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Media Standardized Names

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Abstract

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

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

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93 1 Introduction

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

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

110 1.1 Scope

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

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

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

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

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

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

131

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

137 2 Terminology

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

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

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

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

149 **ISO** International Organization for Standardization.

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

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

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

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

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

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

163 **Media Size Name** The human readable name that identifies a particular media size. Examples:
 164 'iso_a4', 'na_letter', 'monarch'.

165 **Media Size Self Describing Name** (or **Media Size** for short) An ASCII string that contains a Media
 166 Size Name and the Media Dimensions that correspond to the Media Size Name. Examples:
 167 'iso_a4_210x297mm', 'na_letter_8.500-x11in', 'na_monarch_3.875x7.5in'.

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

170 3 Media Type Names

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

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

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

179 1 = The Printer MIB [PRT-MIB].

180 3 = Media Features for Display, Print, and Fax [FEATURES].

181 5 = IPP Production Printing Attributes [IPP-PROD] The name in this document is derived
 182 from the "media-front-coating" and "media-back-coating" member attributes by adding the
 183 'photographic-' prefix to the IPP keyword values.

184 **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 designed to minimize the spread of liquid inks. May be accomplished using a coating	
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 (either pre-cut or full-cut)	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.	

185

186

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 (For example, a sheet of peel-off labels).	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.	

187 **3.1 Custom Media Type Names**

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

```

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

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

197 **4 Media Color Names**

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

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

203 1 = The Printer MIB [PRT-MIB].

204 5 = I PP Production Printing [IPP-PROD], “media-color” member attribute keywords.

205 **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.

206

207 **4.1 Custom Media Color Names**

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

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

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

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

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

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

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

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

217 **5 Media Size Self Describing Names**

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

222 *Ref* column entry definitions:

223 1 = Printer MIB [PRT-MIB] and ISO DPA [DPA]. (Both documents contain an identical set.)

224 2 = IPP [IPP-MOD].

225 4 = ASME Y14 [ASME-IN]

226 5 = ASME Y14.M [ASME-M]

227 5.1 Media Size Self Describing Name Format

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

```

233  media-size-self-describing-name =
234      ( class-na "_" size-name "_" short-dim "x" long-dim "in" ) |
235      ( class-mm "_" size-name "_" short-dim "x" long-dim "mm" )
236  class-na = "na" | "asme" | "oe"
237  class-mm = "iso" | "jis" | "jpn" | "prc" | "roc" | "om"
238  size-name = ( lowalpha | digit ) *( lowalpha | digit | "-" )
239  short-dim = dim
240  long-dim = dim
241  dim = integer-part [fraction-part] | "0" fraction-part
242  integer-part = non-zero-digit *digit
243  fraction-part = "." *digit non-zero-digit
244  lowalpha = "a" | "b" | "c" | "d" | "e" | "f" | "g" | "h" | "i" |
245            "j" | "k" | "l" | "m" | "n" | "o" | "p" | "q" | "r" |
246            "s" | "t" | "u" | "v" | "w" | "x" | "y" | "z"
247  non-zero-digit = "1" | "2" | "3" | "4" | "5" | "6" | "7" | "8" | "9"
248  digit = "0" | "1" | "2" | "3" | "4" | "5" | "6" | "7" | "8" | "9"
  
```

249 The above ABNF is provided to formally define the structure of the Media Size name. Implementers
 250 should be aware that the currently defined class names may be expanded in the future to cover new
 251 groups of media sizes. Thus client parser implementations that are developed using this ABNF should
 252 accept class names that are not currently represented in this list.

253 **5.1.1 class-xx** This string part is present to indicate the name space or jurisdiction for the size name
 254 in order to prevent name clashes. Currently defined values are "na" for North America, "asme" for
 255 American Society of Mechanical Engineers, "iso" for the International Standards Organization, "jis"
 256 for Japanese Information Standard, "jpn" for Japan, "prc" for People's Republic of China, "roc" for
 257 Republic of China (Taiwan), "oe" for other English, and "om" for other metric. New class names must
 258 conform to the following ABNF:

```

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

260 **5.1.2 size-name** This string provides a textual description of the media size. It is normally derived
 261 from the Legacy or Alias name associated with the media size. The size-name can consist of multiple
 262 parts, with each part separated by a hyphen (0x2D).

