



1  
2

3

# 4 Media Standardized Names

5 Draft 5101.1-D0.89

6 May 722, 2001

7 <ftp://ftp.pwg.org/pub/pwg/media-sizes/pwg-media-0809.pdf> (.doc)

8

9

## Abstract

10 This document specifies standard names to be used to indicate media types, media colors, and media  
11 sizes in other standards. These lists of names are a superset of the names that are currently presented  
12 in the Printer MIB [PRT-MIB] and the IPP Model and Semantics [IPP-MOD] documents. It is  
13 intended to supplement the currently defined lists as well as to provide a normative reference for all  
14 subsequent standards.

15 This document is a draft of an IEEE-ISTO PWG Proposed Standard and is in full conformance with all  
16 provisions of the PWG Process (see: <ftp://ftp.pwg.org/pub/pwg/general/pwg-process.pdf>). PWG  
17 Proposed Standards are working documents of the IEEE-ISTO PWG and its working groups. The list  
18 of current PWG projects and drafts can be obtained at <http://www.pwg.org>

19 When approved as a PWG standard, this document will be available from:  
20 <ftp://ftp.pwg.org/pub/pwg/standards/pwg5101.1.pdf>, .doc, .rtf

21 Copyright (C) 2001, IEEE Industry Standards and Technology Organization. All rights reserved.

22 This document may be copied and furnished to others, and derivative works that comment on, or  
23 otherwise explain it or assist in its implementation may be prepared, copied, published and distributed,  
24 in whole or in part, without restriction of any kind, provided that the above copyright notice, this  
25 paragraph and the title of the Document as referenced below are included on all such copies and  
26 derivative works. However, this document itself may not be modified in any way, such as by  
27 removing the copyright notice or references to the IEEE-ISTO and the Printer Working Group, a  
28 program of the IEEE-ISTO.

29 Title: Media Standardized Names

30 The IEEE-ISTO and the Printer Working Group DISCLAIM ANY AND ALL WARRANTIES,  
31 WHETHER EXPRESS OR IMPLIED INCLUDING (WITHOUT LIMITATION) ANY IMPLIED  
32 WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

33 The Printer Working Group, a program of the IEEE-ISTO, reserves the right to make changes to the  
34 document without further notice. The document may be updated, replaced or made obsolete by other  
35 documents at any time.

36 The IEEE-ISTO takes no position regarding the validity or scope of any intellectual property or other  
37 rights that might be claimed to pertain to the implementation or use of the technology described in this  
38 document or the extent to which any license under such rights might or might not be available; neither  
39 does it represent that it has made any effort to identify any such rights.

40 The IEEE-ISTO invites any interested party to bring to its attention any copyrights, patents, or patent  
41 applications, or other proprietary rights which may cover technology that may be required to  
42 implement the contents of this document. The IEEE-ISTO and its programs shall not be responsible for  
43 identifying patents for which a license may be required by a document and/or IEEE-ISTO Industry  
44 Group Standard or for conducting inquiries into the legal validity or scope of those patents that are  
45 brought to its attention. Inquiries may be submitted to the IEEE-ISTO by e-mail at:

46 [ieee-isto@ieee.org](mailto:ieee-isto@ieee.org).

47 The Printer Working Group acknowledges that the IEEE-ISTO (acting itself or through its designees)  
48 is, and shall at all times, be the sole entity that may authorize the use of certification marks,  
49 trademarks, or other special designations to indicate compliance with these materials.

50 Use of this document is wholly voluntary. The existence of this document does not imply that there  
51 are no other ways to produce, test, measure, purchase, market, or provide other goods and services  
52 related to its scope.

## TABLE OF CONTENTS

|    |  |                               |
|----|--|-------------------------------|
| 53 |  |                               |
| 54 |  |                               |
| 55 | <a href="#">1 INTRODUCTION.....</a>  | <a href="#">5</a>             |
| 56 | <a href="#">1.1 SCOPE.....</a>   | <a href="#">5</a>             |
| 57 | <a href="#">2 TERMINOLOGY.....</a>   | <a href="#">6</a>             |
| 58 | <a href="#">3 MEDIA TYPE NAMES.....</a>  | <a href="#">7</a>             |
| 59 | <a href="#">3.1 CUSTOM MEDIA TYPE NAMES.....</a>   | <a href="#">8</a>             |
| 60 | <a href="#">4 MEDIA COLOR NAMES.....</a>   | <a href="#">8</a>             |
| 61 | <a href="#">4.1 CUSTOM MEDIA COLOR NAMES.....</a>  | <a href="#">9</a>             |
| 62 | <a href="#">5 MEDIA SIZE SELF DESCRIBING NAMES.....</a>  | <a href="#">9</a>             |
| 63 | <a href="#">5.1 MEDIA SIZE SELF DESCRIBING NAME FORMAT.....</a>                                      | <a href="#">10</a>            |
| 64 | <a href="#">5.2 CUSTOM MEDIA SIZE SELF DESCRIBING NAME FORMAT.....</a>                               | <a href="#">11</a>            |
| 65 | <a href="#">5.3 CONVENTIONS FOR THE TABLES.....</a>  | <a href="#">12</a>            |
| 66 | <a href="#">6 CONFORMANCE REQUIREMENTS.....</a>  | <a href="#">16</a>            |
| 67 | <a href="#">7 REGISTRATION PROCEDURES FOR ADDITIONAL NAMES.....</a>                                  | <a href="#">17</a>            |
| 68 | <a href="#">8 INTERNATIONALIZATION CONSIDERATIONS.....</a>   | <a href="#">17</a>            |
| 69 | <a href="#">9 SECURITY CONSIDERATIONS.....</a>   | <a href="#">17</a>            |
| 70 | <a href="#">10 REFERENCES.....</a>   | <a href="#">17</a>            |
| 71 | <a href="#">11 AUTHOR'S ADDRESS.....</a>   | <a href="#">18</a>            |
| 72 | <a href="#">12 APPENDIX A: MEDIA NAMES USAGE IN EXISTING STANDARDS (INFORMATIVE).....</a>            | <a href="#">19</a>            |
| 73 | <a href="#">13 APPENDIX B: PARSER CONSIDERATIONS FOR THE MEDIA SIZE NAME (INFORMATIVE).....</a>      | <a href="#">20</a>            |
| 74 | <a href="#">14 APPENDIX C: DESCRIPTION OF THE IEEE INDUSTRY STANDARDS AND TECHNOLOGY (ISTO).....</a> | <a href="#">21</a>            |
| 75 | <a href="#">15 APPENDIX D: DESCRIPTION OF THE IEEE-ISTO PWG.....</a>                                 | <a href="#">21</a>            |
| 76 | <a href="#">16 APPENDIX E: CHANGE HISTORY [TO BE REMOVED WHEN THE STANDARD IS APPROVED].....</a>     | <a href="#">22</a>            |
| 77 | <a href="#">16.1 CHANGES TO D0.8, MAY 7, 2001, TO MAKE D0.9, MAY 22, 2001.....</a>                   | <a href="#">22</a>            |
| 78 | <a href="#">16.2 CHANGES TO D0.7, APRIL 20, 2001, TO MAKE D0.8, MAY 7, 2001.....</a>                 | <a href="#">22</a>            |
| 79 | <a href="#">16.3 CHANGES TO D0.6, APRIL 9, 2001, TO MAKE D0.7, APRIL 20, 2001.....</a>               | <a href="#">23</a>            |
| 80 | <a href="#">16.4 CHANGES TO D0.5, MARCH 26, 2001, TO MAKE D0.6, APRIL 9, 2001.....</a>               | <a href="#">23</a>            |
| 81 | <a href="#">16.5 CHANGES TO D0.4, MARCH 21, 2001, TO MAKE D0.5, MARCH 26, 2001.....</a>              | <a href="#">23</a>            |
| 82 | <a href="#">16.6 CHANGES TO D0.3, FEBRUARY 22, 2001, TO MAKE D0.4, MARCH 21, 2001.....</a>           | <a href="#">24</a>            |
| 83 |  |                               |
| 84 | <del><a href="#">1 INTRODUCTION.....</a></del>   | <del><a href="#">4</a></del>  |
| 85 | <del><a href="#">1.1 SCOPE.....</a></del>  | <del><a href="#">4</a></del>  |
| 86 | <del><a href="#">2 TERMINOLOGY.....</a></del>  | <del><a href="#">5</a></del>  |
| 87 | <del><a href="#">3 MEDIA TYPE NAMES.....</a></del>   | <del><a href="#">6</a></del>  |
| 88 | <del><a href="#">3.1 CUSTOM MEDIA TYPE NAMES.....</a></del>  | <del><a href="#">7</a></del>  |
| 89 | <del><a href="#">4 MEDIA COLOR NAMES.....</a></del>  | <del><a href="#">7</a></del>  |
| 90 | <del><a href="#">4.1 CUSTOM MEDIA COLOR NAMES.....</a></del>   | <del><a href="#">8</a></del>  |
| 91 | <del><a href="#">5 MEDIA SIZE SELF DESCRIBING NAMES.....</a></del>                                   | <del><a href="#">8</a></del>  |
| 92 | <del><a href="#">5.1 MEDIA SIZE SELF DESCRIBING NAME FORMAT.....</a></del>                           | <del><a href="#">9</a></del>  |
| 93 | <del><a href="#">5.2 CUSTOM MEDIA SIZE SELF DESCRIBING NAME FORMAT.....</a></del>                    | <del><a href="#">10</a></del> |
| 94 | <del><a href="#">5.3 CONVENTIONS FOR THE TABLES.....</a></del>                                       | <del><a href="#">10</a></del> |
| 95 | <del><a href="#">6 CONFORMANCE REQUIREMENTS.....</a></del>   | <del><a href="#">15</a></del> |

