the presentation attribute "Content architecture class". In the case of the attribute "Dimensions", the non-standard default value applies only to the attribute "Dimension" that is applicable to layout object of the type 'page'. It should be noted that the default value for "Dimensions" specified in § 6.3.3.3 is a non-standard default value and the use of this default value must be indicated in the document application profile.

In the case of the presentation attribute "Content architecture class", the non-standard default values that can be specified are 'processable' and 'formatted processable'. One of these values must be indicated in the document profile when the default value for the presentation attribute "content architecture class" is not 'formatted'.

6.5.3The value of the attribute "content architecture classes" is a set of one or more values, each of which is an ASN.1 object identifier. These object identifiers are defined in Recommendation T.416.

6.5.4The value of the attribute "ODA version date" consists of two parameters (see Recommendation T.414). In respect to this document application profile, the value of the first parameter is the character string "T.410" and the value of the second parameter is the date "1988" represented in accordance with ISO 8601.

6.5.5The attribute "page dimensions" must be specified when the page dimensions used in the document exceed the basic values defined in Tables 10/T.502 and 11/T.502.

6.5.6If no value is specified for the attribute "medium type", the it is assumed that ISO A4 paper size (portrait orientation) is to be used throughout the document.

_ attribute defined in Recommendation T.414 may be specified	_	_	_

6.5.1The value of the attribute "Document application profile" is:

{0 0 20 502 0}

Table 21/T.502 defines the applicability of attributes in the document profile and their allowable values. The use of these attributes must conform to Recommendation T.414.

TABLE 21/T.502

Applicability of and allowed values of document profile attributes

w

Attribute	Applicability	Basic value
Presence of document constituents		
Generic layout structure	NM	'partial', 'present'
Specific layout structure	NM	'present'
Generic logical structure	NM	'partial', 'present'
Specific logical structure	NM	'present'
Layout styles	NM	'present'
Presentation style	NM	'present'
Document characteristics		
Document application profile	M	see § 6.5.1
Document application profile defaults		
Document architecture defaults		
Content architecture class	NM	
Dimensions	M	see § 6.5.2
Character content defaults		
Graphic character subrepertoire	M	'3'
Document architecture class	M	'formatted', 'processable' 'formatted processable'
Content architecture class	M	see § 6.5.3
Interchange format class	M	'A'
ODA version date	M	see § 6.5.4
Non-basic document characteristics		
Profile character sets	NM	any
Comments character sets	NM	any
Document constituent attributes		
Page dimensions	NM	see § 6.5.5
Medium types	NM	see § 6.5.6
Presentation attributes	NM	any (see Table 14/T.502)
Document management attributes		
Document reference	M	

Note 2 – This attribute is only applicable to content associated with layout components.

6.4.6.2Specification content portion attribute values

Table 20/T.502 specifies the permissible content portion attribute values for PM1.

TABLE 20/T.502

Attribute values for content portions

w

Attribute	Basic value	Non-basic value
Content identifier-layout	any	–
Content identifier-logical	any	–
Content information	octet string	–

6.4.5.2.1Shared control functions

Carriage return (CR)
Line feed (LF)
Partial line down (PLD)
Partial line up (PLU)
Space (SP)
Substitute character (SUB)

6.4.5.2.2Logical control functions

Break permitted here (BPH)
No break here (NBH)

6.4.5.2.3Layout control functions

No justify (JFY)

6.4.5.2.4Delimiters

Start of string (SOS)
End of string (ST)

6.4.5.2.5Code extension control functions

Any code extension control function defined in ISO 2022 is permitted.

6.4.6Attributes of content portions

6.4.6.1Applicability of content portion attributes

The applicability of content portion attributes is defined in Table 19/T.502; this table applies to both logical and layout components.

TABLE 19/T.502

Attributes applicable to content portions

Attribute	Basic component
Content identifier-logical (Note 1)	M/M
Content identifier-layout (Note 2)	--/M
Type of coding	----
Content information	NM/NM

Note 1 - This attribute is only applicable to content associated with logical components.

Select character spacing (SHS)	0	1, 2, 3	0	
Select graphic rendition (SGR)	0, 1, 3, 4 22, 23, 24	9, 29	0	
Select line spacing (SVS)	0, 1, 2, 3	4	0	

TABLE 16/T.502

Allowed values for logical presentation attributes

Attribute	Basic value	Non-basic value	Default value
Indentation	any	none	0 BMU
Orphan size	any	none	'1'
Widow size	any	none	'1'

6.4.4.4.3Layout presentation attributes (see Table 17/T.502)

TABLE 17/T.502

Allowed values for layout presentation attributes

Attribute	Basic value	Non-basic value	Default value
Initial offset	any	none	As defined in Recommendation T.416

6.4.5Control functions

Control functions are classified as 'shared', 'logical' and 'layout'. Shared control functions are applicable to all three character content architectures listed in § 6.4.1. Logical control functions are applicable to the processable and the formatted processable content architecture levels and layout control functions are applicable to the formatted and formatted processable character content architecture levels.