263 **5.1.3 *short-dim* and *long-dim*** These values define the media size. The *short-dim* is always the
 264 smaller of the two dimensions. The dimensions are presented in decimal format to as many places as
 265 necessary to define the size. Trailing zeros must never be used if a decimal portion is present.

266 **5.1.4** For interchange between programs, the dimensions presented in this standard must never be
 267 converted to the another system of units, but must remain as defined in this standard. Furthermore, an
 268 identical size shall never appear in this standard with different units. Programs may convert the
 269 dimensions to other units when displaying these names to human users and for internal use, both of
 270 which are outside the scope of this standard.

271 **5.1.5 General**

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

273 Wherever possible, the Media Size Self Describing Name has been derived from the Legacy Name. In
 274 many cases the 'class_size-name' portion is identical to the Legacy Name. In the remaining cases, the
 275 'class' portion must be ignored to match the Legacy Name.

276 **5.1.6 Examples:**

277 The letter size (8.5 inches by 11 inches) used in North America: **na_letter_8.5x11in**

278 The iso A4 size (210 mm by 297 mm) used in metric countries: **iso_a4_210x297mm**

279 **5.2 Custom Media Size Self Describing Name Format**

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

```
284     custom-media-size-self-describing-name =
285         "custom" [ "_" size-name ] "_" short-dim "x" long-dim units
286     units = "in" | "mm"
```

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

288 **5.2.1 *units*** These values define the units of measure for the media size. The units currently defined
 289 are inches (*in*) and millimeters (*mm*).

290 **5.2.2 Example:** A custom form measuring 6 inches by 14 inches known as "long and narrow".

291 **custom_long-and-narrow_6x14in** or **custom_6x14in**

292 **5.2.3** The *size-name* "max" shall be reserved to indicate an upper size limit of either a device or
 293 application. Also, the *size-name* "min" shall be reserved to indicate a lower size limit. Example: For a
 294 device that can process forms as small as 2 x 3 inches to 18 x 36 inches:

295 **custom_max_18-36in** and **custom_min_2-3in**

296 **5.3 Conventions for the Tables**

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

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

302 **Table 3 - North American Standard Sheet Media Sizes**

Legacy Name	Ref.	Alias (common name)	Self Describing Name (inches)
		index-3x5	na_index-3x5_3x5in
		personal (envelope)	na_personal_3.625x6.5in
monarch-envelope	2		na_monarch_3.875x7.5in
na-number-9-envelope	1, 2		na_number-9_3.875x8.875in
		index-4x6	na_index-4x6_4x6in
na-number-10-envelope	1, 2		na_number-10_4.125x9.5in
		a2 (envelope)	na_a2_4.375x5.75in
		number-11 (envelope)	na_number-11_4.5x10.375in
		number-12 (envelope)	na_number-12_4.75x11in
		5x7	na_5x7_5x7in
		index-5x8	na_index-5x8_5x8in
		number-14 (envelope)	na_number-14_5x11.5in
invoice	2	statement, mini	na_invoice_5.5x8.5in
		index-4x6-ext	na_index-4x6-ext_6x8in
na-6x9-envelope	1, 2	6x9-envelope	na_6x9_6x9in
		c5-envelope	na_c5_6.5x9.5in
na-7x9-envelope	1, 2	7x9 (envelope)	na_7x9_7x9in
executive	2		na_executive_7.25x10.5in
na-8x10	2	government-letter	na_govt-letter_8x10in
		government-legal	na_govt-legal_8x13in
quarto	2		na_quarto_8.5x10.83in
na-letter	1, 2	letter, a, engineering-a	na_letter_8.5x11in
		fanfold-European	na_fanfold-eur_8.5x12in
		letter-plus	na_letter-plus_8.5x12.69in
		foolscap	na_foolscap_8.5x13in