96 ~~7~~ ~~INTERNATIONALIZATION CONSIDERATIONS~~ .....15

97 ~~8~~ ~~SECURITY CONSIDERATIONS~~ .....15

98 ~~9~~ ~~REFERENCES~~ .....15

99 ~~10~~ ~~AUTHOR’S ADDRESS~~ .....16

100 ~~11~~ ~~APPENDIX A: MEDIA NAMES USAGE IN EXISTING STANDARDS (INFORMATIVE)~~ .....17

101 ~~12~~ ~~APPENDIX B: DESCRIPTION OF THE IEEE INDUSTRY STANDARDS AND TECHNOLOGY (ISTO)~~ .....18

102 ~~13~~ ~~APPENDIX C: DESCRIPTION OF THE IEEE-ISTO PWG~~ .....18

103 ~~14~~ ~~APPENDIX D: CHANGE HISTORY [TO BE REMOVED WHEN THE STANDARD IS APPROVED]~~ .....19

104 ~~14.1~~ ~~CHANGES TO D0.7, APRIL 20, 2001, TO MAKE D0.8, MAY 7, 2001~~ .....19

105 ~~14.2~~ ~~CHANGES TO D0.6, APRIL 9, 2001, TO MAKE D0.7, APRIL 20, 2001~~ .....19

106 ~~14.3~~ ~~CHANGES TO D0.5, MARCH 26, 2001, TO MAKE D0.6, APRIL 9, 2001~~ .....20

107 ~~14.4~~ ~~CHANGES TO D0.4, MARCH 21, 2001, TO MAKE D0.5, MARCH 26, 2001~~ .....20

108 ~~14.5~~ ~~CHANGES TO D0.3, FEBRUARY 22, 2001, TO MAKE D0.4, MARCH 21, 2001~~ .....21

109

110 **TABLE OF TABLES**

111 TABLE 1 - STANDARDIZED MEDIA TYPE NAMES .....76

112 TABLE 3 - MEDIA COLOR NAMES .....98

113 TABLE 4 - NORTH AMERICAN STANDARD SHEET MEDIA SIZES .....1244

114 TABLE 5 - ISO STANDARD SHEET MEDIA SIZES .....1342

115 TABLE 6 - JAPANESE STANDARD SHEET MEDIA SIZES .....1544

116 TABLE 7 - CHINESE STANDARD SHEET MEDIA SIZES .....1644

117 TABLE 8 - OTHER METRIC STANDARD SHEET MEDIA SIZES .....1645

118

## 119 **1 Introduction**

120 Media types, media colors, and media sizes have been defined in many previously published standards  
121 related to printing. Examples are the ISO Document Printing Application [DPA], the IEEE Transport  
122 Independent Printer/System Interface [TIP/SI], the IETF Printer MIB [PRT-MIB], and the IETF  
123 Internet Printing Protocol [IPP-MOD]. Although there is a high degree of commonality in the set of  
124 media types, colors, and sizes presented in these documents, they do not represent a uniform set.  
125 Several other standard developments, in process prior to the creation of this standard, also have a need  
126 for media type, color, and size definitions. Also there is a large body of existing computer printing  
127 system practice based upon PPD and GPD files to describe a Printer's capabilities that include media  
128 type, color, and size. Thus this standard is a response to an urgent need to define a complete set of  
129 media types, colors, and sizes, in an independent document, that can be used as a normative reference  
130 by other standards.

131 This standard is the result of extensive research to obtain an exhaustive list. It provides a superset of  
132 the media types, colors, and sizes currently defined in the previously listed specifications. This  
133 standard is intended to update the list that is currently presented in the Printer MIB and the IPP Model  
134 and Semantics [IPP-MOD] specification and it also can be referenced by future standards. This  
135 document will be periodically updated to include any additional types, colors, and sizes, as required.

### 136 **1.1 Scope**

137 This document defines media types, media colors, and media sizes only. Other media attributes such  
138 as name, weight, or opacity are not included at this time, though they may be added in the future, if the  
139 need arises.

140 No provisions are included to specify roll paper sizes. All media sizes defined represent a cut sheet.  
141 Media that is printed and then cut by the printing device can use this standard only to define the final  
142 size.

143 The color attribute that is included in a portion of the Media Name entries in both the Printer MIB and  
144 IPP are included as a separate independent set of Color Names in this specification.

145 The media size dimensions that are defined in this document are independent of the media feed  
146 direction (i.e. short edge feed or long edge feed) or printing orientation (i.e. portrait or landscape).  
147 Both of these parameters are best handled by unique attributes rather than overloading the media size  
148 attribute.

149 The intent of the names defined in this standard is for program to program communication, not for  
150 internal use within a program or for program to human display. Examples include: (1) from a Printer  
151 to client software, (2) from client software to a Printer, and (3) from a printer data description file to  
152 client software. Typically a client will localize these names to the human language and units of the  
153 user before displaying them to the user. However, when a client encounters a name that it does not  
154 recognize, these names have been defined so that they can be displayed to the user as a Fallback

155 presentation. Some clients may omit localization in order to simplify implementation of displaying  
156 names to users.

157  
158 The Media Size Self Describing Name deserves special mention. It contains both a media size name  
159 and the dimensions, in case the receiver does not recognize the media size name. Such a receiver can  
160 then parse the Media Size Self Describing Name and discover the intended dimensions of such an  
161 unrecognized media. These names have also been defined to facilitate parsing and/or Fallback  
162 presentation of either the media size name part and/or the dimensions part.

## 163 2 Terminology

164 This glossary defines certain terms used in this specification which may not be generally familiar or  
165 which may be used with very specific meaning. These definitions are not intended to be absolute but  
166 do reflect the use of the terms within this specification.

167 **Alias** An alternative name that is commonly used to mean the same as a name standardized in this  
168 document, but which is not defined for a use that conforms to this standard.

169 **ASCII** American Standards Code for Information Exchange as defined in ANSI X3.4-1986, "Coded  
170 Character Set - 7-bit American Standard Code for Information Interchange (ASCII)." Defines a  
171 character set encoding with printable characters defined in the range 0x21 to 0x7E and the SPACE  
172 character (0x20). Other encoded values must not be used.

173 **IETF** Internet Engineering Task Force. A volunteer group that develops and approves standards that  
174 are relative to the Internet.

175 **ISO** International Organization for Standardization.

176 **Legacy Name** A name used in the same contexts as the names defined in this standard, but which is  
177 deprecated from use when conforming to this standard. This name is provided for historical context.

178 **media** The consumable upon which the marking engine marks so as to form a text and/or pictorial  
179 image, typically paper.

180 **Media Color Name** The human readable name used to identify the color of the media. Examples:  
181 'white', 'red', 'ivory'.

182 **Media Dimensions** The short and long dimensions of the media.

183 **media finish** An adjective that describes the surface texture of the medium. In most cases the texture  
184 is obtained by the application of a coating. Examples: 'glossy', 'matte'.

185 **Media Name** The human readable name used to identify media that possess the same characteristics  
186 and to distinguishes the media from others with different characteristics for the context in which the  
187 Media Name is used. Examples: 'iso-a4-white', 'na-letter-transparency', 'monarch-envelope'. This  
188 standard does not define Media Names.

189 **Media Size Name** The human readable name that identifies a particular media size. Examples: ‘iso-  
 190 \_a4’, ‘na- \_letter’, ‘monarch’.

191 **Media Size Self Describing Name** (or **Media Size** for short) An ASCII string that contains a Media  
 192 Size Name and the Media Dimensions that correspond to the Media Size Name. Examples: ‘iso-  
 193 \_a4\_2100-x2970mm’, ‘na- \_letter\_8.500-11000-500-x11in’, ‘na- \_monarch\_3.875-x7.500-5in’.

