

February 27, 2013  
Implementation Guide: Working Draft



**Printer Work Group**

## **Implementation Guide**

### **Printer Working Group: Print Job Ticket Support Levels** (PWG:PJT – Support Levels)

Status: Initial

**Abstract:** This White Paper provides an implementation reference for three (3) levels of supports of the Print Working Group (PWG) Print Job Ticket (PJT). The first support level is intended for printing simply Print Jobs; the second support level is intended for modest to high-end office printing; and, finally, the third support level, supporting all the features of the PWG:PJT is intended for high-end office and production printing. Specifying a Support Level by a Print Client provides a Print Service with knowledge of the Print Client capabilities. End-User will benefit from (and/or with the capability to set) the Support Level by experiencing a consistent Print Client interface at Support Level. And, while a Printer's capabilities may not fully implement a specific Support Level; a Print Service can, through the use of Print Transforms, augment a Printer's capabilities to meet the requirements of a specific support level

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62

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64 Standards and Technology Organization (ISTO) with member organizations  
65 including printer manufacturers, print server developers, operating system  
66 providers, network operating systems providers, network connectivity  
67 vendors, and print management application developers. The group is  
68 chartered to make printers and the applications and operating systems  
69 supporting them work together better. All references to the PWG in this  
70 document implicitly mean “The Printer Working Group, a Program of the  
71 IEEE ISTO.” In order to meet this objective, the PWG will document the results  
72 of their work as open standards that define print related protocols, interfaces,  
73 procedures and conventions. Printer manufacturers and vendors of printer  
74 related software will benefit from the interoperability provided by voluntary  
75 conformance to these standards.

76

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

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82 For additional information regarding the Printer Working Group visit:

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<http://www.pwg.org>

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About the Cloud Work Group and Semantic Model Work Group

For information regarding Cloud Work Group visit:

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Implementers of this specification are encouraged to join the Cloud Work Group and the Semantic Model Work Group mailing list in order to participate in any discussions of the specification. Suggested additions, changes, or clarification to this specification, should be sent to the Cloud Work Group and/or Semantic Model Work Group Mailing list for consideration.

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150 **1. Introduction**

151 To be supplied

152 **2. Terminology**153 **2.1 Conformance Terminology**

154 Capitalized terms, such as MUST, MUST NOT, RECOMMENDED, REQUIRED, SHOULD,  
 155 SHOULD NOT, MAY, and OPTIONAL, have special meaning relating to conformance  
 156 as defined in Key words for use in RFCs to Indicate Requirement Levels [RFC2119].  
 157 The term CONDITIONALLY REQUIRED is additionally defined for a conformance  
 158 requirement that applies to a particular capability or feature.

159 **2.2 Other Terminology**160 **2.3 Acronyms**


161 **2.4 Organizations**

IANA	Internet Assigned Numbers Authority	<a href="http://www.iana.org">www.iana.org</a>
IETF	Internet Engineering Task Force	<a href="http://www.ietf.org">www.ietf.org</a>
ISO	International Organization for Standardization	<a href="http://www.iso.org">www.iso.org</a>
PWG	Printer Working Group	<a href="http://www.pwg.org">www.pwg.org</a>

162

### 163 **3. Requirements**

#### 164 **3.1 Rationale for PWG:PJT Support Levels Implementation Guide**

165 The Printer Working Group (PWG) Print Job Ticket (PJT) consist of a rich set of  
166 printing objects, attributes, elements and values that support the simplest level of  
167 printing to most complex. The PWG:PJT supports printing from/in embedded,  
168 mobile, home-office, business office and production environments. However,  
169 supporting the capabilities of the PWG:PJT by Applications and/or Print Clients in  
170 the various environments is burdensome. While a Print Service only needs to  
171 provide capability information that it supports; currently, there is an implicit  
172 requirement that a Print Client support potentially all PWG:PJT objects, elements,  
173 attributes and values that a Print Service could instantiate as a capability; this is just  
174 not practical in all situations and environments.

#### 175 **3.2 Use Cases**

176 Not acceptable for this implementation guide.

#### 177 **3.3 Out of Scope**

178 This document identify Support Levels for the PWG: PJT but does identify

179

- 180 1. Vendor Extensions for Elements
- 181 2. Vendor Extensions for element Values

#### 182 **3.4 Design Requirements**

183 < should put some words in here on why the three level and some brief design  
184 rationale for only 3 level and what each level represents. Maybe (!) use-cases are  
185 needed to identify the 3 levels???

### 186 **4. Specification**

187 All content in discussed in the document and, specifically, the Elements and Values  
188 outlined in Section 5. Conformance is identified and defined in the PWG-5108.07-  
189 2012 candidate Standard titled "PWG Print Job Ticket and Associated Capabilities  
190 Version 1.0 (PJT)" [PWG5108.07].

