

1 PWG DRAFT  
2 ipp-pages-per-minute-attr-~~990118~~~~981214~~.txt

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10  
11 Internet Printing Protocol/1.0: "pages-per-minute" and "pages-per-minute-color"  
12 attributes extension

13  
14 Status of this Memo

15 This document is a Printer Working Group (PWG) DRAFT. The previous version  
16 (~~981108~~~~981214~~) was posted to the IPP mailing list for comment on ~~11/08/98~~~~12/14/1998~~  
17 and reviewed at the ~~November 12, 1998~~~~December 16-17~~ PWG meeting in Tucson. This  
18 version contains the changes agreed to at that meeting and need to be reviewed by the  
19 participants on the mailing list using the 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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## 35 **1 The "pages-per-minute" and "pages-per-minute-color" Printer** 36 **Description attributes**

### 37 **1.1 Problem**

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

### 42 **1.2 Suggested solution**

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

### 51 **1.3 Proposed text**

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

#### 53 **1.3.1 pages-per-minute (integer(1:MAX))**

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

#### 58 **1.3.2 pages-per-minute-color (integer(1:MAX))**

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

66 Note: If a color device has several color modes, it MAY use the pages-per-minute value  
67 for this attribute that corresponds to the mode that produces the highest number.

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

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

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