194 **Media Type Name** The human readable name that identifies a particular medium type, i.e., the  
 195 predominate characteristic of the media. Examples: ‘stationery’, ‘transparency’, ‘envelope’.

### 196 3 Media Type Names

197 The standardized Media Type Names are defined in Table 1. The base set of these names is derived  
 198 from the Printer MIB [PRT-MIB] and "Media Features for Display, Print, and Fax" [FEATURES]  
 199 documents. Additional values MAY be registered according to both [TAG-REG] and [IPP-MOD].

200 For Media Types that produced using a coating or special process, the coating or process may only be  
 201 applied to one side. The Media Type Names defined in this standard do not define either one sided or  
 202 two sided conditions. For situations where this information needs to be presented, an implementation  
 203 specific method must be used.

204 The *Ref* column indicates the source document(s) for the name.

- 205 1 = The Printer MIB [PRT-MIB].
- 206 3 = Media Features for Display, Print, and Fax [FEATURES].
- 207 5 = IPP Production Printing Attributes [IPP-PROD] The name in this document is derived
- 208 from the “media-front-coating” and “media-back-coating” member attributes by adding the
- 209 ‘photographic-’ prefix to the IPP keyword values.

210 **Table 1 - Standardized Media Type Names**

| Keyword           | Description   | Ref. |
|-------------------|---|------|
| stationery        | Separately cut sheets of an opaque material   | 1, 3 |
| stationery-coated | Separately cut sheets of an opaque material with a coating of unspecified type  |      |
| stationery-inkjet | Separately cut sheets of an opaque material <u>whose coating is designed to minimize the spread of liquid inks. May be accomplished using a coating</u> |      |
| transparency      | Separately cut sheets of a transparent material   | 1, 3 |
| envelope          | Envelopes that can be used for conventional mailing purposes  | 1, 3 |
| envelope-plain    | Envelopes that are not preprinted and have no windows   | 1, 3 |
| envelope-window   | Envelopes that have windows for addressing purposes   | 1    |
| continuous        | Continuously connected sheets of an opaque material - which edge is connected is not specified  | 3    |
| continuous-long   | Continuously connected sheets of an opaque material connected along the long edge   | 1    |
| continuous-short  | Continuously connected sheets of an opaque material connected along the short edge  | 1    |
| tab-stock         | Media with tabs <u>{(either pre-cut or full-cut)}</u>   | 1    |
| pre-cut-tabs      | Media with tabs that are cut so that more than one tab is visible extending out beyond the edge of non-tabbed media in an Output-Document.              |      |

211

212

**Table 1 - Standardized Media Type Names (continued)**

| Keyword                 | Description  | Ref. |
|-------------------------|--|------|
| full-cut-tabs           | Media with a tab that runs the full length of the sheet so that only one tab is visible extending out beyond the edge of non-tabbed media in an Output-Document. |      |
| multi-part-form         | Form medium composed of multiple layers not pre-attached to one another; each sheet may be drawn separately from an input source                                 | 1    |
| labels                  | Label stock <del>(</del> (For example, a sheet of peel-off labels <del>)</del> ).  | 1    |
| multi-layer             | Form medium composed of multiple layers which are pre-attached to one another; e.g., for use with impact printers.   | 1    |
| screen                  | A refreshable display  | 3    |
| screen-paged            | A refreshable display which cannot scroll  | 3    |
| photographic            | Separately cut sheets of an opaque material to produce photographic quality images. The coating is unspecified.  |      |
| photographic-glossy     | Separately cut sheets of an opaque material that has a "glossy" coating to produce photographic quality images.  | 5    |
| photographic-high-gloss | Separately cut sheets of an opaque material that has a "high-gloss" coating to produce photographic quality images.  | 5    |
| photographic-semi-gloss | Separately cut sheets of an opaque material that has a "semi-gloss" coating to produce photographic quality images.  | 5    |
| photographic-satin      | Separately cut sheets of an opaque material that has a "satin" coating to produce photographic quality images.   | 5    |
| photographic-matte      | Separately cut sheets of an opaque material that has a "matte" coating to produce photographic quality images.   | 5    |
| photographic-film       | Separately cut sheets of film used to produce photographic quality images.   |      |
| back-print-film         | Separately cut sheet of a translucent film that the user can view with or without backlighting.  |      |
| cardstock               | Separately cut sheets of a heavier or stiffer opaque material than stationery  |      |
| roll                    | A continuous roll of media with no predefined page separation points.  |      |

213 **3.1 Custom Media Type Names**

214 Media Type Names may be locally extended using a Custom Media Type Name, without an update to  
 215 this specification. The format is defined by the following ABNF:

```

216 custom-media-type-name = "custom-media-type-" type-name
217 type-name = lowalpha *( lowalpha | digit | "-" )
218 lowalpha = "a" | "b" | "c" | "d" | "e" | "f" | "g" | "h" | "i" |
219           "j" | "k" | "l" | "m" | "n" | "o" | "p" | "q" | "r" |
220           "s" | "t" | "u" | "v" | "w" | "x" | "y" | "z"
221 digit = "0" | "1" | "2" | "3" | "4" | "5" | "6" | "7" | "8" | "9"
    
```

222 Example, preprinted stationery for company XYZ: `custom-media-type-xyz-letterhead`

223 **4 Media Color Names**

224 ~~Table 2~~~~Table 2~~~~Table 2~~ defines the standardized Media Color Names. These names are derived  
 225 primarily from the Printer MIB [PRT-MIB], prtInputMediaColor standard values. One major  
 226 difference from the Printer MIB, the name 'transparent' has been replaced by 'no-color'. This allows  
 227 use of a color attribute with the media type 'transparency' as defined in ~~Table 1~~~~Table 1~~~~Table 1~~.



228 The *Ref* column indicates in which document(s) the identical name appears.

229 1 = The Printer MIB [PRT-MIB].

230 5 = I PP Production Printing [IPP-PROD], “media-color” member attribute keywords.

231 **Table 2 - Media Color Names**

| Color Name | Ref. | Description  |
|------------|------|--|
| no-color   | 5    | The specified media has no color. (example, a clear transparency media type) |
| white      | 1, 5 | The specified media is white.  |
| pink       | 1, 5 | The specified media is pink.   |
| yellow     | 1,5  | The specified media is yellow.   |
| blue       | 5    | The specified media is blue.   |
| green      | 1, 5 | The specified media is green.  |
| buff       | 1, 5 | The specified media is buff.   |
| goldenrod  | 1, 5 | The specified media is goldenrod.  |
| red        | 5    | The specified media is red.  |
| gray       | 5    | The specified media is gray.   |
| ivory      | 5    | The specified media is ivory.  |
| orange     | 5    | The specified media is orange.   |

232

233 **4.1 Custom Media Color Names**

234 Media Color Names may be locally extended using a Custom Media Color Name, without an update to  
 235 this specification. The format is defined by the following ABNF:

236 `custom-media-color-name = "custom-media-color-" color-name`

237 `color-name = lowalpha *( lowalpha | digit | "-" )`

238 `lowalpha = "a" | "b" | "c" | "d" | "e" | "f" | "g" | "h" | "i" |`

239 `"j" | "k" | "l" | "m" | "n" | "o" | "p" | "q" | "r" |`

240 `"s" | "t" | "u" | "v" | "w" | "x" | "y" | "z"`

241 `digit = "0" | "1" | "2" | "3" | "4" | "5" | "6" | "7" | "8" | "9"`

242 Example, a media of the color mauve: `custom-media-color-mauve`

243 **5 Media Size Self Describing Names**

244 The media size specifications defined in this document, labeled as Media Size Self Describing Names,  
 245 are cross indexed to Legacy Names and Alias (common) names. The Legacy Names define the names  
 246 currently used in the ISO DPA, Printer MIB, or IPP documents. A reference column is included in the  
 247 tables to indicate which of these three documents contain the Legacy Name.

248 *Ref* column entry definitions:

249 1 = Printer MIB [PRT-MIB] and ISO DPA [DPA]. (Both documents contain an identical set.)

250 2 = IPP [IPP-MOD].

