

ANNEX A

(to Recommendation T.416)

Summary of content architecture classes

(Informative)

This Annex summarizes the present attributes and control functions that apply to each of the three content architecture classes (formatted, processable and formatted processable) defined in section 14, together with their permissible values and default values.

The purpose of this Annex is to facilitate the definition of content architecture levels for use in document application profiles (see Recommendation T.411).

Attribute	Permissible values	Default value
alignment	start aligned end aligned centred justified	start aligned
character fonts	1) any positive integer 2) any positive integer	none none
character orientation	0, 90, 180, 270 degrees	0 degrees
character path	0, 90, 180, 270 degrees	0 degrees
character spacing	any positive integer	equivalent of 120 BMUs
code extension announcers	any string of escape sequences in accordance with ISO 2022	escape sequences for G0 and G2 sets
first line offset	any integer	0
formatting indicator	no, yes	no
graphic character sets	the escape sequences to designate, and any required locking shift functions to invoke, one or more registered graphic character sets	the escape sequences to designate, and the locking shift functions to invoke, the graphic character sets of ISO 6937-2
graphic character subrepertoire registered subrepertoire of	0 or the identifier of any ISO 6937	0
graphic rendition	0, 1-7, 9, 10-19, 21-27,	0

initial offset

1) any non-negative integer

see Table 2/T.416

2) any non-negative integer

see Table 2/T.416

itemization

1) no itemization
start-aligned
end-aligned

no itemization

2) any integer

the distance from the
start edge of the
positioning area to the
line home position

3) any integer

0

Attribute	Permissible values	Default value
kerning offset	1) any non-negative integer 2) any non-negative integer	0 0
line layout table	1) any 2) any 3) start-aligned end-aligned centred aligned-around 4) any	⌌ ⌌ No tabulation stops defined ⌌
line progression	90, 270 degrees	270 degrees
line spacing	any positive integer	equivalent of 200 BMUs

A.1.2 wControl functionsw

Control function	Permissible value(s)	Default value(s)
BS	not applicable	not applicable
CR	not applicable	not applicable
GCC	0, 1, 2	0
HPB	any positive integer	equivalent of 120 BMUs
HPR	any positive integer	equivalent of 120 BMUs
IGS	0 or the identifier of any registered subrepertoire of ISO 6937	0

	JFY	0	0	
	LF	not applicable	not applicable	
	PLD	not applicable	not applicable	
	PLU	not applicable	not applicable	
	SACS	any positive integer	0	
	SCS	any positive integer	equivalent of 120 MBUs	
	SGR	0, 1-7, 9, 10-19, 21-27, 29, 50	0	
	SHS	0, 1, 2, 3	0	

Control function	Permissible value(s)	Default value(s)
SLS	any positive integer	equivalent of 200 MBUs
SP	not applicable	not applicable
SRCS	any positive integer	0
SRS	0, 1	0
SSW	any positive integer	none
STAB	any	none
SUB	not applicable	not applicable
SVS	0, 1, 2, 3, 4, 9	0
VPB	any positive integer	equivalent of 100 BMUs
VPR	any positive integer	equivalent of 100 BMUs

In addition, any code extension control function defined in ISO 2022, within the scope of the value of the attribute "code extension announcers", is permitted.

A.2 Processable character content architecture class

A.2.1 Presentation attributes

w

Attribute	Permissible values	Default value
alignment	start aligned end aligned centred	start aligned

	justified		
character fonts	1) any positive integer	none	
	2) any positive integer	none	
character orientation	0, 90, 180, 270 degrees	0 degrees	
character path	0, 90, 180, 270 degrees	0 degrees	
character spacing	any positive integer	equivalent of 120 BMUs	
code extension announcers	any string of escape sequences in accordance with ISO 2022	escape sequences for G0 and G2 sets	
first line offset	any integer	0	