Paragraphs 6.4.5.1 and 6.4.5.2 define the applicability of control functions for PM1; control functions that are not listed here are not applicable.

6.4.5.1Control functions with parameters

The functions enumerated in Table 18/T.502 are all shared control functions.

TABLE 18/T.502

Allowable values for shared control functions

Control function	Basic value	Non-basic value	Default value
Selective tabulation (STAB)	any	none	none

	Recommendation T.416	character set	T.416
Graphic character subrepertoire	subrepertoire of ISO 6937/2 corresponding to Recommendation T.61	any other registered graphic character set	as defined in Recommendation T.416
Graphic rendition	0, 1, 3, 4, 22, 23, 24	9, 29	0
Line layout table	any, as defined in Recommendation T.416	none	no tabulation stops specified
Line spacing	100, 200, 300, 400 BMU	150 BMU	200 BMU

TABLE 14/T.502

Attribute values allowed for presentation style attributes

Attribute	Basic value	Non-basic value
Presentation style identifier	any	none
User readable comments	any	none
User visible name	any	none
Presentation attributes	see § 6.4.4.3	

6.4.4.4Presentation attribute values

6.4.4.4.1Shared presentation attributes (see Table 15/T.502)

TABLE 15/T.502

Allowed values for shared presentation attributes

Attribute	Basic value	Non-basic value	Default value
Alignment	start-aligned end-aligned centred justified	none	start-aligned
Character spacing	120 BMU	80 BMU 100 BMU 200 BMU	120 BMU
Code extension announcers	the default value defined in Recommendation T.416	any string of escape sequences in accordance with ISO 2022	as defined in Recommendation T.416
Itemization	1) no itemization start-aligned end-aligned 2) any integer 3) any integer	none none none	as defined in Recommendation T.416
First line format	any integer	none	0
Graphic	the default value	any other regis-	as defined in

Kerning offset		--
Line layout table		D
Line progression		--
Line spacing		D
Formatting indicator		--
Initial offset		D
Indentation		D
Orphan size		D
Pairwise kerning		--
Widow size		D

values.

Presentation attributes are classified as 'shared', 'logical' and 'layout'. Shared attributes are applicable to all three character content architectures listed in § 6.4.1. Logical attributes are applicable to the processable and the formatted processable content architecture levels and layout attributes are applicable to the formatted and formatted processable character content architecture levels.

If an attribute is specified as not-applicable (N/A), then it is not allowed to occur in component descriptions or in presentation styles. The default values for non-applicable attributes are assumed to be those defined in Recommendation T.416.

6.4.4.1Applicability of presentation style attributes (see Table 12/T.502)

TABLE 12/T.502

Attributes applicable to presentation style

Attribute	Applicability
Presentation style identifier	M
User readable comments	NM
User visible name	NM
Presentation attributes	NM (see § 6.4.4.2)

6.4.4.2Applicability of presentation attributes (see Table 13/T.502)

TABLE 13/T.502

Applicability of presentation attributes

Presentation attribute	Applicability
Alignment	D
Character fonts	--
Character orientation	--
Character path	--
Character spacing	D
Code extension announcers	D
First line offset	D
Graphic character sets	D
Graphic character subrepertoire	D
Graphic rendition	D

basic feature (and their use indicated in the document profile).

6.4.3Type of coding

The coding of the graphic characters and control functions is as specified in Recommendation T.61 (or ISO 6937). No other type of coding may be used.

6.4.4Presentation attributes

Paragraphs 6.4.4.1 and 6.4.4.2 define respectively the applicability of presentation style attributes and presentation attributes for PM1.

Attribute	Basic value	Non-basic value	Default value
		Portrait (NAL) x 10200 BMU y 13200 BMU Landscape (NAL) x 13200 BMU y 10200 BMU Portrait (ISO A3) x 14030 BMU y 19840 BMU Landscape (ISO A3) x 19840 BMU y 14030 BMU	
Page position	Any	None	Such that edge losses are minimized
Medium type nominal page size (see § 6.3.3.2.3)	ISO A4, NAL	ISO A3	ISO A4 (portrait orientation)
side of sheet	'recto', 'verso', 'unspecified'	None	'unspecified'
Layout path	270 degrees	None	270 degrees

6.3.3.3.1The default value for the dimensions of a layout object are independent of the medium type specified. For example, if "medium type" specifies ISO A3, then the default value of the attribute "dimensions" remains as given in the above table.