251 4 = ASME Y14 [ASME-IN]

252 5 = ASME Y14.M [ASME-M]

253

254 **5.1 Media Size Self Describing Name Format**

255 This specification defines a new Media Size Self Describing Name format that is recommended to be  
 256 used by all new implementations. This new format has the Media Size Name and the Media  
 257 Dimensions embedded within the string and allows a device to operate without a Media Size Name to  
 258 Media Dimensions table. The Media Size Self Describing Name format is structured as follows using  
 259 ABNF:

```

260  media-size-self-describing-name =
261      ( class1-class-na "_" size-name "_" short-dim "x" long-dim "in" ) |
262      ( class2-class-mm "_" size-name "_" short-dim "x" long-dim "mm" )
263  class1-class-na = "na" | "asme" | "oe"
264  class2-class-mm = "iso" | "jis" | "jpn" | "prc" | "roc" | "om"
265  size-name = ( lowalpha | digit ) *( lowalpha | digit | "-" )
266  short-dim = dim
267  long-dim = dim
268  dim = integer-part [fraction-part] | "0" fraction-part
269  integer-part = non-zero-digit *digit
270  fraction-part = "." *digit non-zero-digit
271  lowalpha = "a" | "b" | "c" | "d" | "e" | "f" | "g" | "h" | "i" |
272            "j" | "k" | "l" | "m" | "n" | "o" | "p" | "q" | "r" |
273            "s" | "t" | "u" | "v" | "w" | "x" | "y" | "z"
274  non-zero-digit = "1" | "2" | "3" | "4" | "5" | "6" | "7" | "8" | "9"
275  digit = "0" | "1" | "2" | "3" | "4" | "5" | "6" | "7" | "8" | "9"

```

276 [The above ABNF is provided to formally define the structure of the Media Size name. Implementers](#)  
 277 [should be aware that the currently defined class names may be expanded in the future to cover new](#)  
 278 [groups of media sizes. Thus client parser implementations that are developed using this ABNF should](#)  
 279 [accept class names that are not currently represented in this list.](#)

280 **5.1.1 ~~prefix~~-class-xx** This string part is present to indicate the name space or jurisdiction for the  
 281 size name in order to prevent name clashes. ~~Examples include~~ [Currently defined values are](#) "na" for  
 282 North America, ["asme" for American Society of Mechanical Engineers](#), "iso" for the International  
 283 Standards Organization, "jis" for Japanese Information Standard, "jpn" for Japan, "prc" for People's  
 284 Republic of China, "roc" for Republic of China (Taiwan), "oe" for other English, and "om" for other  
 285 metric, ~~etc.~~ [New class names must conform to the following ABNF:](#)

```

286  class-name = ( lowalpha | digit ) *( lowalpha | digit | "." )

```

287 **5.1.2 size-name** This string provides a textual description of the media size. It is normally derived  
 288 from the Legacy or Alias name associated with the media size. The size-name can consist of multiple  
 289 parts, with each part separated by a hyphen (0x2D).

290 **5.1.3 *short-dim* and *long-dim*** These values define the media size. The *short-dim* is always the  
 291 smaller of the two dimensions. The dimensions are presented in decimal format to as many places as  
 292 necessary to define the size. Trailing zeros must never be used if a decimal portion is present.

293 **5.1.4 ~~units~~** ~~These values define the units of measure for the media size. The units currently defined~~  
 294 ~~are inches (*in*) and millimeters (*mm*).~~ For interchange between programs, the dimensions **are**  
 295 **presented in this standard must** never **be** converted to the ~~other~~**another** system of units, but must  
 296 remain as defined in this standard. Furthermore, an identical size shall never appear in this standard  
 297 with different units. Programs may convert the dimensions to other units when displaying these names  
 298 to human users and for internal use, both of which are outside the scope of this standard.

### 299 **5.1.5 General**

300 The Media Size Self Describing Name shall not contain any space characters (0x20).

301 Wherever possible, the Media Size Self Describing Name has been derived from the Legacy Name. In  
 302 many cases the '~~prefix~~**class**\_size-name' portion is identical to the Legacy Name. In the remaining  
 303 cases, the '~~prefix~~**class**' portion must be ignored to match the Legacy Name.

### 304 **5.1.6 Examples:**

305 The letter size (8.5 inches by 11 inches) used in North America: **na-letter\_8.5-x11in**

306 The iso A4 size (210 mm by 297 mm) used in metric countries: **iso-a4\_210-x297mm**

## 307 **5.2 Custom Media Size Self Describing Name Format**

308 The Custom Media Size Self Describing Name format allows extensibility of the media size set  
 309 without an update to this specification. This feature is primarily intended for special media sizes that  
 310 are used at a minimum number of locations. The Media Size Self Describing Name format for custom  
 311 sizes is almost identical to the format for the standardized sizes.

```
312 custom-media-size-self-describing-name =
313     "custom" [ "-" "_" size-name ] "_" short-dim "-" "x" long-dim units
314     units = "in" | "mm"
```

315 Refer to section 5.1 for the remaining ABNF definitions for the above.

316 **5.2.1 *units*** These values define the units of measure for the media size. The units currently defined  
 317 are inches (*in*) and millimeters (*mm*).

318 **5.2.1-2 Example:** A custom form measuring 6 inches by 14 inches known as "long and narrow".

319 **custom-long-and-narrow\_6-x14in** or **custom-~~ln~~6-x14in**

320 **5.2.2—3** The *size-name* "max" shall be reserved to indicate an upper size limit of either a device or  
 321 application. Also, the *size-name* "min" shall be reserved to indicate a lower size limit. Example: For a  
 322 device that can process forms as small as 2 x 3 inches to 18 x 36 inches:

323 **custom-max\_18-36in** and **custom-min\_2-3in**

### 324 5.3 Conventions for the Tables

325 The rest of this section contains the tables of Media Size Self Describing Names. Within a table  
 326 entries from different sources are grouped together. The entries in these groups are arranged in order  
 327 of increasing size of the smaller dimension.

328 The presence of "(envelope)" in the Alias column indicates this size is also commonly used for  
 329 envelopes. It does not imply that this size is only available as an envelope media type.

330 **Table 343 - North American Standard Sheet Media Sizes**

| Legacy Name           | Ref. | Alias (common name)      | Self Describing Name (inches)       |
|-----------------------|------|--------------------------|-------------------------------------|
|                       |      | index-3x5                | na- <u>index</u> -3x5_3x5in         |
|                       |      | personal (envelope)      | na- <u>personal</u> _3.625x6.5in    |
| monarch-envelope      | 2    |                          | na- <u>monarch</u> _3.875x7.5in     |
| na-number-9-envelope  | 1, 2 |                          | na- <u>number-9</u> _3.875x8.875in  |
|                       |      | index-4x6                | na- <u>index</u> -4x6_4x6in         |
| na-number-10-envelope | 1, 2 |                          | na- <u>number-10</u> _4.125x9.5in   |
|                       |      | a2 (envelope)            | na- <u>a2</u> _4.375x5.75in         |
|                       |      | number-11 (envelope)     | na- <u>number-11</u> _4.5x10.375in  |
|                       |      | number-12 (envelope)     | na- <u>number-12</u> _4.75x11in     |
|                       |      | 5x7                      | na- <u>5x7</u> _5x7in               |
|                       |      | index-5x8                | na- <u>index</u> -5x8_5x8in         |
|                       |      | number-14 (envelope)     | na- <u>number-14</u> _5x11.5in      |
| invoice               | 2    | statement, mini          | na- <u>invoice</u> _5.5x8.5in       |
|                       |      | index-4x6-ext            | na- <u>index</u> -4x6-ext_6x8in     |
| na-6x9-envelope       | 1, 2 | 6x9-envelope             | na- <u>6x9</u> _6x9in               |
|                       |      | c5-envelope              | na- <u>c5</u> _6.5x9.5in            |
| na-7x9-envelope       | 1, 2 | 7x9 (envelope)           | na- <u>7x9</u> _7x9in               |
| executive             | 2    |                          | na- <u>executive</u> _7.25x10.5in   |
| na-8x10               | 2    | government-letter        | na- <u>govt-letter</u> _8x10in      |
|                       |      | government-legal         | na- <u>govt-legal</u> _8x13in       |
| quarto                | 2    |                          | na- <u>quarto</u> _8.5x10.83in      |
| na-letter             | 1, 2 | letter, a, engineering-a | na- <u>letter</u> _8.5x11in         |
|                       |      | fanfold-European         | na- <u>fanfold-eur</u> _8.5x12in    |
|                       |      | letter-plus              | na- <u>letter-plus</u> _8.5x12.69in |
|                       |      | foolscap                 | na- <u>foolscap</u> _8.5x13in       |

