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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.

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122 1 Introduction

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

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

139 1.1 Scope

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

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

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

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

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

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

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

166 2 Terminology

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

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

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

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

178 **ISO** International Organization for Standardization.

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

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

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

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

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

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

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

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

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

199 3 Media Type Names

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

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

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

208 1 = The Printer MIB [PRT-MIB].

209 3 = Media Features for Display, Print, and Fax [FEATURES].

210 5 = IPP Production Printing Attributes [IPP-PROD] The name in this document is derived
211 from the "media-front-coating" and "media-back-coating" member attributes by adding the
212 'photographic-' prefix to the IPP keyword values.

213 [6 = IPP Production Printing Attributes \[IPP-PROD\] The name in this document is derived](#)
214 [from the "media-pre-printed" member attributes by adding the 'stationery-' prefix to the](#)
215 [IPP keyword values.](#)

216 **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	
stationery-preprinted	Separately cut sheets of an opaque material with a preprinted image.	6
stationery-letterhead	Separately cut sheets of an opaque material with a preprinted letterhead.	6
stationery-prepunched	Separately cut sheets of an opaque material that are punched with an unspecified hole pattern.	
stationery-fine	Separately cut sheets of vellum or other high quality opaque material.	
stationery-heavyweight	Separately cut sheets of a heavy stock opaque material.	
stationery-lightweight	Separately cut sheets of a light stock opaque material.	

217

218

Table 1 - Standardized Media Type Names (continued)

Keyword	Description	Ref.
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.	
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.	

219 **3.1 Custom Media Type Names**

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

```

222 custom-media-type-name = "custom-media-type-" type-name
223 type-name = lowalpha *( lowalpha | digit | "-" )
224 lowalpha = "a" | "b" | "c" | "d" | "e" | "f" | "g" | "h" | "i" |
225 "j" | "k" | "l" | "m" | "n" | "o" | "p" | "q" | "r" |
226 "s" | "t" | "u" | "v" | "w" | "x" | "y" | "z"
    
```


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

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

229 4 Media Color Names

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

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

235 1 = The Printer MIB [PRT-MIB].

236 5 = I PP Production Printing [IPP-PROD], "media-color" member attribute keywords.

237 **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.

238

239 4.1 Custom Media Color Names

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

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

243 `color-name = lowalpha *(lowalpha | 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 `digit = "0" | "1" | "2" | "3" | "4" | "5" | "6" | "7" | "8" | "9"`

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

249 5 Media Size Self Describing Names

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

254 *Ref* column entry definitions:

255 1 = Printer MIB [PRT-MIB] and ISO DPA [DPA]. (Both documents contain an identical set.)
 256 2 = IPP [IPP-MOD].
 257 4 = ASME Y14 [ASME-IN]
 258 5 = ASME Y14.M [ASME-M]

259 5.1 Media Size Self Describing Name Format

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

```

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

```

281 The above ABNF is ~~provided to formally define the structure of the Media Size name~~[current as of the](#)
 282 [date of publication this document](#). Implementers should be aware that the currently defined class
 283 names may be expanded in the future to cover new groups of media sizes. Thus client parser
 284 implementations that are developed using this ABNF should accept class names that are not currently

285 represented in this list. [The latest ABNF, which shall always be the proper reference for use within](#)
286 [this standard, may be obtained at:](#)

287 <ftp://ftp.pwg.org/pub/pwg/standards/pwg5101-abnf.txt>

288

289 **5.1.1 class-xx** This string part is present to indicate the name space or jurisdiction for the size name
290 in order to prevent name clashes. Currently defined values are 'ha' for North America, 'asme' for
291 American Society of Mechanical Engineers, 'iso' for the International Standards Organization, 'jis'
292 for Japanese Information Standard, 'jpn' for Japan, 'prc' for People's Republic of China, 'roc' for
293 Republic of China (Taiwan), 'be' for other English, and 'bm' for other metric. ["custom" defines a](#)
294 [unique class name that allows site and vendor unique size definitions, see paragraph 5.1.7.](#) New class
295 names must conform to the following ABNF:

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

297 **5.1.2 size-name** This string provides a textual description of the media size. It is normally derived
298 from the Legacy or Alias name associated with the media size. The size-name can consist of multiple
299 parts, with each part separated by a hyphen (0x2D).

300 **5.1.3 short-dim and long-dim** These values define the media size. The *short-dim* is always the
301 smaller of the two dimensions. The dimensions are presented in decimal format to as many places as
302 necessary to define the size. Trailing zeros must never be used if a decimal portion is present.

303 **5.1.4** For interchange between programs, the dimensions presented in this standard must never be
304 converted to the another system of units, but must remain as defined in this standard. Furthermore, an
305 identical size shall never appear in this standard with different units. Programs may convert the
306 dimensions to other units when displaying these names to human users and for internal use, both of
307 which are outside the scope of this standard.