191 **5. Conformance**

192 At the top level, the PWG:PJT consist of three required major elements; namely;

193

194 [Top] Print Job Ticket

195 .[Element]. Print Document Processing

196 .[Element]. Print Job Description

197 .[Element]. Print Job Processing.

198

199 The details for each Support Level are elaborated in the following subsection.



## 200 **5.1 Conformance: PWG:PJT Support Level – 1**

201

202 [Top] Print Job Ticket

203

204 .[Element]. Print Document Processing

205 .[Element]. Number Up

206 .[Element]. Copies

207 .[Element]. Font Name Requested

208 .<Value>. text/plain

209 .<Value>. Vendor Extension

210 .[Element]. Font Size Requested

211 .[Element]. Media Type

212 .[Element]. Media (= Media Size Name)

213 .[Element]. Orientation Requested

214 .<Value>. Landscape

215 .<Value>. Portrait

216 .<Value>. Reverse Landscape

217 .<Value>. Reverse Portrait

218 .<Value>. None

219 .[Element]. Output bin

220 .<Value>. Top

221 .<Value>. Bottom

222 .<Value>. Rear

223 .<Value>. Large Capacity

224 .[Element]. Page Ranges

225 .<Value>. Lower Bound

226 .<Value>. Upper Bound

227 .<Value>. Vendor Extension

228 .[Element]. Print Content Optimize

229 .<Value>. Text

230 .<Value>. Graphics

231 .<Value>. Text and Graphics

232 .<Value>. Photo

233 .<Value>. Vendor Extension

234 .[Element]. Print Color Mode

235 .<Value>. Auto

236 .<Value>. Bi-Level (Only Required for B/W Printers)

237 .<Value>. Color

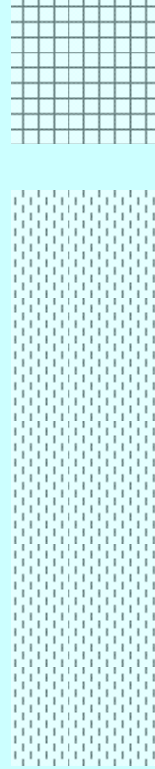
238 .<Value>. Monochrome

239 .<Value>. Process Bi-Level

240 .<Value>. Process Monochrome  
241 .<Value>. Vendor Extension  
242 .[Element]. Print Rendering Intent  
243 .<Value>. Auto  
244 .<Value>. Perceptual  
245 .[Element]. Vendor Extension  
246 .[Element]. Quality  
247 .<Value>. Draft  
248 .<Value>. Normal  
249 .<Value>. High  
250 .<Value>. Vendor Extension  
251 .[Element]. Resolution  
252 .<Value>. Cross Feed Dir  
253 .<Value>. Feed Dir  
254 .[Element]. Resolution Unit  
255 .<Value>. DPI  
256 .<Value>. DPCM  
257 .<Value>. Vendor Extension  
258 .<Value>. Vendor Extension  
259 .[Element]. Sheet Collate  
260 .<Value>. Uncollated  
261 .<Value>. Collated  
262 .<Value>. Vendor Extension  
263 .[Element]. Sides  
264 .<Value>. One Sided  
265 .<Value>. Two Sided Long Edge  
266 .<Value>. Two Sided Short Edge  
267 .<Value>. Vendor Extension  
268 .[Element]. X Image Position  
269 .<Value>. None  
270 .<Value>. Center  
271 .<Value>. Left  
272 .<Value>. Right  
273 .<Value>. Vendor Extension  
274 .[Element]. X Image Shift  
275 .[Element]. X Side 1 Image Shift  
276 .[Element]. X Side 2 Image Shift  
277 .[Element]. Y Image Position  
278 .<Value>. None  
279 .<Value>. Center  
280 .<Value>. Top  
281 .<Value>. Bottom

282 .<Value>. Vendor Extension  
 283 .[Element]. Y Image Shift  
 284 .[Element]. Y Side 1 Image Shift  
 285 .[Element]. Y Side 2 Image Shift  
 286 .[Element]. Vendor Extension  
 287  
 288 .[Element]. Print Job Description  
 289 .[Element]. Job Accounting ID  
 290 .[Element]. Job Accounting User ID  
 291 .[Element]. Job Collation Type  
 292 .<Value>. Uncollated Sheets  
 293 .<Value>. Collated Documents  
 294 .<Value>. Uncollated Documents  
 295 .<Value>. Vendor Extension  
 296 .[Element]. Job More Info  
 297 .[Element]. Job Name  
 298 .[Element]. Job Originating User Name  
 299 .[Element]. Document Format Details Supplied  
 300 .[Element]. Document Format  
 301 .<Value>. Application PDF  
 302 .<Value>. Application VND PWG XHTML Print XML  
 303 .<Value>. Image JPEG  
 304 .<Value>. Text HTML  
 305 .<Value>. Text Plain  
 306 .<Value>. Text Plain Charset ISO 8859 1  
 307 .<Value>. Text Plain Charset US ASCII  
 308 .<Value>. Text Plain Charset UTF 8  
 309 .[Element]. Document Format Version  
 310 .[Element]. Document Natural Language  
 311 .<Value>. **VERY, VERY Long list – How to Handle**  
 312 .[Element]. Document Format Supplied  
 313 .<Value>. Application PDF  
 314 .<Value>. Application VND PWG XHTML Print XML  
 315 .<Value>. Image JPEG  
 316 .<Value>. Text HTML  
 317 .<Value>. Text Plain  
 318 .<Value>. Text Plain Charset US ASCII  
 319 .<Value>. Text Plain Charset UTF 8  
 320 .[Element]. Document Format Version Supplied  
 321 .[Element]. Document Name Supplied  
 322 .[Element]. Document URI  
 323 .[Element]. Page Order Received