331

332

**Table 3 - North American Standard Sheet Media Sizes (continued)**

| Legacy Name                       | Ref. | Alias (common name)                           | Self Describing Name (inches)             |
|-----------------------------------|------|---|---|
| <a href="#">na-legal</a>          | 1, 2 | <a href="#">legal</a>                         | <a href="#">na legal 8.5x14in</a>         |
|                                   |      | <a href="#">super-a</a>                       | <a href="#">na super-a 8.94x14in</a>      |
| <a href="#">na-9x11-envelope</a>  | 1, 2 | <a href="#">9x11, letter-tab (envelope)</a>   | <a href="#">na 9x11 9x11in</a>            |
| <a href="#">arch-a</a>            | 2    | <a href="#">architecture-a (envelope)</a>     | <a href="#">na arch-a 9x12in</a>          |
|                                   |      | <a href="#">letter-extra</a>                  | <a href="#">na letter-extra 9.5x12in</a>  |
|                                   |      | <a href="#">legal-extra</a>                   | <a href="#">na legal-extra 9.5x15in</a>   |
|                                   |      | <a href="#">10x11</a>                         | <a href="#">na 10x11 10x11in</a>          |
| <a href="#">na-10x13-envelope</a> | 1, 2 | <a href="#">10x13 (envelope)</a>              | <a href="#">na 10x13 10x13in</a>          |
| <a href="#">na-10x14-envelope</a> | 1, 2 | <a href="#">10x14 (envelope)</a>              | <a href="#">na 10x14 10x14in</a>          |
| <a href="#">na-10x15-envelope</a> | 1, 2 | <a href="#">10x15 (envelope)</a>              | <a href="#">na 10x15 10x15in</a>          |
|                                   |      | <a href="#">11x12</a>                         | <a href="#">na 11x12 11x12in</a>          |
|                                   |      | <a href="#">edp</a>                           | <a href="#">na edp 11x14in</a>            |
|                                   |      | <a href="#">fanfold-us</a>                    | <a href="#">na fanfold-us 11x14.875in</a> |
|                                   |      | <a href="#">11x15</a>                         | <a href="#">na 11x15 11x15in</a>          |
| <a href="#">ledger</a>            | 2    | <a href="#">b, engineering-b</a>              | <a href="#">na ledger 11x17in</a>         |
|                                   |      | <a href="#">european-edp</a>                  | <a href="#">na- eur-edp_12x14in</a>       |
| <a href="#">arch-b</a>            | 2    | <a href="#">architecture-b, tabloid-extra</a> | <a href="#">na- arch-b_12x18in</a>        |
|                                   |      | <a href="#">b-plus</a>                        | <a href="#">na- b-plus_12x19.17in</a>     |
|                                   |      | <a href="#">super-b</a>                       | <a href="#">na- super-b_13x19in</a>       |
| <a href="#">c</a>                 | 2    | <a href="#">engineering-c</a>                 | <a href="#">na- c_17x22in</a>             |
| <a href="#">arch-c</a>            | 2    | <a href="#">architecture-c</a>                | <a href="#">na- arch-c_18x24in</a>        |
| <a href="#">d</a>                 | 2    | <a href="#">engineering-d</a>                 | <a href="#">na- d_22x34in</a>             |
| <a href="#">arch-d</a>            | 2    | <a href="#">architecture-d</a>                | <a href="#">na- arch-d_24x36in</a>        |
| <a href="#">f</a>                 | 5    | <a href="#">e1</a>                            | <a href="#">na- asme- f_28x40in</a>       |
|                                   |      | <a href="#">wide-format</a>                   | <a href="#">na- wide-format_30x42in</a>   |
| <a href="#">e</a>                 | 2    | <a href="#">engineering-e</a>                 | <a href="#">na- e_34x44in</a>             |
| <a href="#">arch-e</a>            | 2    | <a href="#">architecture-e</a>                | <a href="#">na- arch-e_36x48in</a>        |
|                                   |      | <a href="#">f, engineering-f</a>              | <a href="#">na- f_44x68in</a>             |

333

334

335

**Table 454 - ISO Standard Sheet Media Sizes**

| Legacy Name             | Ref. | Alias (common name)      | Self Describing Name (mm)                   |
|-------------------------|------|--------------------------|---|
| <a href="#">iso-a10</a> | 1, 2 | <a href="#">a10</a>      | <a href="#">iso- a10_26x37mm</a>            |
| <a href="#">iso-a9</a>  | 1, 2 | <a href="#">a9</a>       | <a href="#">iso- a9_37x52mm</a>             |
| <a href="#">iso-a8</a>  | 1, 2 | <a href="#">a8</a>       | <a href="#">iso- a8_52x74mm</a>             |
| <a href="#">iso-a7</a>  | 1, 2 | <a href="#">a7</a>       | <a href="#">iso- a7_74x105mm</a>            |
| <a href="#">iso-a6</a>  | 1, 2 | <a href="#">a6</a>       | <a href="#">iso- a6_105x148mm</a>           |
| <a href="#">iso-a5</a>  | 1, 2 | <a href="#">a5</a>       | <a href="#">iso- a5_148x210mm</a>           |
|                         |      | <a href="#">a5-extra</a> | <a href="#">iso- a5-extra_174x235mm</a>     |
| <a href="#">iso-a4</a>  | 1, 2 | <a href="#">a4</a>       | <a href="#">iso- a4_210x297mm</a>           |
|                         |      | <a href="#">a4-tab</a>   | <a href="#">iso- a4-tab_225x297mm</a>       |
|                         |      | <a href="#">a4-extra</a> | <a href="#">iso- a4-extra_235.5x322.3mm</a> |

336

337

**Table 4 - ISO Standard Sheet Media Sizes (continued)**

| Legacy Name                    | Ref.                 | Alias (common name) | Self Describing Name (mm)              |
|--------------------------------|----------------------|---------------------|--|
| <a href="#">iso-a3</a>         | <a href="#">1, 2</a> | <a href="#">a3</a>  | <a href="#">iso_a3_297x420mm</a>       |
| <a href="#">iso-a4x3, a4x3</a> | <a href="#">2, 4</a> |                     | <a href="#">iso_a4x3_297x630mm</a>     |
| <a href="#">iso-a4x4, a4x4</a> | <a href="#">2, 4</a> |                     | <a href="#">iso_a4x4_297x841mm</a>     |
| <a href="#">iso-a4x5, a4x5</a> | <a href="#">2, 4</a> |                     | <a href="#">iso_a4x5_297x1051mm</a>    |
| <a href="#">iso-a4x6, a4x6</a> | <a href="#">2, 4</a> |                     | <a href="#">iso_a4x6_297x1261mm</a>    |
| <a href="#">iso-a4x7, a4x7</a> | <a href="#">2, 4</a> |                     | <a href="#">iso_a4x7_297x1471mm</a>    |
| <a href="#">iso-a4x8, a4x8</a> | <a href="#">2, 4</a> |                     | <a href="#">iso_a4x8_297x1682mm</a>    |
| <a href="#">iso-a4x9, a4x9</a> | <a href="#">2, 4</a> |                     | <a href="#">iso_a4x9_297x1892mm</a>    |
| <a href="#">iso-a3-extra</a>   |                      |                     | <a href="#">iso_a3-extra_322x445mm</a> |
| <a href="#">iso-a2</a>         | <a href="#">1, 2</a> | <a href="#">a2</a>  | <a href="#">iso_a2_420x594mm</a>       |
| <a href="#">iso-a3x3, a3x3</a> | <a href="#">2, 4</a> |                     | <a href="#">iso_a3x3_420x891mm</a>     |
| <a href="#">iso-a3x4, a3x4</a> | <a href="#">2, 4</a> |                     | <a href="#">iso_a3x4_420x1189mm</a>    |
| <a href="#">iso-a3x5, a3x5</a> | <a href="#">2, 4</a> |                     | <a href="#">iso_a3x5_420x1486mm</a>    |
| <a href="#">iso-a3x6, a3x6</a> | <a href="#">2, 4</a> |                     | <a href="#">iso_a3x6_420x1783mm</a>    |
| <a href="#">iso-a3x7, a3x7</a> | <a href="#">2, 4</a> |                     | <a href="#">iso_a3x7_420x2080mm</a>    |
| <a href="#">iso-a1</a>         | <a href="#">1, 2</a> | <a href="#">a1</a>  | <a href="#">iso_a1_594x841mm</a>       |
| iso-a2x3, a2x3                 | 2, 4                 |                     | iso-_a2x3_594x1261mm                   |
| iso-a2x4, a2x4                 | 2, 4                 |                     | iso-_a2x4_594x1682mm                   |
| iso-a2x5, a2x5                 | 2, 4                 |                     | iso-_a2x5_594x2102mm                   |
| iso-a0                         | 1, 2                 |                     | iso-_a0_841x1189mm                     |
| iso-a1x3, a1x3                 | 2, 4                 |                     | iso-_a1x3_841x1783mm                   |
| iso-a1x4, a1x4                 | 2, 4                 |                     | iso-_a1x4_841x2378mm                   |
| a0x2                           | 4                    | 2a0                 | iso-_2a0_1189x1682mm                   |
| a0x3                           | 4                    |                     | iso-_a0x3_1189x2523mm                  |
|                                |                      | 4a0                 | iso-_4a0_1682x2378mm                   |
| iso-b10                        | 1, 2                 | b10                 | iso-_b10_31x44mm                       |
| iso-b9                         | 1, 2                 | b9                  | iso-_b9_44x62mm                        |
| iso-b8                         | 1, 2                 | b8                  | iso-_b8_62x88mm                        |
| iso-b7                         | 1, 2                 | b7                  | iso-_b7_88x125mm                       |
| iso-b6                         | 1, 2                 | b6 (envelope)       | iso-_b6_125x176mm                      |
|                                |                      | b6/c4 (envelope)    | iso-_b6c4_125x324mm                    |
| iso-b5                         | 1, 2                 | b5 (envelope)       | iso-_b5_176x250mm                      |
|                                |                      | b5-extra            | iso-_b5-extra_201x276mm                |
| iso-b4                         | 1, 2                 | b4 (envelope)       | iso-_b4_250x353mm                      |
| iso-b3                         | 1, 2                 | b3                  | iso-_b3_353x500mm                      |
| iso-b2                         | 1, 2                 | b2                  | iso-_b2_500x707mm                      |
| iso-b1                         | 1, 2                 | b1                  | iso-_b1_707x1000mm                     |
| iso-b0                         | 1, 2                 | b0                  | iso-_b0_1000x1414mm                    |
|                                |                      | c10 (envelope)      | iso-_c10_28x40mm                       |
|                                |                      | c9 (envelope)       | iso-_c9_40x57mm                        |
| iso-c8                         | 1                    | c8 (envelope)       | iso-_c8_57x81mm                        |
| iso-c7                         | 1                    | c7 (envelope)       | iso-_c7_81x114mm                       |
|                                |                      | c7/c6 (envelope)    | iso-_c7c6_81x162mm                     |