Attribute	Permissible values	Default value
graphic character sets	the escape sequences to designate, and any required locking shift functions to invoke, one or more registered graphic character sets	the escape sequences to designate, and the locking shift functions to invoke, the graphic character sets of ISO 6937-2
graphic character subrepertoire	0 or the identifier of any registered subrepertoire of ISO 6937	0
graphic rendition	0, 1-7, 9, 10-19, 21-27, 29, 50	0
indentation	any non-negative integer	0
itemization	1) no itemization start-aligned end-aligned 2) any integer 3) any integer	no itemization the distance from the start edge of the positioning area to the line home position 0
kerning offset	1) any non-negative integer 2) any non-negative integer	0 0
line layout table	1) any 2) any 3) start-aligned end-aligned centred aligned-around 4) any	none none start-aligned none
line progression	90, 270 degrees	270 degrees
line spacing	any positive integer	equivalent of 200 BMUs
orphan size	any positive integer	1

pairwise kerning	yes, no	no	
proportional line spacing	yes, no	no	
widow size	any positive integer	1	

Control function	Permissible value(s)	Default value(s)
BPH	not applicable	not applicable
CR	not applicable	not applicable
GCC	0, 1, 2	0
IGS registered subrepertoire of	0, or the identifier of any ISO 6937	0
LF	not applicable	not applicable
NBH	not applicable	not applicable
SCS	not positive integer	equivalent of 120 BMUs
SGR	0, 1-7, 9, 10-19, 21-27, 29, 50	0
SHS	0, 1, 2, 3	0
SLS	any positive integer	equivalent of 200 BMUs
SP	not applicable	not applicable
SRS	0, 1	0
STAB	any	none
SUB	not applicable	not applicable
SVS	0, 1, 2, 3, 4, 9	0

VPB	any positive integer	equivalent of 100 BMUs
VPR	any positive integer	equivalent of 100 BMUs

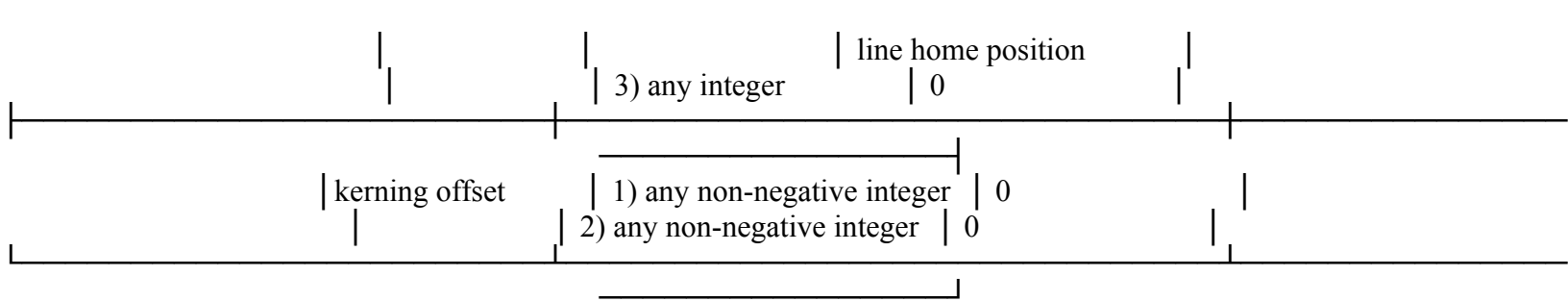
In addition, any code extension control function defined in ISO 2022, within the scope of the value of the attribute "code extension announcers", is permitted.

