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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29   Title: Media Standardized Names

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115   **TABLE OF TABLES**

132 **1   Introduction**

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

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

149   **1.1   Scope**

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

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

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

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

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

168 presentation. Some clients may omit localization in order to simplify implementation of displaying
169 names to users.
170
171 The Media Size Self-̶-Describing Name deserves special mention. It contains both a media size name
172 and the dimensions, in case the receiver does not recognize the media size name. Such a receiver can
173 then parse the Media Size Self-̶-Describing Name and discover the intended dimensions of such an
174 unrecognized media. These names have also been defined to facilitate parsing and/or Fallback
175 presentation of either the media size name part and/or the dimensions part.

2   Terminology

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

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

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

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

188 **ISO** International Organization for Standardization.

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

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

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

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

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

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

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

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

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

209 # 3 Media Type Names

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

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

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

218   1 = The Printer MIB [PRT-MIB].
219   3 = Media Features for Display, Print, and Fax [FEATURES].
220   5 = IPP Production Printing Attributes [IPP-PROD]   The name in this document is derived
221   from the "media-front-coating" and "media-back-coating" member attributes by adding the
222   'photographic-' prefix to the IPP keyword values.
223   6 = IPP Production Printing Attributes [IPP-PROD]   The name in this document is derived
224   from the "media-pre-printed" member attributes by adding the 'stationery-' prefix to the
225   IPP keyword values.

226   **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.	

227

228   **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.	

229   3.1   Custom Media Type Names

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

```
232    custom-media-type-name = "custom-media-type-" type-name

233    type-name = lowalpha *( lowalpha | digit | "-" )

234    lowalpha = "a" | "b" | "c" | "d" | "e" | "f" | "g" | "h" | "i" |
235             "j" | "k" | "l" | "m" | "n" | "o" | "p" | "q" | "r" |
236             "s" | "t" | "u" | "v" | "w" | "x" | "y" | "z"
```

237   **digit   = "0" | "1" | "2" | "3" | "4" | "5" | "6" | "7" | "8" | "9"**

238   Example, preprinted stationery for company XYZ: **custom-media-type-xyz-letterhead**

239   4   Media Color Names

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

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

245   1 = The Printer MIB [PRT-MIB].
246   5 = I PP Production Printing [IPP-PROD], "media-color" member attribute keywords.

247   **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.

248

249   4.1   Custom Media Color Names

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

252   **custom-media-color-name = "custom-media-color-" color-name**

253   **color-name = lowalpha *(lowalpha | digit | "-")**

254   **lowalpha = "a" | "b" | "c" | "d" | "e" | "f" | "g" | "h" | "i" |**
255   **   "j" | "k" | "l" | "m" | "n" | "o" | "p" | "q" | "r" |**
256   **   "s" | "t" | "u" | "v" | "w" | "x" | "y" | "z"**

257   **digit   = "0" | "1" | "2" | "3" | "4" | "5" | "6" | "7" | "8" | "9"**

258   Example, ~~a~~ media of the color mauve: **custom-media-color-mauve**

5   Media Size Self--Describing Names

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

264 *Ref* column entry definitions:

265   1 = Printer MIB [PRT-MIB] and ISO DPA [DPA]. (Both documents contain an identical set.)
266   2 = IPP [IPP-MOD].
267   4 = ASME Y14 [ASME-IN]
268   5 = ASME Y14.M [ASME-M]

~~1.1~~5.1   Media Size Self--Describing Name Format

270 This specification defines a new Media Size Self--Describing Name format that is recommended to be
271 used by all new implementations. This new format has the Media Size Name and the Media
272 Dimensions embedded within the string and allows a device to operate without a Media Size Name to
273 Media Dimensions table. The Media Size Self--Describing Name format is structured as follows using
274 ABNF:

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

291 The above ABNF is current as of the date of publication this document. Implementers should be aware
292 that the currently defined class names may be expanded in the future to cover new groups of media
293 sizes. Thus client parser implementations that are developed using this ABNF should accept class