303

304

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

Legacy Name	Ref.	Alias (common name)	Self Describing Name (inches)
na-legal	1, 2	legal	na_legal_8.5x14in
		super-a	na_super-a_8.94x14in
na-9x11-envelope	1, 2	9x11, letter-tab (envelope)	na_9x11_9x11in
arch-a	2	architecture-a (envelope)	na_arch-a_9x12in
		letter-extra	na_letter-extra_9.5x12in
		legal-extra	na_legal-extra_9.5x15in
		10x11	na_10x11_10x11in
na-10x13-envelope	1, 2	10x13 (envelope)	na_10x13_10x13in
na-10x14-envelope	1, 2	10x14 (envelope)	na_10x14_10x14in
na-10x15-envelope	1, 2	10x15 (envelope)	na_10x15_10x15in
		11x12	na_11x12_11x12in
		edp	na_edp_11x14in
		fanfold-us	na_fanfold-us_11x14.875in
		11x15	na_11x15_11x15in
ledger	2	b, engineering-b	na_ledger_11x17in
		european-edp	na_eur-edp_12x14in
arch-b	2	architecture-b, tabloid-extra	na_arch-b_12x18in
		b-plus	na_b-plus_12x19.17in
		super-b	na_super-b_13x19in
c	2	engineering-c	na_c_17x22in
arch-c	2	architecture-c	na_arch-c_18x24in
d	2	engineering-d	na_d_22x34in
arch-d	2	architecture-d	na_arch-d_24x36in
f	5	e1	asme_f_28x40in
		wide-format	na_wide-format_30x42in
e	2	engineering-e	na_e_34x44in
arch-e	2	architecture-e	na_arch-e_36x48in
		f, engineering-f	na_f_44x68in

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Table 4 - ISO Standard Sheet Media Sizes

Legacy Name	Ref.	Alias (common name)	Self Describing Name (mm)
iso-a10	1, 2	a10	iso_a10_26x37mm
iso-a9	1, 2	a9	iso_a9_37x52mm
iso-a8	1, 2	a8	iso_a8_52x74mm
iso-a7	1, 2	a7	iso_a7_74x105mm
iso-a6	1, 2	a6	iso_a6_105x148mm
iso-a5	1, 2	a5	iso_a5_148x210mm
		a5-extra	iso_a5-extra_174x235mm
iso-a4	1, 2	a4	iso_a4_210x297mm
		a4-tab	iso_a4-tab_225x297mm
		a4-extra	iso_a4-extra_235.5x322.3mm

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Table 4 - ISO Standard Sheet Media Sizes (continued)

Legacy Name	Ref.	Alias (common name)	Self Describing Name (mm)
iso-a3	1, 2	a3	iso_a3_297x420mm
iso-a4x3, a4x3	2, 4		iso_a4x3_297x630mm
iso-a4x4, a4x4	2, 4		iso_a4x4_297x841mm
iso-a4x5, a4x5	2, 4		iso_a4x5_297x1051mm
iso-a4x6, a4x6	2, 4		iso_a4x6_297x1261mm
iso-a4x7, a4x7	2, 4		iso_a4x7_297x1471mm
iso-a4x8, a4x8	2, 4		iso_a4x8_297x1682mm
iso-a4x9, a4x9	2, 4		iso_a4x9_297x1892mm
iso-a3-extra			iso_a3-extra_322x445mm
iso-a2	1, 2	a2	iso_a2_420x594mm
iso-a3x3, a3x3	2, 4		iso_a3x3_420x891mm
iso-a3x4, a3x4	2, 4		iso_a3x4_420x1189mm
iso-a3x5, a3x5	2, 4		iso_a3x5_420x1486mm
iso-a3x6, a3x6	2, 4		iso_a3x6_420x1783mm
iso-a3x7, a3x7	2, 4		iso_a3x7_420x2080mm
iso-a1	1, 2	a1	iso_a1_594x841mm
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