- 324 .<Value>. 1 to N Order
- 325 .<Value>. N to 2 Order
- 326 .<Value>. Vendor Extension
- 327 .[Element]. Vendor Extension
- 328
- 329 .[Element]. Print Job Processing
- 330 .[Element]. Job Copies
- 331 .[Element]. Job Error Action
- 332 .<Value>. Abort Job
- 333 .<Value>. Cancel Job
- 334 .[Element]. Job Collation Type
- 335 .<Value>. Uncollated Sheets
- 336 .<Value>. Collated Documents
- 337 .<Value>. Uncollated Documents
- 338 .<Value>. Vendor Extension
- 339 .[Element]. Job Copies
- 340 .[Element]. Output Device
- 341 .[Element]. Vendor Extension
- 342
- 343



## 344 5.2 Conformance: PWG:PJT Support Level – 2

345 Note that items in blue are the elements and values that are added from Support  
346 Level 1 to define Support Level 2.

347

348

349 [Top] Print Job Ticket

350

351 .[Element]. Print Document Processing

352 .[Element]. Number Up

353 .[Element]. Copies

354 .[Element]. Cover Front

355 .[Element]. **Cover Type**

356 .<Value>. **No Cover**

357 .<Value>. **Print None**

358 .<Value>. **Print Front**

359 .<Value>. **Print Back**

360 .<Value>. **Print Both**

361 .<Value>. **Vendor Extension**

362 .[Element]. **Media Type**

363 .<Value>. **To – Be – Determined**

364 .[Element]. **Media**

365 .<Value>. **To – Be – Determined**

366 .[Element]. **Media Col**

367 .<Value>. **To – Be – Determined**

368 .[Element]. **Vendor Extension**

369 .[Element]. **Feed Orientation**

370 .<Value>. **Long Edge First**

371 .<Value>. **Short Edge First**

372 .<Value>. **Vendor Extension**

373 .[Element]. **Finishings**

374 .<Value>. **None**

375 .<Value>. **Jog Offset**

376 .<Value>. **Staple Top Left**

377 .<Value>. **Vendor Extension**

378 .[Element]. **Font Name Requested**

379 .[Element]. **Font Size Requested**

380 .[Element]. **Media Type**

381 .[Element]. **Media (= Media Size Name)**

382 .[Element]. **Media Col**

383 .<Value>. **To – Be – Determined**

384 .[Element]. Orientation Requested  
385 .<Value>. Landscape  
386 .<Value>. Portrait  
387 .<Value>. Reverse Landscape  
388 .<Value>. Reverse Portrait  
389 .<Value>. None  
390 .[Element]. Output bin  
391 .<Value>. Top  
392 .<Value>. [Middle](#)  
393 .<Value>. Bottom  
394 .<Value>. [Side](#)  
395 .<Value>. Rear  
396 .<Value>. Large Capacity  
397 .<Value>. [Mailbox 1](#)  
398 .<Value>. [Mailbox 2](#)  
399 .<Value>. [Mailbox 3](#)  
400 .<Value>. [Mailbox 4](#)  
401 .<Value>. [Mailbox 5](#)  
402 .<Value>. [My Mailbox](#)  
403 .[Element]. [Page Delivery](#)  
404 .<Value>. [Same Order Face Up](#)  
405 .<Value>. [Same Order Face Down](#)  
406 .<Value>. [Reverse Order Face Up](#)  
407 .<Value>. [Reverse Order Face Down](#)  
408 .<Value>. [System Specified](#)  
409 .<Value>. [Vendor Extension](#)  
410 .[Element]. Page Ranges  
411 .<Value>. Lower Bound  
412 .<Value>. Upper Bound  
413 .<Value>. Vendor Extension  
414 .[Element]. Print Content Optimize  
415 .<Value>. Text  
416 .<Value>. Graphics  
417 .<Value>. Text and Graphics  
418 .<Value>. Photo  
419 .<Value>. Vendor Extension  
420 .[Element]. Print Color Mode  
421 .<Value>. Auto  
422 .<Value>. Bi-Level (Only Required for B/W Printers)  
423 .<Value>. Color  
424 .<Value>. Monochrome  
425 .<Value>. Process Bi-Leel

