1	PWG DRAFT			
2 3 4 5 6 7 8	ipp-finishings-attr-vals-981214.txt C. Manros Xerox Corporation T. Hastings Xerox Corporation December 14, 1998			
9	Internet Printing Protocol/1.0: "finishings" attribute values extension			
10				
11	Status of this Memo			
12 13 14 15 16	This document is a Printer Working Group (PWG) DRAFT. The previous version (981108) was posted to the IPP mailing list for comment on 11/08/98 and reviewed at the November 12, 1998 PWG meeting in Tucson. This version contains the changes agreed to at that meeting and need to be reviewed by the participants on the mailing list using the Last Call PWG procedures.			
17	Abstract			
18 19 20 21 22 23 24	This document specifies additional enum values for the IPP/1.0 "finishings" Job Template attribute for use with the Internet Printing Protocol/1.0 (IPP) [ipp-mod, ipp-pro]. This attribute permits the client to specify additional finishing options, including values that include a specification of a coordinate system for the placement of finishings operation with respect to the corners and edges of portrait and landscape documents.			
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1 Additional values for the "finishings" Job Template attribute

33	1.1	Problem

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

1.2 Suggested solution

- 37 This solution has been proposed at two previous meetings with comments returned and
- 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.
- 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
- of being relative to the media feed direction is to dependent on the way the device is
- 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.

Keyword symbolic name of this enum value are:	saddle-stitch
	edge-stitch
	staple-top-left
	staple-bottom-left
	staple-top-right
	staple-bottom-right
	edge-stitch-left
	edge-stitch-top
	edge-stitch-right
	edge-stitch-bottom
	staple-dual-left
	staple-dual-top
	staple-dual-right
	staple-dual-bottom
	saddle-stitch-single
	saddle-stitch-dual
	Keyword symbolic name of this enum value are:

70 71		<u>fold</u> <u>trim</u>					
72	1.2.1 Prop	posed Text					
73 74	Add the following paragraphs indicated with revision marks to the description of the "finishings" Job Template attribute, section 4.2.6, so that the entire section would be:						
75	4.2.6 finish	4.2.6 finishings (1setOf type2 enum)					
76 77 78 79	This attribute identifies the finishing operations that the Printer uses for each copy of each printed document in the Job. For Jobs with multiple documents, the "multiple-document-handling" attribute determines what constitutes a "copy" for purposes of finishing.						
80	Standard en	um values are:					
81 82	Value	Symbolic Name and Description					
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 87 88	'5'	'punch': This value indicates that holes are required in the finished document. The exact number and placement of the holes is sitedefined. The punch specification MAY be satisfied (in a site- and					
89 90		implementation-specific manner) either by drilling/punching, or by substituting pre-drilled media.					
91 92 93 94	'6'	'cover': This value is specified when it is desired to select a non-printed (or pre-printed) cover for the document. This does not supplant the specification of a printed cover (on cover stock medium) by the document itself.					
95 96	7'	'bind': This value indicates that a binding is to be applied to the document; the type and placement of the binding is site-defined."					
97 98 99	8	'saddle-stitch': Bind the document(s) with one or more staples (wire stitches) along the middle fold. The exact number and placement of the staples is implementation and/or site-defined.					
100 101 102	9	'edge-stitch': Bind the document(s) with one or more staples (wire stitches) along one edge. The exact number and placement of the staples is implementation and/or site-defined.					
103	10-19	reserved for future generic finishing enum values.					
104 105		ng values are more specific; they indicate a corner or an edge as if the vere a portrait document (see below):					
106 107	20	'staple-top-left': Bind the document(s) with one or more staples in the top left corner.					
108 109	21	'staple-bottom-left': Bind the document(s) with one or more staples in the 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	_0	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	2)	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	20	along the right edge assuming a portrait document (see above).
132	31	'staple-dual-bottom': Bind the document(s) with two staples (wire
133	31	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	<u>32</u>	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	<u>55</u>	along the middle fold. The exact placement of the staples is
140		implementation and/or site-defined.
140		implementation and/or site-defined.
141	Voluge	34 to 59 reserved for additional specific stapling values.
142	<u>values</u> .	54 to 59 reserved for additional specific stapfing values.
143	Folding	and trimming values
144	60	and trimming values: "fold": Fold the decument(s) along the middle fold. The exact leastion of
	00	'fold': Fold the document(s) along the middle fold. The exact location of
146	61	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

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

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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 depends on the implementation which may in turn depend on the value of the attribute. 158 159 Note: The effect of this attribute on jobs with multiple documents is controlled by the "multiple-document-handling" job attribute (section 4.2.4) and the relationship of this 160 161 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).