

1 PWG DRAFT
2 ipp-finishings-attr-vals-990118981214.txt

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9 Internet Printing Protocol/1.0: "finishings" attribute values extension

10

11 Status of this Memo

12 This document is a Printer Working Group (PWG) DRAFT. The previous version
13 (~~981108981214~~) was posted to the IPP mailing list for comment on ~~11/08/98~~12/14/1998
14 and reviewed at the ~~December 16-17, 1998~~November 12, 1998 PWG meeting in Tucson.
15 This version contains the changes agreed to at that meeting and need to be reviewed by
16 the participants on the mailing list using the Last Call PWG procedures.

17 **Abstract**

18 This document specifies additional enum values for the IPP/1.0 "finishings" Job
19 Template attribute for use with the Internet Printing Protocol/1.0 (IPP) [ipp-mod,
20 ipp-pro]. This attribute permits the client to specify additional finishing options,
21 including values that include a specification of a coordinate system for the
22 placement of finishings operation with respect to the corners and edges of portrait
23 and landscape documents.

24
25
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32 1 Additional values for the "finishings" Job Template attribute

33 1.1 Problem

34 Need additional enum values for finishing to specify which of four corners to put a single
35 staple, which of four edges to put two staples, and saddle and edge stitch generic values.

36 1.2 Suggested solution

37 This solution has been proposed at two previous meetings with comments returned and
38 incorporated. The suggestion is to add additional enum values to the "finishings" Job
39 Template attributes (also applies to "finishings-default" and "finishings-supported"
40 attributes).

41 Coordination with the Finisher MIB has been done. There appears to be no direct way to
42 use the same enum values, since the Finisher MIB divides up finishing into separate
43 enum values by type. So all the stapling is done as a separate enum. Also all the
44 punching is done as a separate enum.

45 The coordinate system scheme has been selected to agree with the Finisher MIB which in
46 turn follows the ISO DPA approach of using a coordinate system as if the document were
47 portrait. The approach for coordinate system being relative to the intended reading
48 direction depends on the device being able to understand the orientation embedded in the
49 PDL, which is too problematic for many PDLs. The approach for the coordinate system
50 of being relative to the media feed direction is to dependent on the way the device is
51 currently set up, i.e., pulling short edge first vs. long edge first, and can vary between
52 different output-bins in the same device.

53 Keyword symbolic name of this enum value are:

54	saddle-stitch
55	edge-stitch
56	staple-top-left
57	staple-bottom-left
58	staple-top-right
59	staple-bottom-right
60	edge-stitch-left
61	edge-stitch-top
62	edge-stitch-right
63	edge-stitch-bottom
64	staple-dual-left
65	staple-dual-top
66	staple-dual-right
67	staple-dual-bottom
68	saddle-stitch-single
69	saddle-stitch-dual

70 fold
 71 trim

72 Proposed Text

73 Add the following paragraphs indicated with revision marks to the description of the
 74 "finishings" Job Template attribute, section 4.2.6, so that the entire section would be:

75 **4.2.6 finishings (1setOf type2 enum)**

76 This attribute identifies the finishing operations that the Printer uses for each copy of
 77 each printed document in the Job. For Jobs with multiple documents, the "multiple-
 78 document-handling" attribute determines what constitutes a "copy" for purposes of
 79 finishing.

80 Standard enum values are:

81 Value	Symbolic Name and Description
82	
83 '3'	'none': Perform no finishing
84 '4'	'staple': Bind the document(s) with one or more staples. The exact number 85 and placement of the staples is site-defined.
86 '5'	'punch': This value indicates that holes are required in the finished 87 document. The exact number and placement of the holes is site- 88 defined. The punch specification MAY be satisfied (in a site- and 89 implementation-specific manner) either by drilling/punching, or by 90 substituting pre-drilled media.
91 '6'	'cover': This value is specified when it is desired to select a non-printed 92 (or pre-printed) cover for the document. This does not supplant the 93 specification of a printed cover (on cover stock medium) by the 94 document itself.
95 '7'	'bind': This value indicates that a binding is to be applied to the document; 96 the type and placement of the binding is site-defined."
97 8	'saddle-stitch': Bind the document(s) with one or more staples (wire 98 stitches) along the middle fold. The exact number and placement 99 of the staples is implementation and/or site-defined.
100 9	'edge-stitch': Bind the document(s) with one or more staples (wire 101 stitches) along one edge. The exact number and placement of the 102 staples is implementation and/or site-defined.
103 10-19	reserved for future generic finishing enum values.