426 .<Value>. Process Monochrome  
427 .<Value>. Vendor Extension  
428 .[Element]. Print Rendering Intent  
429 .<Value>. Auto  
430 .<Value>. [Absolute](#)  
431 .<Value>. Perceptual  
432 .<Value>. [Relative](#)  
433 .<Value>. [Relative BPC](#)  
434 .<Value>. [Saturation](#)  
435 .[Element]. Vendor Extension  
436 .[Element]. Quality  
437 .<Value>. Draft  
438 .<Value>. Normal  
439 .<Value>. High  
440 .<Value>. Vendor Extension  
441 .[Element]. Resolution  
442 .<Value>. Cross Feed Dir  
443 .<Value>. Feed Dir  
444 .[Element]. Resolution Unit  
445 .<Value>. DPI  
446 .<Value>. DPCM  
447 .<Value>. Vendor Extension  
448 .<Value>. Vendor Extension  
449 .[Element]. [Separator Sheets](#)  
450 .<Value>. [None](#)  
451 .<Value>. [Slip Sheet](#)  
452 .<Value>. [Start Sheet](#)  
453 .<Value>. [End Sheet](#)  
454 .<Value>. [Both Sheets](#)  
455 .<Value>. [Vendor Extension](#)  
456 .[Element]. Sheet Collate  
457 .<Value>. Uncollated  
458 .<Value>. Collated  
459 .<Value>. Vendor Extension  
460 .[Element]. Sides  
461 .<Value>. One Sided  
462 .<Value>. Two Sided Long Edge  
463 .<Value>. Two Sided Short Edge  
464 .<Value>. Vendor Extension  
465 .[Element]. X Image Position  
466 .<Value>. None  
467 .<Value>. Center

468 .<Value>. Left  
 469 .<Value>. Right  
 470 .<Value>. Vendor Extension  
 471 .[Element]. X Image Shift  
 472 .[Element]. X Side 1 Image Shift  
 473 .[Element]. X Side 2 Image Shift  
 474 .[Element]. Y Image Position  
 475 .<Value>. None  
 476 .<Value>. Center  
 477 .<Value>. Top  
 478 .<Value>. Bottom  
 479 .<Value>. Vendor Extension  
 480 .[Element]. Y Image Shift  
 481 .[Element]. Y Side 1 Image Shift  
 482 .[Element]. Y Side 2 Image Shift  
 483 .[Element]. Vendor Extension  
 484  
 485 .[Element]. Print Job Description  
 486 .[Element]. Job Accounting ID  
 487 .[Element]. Job Accounting User ID  
 488 .[Element]. Job More Info  
 489 .[Element]. Job Name  
 490 .[Element]. Job Originating User Name  
 491 .[Element]. [Job Originating User URI](#)  
 492 .[Element]. [Job Pages](#)  
 493 .[Element]. [K Octets](#)  
 494 .[Element]. Document Format Details Supplied  
 495 .[Element]. Document Format  
 496 .<Value>. Application PDF  
 497 .<Value>. Application VND PWG XHTML Print XML  
 498 .<Value>. [Application VND HP PCL](#)  
 499 .<Value>. Image JPEG  
 500 .<Value>. [Image TIFF](#)  
 501 .<Value>. [Image TIFF FX](#)  
 502 .<Value>. Text HTML  
 503 .<Value>. Text Plain  
 504 .<Value>. Text Plain Charset US ASCII  
 505 .<Value>. Text Plain Charset UTF 8  
 506 .<Value>. [Vendor Extension](#)  
 507 .[Element]. Document Format Version  
 508 .[Element]. [Document Format Device ID](#)  
 509 .[Element]. Document Natural Language



510           .<Value>. **VERY, VERY Long list – How to Handle**  
511           .[Element]. **Document Source Application Name**  
512           .[Element]. **Document Source Application Version**  
513           .[Element]. **Document Source OS Name**  
514           .[Element]. **Long list – How to Handle**  
515           .[Element]. **Document Source OS Version**  
516        .[Element]. Document Format Supplied  
517           .<Value>. Application PDF  
518           .<Value>. Application VND PWG XHTML Print XML  
519           .<Value>. **Application VND HP PCL**  
520           .<Value>. Image JPEG  
521           .<Value>. **Image TIFF**  
522           .<Value>. **Image TIFF FX**  
523           .<Value>. Text HTML  
524           .<Value>. Text Plain  
525           .<Value>. Text Plain Charset ISO 8859 1  
526           .<Value>. Text Plain Charset US ASCII  
527           .<Value>. Text Plain Charset UTF 8  
528           .<Value>. **Vendor Extension**  
529        .[Element]. Document Format Version Supplied  
530        .[Element]. Document Name Supplied  
531        .[Element]. Document URI  
532        .[Element]. **Impressions**  
533        .[Element]. Job Collation Type  
534           .<Value>. Uncollated  
535           .<Value>. Collated  
536           .<Value>. Vendor Extension  
537        .[Element]. **Media Sheets**  
538        .[Element]. Page Order Received  
539           .<Value>. 1 to N Order  
540           .<Value>. N to 2 Order  
541           .<Value>. Vendor Extension  
542        .[Element]. Vendor Extension  
543  
544        .[Element]. Print Job Processing  
545           .[Element]. Job Copies  
546           .[Element]. **Job Delay Output Until**  
547            .[Element]. **No Hold**  
548            .[Element]. **Indefinite**  
549            .[Element]. **Vendor Extension**  
550        .[Element]. Job Error Action  
551           .<Value>. Abort Job

