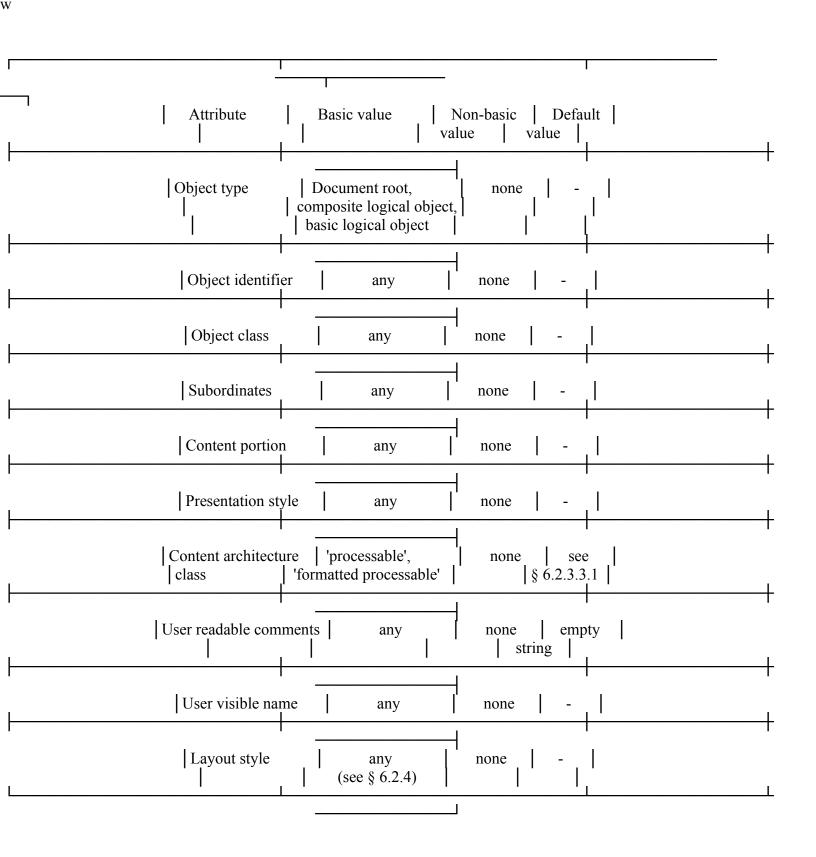
In the "body" part of the generic structure, the attribute "generator" for subordinates has the following values:

6.2.3.3 Specifications of attributes for logical object descriptions

Table 5/T.502 specifies the attribute values allowed in logical object descriptions.

6.2.3.2.1

Attribute values allowed for objects in the specific logical structure



6.2.3.3.1 For processable form documents, the default value of the attribute "content architecture class" is 'processable'; for formatted processable form documents, the default value is 'formatted processable'. As these are a non-standard default values, their use must be indicated in the document profile. The value of this attribute is an ASN.1 object identifier whose values are defined in Recommendation T.416.

6.2.4 Layout styles

6.2.4.1 Applicability of layout style attributes

Table 6/T.502 defines the layout style attributes that may be specified in layout styles that are referenced by logical object classes in the "body" part of the specific logical structure.

Layout style attributes applicable to the "body" part of the specific logical structure

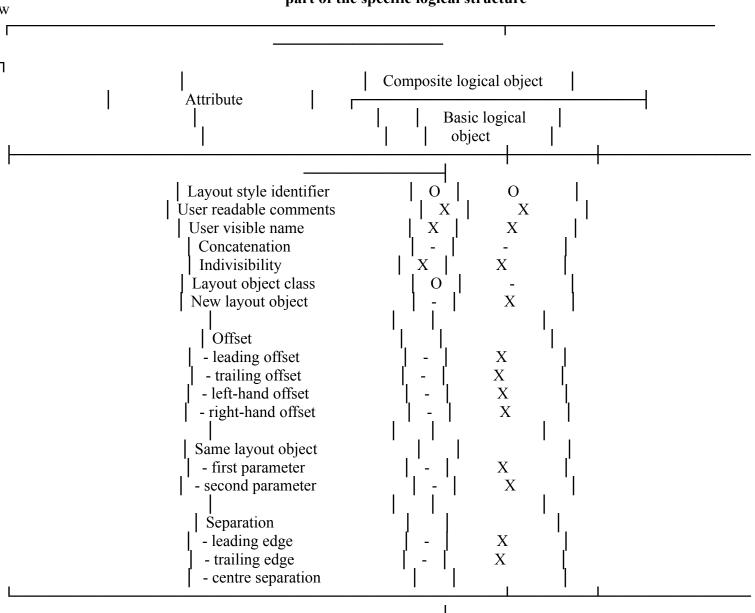
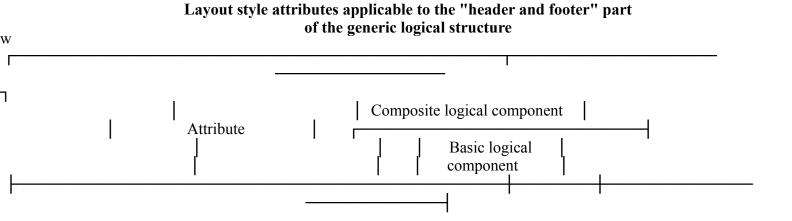


Table 7/T.502 defines the layout style attributes applicable to the "header and footer" part of the generic logical structure.