294   names that are not currently represented in this list. The latest ABNF, which shall always be the
295   proper reference for use within this standard, may be obtained at:

296   ftp://ftp.pwg.org/pub/pwg/standards/pwg5101-abnf.txt

297   **5.1.1** *class-xx*   This string part is present to indicate the name space or jurisdiction for the size name
298   in order to prevent name clashes. Currently defined values are 'na" for North America, 'asme" for
299   American Society of Mechanical Engineers, 'iso" for the International Standards Organization, 'jis"
300   for Japanese Information Standard, 'jpn" for Japan, 'prc" for People's Republic of China, "roc" for
301   Republic of China (Taiwan), 'oe" for other English, and 'om" for other metric. "custom" defines a
302   unique class name that allows site and vendor unique size definitions, see paragraph 5.1.7. New class
303   names must conform to the following ABNF:

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

305   **5.1.2** *size-name*   This string provides a textual description of the media size. It is normally derived
306   from the Legacy or Alias name associated with the media size. The size-name can consist of multiple
307   parts, with each part separated by a hyphen (0x2D).

308   **5.1.3**   *short-dim* and ***long-dim***   These values define the media size. The ***short-dim*** is always the
309   smaller of the two dimensions. The dimensions are presented in decimal format to as many places as
310   necessary to define the size. Trailing zeros must never be used if a decimal portion is present.

311   **5.1.4** For interchange between programs, the dimensions presented in this standard must never be
312   converted to the another system of units, but must remain as defined in this standard. Furthermore, an
313   identical size shall never appear in this standard with different units. Programs may convert the
314   dimensions to other units when displaying these names to human users and for internal use, both of
315   which are outside the scope of this standard.

316   The common usage of some names may represent several physical sizes (e.g. folio, quarto, foolscap,
317   and executive). To avoid naming conflicts, a hyphenated identifier must be used to link the names to a
318   specific size. Only one of the possible sizes may use the name without a hyphenated identifier.

319   **5.1.5 General**

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

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

324   **5.1.6 Examples:**

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

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

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327   **5.1.7   Custom Media Size Self-Describing Names**

328   The "class-custom" allows extensibility of the media size set without an update to this specification.
329   This feature is primarily intended for special media sizes that are used at a minimum number of
330   locations. Size names that use the "~~class~~ custom" prefix are never registered or published within this
331   standard.

332   **5.2   Reserved Size Names**

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

336   **custom_max_18_x36in**   and   **custom_min_2_x3in**

337   **5.3   Conventions for the Tables**

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

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

343   **Table 3~~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	comm-10 (envelope)	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

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

Legacy Name	Ref.	Alias (common name)	Self-Describing Name (inches)
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
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
tabloid	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

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Table 4 - Chinese Standard Sheet Media Inch Sizes

Legacy Name	Ref.	Alias (common name)	Self-Describing Name (mm)	
		roc-16k	roc_16k_7.75x10.75in	
		roc-8k	roc_8k_10.75x15.5in	

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Table 54 - 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	
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	a0	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	

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Table 4̶ 5 - ISO Standard Sheet Media Sizes (continued)

Legacy Name	Ref.	Alias (common name)	Self-Describing Name (mm)
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
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 6̶5̶ - 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 (reply postcard)	jpn_oufuku_148x200mm	
		K̶a̶h̶u̶ kahu (envelope)	jpn_kahu_240x322.1mm	
		kaku2 (envelope)	jpn_kaku2_240x332mm	

352

Table 7̶6̶ - 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	
		juuro-ku-kai	om_juuro-ku-kai_198x275mm	
		pa-kai	om_pa-kai_267x389mm	
		dai-pa-kai	om_dai-pa-kai_275x395mm	
		prc10 (envelope)	prc_10_324x458mm	

353

354   **Table 8~~7~~ - 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~~110x230mm	
		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	