552 .<Value>. Cancel Job  
553 .[Element]. Job Hold Until  
554 .[Element]. No Hold  
555 .[Element]. Indefinite  
556 .[Element]. Vendor Extension  
557 .[Element]. Job Priority  
558 .[Element]. Job Recipient Name  
559 .[Element]. Job Accounting Sheets  
560 .[Element]. Job Accounting Sheets Type  
561 .<Value>. None  
562 .<Value>. Standard  
563 .<Value>. Vendor Extension  
564 .[Element]. Job Accounting Output Bin  
565 .<Value>. Top  
566 .<Value>. Middle  
567 .<Value>. Bottom  
568 .<Value>. Side  
569 .<Value>. Rear  
570 .<Value>. Large Capacity  
571 .<Value>. Mailbox 1  
572 .<Value>. Mailbox 2  
573 .<Value>. Mailbox 3  
574 .<Value>. Mailbox 4  
575 .<Value>. Mailbox 5  
576 .<Value>. My Mailbox  
577 .[Element]. Media  
578 .<Value>. To - Be - Determined  
579 .[Element]. Media Type  
580 .<Value>. To - Be - Determined  
581 .[Element]. Media Col  
582 .<Value>. To - Be - Determined  
583 .[Element]. Job Collation Type  
584 .<Value>. Uncollated Sheets  
585 .<Value>. Collated Documents  
586 .<Value>. Uncollated Documents  
587 .<Value>. Vendor Extension  
588 .[Element]. Job Copies  
589 .[Element]. Job Cover Front  
590 .[Element]. Cover Type  
591 .<Value>. No Cover  
592 .<Value>. Print None  
593 .<Value>. Print Front

594 .<Value>. [Print Back](#)  
 595 .<Value>. [Print Both](#)  
 596 .<Value>. [Vendor Extension](#)  
 597 .[Element]. [Media Type](#)  
 598 .<Value>. [To – Be – Determined](#)  
 599 .[Element]. [Media](#)  
 600 .<Value>. [To – Be – Determined](#)  
 601 .[Element]. [Media Col](#)  
 602 .[Element]. [To – Be – Determined](#)  
 603 .[Element]. [Job Error Sheet](#)  
 604 .[Element]. [Job Error Sheet Type](#)  
 605 .<Value>. [None](#)  
 606 .<Value>. [Standard](#)  
 607 .<Value>. [Vendor Extension](#)  
 608 .[Element]. [Job Error Sheet When](#)  
 609 .<Value>. [On Error](#)  
 610 .<Value>. [Always](#)  
 611 .<Value>. [Vendor Extension](#)  
 612 .[Element]. [Media Type](#)  
 613 .<Value>. [To – Be – Determined](#)  
 614 .[Element]. [Media](#)  
 615 .<Value>. [To – Be – Determined](#)  
 616 .[Element]. [Media Col](#)  
 617 .<Value>. [To – Be – Determined](#)  
 618 .[Element]. [Job Finishings](#)  
 619 .<Value>. [None](#)  
 620 .<Value>. [Jog Offset](#)  
 621 .<Value>. [Staple Top Left](#)  
 622 .[Element]. [Job Sheets](#)  
 623 .<Value>. [None](#)  
 624 .<Value>. [Standard](#)  
 625 .<Value>. [Vendor Extension](#)  
 626 .[Element]. [Job Sheets Col](#)  
 627 .[Element]. [Job Sheets](#)  
 628 .<Value>. [None](#)  
 629 .<Value>. [Standard](#)  
 630 .<Value>. [Vendor Extension](#)  
 631 .[Element]. [Media Type](#)  
 632 .<Value>. [To – Be – Determined](#)  
 633 .[Element]. [Media](#)  
 634 .<Value>. [To – Be – Determined](#)  
 635 .[Element]. [Media Col](#)

636 .<Value>. [To – Be – Determined](#)  
637 .[Element]. [Vendor Extension](#)  
638 .[Element]. [Multiple Documents Handle](#)  
639 .<Value>. [Separate Documents Collated Copies](#)  
640 .<Value>. [Separate Documents Uncollated Copies](#)  
641 .<Value>. [Single Document](#)  
642 .<Value>. [Single Document New Sheet](#)  
643 .<Value>. [Vendor Extension](#)  
644 .[Element]. Output Device  
645 .[Element]. Vendor Extension  
646  
647

### 648 5.3 Conformance: PWG:PJT Support Level – 3

649 Note that items in blue are the elements and values that are added from Support  
650 Level 1 and Level 2 to define Support Level 3.