338

339

**Table 4 - ISO Standard Sheet Media Sizes (continued)**

| Legacy Name    | Ref. | Alias (common name)            | Self Describing Name (mm) |
|----------------|------|--------------------------------|---------------------------|
| iso-c6         | 1, 2 | c6 (envelope)                  | iso_c6_114x162mm          |
|                |      | c6/c5 (envelope)               | iso_c6c5_114x229mm        |
| iso-c5         | 1, 2 | c5 (envelope)                  | iso_c5_162x229mm          |
| iso-c4         | 1, 2 | c4 (envelope)                  | iso_c4_229x324mm          |
| iso-c3         | 1, 2 | c3 (envelope)                  | iso_c3_324x458mm          |
| iso-c2         | 1    | c2 (envelope)                  | iso_c2_458x648mm          |
| iso-c1         | 1    | c1 (envelope)                  | iso_c1_648x917mm          |
| iso-c0         | 1    | c0 (envelope)                  | iso_c0_917x1297mm         |
| iso-designated | 1, 2 | designated-long, dl (envelope) | iso_dl_110x220mm          |
| iso-ra2        |      |                                | iso_ra2_430x610mm         |
| iso-sra2       |      |                                | iso_sra2_450x640mm        |
| iso-ra1        |      |                                | iso_ra1_610x860mm         |
| iso-sra1       |      |                                | iso_sra1_640x900mm        |
| iso-ra0        |      |                                | iso_ra0_860x1220mm        |
| iso-sra0       |      |                                | iso_sra0_900x1280mm       |

340

341

**Table 565 - Japanese Standard Sheet Media Sizes**

| Legacy Name | Ref. | Alias (common name) | Self Describing Name (mm) |
|-------------|------|---------------------|---------------------------|
| jis-b10     | 1, 2 |                     | jis_b10_32x45mm           |
| jis-b9      | 1, 2 |                     | jis_b9_45x64mm            |
| jis-b8      | 1, 2 |                     | jis_b8_64x91mm            |
| jis-b7      | 1, 2 |                     | jis_b7_91x128mm           |
| jis-b6      | 1, 2 |                     | jis_b6_128x182mm          |
| jis-b5      | 1, 2 |                     | jis_b5_182x257mm          |
| jis-b4      | 1, 2 |                     | jis_b4_257x364mm          |
| jis-b3      | 1, 2 |                     | jis_b3_364x515mm          |
| jis-b2      | 1, 2 |                     | jis_b2_515x728mm          |
| jis-b1      | 1, 2 |                     | jis_b1_728x1030mm         |
| jis-b0      | 1, 2 |                     | jis_b0_1030x1456mm        |
|             |      | exec                | jis_exec_216x330mm        |
|             |      | chou4 (envelope)    | jpn_chou4_90x205mm        |
|             |      | hagaki (postcard)   | jpn_hagaki_100x148mm      |
|             |      | you4 (envelope)     | jpn_you4_105x235mm        |
|             |      | chou2 (envelope)    | jpn_chou2_111.1x146mm     |
|             |      | chou3 (envelope)    | jpn_chou3_120x235mm       |
|             |      | oufuku (postcard)   | jpn_oufuku_148x200mm      |
|             |      | Kahu (envelope)     | jpn_kahu_240x322.1mm      |
|             |      | kaku2 (envelope)    | jpn_kaku2_240x332mm       |
|             |      | )                   |                           |

342

343

**Table 676 - Chinese Standard Sheet Media Sizes**

| Legacy Name | Ref. | Alias (common name) | Self Describing Name (mm) |
|-------------|------|---------------------|---------------------------|
|             |      | prc-32k             | prc-32k_97x151mm          |
|             |      | prc1 (envelope)     | prc-1_102x165mm           |
|             |      | prc2 (envelope)     | prc-2_102x176mm           |
|             |      | prc4 (envelope)     | prc-4_110x208mm           |
|             |      | prc5 (envelope)     | prc-5_110x220mm           |
|             |      | prc8 (envelope)     | prc-8_120x309mm           |
|             |      | prc6 (envelope)     | prc-6_120x320mm           |
|             |      | prc3 (envelope)     | prc-3_125x176mm           |
|             |      | prc-16k             | prc-16k_146x215mm         |
|             |      | prc7 (envelope)     | prc-7_160x230mm           |
|             |      | roc-16k             | roc-16k_195x270mm         |
|             |      | juuro-ku-kai        | om-juuro-ku-kai_198x275mm |
|             |      | prc9 (envelope)     | prc-9_229x324mm           |
|             |      | pa-kai              | om-pa-kai_267x389mm       |
|             |      | roc-8k              | roc-8k_270x390mm          |
|             |      | dai-pa-kai          | om-dai-pa-kai_275x395mm   |
|             |      | prc10 (envelope)    | prc-10_324x458mm          |

344

345

346

**Table 787 - Other Metric Standard Sheet Media Sizes**

| Legacy Name | Ref. | Alias (common name) | Self Describing Name (mm) |
|-------------|------|---------------------|---------------------------|
|             |      | Italian (envelope)  | om-italian_100x230mm      |
|             |      | Postfix (envelope)  | om-postfix_114x229mm      |
| folio       | 2    |                     | om-folio_210x330mm        |
|             |      | folio-sp            | om-folio-sp_215x315mm     |
|             |      | Invite (envelope)   | om-invite_220x220mm       |

347

## 348 6 Conformance Requirements

349 The Media Type Names, Media Color Names, and Media Size Self Describing ~~Media Size~~ Names  
 350 defined in this document are recommended for any future specifications that have a need for media  
 351 type, media color, or media size definitions, ~~or media finish,~~ respectively. The proper procedure for  
 352 including these names is to simply reference this specification as the definition and source of the media  
 353 types, colors, or sizes with the clause "or subsequent revisions". In this manner, any updates to this  
 354 document are automatically included in the referencing specification.

355 Media Names defined in this specification are presented using lower case characters. Other referencing  
 356 standards may impose case sensitive rules if necessary. For interoperability and implementation



357 efficiency, this standard strongly recommends these names be used in the lower case form defined in  
358 this document.

359 The Media Size Self Describing Names defined in this document contains significantly more  
360 information than is found in many current standards. Conformance to this standard does not require  
361 that all parts of the Media Size Name be represented. It is conformant to only use the "size-name" or  
362 the "class\_size-name" portion. It is also acceptable to replace the underscore separator between the  
363 "class" and "size-name" with a hyphen.

## 364 **7 Registration Procedures for Additional Names**

365 This standard will be republished as needed, but not more often than once a year. In the interium, new  
366 Media Type Names, Media Color Names, and Media Size Self Describing Names can be registered  
367 and have the same status as the standardized names in this document.

368  
369 Request are to be submitted by email to the [pwg@pwg.org](mailto:pwg@pwg.org) mailing list. The proposed name must  
370 include a description and must follow the same patterns as the standardized names currently included  
371 in the standard. Any name submitted without a description will be rejected. The process is identical to  
372 the PWG Draft standard approval process (see <ftp://ftp.pwg.org/pub/pwg/general/pwg-process.pdf>).

