

1 PWG DRAFT
2 ipp-pages-per-minute-attr-981214.txt

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11 Internet Printing Protocol/1.0: "pages-per-minute" and "pages-per-minute-color"
12 attributes extension

14 Status of this Memo

15 This document is a Printer Working Group (PWG) DRAFT. The previous version
16 (981108) was posted to the IPP mailing list for comment on 11/08/98 and reviewed at the
17 November 12, 1998 PWG meeting in Tucson. This version contains the changes agreed
18 to at that meeting and need to be reviewed by the participants on the mailing list using the
19 Last Call PWG procedures.

20 **Abstract**

21 This document specifies the OPTIONAL "pages-per-minute" and "pages-per-
22 minute-color" Printer Description attributes for use with the Internet Printing
23 Protocol/1.0 (IPP) [ipp-mod, ipp-pro]. This attribute permits the client to
24 determine the nominal speed for black and white printing and for color, if the
25 printer supports color. These attributes are also in the current SLP directory
26 schema proposal.

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Proposed IPP Additional Attributes and Attribute Values - Set 1

35

36 **1 The "pages-per-minute" and "pages-per-minute-color" Printer**
37 **Description attributes**

38 **1.1 Problem**

39 The SLP directory entry needs to record the speed of the printers, so that users can find
40 printers based on the speed in pages per minute. Color printers often have a lower speed
41 when printing color document than when printing black-and-white document that a user
42 may wish to be aware of.

43 **1.2 Suggested solution**

44 Add two Printer Description attributes, one for black and white and the other for color.
45 Don't be too fussy about the number. Its the number used for marketing purposes to
46 describe the product. Add the attributes to the Model and Semantics document, rather
47 than simply register them in a separate document, simply because these attributes are also
48 going into the SLP printer template. It will make it easier for other groups to find the
49 description, if it is in our Model and Semantics document. On the other hand, the
50 complete description is going into the SLP document, so we could just register these
51 attributes if we don't want to add them to the Model and Semantics document.

52 **1.3 Proposed text**

53 Add the following two attributes to the end of Section 4.4 Printer Description Attributes:

54 **1.3.1 pages-per-minute (integer(0:MAX))**

55 This Printer attributes specifies the nominal number of pages per minute to the nearest
56 whole number which may be generated by this printer (e.g., simplex, black-and-white).
57 This attribute is informative, not a service guarantee. Generally, it is the value used in
58 the marketing literature to describe the device .

59 **1.3.2 pages-per-minute-color (integer(0:MAX))**

60 This Printer attributes specifies the nominal number of pages per minute to the nearest
61 whole number which may be generated by this printer when printing color (e.g., simplex,
62 color). For purposes of this attribute, "color" means the same as for the "color-
63 supported" attribute, namely, the device is capable of any type of color printing at all,
64 including highlight color. This attribute is informative, not a service guarantee.
65 Generally, it is the value used in the marketing literature to describe the device .

66 Black and white only printers MUST NOT support this attribute. If this attribute is
67 present, then the "color-supported" Printer description attribute MUST be present and
68 have a 'true' value.

69 Note: The values of these two attributes returned by the Get-Printer-Attributes operation,
70 MAY be affected by the "document-format" attribute supplied by the client in the Get-
71 Printer-Attributes request. The implementation MAY have different speeds depending
72 on the document format being processed. See [ipp-mod] Section 3.2.5.1 Get-Printer-
73 Attributes.

74 ~~1.3.3 Addition to Section 3.2.5.1 Get-Printer-Attributes~~

75 ~~Add these two attributes (indicated with revision marks below) to the list of attributes in~~
76 ~~Section 3.2.5.1 Get-Printer-Attributes, that MAY depend on the document format being~~
77 ~~queried as shown below:~~

78

79 ~~If the Printer object does not distinguish between different sets of supported~~
80 ~~values for each different document format when validating jobs in the create and~~
81 ~~Validate-Job operations, it MUST NOT distinguish between different document~~
82 ~~formats in the Get-Printer-Attributes operation. If the Printer object does~~
83 ~~distinguish between different sets of supported values for each different document~~
84 ~~format specified by the client, this specialization applies only to the following~~
85 ~~Printer object attributes:~~

86

- 87 ~~—Printer attributes that are Job Template attributes ("xxx-default" "xxx-~~
- 88 ~~supported", and "xxx-ready" in the Table in Section 4.2);~~
- 89 ~~—"pdl-override-supported",~~
- 90 ~~—"compression-supported",~~
- 91 ~~—"job-k-octets-supported",~~
- 92 ~~—"job-impressions-supported,~~
- 93 ~~—"job-media-sheets-supported"~~
- 94 ~~—"printer-driver-installer",~~
- 95 ~~—"color-supported", and~~
- 96 ~~—"reference-uri-schemes-supported"~~
- 97 ~~—"pages-per-minute"~~
- 98 ~~—"pages-per-minute-color"~~

99

100 ~~The values of all other Printer object attributes (including "document-format-~~

101 ~~supported") remain invariant with respect to the client-supplied document format~~

102 ~~(except for new Printer description attribute as registered according to section~~

103 ~~6.2).~~