A.3 Formatted processable character content architecture class

A.3.1 Presentation attributes

Attribute	Permissible values	Default value
alignment	<ul style="list-style-type: none"> start aligned end aligned centred justified 	start aligned
character fonts	<ul style="list-style-type: none"> 1) any positive integer 2) any positive integer 	<ul style="list-style-type: none"> none none

Attribute	Permissible values	Default value
character orientation	0, 90, 180, 270 degrees	0 degrees
character path	0, 90, 180, 270 degrees	0 degrees
character spacing	any positive integer	equivalent of 120 BMUs
code extension announcers	any string of escape sequences in accordance with ISO 2022	escape sequences for G0 and G2 sets
first line offset	any integer	0
formatting indicator	no, yes	no
graphic character sets	the escape sequences to designate, and any required locking shift functions to invoke, one or more registered graphic characters	the escape sequences to designate, and the locking shift functions to invoke, the graphic character sets of ISO 6937-2
graphic character subrepertoire	0 or the identifier of any registered subrepertoire of ISO 6937	0
graphic rendition	0, 1-7, 9, 10-19, 21-27, 29, 50	0
initial offset	1) any non-negative integer 2) any non-negative integer	see Table 2/T.416 see Table 2/T.416
indentation	any non-negative integer	0
itemization	1) no itemization start-aligned end-aligned 2) any integer	no itemization the distance from the start edge of the positioning area to the



Attribute	Permissible values	Default value
line layout table	1) any 2) any 3) start-aligned end-aligned centred aligned-around 4) any	none none start-aligned none
line progression	90, 270 degrees	270 degrees
line spacing	any positive integer	equivalent of 200 BMUs
orphan size	any positive integer	1
pairwise kerning	yes, no	no
proportional line spacing	yes, no	no
widow size	any positive integer	1

A.3.2 wControl functions

Control function	Permissible value(s)	Default value(s)
BPH	not applicable	not applicable
BS	not applicable	not applicable
CR	not applicable	not applicable
GCC	0, 1, 2	0

HPB	any positive integer	equivalent of 120 BMUs
HPR	any positive integer	equivalent of 120 BMUs
IGS	0 or the identifier of any registered sub-repertoire of ISO 6937	0
JFY	0	0
LF	not applicable	not applicable
NBH	not applicable	not applicable
PLD	not applicable	not applicable

Control function	Permissible value(s)	Default value(s)
PLU	not applicable	not applicable
PTX	0, 1, 3	0
SACS	any positive integer	0
SCS	any positive integer	equivalent of 120 MBUs
SGR	0, 1-7, 9, 10-19, 21-27, 29, 50	0
SHS	0, 1, 2, 3	0
SLS	any positive integer	equivalent of 200 BMUs
SOS	not applicable	not applicable
SP	not applicable	not applicable
SRCS	any positive integer	0
SRS	0, 1	0
SSW	any positive integer	none
ST	not applicable	not applicable
STAB	any	none
SUB	not applicable	not applicable
SVS	0, 1, 2, 3, 4, 9	0

VPB	any positive integer	equivalent of 100 BMUs	
VPR	any positive integer	equivalent of 100 BMUs	

In addition, any code extension control function defined in ISO 2022, within the scope of the value of the attribute "code extension announcers", is permitted.

ANNEXE B

(to Recommendation T.416)

Character content architecture levels

(Informative)

The content of this Annex is for information only and may be included in a future register of character content architecture levels and will then be deleted from this Recommendation.

This Annex contains the definitions of nine character content architecture levels for use in document application profiles. These have been defined in accordance with the rules contained in Recommendation T.411.

The content architecture levels defined in this section are listed below. They are grouped into four formatted content architecture levels (CF), three processable content architecture levels (CP) and two formatted processable content architecture levels (CFP):

- CF-0: This content architecture is functionally equivalent to Telex (CCITT ITA2);
- CF-1: This content architecture is functionally equivalent to conventional implementations of Recommendation T.50;
- CF-2: This content architecture is functionally equivalent to Teletex (Recommendation T.61);
- CF-3: This content architecture is an enhanced formatted form architecture which does not correspond to any existing standard and which incorporates all the features defined for its class;
- CP-0: This content architecture is functional equivalent to Recommendation X.420 (1984) - Simple formattable documents;
- CP-2: This content architecture is a processable form architecture that functionally corresponds to the formatted content architecture CF-2;
- CP-3: This content architecture is a processable form content architecture which does not correspond to any existing standard and which incorporates all the features defined for its class;
- CFP-2: This content architecture is the formatted processable form architecture which corresponds to the formatted form content architecture CF-2 and the processable form content architecture CP-2;
- CFP-3: This content architecture is a formatted processable form content architecture which does not correspond to any existing standard and which incorporates all the features defined for its class.