355

6   Conformance Requirements

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

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

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

7   Registration Procedures for Additional Names

373   This standard will be republished as needed, but not more often than once a year. In the interi~~u~~m, new
374   Media Type Names, Media Color Names, and Media Size Self--Describing Names can be registered
375   and have the same status as the standardized names in this document.
376
377   Request~~s~~ are to be submitted by email to the pwg@pwg.org mailing list. The proposed name must
378   include a description and must follow the same patterns as the standardized names currently included
379   in the standard. Any name submitted without a description will be rejected. The process is identical to
380   the PWG Draft standard approval process (see ftp://ftp.pwg.org/pub/pwg/general/pwg-process.pdf).

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

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

387 **8   Internationalization Considerations**

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

391 **9   Security Considerations**

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

394 **10 References**

395 [ASME-IN]
396   ASME Y14-1995, Decimal Inch Drawing Sheet Size and Format, The American Society of
397   Mechanical Engineers.

398   [ASME-M]
399   ASME Y14.M-1995, Metric Drawing Sheet Size and Format, The American Society of
400   Mechanical Engineers.

401 [DPA]
402   ISO/IEC 10175, Document Printing Application, June 1996.

403 [FEATURES]
404   Masinter, L., et al, "Media Features for Display, Print, and Fax", RFC 2534, March 1999.

405 [IPP-MOD]
406   Hastings, T., Herriot, R., deBry, R., Isaacson, S., and P. Powell, "Internet Printing Protocol/1.1:
407   Model and Semantics", RFC 2911, September 2000.

408   [IPP-PROD]
409   IEEE-ISTO Std. 5100.3-2001, IPP Production Printing Attributes – Set 1, February 2001.
410   Available at: ftp://ftp.pwg.org/pub/pwg/standards/pwg5100.3.pdf, .doc, .rtf

411 [PRT-MIB]
412   Smith, R., Wright, F., Hastings, T., Zilles, S., Gyllenskog, J., "Printer MIB", RFC 1759, March
413   1995.

414 [TAG-REG]
415   Holtman, K., Mutz, A. and T. Hardie, "Feature Tag Registration Procedures", BCP 31, RFC
416   2506, March 1999.

417 [TIP/SI]
418   IEEE Std 1284.1-1997, IEEE Standard for Information Technology, Transport Independent
419   Printer/System Interface.

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444   IPP Web Page: http://www.pwg.org/ipp/
445   IPP Mailing List: ipp@pwg.org

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

19

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

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

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

461 **The Printer MIB [PRT-MIB]**
462

Standard Media Name	Printer MIB usage
Media Type Name	prtInputMediaType
Media Color Name	prtInputMediaColor
Media Size Name	Appendix B "Media Sizes Names" (see note 1)

463 **The Internet Printing Protocol, Model and Semantics [IPP-MOD]**
464

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

465 **The Internet Printing Protocol, Production Printing Attributes [IPP-PROD]**
466

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"

467 **Notes:**

468 1. Printer MIB size names do not include the dimensions part. The dimension are represented by the
469   objects prtInputMediaDimFeedDirDeclared, prtInputMediaDimXFeedDirDeclared,
470   prtInputMediaDimFeedDirChosen, and prtInputMediaDimXFeedDirChosen.

471 2. The Production Printing Attributes referenced are all member attributes of the "media-col" Job
472   Template attribute.

473 3. The media sizes are included in the "media-size" member attribute of the "media-col" Job
474   Template attribute as a pair of numeric values (mm/100).

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

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

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

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

b. client does formatting: Now the client will separate the class field, the name field, and the dimension field. The class and name fields may be displayed as is or localized, and the dimensions are converted to the units preferred by the user. If a class or name field isn't recognized, it will be displayed i̶t̶ as is, perhaps s̶e̶p̶a̶r̶a̶t̶e̶d̶ with underlines replaced by a̶ spaces̶. The dimensions will also be converted to the internal units for formatting documents.