373 After approval, the name and description will be available, with the Media Standardized Names  
374 standard at: <ftp://ftp.pwg.org/pub/pwg/standards/>. The file name for the new name will be of the form  
375 pwg5101.1-xxx, to indicate it is an addition to the pwg5101.1 standard. Such registrations will have  
376 the same status as all names in the published standard.

377 All names that are registered in this manner will be included in the next revision of the standard and  
378 the included registrations will be removed from the directory.

## 379 **78 Internationalization Considerations**

380 All standardized textual strings must be represented as US-ASCII character codes and local  
381 translations must never be performed. Custom sizes, if limited to local use, may be represented using  
382 any desired character set.

## 383 **89 Security Considerations**

384 This specification will have no impact on the security burden of or potential threats to the importing  
385 system.

## 386 **910 References**

387 [ASME-IN]

388 ASME Y14-1995, Decimal Inch Drawing Sheet Size and Format, The American Society of  
389 Mechanical Engineers.

- 390 [ASME-M]  
391 ASME Y14.M-1995, Metric Drawing Sheet Size and Format, The American Society of  
392 Mechanical Engineers.
- 393 [DPA]  
394 ISO/IEC 10175, Document Printing Application, June 1996.
- 395 [FEATURES]  
396 Masinter, L., et al, "Media Features for Display, Print, and Fax", RFC 2534, March 1999.
- 397 [IPP-MOD]  
398 Hastings, T., Herriot, R., deBry, R., Isaacson, S., and P. Powell, "Internet Printing Protocol/1.1:  
399 Model and Semantics", RFC 2911, September 2000.
- 400 [IPP-PROD]  
401 IEEE-ISTO Std. 5100.3-2001, IPP Production Printing Attributes – Set 1, February 2001.  
402 Available at: <ftp://ftp.pwg.org/pub/pwg/standards/pwg5100.3.pdf>, .doc, .rtf
- 403 [PRT-MIB]  
404 Smith, R., Wright, F., Hastings, T., Zilles, S., Gyllenskog, J., "Printer MIB", RFC 1759, March  
405 1995.
- 406 [TAG-REG]  
407 Holtman, K., Mutz, A. and T. Hardie, "Feature Tag Registration Procedures", BCP 31, RFC  
408 2506, March 1999.
- 409 [TIP/SI]  
410 IEEE Std 1284.1-1997, IEEE Standard for Information Technology, Transport Independent  
411 Printer/System Interface.

## 412 **1011 Author's Address**

413 Ron Bergman  
414 Hitachi Koki Imaging Solutions  
415 1757 Tapo Canyon Road  
416 Simi Valley, CA 93063-3394  
417  
418 Phone: 805 578 4421  
419 Fax: 805 578 4005  
420 e-mail: [rbergma@hitachi-hkis.com](mailto:rbergma@hitachi-hkis.com)  
421

422 Tom Hastings  
423 Xerox Corporation  
424 737 Hawaii St.  
425 El Segundo, CA 90245  
426

427 Phone: 310 333-6413  
 428 Fax: 310 333-5514  
 429 e-mail: [hastings@cp10.es.xerox.com](mailto:hastings@cp10.es.xerox.com)

430 Additional contributors:

431  
 432 Harry Lewis - IBM Corporation  
 433 Jim Lo - Sun Microsystems  
 434 Roelof Hamberg - Oce

435 Contact information:

436 IPP Web Page: <http://www.pwg.org/ipp/>  
 437 IPP Mailing List: [ipp@pwg.org](mailto:ipp@pwg.org)

438 To subscribe to the ipp mailing list, send the following email:

439 1) send it to [majordomo@pwg.org](mailto:majordomo@pwg.org)  
 440 2) leave the subject line blank  
 441 3) put the following two lines in the message body:  
 442 subscribe ipp  
 443 end

444 Implementers of this specification are encouraged to join the IPP Mailing List in order to participate in  
 445 any discussions of clarifications or review of registration proposals for additional names. Requests for  
 446 additional names, for inclusion in this specification, should be sent to the IPP Mailing list for  
 447 consideration.

## 448 [1412](#) Appendix A: Media Names Usage in Existing Standards (informative)

449 This appendix provides a cross reference between the usage of media names in existing standards and  
 450 the appropriate group in this document. Future revisions of these standards should reference this  
 451 document as the source of this information. No attempt will be made to update this appendix when  
 452 additional standards reference this document; the existing references will suffice.

### 453 The Printer MIB [PRT-MIB]

454

| Standard Media Name | Printer MIB usage                           |
|---------------------|---|
| Media Type Name     | <code>prtInputMediaType</code>              |
| Media Color Name    | <code>prtInputMediaColor</code>             |
| Media Size Name     | Appendix B "Media Sizes Names" (see note 1) |

455 **The Internet Printing Protocol, Model and Semantics [IPP-MOD]**  
 456

| Standard Media Name             | IPP Model Usage  |
|---------------------------------|--|
| Media Type Name                 | Keyword values of the "media" Job Template attribute, including the "media-default", "media-ready", and "media-supported" Printer attributes |
| Media Size Self Describing Name | Keyword values of the "media" Job Template attribute, including the "media-default", "media-ready", and "media-supported" Printer attributes |

457 **The Internet Printing Protocol, Production Printing Attributes [IPP-PROD]**  
 458

| Standard Media Name | IPP Production Printing Usage (see notes 2 and 3) |
|---------------------|---|
| Media Type Name     | Keyword values of the "media-type"                |
| Media Color Name    | Keyword values of the "media-color"               |

459 **Notes:**

- 460 1. Printer MIB size names do not include the dimensions part. The dimension are represented by the  
 461 objects prtInputMediaDimFeedDirDeclared, prtInputMediaDimXFeedDirDeclared,  
 462 prtInputMediaDimFeedDirChosen, and prtInputMediaDimXFeedDirChosen.
- 463 2. The Production Printing Attributes referenced are all member attributes of the "media-col" Job  
 464 Template attribute.
- 465 3. The media sizes are included in the "media-size" member attribute of the "media-col" Job  
 466 Template attribute as a pair of numeric values (mm/100).

467 **13 Appendix B: Parser Considerations for the Media Size Name (informative)**

468 Special consideration needs to be made during the development of a parser for the Media Size Name.  
 469 Since additional "class" names and "size-names" may be defined in the future, in many cases the parser  
 470 must not be strictly conformant to the ABNF. The following is intended to provide guidelines for the  
 471 development of client parsers and device parsers:

472 **Client Parsers:** There are several degrees of client which display something to the user for selection  
 473 and MAY format documents (where it would need to know the dimensions):

474 **a. non-formatting client:** In this case, the parser treats the string as a unit and might simply display it  
 475 to the user as is, no parsing is required. If the parser localizes and finds a string that it doesn't  
 476 recognize, then it can just display the entire string as received, or perhaps breaks it up into separate  
 477 pieces separated by a space. Such a client most likely doesn't format documents, so it will not even  
 478 care about the dimensions, only the user and Printer do.

479 **b. client does formatting:** Now the client will separate the class field, the name field, and the  
 480 dimension field. The class and name fields may be displayed as is or localized, and the dimensions are  
 481 converted to the units preferred by the user. If a class or name field isn't recognized, it will be  
 482 displayed it as is, perhaps separated by a space. The dimensions will also be converted to the internal  
 483 units for formatting documents.

484 **Device Parsers:** On the Printer side, there are two cases to consider, the one that doesn't support  
485 client's inventing custom sizes and the one that does. If the Printer displays media sizes to an operator  
486 or on an op panel, then that parser code has the same problems as the client (see above).

487 **a. device doesn't support client-defined custom sizes:** In this situation the parser doesn't even need  
488 to parse the string. It simply compares the entire string with a list of supported strings, including  
489 system administrator defined custom sizes. If there isn't a match, the Printer doesn't support that  
490 requested size and takes the appropriate action.

491 **b. device supports client-invented custom sizes:** Here the Printer parser must look at the class field  
492 for "custom", then parse the dimensions and check for a valid range and then possibly convert to the  
493 Printer's internal units.

494 ~~1214~~ **Appendix C: Description of the IEEE Industry Standards and Technology**  
495 ~~(ISTO)~~ **Appendix B: Description of the IEEE Industry Standards and**  
496 **Technology (ISTO)**

497 The IEEE-ISTO is a not-for-profit corporation offering industry groups an innovative and flexible  
498 operational forum and support services. The IEEE-ISTO provides a forum not only to develop  
499 standards, but also to facilitate activities that support the implementation and acceptance of standards  
500 in the marketplace. The organization is affiliated with the IEEE (<http://www.ieee.org/>) and the IEEE  
501 Standards Association (<http://standards.ieee.org/>).