651

652

653 [Top] Print Job Ticket

654 .[Element]. Print Document Processing

655 .[Element]. Number Up

656 .[Element]. **Presentation Direction Up**657 .<Value>. **To Right To Bottom**658 .<Value>. **To Bottom To Right**659 .<Value>. **To left To Bottom**660 .<Value>. **To Bottom To Left**661 .<Value>. **To Right To Top**662 .<Value>. **To Top To Right**663 .<Value>. **To Left To Top**664 .<Value>. **To Tope To Left**665 .<Value>. **Vendor Extension**

666 .[Element]. Copies

667 .[Element]. **Cover Back**668 .[Element]. **Cover Type**669 .<Value>. **No Cover**670 .<Value>. **Print None**671 .<Value>. **Print Front**672 .<Value>. **Print Back**673 .<Value>. **Print Both**674 .<Value>. **Vendor Extension**675 .[Element]. **Media Type**676 .<Value>. **To – Be – Determined**677 .[Element]. **Media**678 .<Value>. **To – Be – Determined**679 .[Element]. **Media Col**680 .<Value>. **To – Be – Determined**681 .[Element]. **Vendor Extension**

682 .[Element]. Cover Front

683 .[Element]. **Cover Type**684 .<Value>. **No Cover**685 .<Value>. **Print None**686 .<Value>. **Print Front**687 .<Value>. **Print Back**

688 .<Value>. Print Both  
689 .<Value>. Vendor Extension  
690 .[Element]. Media Type  
691 .<Value>. To – Be – Determined  
692 .[Element]. Media  
693 .<Value>. To – Be – Determined  
694 .[Element]. Media Col  
695 .<Value>. To – Be – Determined  
696 .[Element]. Feed Orientation  
697 .<Value>. Long Edge First  
698 .<Value>. Short Edge First  
699 .<Value>. Vendor Extension  
700 .[Element]. Finishings  
701 .<Value>. None  
702 .<Value>. [Staple](#)  
703 .<Value>. [Punch](#)  
704 .<Value>. [Cover](#)  
705 .<Value>. [Bind](#)  
706 .<Value>. [Saddle Stitch](#)  
707 .<Value>. [Edge Stitch](#)  
708 .<Value>. [Fold](#)  
709 .<Value>. [Trim](#)  
710 .<Value>. [Bale](#)  
711 .<Value>. [Booklet Maker](#)  
712 .<Value>. Jog Offset  
713 .<Value>. Staple Top Left  
714 .<Value>. [Staple Bottom Left](#)  
715 .<Value>. [Staple Top Right](#)  
716 .<Value>. [Staple Bottom Right](#)  
717 .<Value>. [Edge Stitch Left](#)  
718 .<Value>. [Edge Stitch Top](#)  
719 .<Value>. [Edge Stitch Right](#)  
720 .<Value>. [Edge Stitch Bottom](#)  
721 .<Value>. [Staple Dual Left](#)  
722 .<Value>. [Staple Dual Top](#)  
723 .<Value>. [Staple Dual Right](#)  
724 .<Value>. [Staple Dual Bottom](#)  
725 .<Value>. [Bind Left](#)  
726 .<Value>. [Bind Top](#)  
727 .<Value>. [Bind Right](#)  
728 .<Value>. [Bind Bottom](#)  
729 .<Value>. Vendor Extension

730 .[Element]. **Finishings Col**  
 731 .<Value>. **Finishing Template**  
 732 .[Element]. **Stitching**  
 733 .<Value>. **Bottom**  
 734 .<Value>. **Top**  
 735 .<Value>. **Left**  
 736 .<Value>. **Right**  
 737 .<Value>. **Vendor Extension**  
 738 .[Element]. Font Name Requested  
 739 .[Element]. Font Size Requested  
 740 .[Element]. **Force Front Side**  
 741 .[Element]. **Imposition Template**  
 742 .<Value>. **None**  
 743 .<Value>. **Signature**  
 744 .<Value>. **Z Fold**  
 745 .<Value>. **Same Up**  
 746 .<Value>. **Vendor Extension**  
 747 .[Element]. **Insert Sheet**  
 748 .<Value>. **Insert After Page Number**  
 749 .<Value>. **Insert Count**  
 750 .[Element]. **Media Type**  
 751 .<Value>. **To – Be – Determined**  
 752 .[Element]. **Media**  
 753 .<Value>. **To – Be – Determined**  
 754 .[Element]. **Media Col**  
 755 .<Value>. **To – Be – Determined**  
 756 .[Element]. Media Type  
 757 .[Element]. Media (= Media Size Name)  
 758 .[Element]. Media Col  
 759 .<Value>. **To – Be – Determined**  
 760 .[Element]. **Media Input Tray Check**  
 761 .[Element]. Orientation Requested  
 762 .<Value>. **Landscape**  
 763 .<Value>. **Portrait**  
 764 .<Value>. **Reverse Landscape**  
 765 .<Value>. **Reverse Portrait**  
 766 .<Value>. **None**  
 767 .<Value>. **Vendor Extension**  
 768 .[Element]. Output bin  
 769 .<Value>. **Top**  
 770 .<Value>. **Middle**  
 771 .<Value>. **Bottom**