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

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

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

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

The IEEE-ISTO is a not-for-profit corporation offering industry groups an innovative and flexible operational forum and support services. The IEEE-ISTO provides a forum not only to develop standards, but also to facilitate activities that support the implementation and acceptance of standards in the marketplace. The organization is affiliated with the IEEE (http://www.ieee.org/) and the IEEE Standards Association (http://standards.ieee.org/).
For additional information regarding the IEEE-ISTO and its industry programs visit:
http://www.ieee-isto.org.

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511 # 15 Appendix D: Description of the IEEE-ISTO PWG

512 The Printer Working Group (or PWG) is a Program of the IEEE Industry Standards and Technology
513 Organization (ISTO) with member organizations including printer manufacturers, print server
514 developers, operating system providers, network operating systems providers, network connectivity
515 vendors, and print management application developers. The group is chartered to make printers and
516 the applications and operating systems supporting them work together better. All references to the
517 PWG in this document implicitly mean "The Printer Working Group, a Program of the IEEE ISTO." In
518 order to meet this objective, the PWG will document the results of their work as open standards that
519 define print related protocols, interfaces, procedures and conventions. Printer manufacturers and
520 vendors of printer related software will benefit from the interoperability provided by voluntary
521 conformance to these standards.
522 In general, a PWG standard is a specification that is stable, well understood, and is technically
523 competent, has multiple, independent and interoperable implementations with substantial operational
524 experience, and enjoys significant public support.
525 For additional information regarding the Printer Working Group visit:
526   http://www.pwg.org

527 # 16 Appendix E: Change History [to be removed when the standard is approved]

528 ## 16.1 Changes to D0.10, July 16, 2001, to make D0.11, August 10, 2001

529 The following changes were made:
530
531 1. Changed "Self Describing" to "Self-Describing" in entire document.
532 2. Section 4.1: "Example, media of …" was "Example, a media of …".
533 3. Section 5.1: Moved "roc" from "class-mm" group to "class-in" group.
534 4. Section 5.1.4: Added " The common usage of some names may represent several physical sizes
535   (e.g. folio, quarto, foolscap, and executive). To avoid naming conflicts, a hyphenated identifier
536   must be used to link the names to a specific size. Only one of the possible sizes may use the name
537   without a hyphenated identifier."
538 5. Section 5.1.7: Changed ""class-custom"" to ""custom"".
539 6. Section 5.2: Corrected format of examples. (Changed "-" to "x")
540 7. Table 3: Added "comm-10 (envelope)" as an alias for na-number-10. Reformatted alias for 6x9-
541   envelope and c5-envelope.
542 8. Added Table 4 for Chinese inch sizes (roc-16k and roc-8k).
543 9. Table 5: Added "a0" as an alias for iso-a0.
544 10. Table 6: Changed "postcard" to "reply postcard" for oufuku. Changed "Kahu" to "kahu".
545 11. Table 8: Changed om_italian short dimension form 100 to 110.
546 12. Section 7: "In the interim,…" was "In the interium,…". "Requests are to be…" was "Request
547   are to be…".
548 13. Section 13b: Changed "…it will be displayed it as is, perhaps separated by a space." to "…it will
549   be displayed as is, perhaps with underlines replaced by spaces."
550

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551 **16.116.2   Changes to D0.9, May 22, 2001, to make D0.10, July 16, 2001**

552 The following changes were made:

553

554 1. Section 3: Added reference number 6 and new Media Type Names "stationery-preprinted",
555   "stationery-letterhead", "stationery- prepunched", "stationery-fine", "stationery-heavyweight", and
556   "stationery-lightweight".
557 2. Section 5.1: Changed "class-na" to "class-in". Added "custom" to the class-in and class-mm list.
558   Modified last paragraph of 5.1.
559 3. Section 5.1.1: Modified to add "custom".
560 4. 5.1.7: New section derived from section 5.2 which has been removed.
561 5. Section 5.2.3 is now section 5.2 "Reserved Size Names".
562 6. Table 3: Added alias "half-letter" and "german-legal-fanfold". Replaced "ledger" with "tabloid"
563   and added "ledger" as an alias. Added "na_12x19_12x19in"
564 7. Table 6: Removed "prc9_229x324mm", this is identical to c3.
565 8. Table 7: Added "om_small-photo_100x150mm" and "om_large-photo_200x300mm".