308 **5.1.5 General**

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

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

313 **5.1.6 Examples:**

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

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

316 ~~5.2~~**5.1.7 Custom Media Size Self Describing Name s Format**

317 The ~~Custom~~ **"class-custom" Media Size Self Describing Name format** allows extensibility of the media
318 size set without an update to this specification. This feature is primarily intended for special media

319 sizes that are used at a minimum number of locations. ~~The Media Size Self Describing Name format~~
 320 ~~for custom sizes is almost identical to the format for the standardized sizes~~Size names that use the
 321 "class-custom" prefix are never registered or published within this standard.

322 ~~— custom-media-size-self-describing-name =~~
 323 ~~"custom" ["-" size-name] "-" short-dim "x" long-dim units~~
 324 ~~— units = "in" | "mm"~~

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

326 ~~5.2.1 units~~ These values define the units of measure for the media size. ~~The units currently defined~~
 327 ~~are inches (in) and millimeters (mm).~~

328 ~~5.2.2 Example:~~ A custom form measuring 6 inches by 14 inches known as "long and narrow".

329 ~~custom_long_and_narrow_6x14in or custom_6x14in~~

330 5.2 Reserved Size Names

331 ~~5.2.3~~ The *size-name* "max" shall be reserved to indicate an upper size limit of either a device or
 332 application. Also, the *size-name* "min" shall be reserved to indicate a lower size limit. Example: For a
 333 device that can process forms as small as 2 x 3 inches to 18 x 36 inches:

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

335 **5.3 Conventions for the Tables**

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

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

341 **Table 33 - 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, half-letter	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, german-legal-fanfold	na_foolscap_8.5x13in

342

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
ledgertabloid	2	ledger , b, engineering-b	na_ledger_11x17in
		european-edp	na_eur-edp_12x14in
arch-b	2	architecture-b, tabloid-extra	na_arch-b_12x18in
		12x19	na_12x19_12x19in
		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

343

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Table 45 - 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

350

Table 66 - 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 77 - Other Metric Standard Sheet Media Sizes

Legacy Name	Ref.	Alias (common name)	Self Describing Name (mm)
		small-photo	om_small-photo_100x150mm
		Italian (envelope)	om_italian_100x230mm
		Postfix (envelope)	om_postfix_114x229mm
		large-photo	om_large-photo_200x300
folio	2		om_folio_210x330mm
		folio-sp	om_folio-sp_215x315mm
		Invite (envelope)	om_invite_220x220mm

354

355 6 Conformance Requirements

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

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

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

371 **7 Registration Procedures for Additional Names**

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

375
376 Request are to be submitted by email to the pwg@pwg.org mailing list. The proposed name must
377 include a description and must follow the same patterns as the standardized names currently included
378 in the standard. Any name submitted without a description will be rejected. The process is identical to
379 the PWG Draft standard approval process (see <ftp://ftp.pwg.org/pub/pwg/general/pwg-process.pdf>).

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

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

386 **8 Internationalization Considerations**

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

390 **9 Security Considerations**

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

393 **10 References**

394 [ASME-IN]

395 ASME Y14-1995, Decimal Inch Drawing Sheet Size and Format, The American Society of
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- 397 [ASME-M]
398 ASME Y14.M-1995, Metric Drawing Sheet Size and Format, The American Society of
399 Mechanical Engineers.
- 400 [DPA]
401 ISO/IEC 10175, Document Printing Application, June 1996.
- 402 [FEATURES]
403 Masinter, L., et al, "Media Features for Display, Print, and Fax", RFC 2534, March 1999.
- 404 [IPP-MOD]
405 Hastings, T., Herriot, R., deBry, R., Isaacson, S., and P. Powell, "Internet Printing Protocol/1.1:
406 Model and Semantics", RFC 2911, September 2000.
- 407 [IPP-PROD]
408 IEEE-ISTO Std. 5100.3-2001, IPP Production Printing Attributes – Set 1, February 2001.
409 Available at: <ftp://ftp.pwg.org/pub/pwg/standards/pwg5100.3.pdf>, .doc, .rtf
- 410 [PRT-MIB]
411 Smith, R., Wright, F., Hastings, T., Zilles, S., Gyllenskog, J., "Printer MIB", RFC 1759, March
412 1995.
- 413 [TAG-REG]
414 Holtman, K., Mutz, A. and T. Hardie, "Feature Tag Registration Procedures", BCP 31, RFC
415 2506, March 1999.
- 416 [TIP/SI]
417 IEEE Std 1284.1-1997, IEEE Standard for Information Technology, Transport Independent
418 Printer/System Interface.