772 .<Value>. Side  
773 .<Value>. [Left](#)  
774 .<Value>. [Right](#)  
775 .<Value>. [Center](#)  
776 .<Value>. Rear  
777 .<Value>. [Face Up](#)  
778 .<Value>. [face down](#)  
779 .<Value>. Large Capacity  
780 .<Value>. [Stacker 1](#)  
781 .<Value>. [Stacker 2](#)  
782 .<Value>. [Stacker 3](#)  
783 .<Value>. [Stacker 4](#)  
784 .<Value>. [Stacker 5](#)  
785 .<Value>. [Stacker 6](#)  
786 .<Value>. [Stacker 7](#)  
787 .<Value>. [Stacker 8](#)  
788 .<Value>. [Stacker 9](#)  
789 .<Value>. [Stacker 10](#)  
790 .<Value>. Mailbox 1  
791 .<Value>. Mailbox 2  
792 .<Value>. Mailbox 3  
793 .<Value>. Mailbox 4  
794 .<Value>. Mailbox 5  
795 .<Value>. [Mailbox 6](#)  
796 .<Value>. [Mailbox 7](#)  
797 .<Value>. [Mailbox 8](#)  
798 .<Value>. [Mailbox 9](#)  
799 .<Value>. [Mailbox 10](#)  
800 .<Value>. [Mailbox 11](#)  
801 .<Value>. [Mailbox 12](#)  
802 .<Value>. [Mailbox 13](#)  
803 .<Value>. [Mailbox 14](#)  
804 .<Value>. [Mailbox 15](#)  
805 .<Value>. [Mailbox 16](#)  
806 .<Value>. [Mailbox 17](#)  
807 .<Value>. [Mailbox 18](#)  
808 .<Value>. [Mailbox 19](#)  
809 .<Value>. [Mailbox 20](#)  
810 .<Value>. [Mailbox 21](#)  
811 .<Value>. [Mailbox 22](#)  
812 .<Value>. [Mailbox 23](#)  
813 .<Value>. [Mailbox 24](#)



814	.<Value>. <a href="#">Mailbox 25</a>
815	.<Value>. My Mailbox
816	.<Value>. <a href="#">Tray 1</a>
817	.<Value>. <a href="#">Tray 2</a>
818	.<Value>. <a href="#">Tray 3</a>
819	.<Value>. <a href="#">Tray 4</a>
820	.<Value>. <a href="#">Tray 5</a>
821	.<Value>. <a href="#">Tray 6</a>
822	.<Value>. <a href="#">Tray 7</a>
823	.<Value>. <a href="#">Tray 8</a>
824	.<Value>. <a href="#">Tray 9</a>
825	.<Value>. <a href="#">Tray 10</a>
826	.<Value>. <a href="#">Tray 11</a>
827	.<Value>. <a href="#">Tray 12</a>
828	.<Value>. <a href="#">Tray 13</a>
829	.<Value>. <a href="#">Tray 14</a>
830	.<Value>. <a href="#">Tray 15</a>
831	.<Value>. <a href="#">Tray 16</a>
832	.<Value>. <a href="#">Tray 17</a>
833	.<Value>. <a href="#">Tray 18</a>
834	.<Value>. <a href="#">Tray 19</a>
835	.<Value>. <a href="#">Tray 20</a>
836	.[Element]. Page Delivery
837	.<Value>. Same Order Face Up
838	.<Value>. Same Order Face Down
839	.<Value>. Reverse Order Face Up
840	.<Value>. Reverse Order Face Down
841	.<Value>. System Specified
842	.<Value>. Vendor Extension
843	.[Element]. Page Ranges
844	.<Value>. Lower Bound
845	.<Value>. Upper Bound
846	.<Value>. Vendor Extension
847	.[Element]. <a href="#">Pdl Init File</a>
848	.[Element]. Print Content Optimize
849	.<Value>. Text
850	.<Value>. Graphics
851	.<Value>. Text and Graphics
852	.<Value>. Photo
853	.<Value>. Vendor Extension
854	.[Element]. Print Color Mode
855	.<Value>. Auto