566

567 **16.216.3   Changes to D0.8, May 7, 2001, to make D0.9, May 22, 2001**

568 The following changes were made:

569

570 1. Section 3: Added a paragraph indicating that single sided or double sided is not an attribute of the
571   Media Type Names and must be defined outside of this standard.
572 2. Revised "stationery-inkjet" description. Removed "...whose coating is..." and added "May be
573   accomplished with a coating.
574 3. Section 5.1: Change to ABNF for the Media Size Name, Added "class-na" and "class-mm". Added
575   a paragraph indicating additional class size names may be added in the future.
576 4. Revised section 5.1.1: Changed "prefix" to "class-xx". Changed examples to "currently defined
577   values". Added "asme" class. Added an ABNF definition for future names.
578 5. Revised section 5.1.4: Removed "units" definition. Revised remaining text to clarify that
579   dimensional units must never be changed with a Media Size Name.
580 6. Revised section 5.2: Corrected ABNF format to agree with section 5.1. Added a line to the ABNF
581   to define "units".
582 7. Added section 5.2.1 to provide a verbal description of units.
583 8. Sections 5.2.2 and 5.2.3: Corrected format of examples to agree with ABNF.
584 9. Revised all names in section 5.3 to agree with ABNF.
585 10. Section 6: Added specific conformance information for Media Size Names.
586 11. Added section 7 "Registration Procedures for Additional Names"
587 12. Added Appendix B "Parser Considerations for the Media Size Name"

588

589 **16.316.4   Changes to D0.7, April 20, 2001, to make D0.8, May 7, 2001**

590 The following changes were made:

591

592 1. Section 2: Changed "Media Finish Name" to "media finish" and modified the definition.

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593 2. Added IPP Production Printing Attributes as a reference to section 3 and 4. Modified table 1 and 2
594   adding a "5" in the reference column to indicate this document references the appropriate entry.
595 3. Added "stationery-coated", "stationery-inkjet", "photographic-high-gloss", "photographic-semi-
596   gloss", "photographic-satin", "photographic-matte", "photographic-film", and "back-print-film" to
597   table 1.
598 4. Major revision of section 5 to conform to new agreed format.
599 5. Table 2: Changed "…should have.." to "…has…" Changed "…should be.." to "…is…"
600 6. Added "f" as a legacy name to "na-e1_28-40in" in table 3. Changed " na-e1" to "asme-f".
601 7. Added "a0x3" as a legacy name to "iso-2a0_1189-1682mm" in table 4.
602 8. Added to table 4; "a4x3", "a4x4","a4x5","a4x6", "a4x7", "a4x8", "a4x9", "a3x3", "a3x4", "a3x5",
603   "a3x6", "a3x7", "a2x3", "a2x4", "a2x5", "a1x3", "a1x4", and "a0x3".
604 9. Moved na-roc-16k and na-roc-8k to Chinese table (6), removed "na-" and dimensions changed to
605   mm. It was pointed out by Don Levinstone (WaveMark Solutions) that roc is Republic of China
606   (now Taiwan).
607 10. Removed section 6 "Media Finish Names". All mention of Finish Names and Finishings also
608   removed from sections 1 and new 6.
609 11. Added a reference for ASME Y14 to section 9.
610 12. Appendix A, table for IPP-MOD: Added a new row with "Media Self Describing Name" in column
611   1 and column 2 identical to the previous row. Added "Keyword values of the …" to column 2.
612 13. Appendix a, table for IPP-PROD: Deleted MediaFinish Name row. Added "Keyword values of the
613   …" to both remaining column 2's.