TABLE 7/T.502

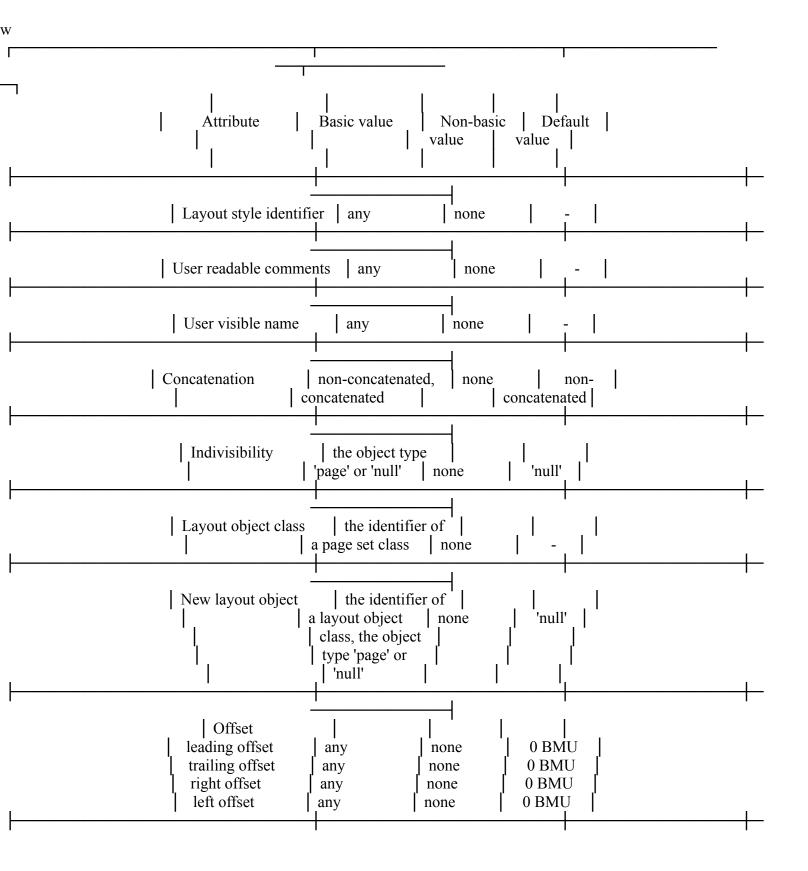


Layout style identifier User readable comments User visible name Concatenation Indivisibility Layout object class New layout object	- - - - -	O X X X - -		
Offset - leading offset - trailing offset - left-hand offset - right-hand offset	' ' - - -	X X X X	' 	
Same layout object - first parameter - second parameter Separation - leading edge - trailing edge - centre separation		X X	' 	

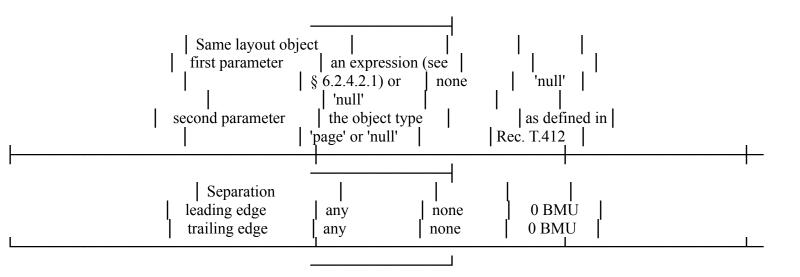
Table 8/T.502 specifies attribute values allowed in layout style.

TABLE 8/T.502

Values allowed for layout style attributes



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6.2.4.2.1 The attribute "same layout object" may contain the following expression: (PREC-OBJ(CURR- OBJ)), which indicates that the basic logical object is to be laid out in the same layout object as the immediately preceding basic logical object. No other expression is allowed.

6.3 Layout structure

6.3.1 The generic layout structures

A 'complete' and a 'partial' generic layout structure are defined in this document application profile. The 'complete' generic layout structure is present in processable and formatted processable documents and defines all possible specific layout structures that may be created as a result of the document layout process.

The 'partial' generic layout structure may only be used in formatted form documents. It is used only to provide predefined attribute values and content portions for layout objects in the specific layout structure (i.e. factorization).

6.3.1.1 The 'complete' generic layout structure

A general description of the permissible document layout structure is given in § 5.3.1. In order to represent these structures, the generic layout structure consists of four hierarchical levels, each of which must always be present:

- the document layout root;
- the page set level (one level only);
- the page level;
- the frame level (one level only).

The document layout root consists of one or more subordinate page sets, where the number of page sets is unrestricted. Each page set may consist of a sequence of one or more subordinate pages in accordance with the specification given in § 5.3.1.