6.4Content architectures

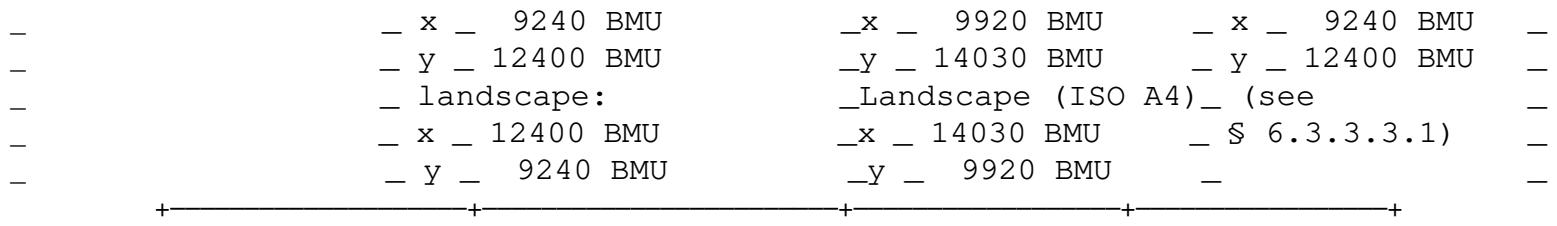
6.4.1Content architecture levels

Three character content architecture levels are defined in this document application profile, namely:

- a formatted character content architecture level;
- a processable form content architecture level;
- a formatted processable character content architecture level.

6.4.2Graphic elements

The basic character set is the subrepertoire of ISO 6937/2 corresponding to



identifier 'PGnum' to zero or to a positive integer in the document layout root class description or in a page set class description. This binding value can be set and re-set in any page set class description in order to alter the page numbering throughout the document.

6.3.3.2.3The attribute 'medium type' can specify page sizes in either recto or verso format for the page sizes indicated (see Recommendation T.412 for specification of the page sizes).

6.3.3.3Specification of attributes for layout object descriptions

Table 11/T.502 specifies the attribute values allowed in layout object descriptions.

TABLE 11/T.502

Attribute values allowed for objects in the specific layout structure

Attribute	Basic value	Non-basic value	Default value
Object type	document layout root, page set, page, frame, block	none	-
Object identifier	any	none	-
Object class	any	none	-
Subordinates	any	none	-
Content portion	any	none	-
Presentation style	any	none	-
Content architecture class	'formatted' 'formatted processable'	none	'formatted'
Presentation attributes	see § 6.4.4 for allowable attributes	none	-
User readable comments	any	none	empty string
User visible name	any	none	-
Position	Frame: any value within a page, block: any value within a frame	none	horizontal = 0 vertical = 0

Expressions in binding values are evaluated during the document layout process and therefore the attribute "bindings" is not specified for layout objects.

in the generic layout structure:

For the document layout root class level:

<construction expression>::=<single term construction>
<single term construction>::=REP (<construction factor>)
<construction factor>::=CHO (<term sequence>)
<term sequence>::={<construction term>}...
<construction term>::=PageSetClassId

where PageSetClassId is the identifier of a particular page set class.

For the page set class level:
<construction expression>::=<construction term A>
/<construction term B>
/<construction term C>
/<construction term D>
/<construction term E>
<construction term A>::=PageClassId1
<construction term B>::=REP PageClassId1
<construction term C>::=REP SEQ(PageClass1Id1,
OPT PageClassId2)
<construction term D>::=SEQ(InitialPageClassId,
OPT REP PageClassId1)
<construction term E>::=SEQ(InitialPageClassId,
OPT REP SEQ(PageClassId1, OPT PageClassId2))

InitialPageClassId, PageClassId1 and PageClassId2 are page class identifiers defined by the document originator. PageClassId1 and PageClassId2 are differentiated in order to distinguish between pages which are specified as being 'recto' and 'verso' with the same page set definition. However, it should be noted that any page class within the generic layout structure may be set to 'recto' or 'verso'.

For the page class level:

<construction expression>::=SEQ (<term-sequence>)
<term-sequence>::=[<construction term A>]
{<construction term B>}
[<construction term C>]
<construction term A>::=HeaderFrameClassId
<construction term B>::=BodyFrameClassId
<construction term C>::=FooterFrameClassId

HeaderFrameClassId, BodyFrameClassId and FooterFrameClassId are the identifiers of header, body and footer frames respectively, as defined by the document originator.

6.3.3.2.2The following production rule defines all possible values of the attribute "bindings" contained in the document layout root class, the page-set and the page class descriptions:

binding pair ::= <binding identifier><binding value>
<binding identifier>::='PGnum'
<binding value>::=<cardinal expression>

where, in the case of the document layout root class and page set classes,

<cardinal expression>::=-- any non-negative integer
and in the case of page classes:
<cardinal expression>::=INC(B-REF(PREC(CURR-OBJ))('PGnum')