614 **16.416.5   Changes to D0.6, April 9, 2001, to make D0.7, April 20, 2001**

615 The following changes were made:
616
617 1. Added to definition of Legacy Name: "This name is provided for historical context."
618 2. Removed single quotes from color names in table 2.
619 3. Added an example to paragraphs 3.1, 4.1 and 6.1.
620 4. Removed "The prefix string shall be included in all Media Size Self Describing Names that contain
621   size dimensions that are to be interpreted as English units." This sentence was redundant.
622 5. Corrected "iso-a5-extra" name in Table 4. The "-extra" part was missing.
623 6. Removed single quotes from finish names and "MUST" from the definitions in table 8.
624 7. Changed "custom-finish-type-" to "custom-media-finish-" in section 6.1.
625 8. Inserted a new Appendix A "Media Names Usage in Existing Standards (informative)".
626 9. Changed all RFC references to names that are independent of the numbers.
627 10. Added a URL to the IPP-PROD reference.

628 **16.516.6   Changes to D0.5, March 26, 2001, to make D0.6, April 9, 2001**

629 The following changes were made:
630
631 1. Added "Media Finish Name" definition to section 1, 1.1, 2, and 7.
632 2. Removed "other" from Table 1. The custom media type name is to be used instead.
633 3. Added "roll" to Table 1.
634 4. Changed "[REG]" to "[RFC2506]" in section 3 and added the reference information to section 10.

635 5. Corrected the ABNF for "size-name" in section 5.1 (removed second "| "-" ").
636 6. Removed text regarding case sensitivity from section 5.1.4. New text on this subject added to
637   section 7.
638 7. Corrected second example in section 5.1.5 ("2970" was "29700").
639 8. Added 5.2.5 to define "custom-max" and "custom-min".
640 9. Added section 6, Media Finish Names.
641 10. Added [PROD] reference to section 10.
642 11. Added IPP contact information to section 10, plus a sentence explaining how to request new names
643   to be added to the document.
644

645 **16.616.7   Changes to D0.4, March 21, 2001, to make D0.5, March 26, 2001**

646 The following changes were made:
647
648 1. Title in Abstract corrected. Was "Media Size Standardized Names."
649 2. Section 1 "…practice based upon PPD and GPD files to describe…" was "…practice around PPD
650   and GPD files that describe…"
651 3. In definition for Media Size Self Describing Name: "…Media Dimensions that correspond to the
652   Media Size Name." was "…Media Dimensions of that correspond to its Media Size Name."
653 4. Replaced "Printer MIB" and "RFC 2534" columns in Table 1 with "Ref." Column, to be more
654   consistent with the size tables. Modified the text accordingly.
655 5. Added section 3.1 Custom Media Type Names.
656 6. Added a "Ref." Column to Table 2 and removed the text that attempted to provide this same
657   information.
658 7. Added section 4.1 Custom Media Color Names.
659 8. Combined paragraphs 5.1.5 and 5.1.6.
660 9. Added to paragraph 5.3: "The presence of "(envelope)" in the Alias column indicates this size is
661   also commonly used for envelopes. It does not imply that this size is only available as an envelope
662   media type."
663 10. Merged envelope sizes into the corresponding sheet sizes tables. The string "envelope" has been
664   removed from all envelope size names.
665 11. Added "government-legal" to Table 3.
666 12. Added "juuro-ku-kai", "pa-kai", and "dai-pa_kai" to Table 6.
667 13. Removed "IANA Considerations" section.
668

669 **16.716.8   Changes to D0.3, February 22, 2001, to make D0.4, March 21, 2001**

670 The following changes were made:
671
672 1. Added more Terminology
673 2. Added Media Type Names
674 3. Added Media Color Names
675 4. Used ABNF to define the syntax for Media Size Self Describing Names