Each of these pages may contain one, two or three subordinate frames that are used to represent the header, body and footer area as described in § 5.3.2. The body area frame is mandatory, whereas the header and footer frames are optional. These frames any or may not be adjacent to one another but they must not overlap.

The layout path is always 270 degrees for each frame and it is not possible to alter this value. The attribute "medium type" specifies the size of the nominal page corresponding to each layout object of the type page and specifies whether the nominal page is to be in portrait or landscape orientation.

Content in the specific logical structure is laid out in the body frames; this content cannot be laid out in the header or footer frames. The header and footer frames, if present, must contain the attribute "logical source" which indicates the appropriate generic logical object class that contains the content to be laid out in those frames.

The 'complete' generic layout structure may vary in accordance with the layout requirements of each particular document. In a particular 'complete' generic layout structure, the value of the attribute "generator for subordinates" in the document layout root, in each page set and in each page define the allowable specific layout structures for that particular document. The ranges of all possible values of the attribute "generator for subordinates" at each of the hierarchical levels in the 'complete' generic layout structure are defined formally in § 6.3.3.2.1.

This definition, in effect, defines all possible generic layout structures that are allowed by PM1. These structures are illustrated in Figures 8/T.502 and 9/T.502. Figure 9/T.502 shows the five ways in which pages within a page set can be specified, in accordance with § 5.3.1.

FIGURE 8/T.502

Example of a particular generic layout structure

FIGURE 9/T.502

Illustration of the possible page set classes

6.3.1.2 The 'partial' generic layout structure

The 'partial' generic layout structure may consist of the following object classes:

- the document layout root class;
- page set classes;
- page classes;
- frame classes.

All these classes are optional; each type of class may occur one or more times within a particular document, except the document layout root class, which may only occur one. The document layout root, each page set class and each page class may or may not reference other object classes in the 'partial' generic layout structure by means of the attribute "generator for subordinates".

6.3.2 The specific layout structure

In the case of a formatted processable document, the specific layout structure present in a document must comply with the particular generic layout structure present in that document.

In the case of formatted documents, no 'complete' generic layout structure is present but the specific structure must comply with an allowable 'complete' generic layout structure, as defined in § 6.3.2.1. If a 'partial' generic layout structure is present, then the objects in the specific layout structure may or may not refer to objects in that generic layout structure.

The following additional restrictions are also applicable to the specific layout structure:

- each frame must contain one or more subordinate blocks;
- each block must reference only one content portion.

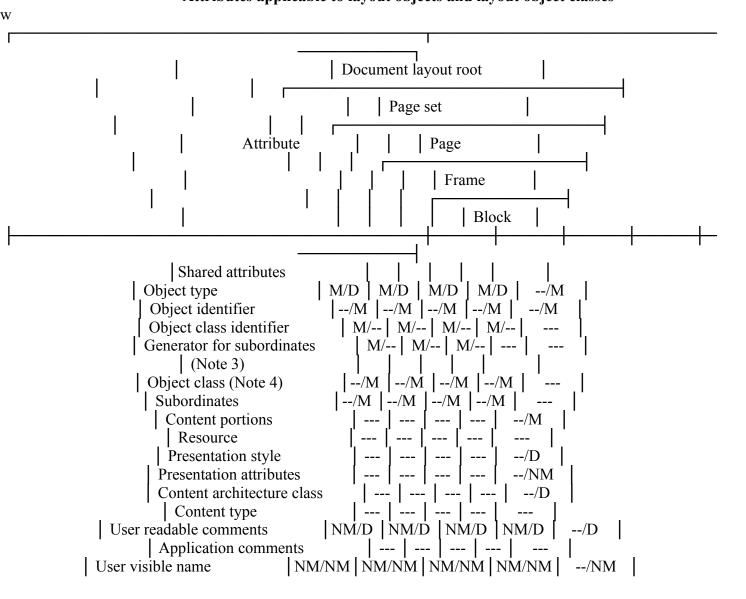
6.3.3. Attributes of layout components

6.3.3.1 Attributes application to layout component descriptions

Table 9/T.502 defines the attributes applicable to layout components.

TABLE 9/T.502

Attributes applicable to layout objects and layout object classes



Fascicle VII.7 - Rec. T.502

Bindings Default value list Layout attributes Position (Note 2)	NM/- NM/- NM/-
Dimension (Note 2)	NM/D NM/D /D
Layout texture Border Balance Layout path Logical source (Note 1) Permitted categories Imaging order Page position Medium type	

- Note 1 The attribute logical source is only applicable to frame classes of the type "header frame" and "footer frame".
- Note 2 For the attribute "dimension" and "position", only the subparameters "fixed dimension" and "fixed position" respectively, may be specified.
- Note 3 The attribute "generator for subordinates" is non-mandatory for layout object classes in a formatted form document.
- Note 4 The attribute "object class" is non-mandatory for layout objects in a formatted form document.
- 6.3.3.2 Specification of attribute for layout object class descriptions

Table 10/T.502 specifies the attribute values allowed in layout component descriptions.

 $TABLE\ 10/T.502$ Attribute values allowed for objects in the generic layout structure