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 444 IPP Mailing List: ipp@pwg.org

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

446 1) send it to majordomo@pwg.org
 447 2) leave the subject line blank
 448 3) put the following two lines in the message body:
 449 subscribe ipp
 450 end

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

455 12 Appendix A: Media Names Usage in Existing Standards (informative)

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

460 The Printer MIB [PRT-MIB]

461

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)

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

463

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

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

465

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"

466 **Notes:**

- 467 1. Printer MIB size names do not include the dimensions part. The dimension are represented by the
 468 objects prtInputMediaDimFeedDirDeclared, prtInputMediaDimXFeedDirDeclared,
 469 prtInputMediaDimFeedDirChosen, and prtInputMediaDimXFeedDirChosen.
- 470 2. The Production Printing Attributes referenced are all member attributes of the "media-col" Job
 471 Template attribute.
- 472 3. The media sizes are included in the "media-size" member attribute of the "media-col" Job
 473 Template attribute as a pair of numeric values (mm/100).

474 **13 Appendix B: Parser Considerations for the Media Size Name (informative)**

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

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

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

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

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

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

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

501 **14 Appendix C: Description of the IEEE Industry Standards and Technology** 502 **(ISTO)**

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

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

510 **15 Appendix D: Description of the IEEE-ISTO PWG**

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

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

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

526 16 Appendix E: Change History [to be removed when the standard is approved]

527 16.1 Changes to D0.9, May 22, 2001, to make D0.10, July 16, 2001

528 The following changes were made:

529

- 530 1. Section 3: Added reference number 6 and new Media Type Names "stationery-preprinted",
531 "stationery-letterhead", "stationery-prepunched", "stationery-fine", "stationery-heavyweight", and
532 "stationery-lightweight".
- 533 2. Section 5.1: Changed "class-na" to "class-in". Added "custom" to the class-in and class-mm list.
534 Modified last paragraph of 5.1.
- 535 3. Section 5.1.1: Modified to add "custom".
- 536 4. 5.1.7: New section derived from section 5.2 which has been removed.
- 537 5. Section 5.2.3 is now section 5.2 "Reserved Size Names".
- 538 6. Table 3: Added alias "half-letter" and "german-legal-fanfold". Replaced "ledger" with "tabloid"
539 and added "ledger" as an alias. Added "na_12x19_12x19in"
- 540 7. Table 6: Removed "prc9_229x324mm", this is identical to c3.
- 541 8. Table 7: Added "om_small-photo_100x150mm" and "om_large-photo_200x300mm".

542

543 ~~16.1~~16.2 Changes to D0.8, May 7, 2001, to make D0.9, May 22, 2001

544 The following changes were made:

545

- 546 1. Section 3: Added a paragraph indicating that single sided or double sided is not an attribute of the
547 Media Type Names and must be defined outside of this standard.
- 548 2. Revised "stationery-inkjet" description. Removed "...whose coating is..." and added "May be
549 accomplished with a coating."
- 550 3. Section 5.1: Change to ABNF for the Media Size Name, Added "class-na" and "class-mm". Added
551 a paragraph indicating additional class size names may be added in the future.
- 552 4. Revised section 5.1.1: Changed "prefix" to "class-xx". Changed examples to "currently defined
553 values". Added "asme" class. Added an ABNF definition for future names.
- 554 5. Revised section 5.1.4: Removed "units" definition. Revised remaining text to clarify that
555 dimensional units must never be changed with a Media Size Name.
- 556 6. Revised section 5.2: Corrected ABNF format to agree with section 5.1. Added a line to the ABNF
557 to define "units".
- 558 7. Added section 5.2.1 to provide a verbal description of units.
- 559 8. Sections 5.2.2 and 5.2.3: Corrected format of examples to agree with ABNF.
- 560 9. Revised all names in section 5.3 to agree with ABNF.
- 561 10. Section 6: Added specific conformance information for Media Size Names.
- 562 11. Added section 7 "Registration Procedures for Additional Names"
- 563 12. Added Appendix B "Parser Considerations for the Media Size Name"