502 For additional information regarding the IEEE-ISTO and its industry programs visit:  
503 <http://www.ieee-isto.org>

504 ~~1315~~ **Appendix D: Description of the IEEE-ISTO PWG**

505 The Printer Working Group (or PWG) is a Program of the IEEE Industry Standards and Technology  
506 Organization (ISTO) with member organizations including printer manufacturers, print server  
507 developers, operating system providers, network operating systems providers, network connectivity  
508 vendors, and print management application developers. The group is chartered to make printers and  
509 the applications and operating systems supporting them work together better. All references to the  
510 PWG in this document implicitly mean "The Printer Working Group, a Program of the IEEE ISTO." In  
511 order to meet this objective, the PWG will document the results of their work as open standards that  
512 define print related protocols, interfaces, procedures and conventions. Printer manufacturers and  
513 vendors of printer related software will benefit from the interoperability provided by voluntary  
514 conformance to these standards.

515 In general, a PWG standard is a specification that is stable, well understood, and is technically  
516 competent, has multiple, independent and interoperable implementations with substantial operational  
517 experience, and enjoys significant public support.

518 For additional information regarding the Printer Working Group visit:  
519 <http://www.pwg.org>

520 **1416 Appendix **DE**: Change History [to be removed when the standard is**  
521 **approved]**

522 **16.1 Changes to D0.8, May 7, 2001, to make D0.9, May 22, 2001**

523 The following changes were made:

- 524
- 525 1. Section 3: Added a paragraph indicating that single sided or double sided is not an attribute of the  
526 Media Type Names and must be defined outside of this standard.
  - 527 2. Revised "stationery-inkjet" description. Removed "...whose coating is..." and added "May be  
528 accomplished with a coating.
  - 529 3. Section 5.1: Change to ABNF for the Media Size Name, Added "class-na" and "class-mm". Added  
530 a paragraph indicating additional class size names may be added in the future.
  - 531 4. Revised section 5.1.1: Changed "prefix" to "class-xx". Changed examples to "currently defined  
532 values". Added "asme" class. Added an ABNF definition for future names.
  - 533 5. Revised section 5.1.4: Removed "units" definition. Revised remaining text to clarify that  
534 dimensional units must never be changed with a Media Size Name.
  - 535 6. Revised section 5.2: Corrected ABNF format to agree with section 5.1. Added a line to the ABNF  
536 to define "units".
  - 537 7. Added section 5.2.1 to provide a verbal description of units.
  - 538 8. Sections 5.2.2 and 5.2.3: Corrected format of examples to agree with ABNF.
  - 539 9. Revised all names in section 5.3 to agree with ABNF.
  - 540 10. Section 6: Added specific conformance information for Media Size Names.
  - 541 11. Added section 7 "Registration Procedures for Additional Names"
  - 542 12. Added Appendix B "Parser Considerations for the Media Size Name"
- 543

544 **14.116.2 Changes to D0.7, April 20, 2001, to make D0.8, May 7, 2001**

545 The following changes were made:

- 546
- 547 1. Section 2: Changed "Media Finish Name" to "media finish" and modified the definition.
  - 548 2. Added IPP Production Printing Attributes as a reference to section 3 and 4. Modified table 1 and 2  
549 adding a "5" in the reference column to indicate this document references the appropriate entry.
  - 550 3. Added "stationery-coated", "stationery-inkjet", "photographic-high-gloss", "photographic-semi-  
551 gloss", "photographic-satin", "photographic-matte", "photographic-film", and "back-print-film" to  
552 table 1.
  - 553 4. Major revision of section 5 to conform to new agreed format.
  - 554 5. Table 2: Changed "...should have.." to "...has..." Changed "...should be.." to "...is..."
  - 555 6. Added "f" as a legacy name to "na-e1\_28-40in" in table 3. Changed "na-e1" to "asme-f".
  - 556 7. Added "a0x3" as a legacy name to "iso-2a0\_1189-1682mm" in table 4.
  - 557 8. Added to table 4; "a4x3", "a4x4", "a4x5", "a4x6", "a4x7", "a4x8", "a4x9", "a3x3", "a3x4", "a3x5",  
558 "a3x6", "a3x7", "a2x3", "a2x4", "a2x5", "a1x3", "a1x4", and "a0x3".
  - 559 9. Moved na-roc-16k and na-roc-8k to Chinese table (6), removed "na-" and dimensions changed to  
560 mm. It was pointed out by Don Levinstone (WaveMark Solutions) that roc is Republic of China  
561 (now Taiwan).

- 562 10. Removed section 6 "Media Finish Names". All mention of Finish Names and Finishings also  
563 removed from sections 1 and new 6.  
564 11. Added a reference for ASME Y14 to section 9.  
565 12. Appendix A, table for IPP-MOD: Added a new row with "Media Self Describing Name" in column  
566 1 and column 2 identical to the previous row. Added "Keyword values of the ..." to column 2.  
567 13. Appendix a, table for IPP-PROD: Deleted MediaFinish Name row. Added "Keyword values of the  
568 ..." to both remaining column 2's.

569 **14.216.3 Changes to D0.6, April 9, 2001, to make D0.7, April 20, 2001**

570 The following changes were made:

- 571  
572 1. Added to definition of Legacy Name: "This name is provided for historical context."  
573 2. Removed single quotes from color names in table 2.  
574 3. Added an example to paragraphs 3.1, 4.1 and 6.1.  
575 4. Removed "The prefix string shall be included in all Media Size Self Describing Names that contain  
576 size dimensions that are to be interpreted as English units." This sentence was redundant.  
577 5. Corrected "iso-a5-extra" name in Table 4. The "-extra" part was missing.  
578 6. Removed single quotes from finish names and "MUST" from the definitions in table 8.  
579 7. Changed "custom-finish-type-" to "custom-media-finish-" in section 6.1.  
580 8. Inserted a new Appendix A "Media Names Usage in Existing Standards (informative)".  
581 9. Changed all RFC references to names that are independent of the numbers.  
582 10. Added a URL to the IPP-PROD reference.

583 **14.316.4 Changes to D0.5, March 26, 2001, to make D0.6, April 9, 2001**

584 The following changes were made:

- 585  
586 1. Added "Media Finish Name" definition to section 1, 1.1, 2, and 7.  
587 2. Removed "other" from Table 1. The custom media type name is to be used instead.  
588 3. Added "roll" to Table 1.  
589 4. Changed "[REG]" to "[ RFC2506]" in section 3 and added the reference information to section 10.  
590 5. Corrected the ABNF for "size-name" in section 5.1 (removed second "|" "-" ).  
591 6. Removed text regarding case sensitivity from section 5.1.4. New text on this subject added to  
592 section 7.  
593 7. Corrected second example in section 5.1.5 ("2970" was "29700").  
594 8. Added 5.2.5 to define "custom-max" and "custom-min".  
595 9. Added section 6, Media Finish Names.  
596 10. Added [PROD] reference to section 10.  
597 11. Added IPP contact information to section 10, plus a sentence explaining how to request new names  
598 to be added to the document.  
599

600 **14.416.5 Changes to D0.4, March 21, 2001, to make D0.5, March 26, 2001**

601 The following changes were made:

602

- 603 1. Title in Abstract corrected. Was “Media Size Standardized Names.”  
604 2. Section 1 “...practice based upon PPD and GPD files to describe...” was “...practice around PPD  
605 and GPD files that describe...”  
606 3. In definition for Media Size Self Describing Name: “...Media Dimensions that correspond to the  
607 Media Size Name.” was “...Media Dimensions of that correspond to its Media Size Name.”  
608 4. Replaced “Printer MIB” and “RFC 2534” columns in Table 1 with “Ref.” Column, to be more  
609 consistent with the size tables. Modified the text accordingly.  
610 5. Added section 3.1 Custom Media Type Names.  
611 6. Added a “Ref.” Column to Table 2 and removed the text that attempted to provide this same  
612 information.  
613 7. Added section 4.1 Custom Media Color Names.  
614 8. Combined paragraphs 5.1.5 and 5.1.6.  
615 9. Added to paragraph 5.3: “The presence of “(envelope)” in the Alias column indicates this size is  
616 also commonly used for envelopes. It does not imply that this size is only available as an envelope  
617 media type.”  
618 10. Merged envelope sizes into the corresponding sheet sizes tables. The string “envelope” has been  
619 removed from all envelope size names.  
620 11. Added “government-legal” to Table 3.  
621 12. Added “juuro-ku-kai”, “pa-kai”, and “dai-pa\_kai” to Table 6.  
622 13. Removed “IANA Considerations” section.  
623

624 **14.516.6 Changes to D0.3, February 22, 2001, to make D0.4, March 21, 2001**

625 The following changes were made:

- 626
- 627 1. Added more Terminology
  - 628 2. Added Media Type Names
  - 629 3. Added Media Color Names
  - 630 4. Used ABNF to define the syntax for Media Size Self Describing Names