104 The following values are more specific; they indicate a corner or an edge as if the
 105 document were a portrait document (see below):

106 20	'staple-top-left': Bind the document(s) with one or more staples in the top 107 left corner.
108 21	'staple-bottom-left': Bind the document(s) with one or more staples in the 109 bottom left corner.

- 110 22 'staple-top-right': Bind the document(s) with one or more staples in the
111 top right corner.
- 112 23 'staple-bottom-right': Bind the document(s) with one or more staples in
113 the bottom right corner.
- 114 24 'edge-stitch-left': Bind the document(s) with one or more staples (wire
115 stitches) along the left edge. The exact number and placement of
116 the staples is implementation and/or site-defined.
- 117 25 'edge-stitch-top': Bind the document(s) with one or more staples (wire
118 stitches) along the top edge. The exact number and placement of
119 the staples is implementation and/or site-defined.
- 120 26 'edge-stitch-right': Bind the document(s) with one or more staples (wire
121 stitches) along the right edge. The exact number and placement of
122 the staples is implementation and/or site-defined.
- 123 27 'edge-stitch-bottom': Bind the document(s) with one or more staples (wire
124 stitches) along the bottom edge. The exact number and placement
125 of the staples is implementation and/or site-defined.
- 126 28 'staple-dual-left': Bind the document(s) with two staples (wire stitches)
127 along the left edge assuming a portrait document (see above).
- 128 29 'staple-dual-top': Bind the document(s) with two staples (wire stitches)
129 along the top edge assuming a portrait document (see above).
- 130 30 'staple-dual-right': Bind the document(s) with two staples (wire stitches)
131 along the right edge assuming a portrait document (see above).
- 132 31 'staple-dual-bottom': Bind the document(s) with two staples (wire
133 stitches) along the bottom edge assuming a portrait document (see
134 above).
- 135 ~~32 'saddle-stitch-single': Bind the document(s) with one staple (wire stitches)
136 along the middle fold. The exact placement of the staple is
137 implementation and/or site-defined.~~
- 138 ~~33 'saddle-stitch-dual': Bind the document(s) with two staples (wire stitches)
139 along the middle fold. The exact placement of the staples is
140 implementation and/or site-defined.~~
- 141
- 142 ~~Values 34 to 59 reserved for additional specific stapling values.~~
- 143
- 144 ~~Folding and trimming values:~~
- 145 ~~60 'fold': Fold the document(s) along the middle fold. The exact location of
146 the middle fold is implementation and/or site-defined.~~
- 147 ~~61 'trim': Trim the document(s).~~

148 The 'staple-xxx' values are specified with respect to the document as if the document
149 were a portrait document. If the document is actually a landscape or a reverse-landscape
150 document, the client supplies the appropriate transformed value. For example, to position
151 a staple in the upper left hand corner of a landscape document when held for reading, the
152 client supplies the 'staple-bottom-left' value (since landscape is defined as a +90 degree
153 rotation from portrait, i.e., anti-clockwise). On the other hand, to position a staple in the
154 upper left hand corner of a reverse-landscape document when held for reading, the client

155 supplies the 'staple-top-right' value (since reverse-landscape is defined as a -90 degree
156 rotation from portrait, i.e., clockwise).

157 The angle (vertical, horizontal, angled) of each staple with respect to the document
158 depends on the implementation which may in turn depend on the value of the attribute.

159 Note: The effect of this attribute on jobs with multiple documents is controlled by the
160 "multiple-document-handling" job attribute (section 4.2.4) and the relationship of this
161 attribute and the other attributes that control document processing is described in section
162 16.3.

163 If the client supplies a value of 'none' along with any other combination of values, it is the
164 same as if only that other combination of values had been supplied (that is the 'none'
165 value has no effect).