564

565 ~~16.2~~16.3 Changes to D0.7, April 20, 2001, to make D0.8, May 7, 2001

566 The following changes were made:

567

- 568 1. Section 2: Changed "Media Finish Name" to "media finish" and modified the definition.
- 569 2. Added IPP Production Printing Attributes as a reference to section 3 and 4. Modified table 1 and 2
570 adding a "5" in the reference column to indicate this document references the appropriate entry.
- 571 3. Added "stationery-coated", "stationery-inkjet", "photographic-high-gloss", "photographic-semi-
572 gloss", "photographic-satin", "photographic-matte", "photographic-film", and "back-print-film" to
573 table 1.
- 574 4. Major revision of section 5 to conform to new agreed format.
- 575 5. Table 2: Changed "...should have.." to "...has..." Changed "...should be.." to "...is..."
- 576 6. Added "f" as a legacy name to "na-e1_28-40in" in table 3. Changed "na-e1" to "asme-f".
- 577 7. Added "a0x3" as a legacy name to "iso-2a0_1189-1682mm" in table 4.
- 578 8. Added to table 4; "a4x3", "a4x4", "a4x5", "a4x6", "a4x7", "a4x8", "a4x9", "a3x3", "a3x4", "a3x5",
579 "a3x6", "a3x7", "a2x3", "a2x4", "a2x5", "a1x3", "a1x4", and "a0x3".
- 580 9. Moved na-roc-16k and na-roc-8k to Chinese table (6), removed "na-" and dimensions changed to
581 mm. It was pointed out by Don Levinstone (WaveMark Solutions) that roc is Republic of China
582 (now Taiwan).
- 583 10. Removed section 6 "Media Finish Names". All mention of Finish Names and Finishings also
584 removed from sections 1 and new 6.
- 585 11. Added a reference for ASME Y14 to section 9.
- 586 12. Appendix A, table for IPP-MOD: Added a new row with "Media Self Describing Name" in column
587 1 and column 2 identical to the previous row. Added "Keyword values of the ..." to column 2.
- 588 13. Appendix a, table for IPP-PROD: Deleted MediaFinish Name row. Added "Keyword values of the
589 ..." to both remaining column 2's.

590 ~~16.3~~16.4 Changes to D0.6, April 9, 2001, to make D0.7, April 20, 2001

591 The following changes were made:

592

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

604 ~~16.4~~16.5 Changes to D0.5, March 26, 2001, to make D0.6, April 9, 2001

605 The following changes were made:

606

- 607 1. Added "Media Finish Name" definition to section 1, 1.1, 2, and 7.
- 608 2. Removed "other" from Table 1. The custom media type name is to be used instead.
- 609 3. Added "roll" to Table 1.
- 610 4. Changed "[REG]" to "[RFC2506]" in section 3 and added the reference information to section 10.
- 611 5. Corrected the ABNF for "size-name" in section 5.1 (removed second "| "-" ").
- 612 6. Removed text regarding case sensitivity from section 5.1.4. New text on this subject added to
- 613 section 7.
- 614 7. Corrected second example in section 5.1.5 ("2970" was "29700").
- 615 8. Added 5.2.5 to define "custom-max" and "custom-min".
- 616 9. Added section 6, Media Finish Names.
- 617 10. Added [PROD] reference to section 10.
- 618 11. Added IPP contact information to section 10, plus a sentence explaining how to request new names
- 619 to be added to the document.
- 620

621 ~~16.5~~16.6 Changes to D0.4, March 21, 2001, to make D0.5, March 26, 2001

622 The following changes were made:

- 623
- 624 1. Title in Abstract corrected. Was "Media Size Standardized Names."
- 625 2. Section 1 "...practice based upon PPD and GPD files to describe..." was "...practice around PPD
- 626 and GPD files that describe..."
- 627 3. In definition for Media Size Self Describing Name: "...Media Dimensions that correspond to the
- 628 Media Size Name." was "...Media Dimensions of that correspond to its Media Size Name."
- 629 4. Replaced "Printer MIB" and "RFC 2534" columns in Table 1 with "Ref." Column, to be more
- 630 consistent with the size tables. Modified the text accordingly.
- 631 5. Added section 3.1 Custom Media Type Names.
- 632 6. Added a "Ref." Column to Table 2 and removed the text that attempted to provide this same
- 633 information.
- 634 7. Added section 4.1 Custom Media Color Names.
- 635 8. Combined paragraphs 5.1.5 and 5.1.6.
- 636 9. Added to paragraph 5.3: "The presence of "(envelope)" in the Alias column indicates this size is
- 637 also commonly used for envelopes. It does not imply that this size is only available as an envelope
- 638 media type."
- 639 10. Merged envelope sizes into the corresponding sheet sizes tables. The string "envelope" has been
- 640 removed from all envelope size names.
- 641 11. Added "government-legal" to Table 3.
- 642 12. Added "juuro-ku-kai", "pa-kai", and "dai-pa_kai" to Table 6.
- 643 13. Removed "IANA Considerations" section.
- 644

645 ~~16.6~~16.7 Changes to D0.3, February 22, 2001, to make D0.4, March 21, 2001

646 The following changes were made:

- 647
- 648 1. Added more Terminology
- 649 2. Added Media Type Names

- 650 3. Added Media Color Names
- 651 4. Used ABNF to define the syntax for Media Size Self Describing Names