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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

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Table 5 - 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
)	

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Table 6 - 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

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Table 7 - 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

316

317 6 Conformance Requirements

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

324 Media Names defined in this specification are presented using lower case characters. Other referencing
 325 standards may impose case sensitive rules if necessary. For interoperability and implementation
 326 efficiency, this standard strongly recommends these names be used in the lower case form defined in
 327 this document.

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

333 **7 Registration Procedures for Additional Names**

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

337
338 Request are to be submitted by email to the pwg@pwg.org mailing list. The proposed name must
339 include a description and must follow the same patterns as the standardized names currently included
340 in the standard. Any name submitted without a description will be rejected. The process is identical to
341 the PWG Draft standard approval process (see <ftp://ftp.pwg.org/pub/pwg/general/pwg-process.pdf>).

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

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

348 **8 Internationalization Considerations**

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

352 **9 Security Considerations**

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

355 **10 References**

356 [ASME-IN]

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

- 359 [ASME-M]
360 ASME Y14.M-1995, Metric Drawing Sheet Size and Format, The American Society of
361 Mechanical Engineers.
- 362 [DPA]
363 ISO/IEC 10175, Document Printing Application, June 1996.
- 364 [FEATURES]
365 Masinter, L., et al, "Media Features for Display, Print, and Fax", RFC 2534, March 1999.
- 366 [IPP-MOD]
367 Hastings, T., Herriot, R., deBry, R., Isaacson, S., and P. Powell, "Internet Printing Protocol/1.1:
368 Model and Semantics", RFC 2911, September 2000.
- 369 [IPP-PROD]
370 IEEE-ISTO Std. 5100.3-2001, IPP Production Printing Attributes – Set 1, February 2001.
371 Available at: <ftp://ftp.pwg.org/pub/pwg/standards/pwg5100.3.pdf>, .doc, .rtf
- 372 [PRT-MIB]
373 Smith, R., Wright, F., Hastings, T., Zilles, S., Gyllenskog, J., "Printer MIB", RFC 1759, March
374 1995.
- 375 [TAG-REG]
376 Holtman, K., Mutz, A. and T. Hardie, "Feature Tag Registration Procedures", BCP 31, RFC
377 2506, March 1999.
- 378 [TIP/SI]
379 IEEE Std 1284.1-1997, IEEE Standard for Information Technology, Transport Independent
380 Printer/System Interface.

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405 IPP Web Page: <http://www.pwg.org/ipp/>
 406 IPP Mailing List: ipp@pwg.org

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

408 1) send it to majordomo@pwg.org
 409 2) leave the subject line blank
 410 3) put the following two lines in the message body:
 411 subscribe ipp
 412 end

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

417 **12 Appendix A: Media Names Usage in Existing Standards (informative)**

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

422 **The Printer MIB [PRT-MIB]**

423

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)

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

425

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

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

427

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"

428 **Notes:**

- 429 1. Printer MIB size names do not include the dimensions part. The dimension are represented by the
 430 objects prtInputMediaDimFeedDirDeclared, prtInputMediaDimXFeedDirDeclared,
 431 prtInputMediaDimFeedDirChosen, and prtInputMediaDimXFeedDirChosen.
- 432 2. The Production Printing Attributes referenced are all member attributes of the "media-col" Job
 433 Template attribute.
- 434 3. The media sizes are included in the "media-size" member attribute of the "media-col" Job
 435 Template attribute as a pair of numeric values (mm/100).