CF-0 is a subset of CF-1, which is a subset of CF-2, which in turn is a subset of CF-3.

CP-0 is a subset of CP-2, which in turn is a subset of CP-3.

CF-2 and CP-2 are subsets of CFP-2, which is a subset of CFP-3.

CF-3 and CP-3 are subsets of CFP-3.

B.1 Character content architecture level CF-0

B.1.1 Type

CF-0 is a character content architecture level pertaining to the formatted character content architecture class.

B.1.2 Presentation attributes

None are permitted to be specified.

It is assumed that all presentation attributes that are applicable to formatted character content architectures have values equal to the default values specified in this Recommendation except:

- "graphic character set": default value is the primary character set of ISO 6937-2;
- "graphic character subreertoire": default value is the minimum subreertoire of ISO 6937-2.

B.1.3 Control functions

w

	Control function	Basic value(s)	Non-basic value(s)
	CR	not applicable	not applicable
	LF	not applicable	not applicable
	SP	not applicable	not applicable

B.2 Character content architecture level CF-1

B.2.1 Type

CF-1 is a character content architecture level pertaining to the formatted character content architecture class.

B.2.2 Presentation attributes

w

	Presentation attribute	Basic value(s)	Non-basic value(s)
	code extension announcers	any string of escape sequences in accordance with ISO 2022	none
	graphic character sets	the escape sequences to designate, and the locking of shift functions to invoke, the primary graphic character set of ISO 6937-2	the escape sequences to designate, and any required locking shift functions to invoke, any other registered graphic character sets
	graphic character subrepertoire	0	the identifier of any registered subrepertoire of ISO 6937

The default value of these presentation attributes is as specified in Recommendation T.416.

It is assumed that all presentation attributes that are applicable to formatted character content architectures, and that are

not specified in the above, have values equal to the default values specified in this Recommendation.

B.2.3 Control functions

w

	Control function	Basic value(s)	Non-basic value(s)	
	CR	not applicable	not applicable	
	LF	not applicable	not applicable	
	SP	not applicable	not applicable	

Any code extension control function defined in ISO 2022, within the scope of the value of the attribute "code extension announcers", is permitted.

B.3 Character content architecture level CF-2

B.3.1 Type

CF-2 is a character content architecture level pertaining to the formatted character content architecture class.

B.3.3 Presentation attributes

w

Presentation attribute	Basic value(s)	Non-basic value(s)
alignment	start aligned	none
character orientation	0 degrees	90 degrees
character path	0, 90 degrees	270 degrees
character spacing	the equivalent of 120 BMUs	the equivalent of 80, 100, 120 BMUs
code extension announcers	any string of escape sequences in accordance with ISO 2022	none
graphic character sets	the escape sequences to designate, and the locking shift functions to invoke, the graphic character sets of ISO 6937-2	the escape sequences to designate, and any required locking shift functions to invoke, any other registered graphic character sets
graphic character subrepertoire	3	the identifier of any registered subrepertoire of ISO 6937
graphic rendition	0, 4	1, 3, 10-19, 22-24, 26, 50
initial offset	1) any non-negative integer 2) any non-negative integer	none none
line progression	270 degrees	90 degrees

line spacing	the equivalent of 100, 200, 300, 400 MBUs	the equivalent of 150 BMUs
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The default value of these presentation attributes is as specified in this Recommendation except "graphic character repertoire".

It is assumed that all presentation attributes that are applicable to formatted character content architectures, and that are not specified in the above table, have values equal to the default values specified in this Recommendation.