436 **13 Appendix B: Parser Considerations for the Media Size Name (informative)**

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

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

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

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

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

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

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

463 **14 Appendix C: Description of the IEEE Industry Standards and Technology** 464 **(ISTO)**

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

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

472 **15 Appendix D: Description of the IEEE-ISTO PWG**

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

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

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

488 **16 Appendix E: Change History [to be removed when the standard is approved]**

489 **16.1 Changes to D0.8, May 7, 2001, to make D0.9, May 22, 2001**

490 The following changes were made:

491

- 492 1. Section 3: Added a paragraph indicating that single sided or double sided is not an attribute of the
- 493 Media Type Names and must be defined outside of this standard.
- 494 2. Revised "stationery-inkjet" description. Removed "...whose coating is..." and added "May be
- 495 accomplished with a coating.
- 496 3. Section 5.1: Change to ABNF for the Media Size Name, Added "class-na" and "class-mm". Added
- 497 a paragraph indicating additional class size names may be added in the future.
- 498 4. Revised section 5.1.1: Changed "prefix" to "class-xx". Changed examples to "currently defined
- 499 values". Added "asme" class. Added an ABNF definition for future names.
- 500 5. Revised section 5.1.4: Removed "units" definition. Revised remaining text to clarify that
- 501 dimensional units must never be changed with a Media Size Name.
- 502 6. Revised section 5.2: Corrected ABNF format to agree with section 5.1. Added a line to the ABNF
- 503 to define "units".
- 504 7. Added section 5.2.1 to provide a verbal description of units.
- 505 8. Sections 5.2.2 and 5.2.3: Corrected format of examples to agree with ABNF.
- 506 9. Revised all names in section 5.3 to agree with ABNF.
- 507 10. Section 6: Added specific conformance information for Media Size Names.
- 508 11. Added section 7 "Registration Procedures for Additional Names"
- 509 12. Added Appendix B "Parser Considerations for the Media Size Name"
- 510

511 **16.2 Changes to D0.7, April 20, 2001, to make D0.8, May 7, 2001**

512 The following changes were made:

513

- 514 1. Section 2: Changed "Media Finish Name" to "media finish" and modified the definition.
- 515 2. Added IPP Production Printing Attributes as a reference to section 3 and 4. Modified table 1 and 2
- 516 adding a "5" in the reference column to indicate this document references the appropriate entry.
- 517 3. Added "stationery-coated", "stationery-inkjet", "photographic-high-gloss", "photographic-semi-
- 518 gloss", "photographic-satin", "photographic-matte", "photographic-film", and "back-print-film" to
- 519 table 1.
- 520 4. Major revision of section 5 to conform to new agreed format.
- 521 5. Table 2: Changed "...should have.." to "...has..." Changed "...should be.." to "...is..."
- 522 6. Added "f" as a legacy name to "na-e1_28-40in" in table 3. Changed "na-e1" to "asme-f".
- 523 7. Added "a0x3" as a legacy name to "iso-2a0_1189-1682mm" in table 4.
- 524 8. Added to table 4; "a4x3", "a4x4", "a4x5", "a4x6", "a4x7", "a4x8", "a4x9", "a3x3", "a3x4", "a3x5",
- 525 "a3x6", "a3x7", "a2x3", "a2x4", "a2x5", "a1x3", "a1x4", and "a0x3".
- 526 9. Moved na-roc-16k and na-roc-8k to Chinese table (6), removed "na-" and dimensions changed to
- 527 mm. It was pointed out by Don Levinstone (WaveMark Solutions) that roc is Republic of China
- 528 (now Taiwan).

- 529 10. Removed section 6 "Media Finish Names". All mention of Finish Names and Finishings also
530 removed from sections 1 and new 6.
531 11. Added a reference for ASME Y14 to section 9.
532 12. Appendix A, table for IPP-MOD: Added a new row with "Media Self Describing Name" in column
533 1 and column 2 identical to the previous row. Added "Keyword values of the ..." to column 2.
534 13. Appendix a, table for IPP-PROD: Deleted MediaFinish Name row. Added "Keyword values of the
535 ..." to both remaining column 2's.

536 **16.3 Changes to D0.6, April 9, 2001, to make D0.7, April 20, 2001**

537 The following changes were made:

- 538
539 1. Added to definition of Legacy Name: "This name is provided for historical context."
540 2. Removed single quotes from color names in table 2.
541 3. Added an example to paragraphs 3.1, 4.1 and 6.1.
542 4. Removed "The prefix string shall be included in all Media Size Self Describing Names that contain
543 size dimensions that are to be interpreted as English units." This sentence was redundant.
544 5. Corrected "iso-a5-extra" name in Table 4. The "-extra" part was missing.
545 6. Removed single quotes from finish names and "MUST" from the definitions in table 8.
546 7. Changed "custom-finish-type-" to "custom-media-finish-" in section 6.1.
547 8. Inserted a new Appendix A "Media Names Usage in Existing Standards (informative)".
548 9. Changed all RFC references to names that are independent of the numbers.
549 10. Added a URL to the IPP-PROD reference.

550 **16.4 Changes to D0.5, March 26, 2001, to make D0.6, April 9, 2001**

551 The following changes were made:

- 552
553 1. Added "Media Finish Name" definition to section 1, 1.1, 2, and 7.
554 2. Removed "other" from Table 1. The custom media type name is to be used instead.
555 3. Added "roll" to Table 1.
556 4. Changed "[REG]" to "[RFC2506]" in section 3 and added the reference information to section 10.
557 5. Corrected the ABNF for "size-name" in section 5.1 (removed second "|" "-").
558 6. Removed text regarding case sensitivity from section 5.1.4. New text on this subject added to
559 section 7.
560 7. Corrected second example in section 5.1.5 ("2970" was "29700").
561 8. Added 5.2.5 to define "custom-max" and "custom-min".
562 9. Added section 6, Media Finish Names.
563 10. Added [PROD] reference to section 10.
564 11. Added IPP contact information to section 10, plus a sentence explaining how to request new names
565 to be added to the document.
566

567 **16.5 Changes to D0.4, March 21, 2001, to make D0.5, March 26, 2001**

568 The following changes were made:

569

- 570 1. Title in Abstract corrected. Was “Media Size Standardized Names.”
571 2. Section 1 “...practice based upon PPD and GPD files to describe...” was “...practice around PPD
572 and GPD files that describe...”
573 3. In definition for Media Size Self Describing Name: “...Media Dimensions that correspond to the
574 Media Size Name.” was “...Media Dimensions of that correspond to its Media Size Name.”
575 4. Replaced “Printer MIB” and “RFC 2534” columns in Table 1 with “Ref.” Column, to be more
576 consistent with the size tables. Modified the text accordingly.
577 5. Added section 3.1 Custom Media Type Names.
578 6. Added a “Ref.” Column to Table 2 and removed the text that attempted to provide this same
579 information.
580 7. Added section 4.1 Custom Media Color Names.
581 8. Combined paragraphs 5.1.5 and 5.1.6.
582 9. Added to paragraph 5.3: “The presence of “(envelope)” in the Alias column indicates this size is
583 also commonly used for envelopes. It does not imply that this size is only available as an envelope
584 media type.”
585 10. Merged envelope sizes into the corresponding sheet sizes tables. The string “envelope” has been
586 removed from all envelope size names.
587 11. Added “government-legal” to Table 3.
588 12. Added “juuro-ku-kai”, “pa-kai”, and “dai-pa_kai” to Table 6.
589 13. Removed “IANA Considerations” section.
590

591 **16.6 Changes to D0.3, February 22, 2001, to make D0.4, March 21, 2001**

592 The following changes were made:

- 593
594 1. Added more Terminology
595 2. Added Media Type Names
596 3. Added Media Color Names
597 4. Used ABNF to define the syntax for Media Size Self Describing Names