856 .<Value>. Bi-Level (Only Required for B/W Printers)  
857 .<Value>. Color  
858 .<Value>. Monochrome  
859 .<Value>. Process Bi-Leel  
860 .<Value>. Process Monochrome  
861 .<Value>. Vendor Extension  
862 .[Element]. Print Rendering Intent  
863 .<Value>. Auto  
864 .<Value>. Absolute  
865 .<Value>. Perceptual  
866 .<Value>. Relative  
867 .<Value>. Relative BPC  
868 .<Value>. Saturation  
869 .[Element]. Vendor Extension  
870 .[Element]. Quality  
871 .<Value>. Draft  
872 .<Value>. Normal  
873 .<Value>. High  
874 .<Value>. Vendor Extension  
875 .[Element]. Resolution  
876 .<Value>. Cross Feed Dir  
877 .<Value>. Feed Dir  
878 .[Element]. Resolution Unit  
879 .<Value>. DPI  
880 .<Value>. DPCM  
881 .<Value>. Vendor Extension  
882 .<Value>. Vendor Extension  
883 .[Element]. Separator Sheets  
884 .<Value>. None  
885 .<Value>. Slip Sheet  
886 .<Value>. Start Sheet  
887 .<Value>. End Sheet  
888 .<Value>. Both Sheets  
889 .<Value>. Vendor Extension  
890 .[Element]. Sheet Collate  
891 .<Value>. Uncollated  
892 .<Value>. Collated  
893 .<Value>. Vendor Extension  
894 .[Element]. Sides  
895 .<Value>. One Sided  
896 .<Value>. Two Sided Long Edge  
897 .<Value>. Two Sided Short Edge

898 .<Value>. Vendor Extension  
 899 .[Element]. X Image Position  
 900 .<Value>. None  
 901 .<Value>. Center  
 902 .<Value>. Left  
 903 .<Value>. Right  
 904 .<Value>. Vendor Extension  
 905 .[Element]. X Image Shift  
 906 .[Element]. X Side 1 Image Shift  
 907 .[Element]. X Side 2 Image Shift  
 908 .[Element]. Y Image Position  
 909 .<Value>. None  
 910 .<Value>. Center  
 911 .<Value>. Top  
 912 .<Value>. Bottom  
 913 .<Value>. Vendor Extension  
 914 .[Element]. Y Image Shift  
 915 .[Element]. Y Side 1 Image Shift  
 916 .[Element]. Y Side 2 Image Shift  
 917 .[Element]. Vendor Extension  
 918  
 919 .[Element]. Print Job Description  
 920 .[Element]. Job Accounting ID  
 921 .[Element]. Job Accounting User ID  
 922 .[Element]. [Job Message From Operator](#)  
 923 .[Element]. [Job Message To Operator](#)  
 924 .[Element]. [Job Password](#)  
 925 .[Element]. [Job Password Encryption](#)  
 926 .<Value>. [MD2](#)  
 927 .<Value>. [MD4](#)  
 928 .<Value>. [MD5](#)  
 929 .<Value>. [SHA](#)  
 930 .<Value>. [None](#)  
 931 .[Element]. Job More Info  
 932 .[Element]. Job Name  
 933 .[Element]. Job Originating User Name  
 934 .[Element]. Job Originating User URI  
 935 .[Element]. Job Pages  
 936 .[Element]. K Octets  
 937 .[Element]. [Template Creator User Name](#)  
 938 .[Element]. [Template ID](#)  
 939 .[Element]. [Template Info](#)

940	.[Element]. <a href="#">Template Name</a>
941	.[Element]. <a href="#">Template Type</a>
942	.<Value>. <a href="#">None</a>
943	.<Value>. <a href="#">Vendor Extension</a>
944	.[Element]. <a href="#">Compression Supplied</a>
945	.<Value>. <a href="#">Deflate</a>
946	.<Value>. <a href="#">GZIP</a>
947	.<Value>. <a href="#">Compress</a>
948	.<Value>. <a href="#">None</a>
949	.<Value>. <a href="#">Vendor Extension</a>
950	.[Element]. <a href="#">Document Charset Supplied</a>
951	.<Value>. <a href="#">To - Be - Determined</a>
952	.[Element]. <a href="#">Document Digital Signature Supplied</a>
953	.<Value>. <a href="#">DSS</a>
954	.<Value>. <a href="#">None</a>
955	.<Value>. <a href="#">PGP</a>
956	.<Value>. <a href="#">SMIME</a>
957	.<Value>. <a href="#">XDSIG</a>
958	.<Value>. <a href="#">Vendor Extension</a>
959	.[Element]. Document Format Details Supplied
960	.[Element]. Document Format
961	.<Value>. <a href="#">Application Octet Stream</a>
962	.<Value>. Application PDF
963	.<Value>. <a href="#">Application POSTSCRIPT</a>
964	.<Value>. Application VND PWG XHTML Print XML
965	.<Value>. Application VND HP PCL
966	.<Value>. <a href="#">Image G3 FAX</a>
967	.<Value>. Image JPEG
968	.<Value>. Image TIFF
969	.<Value>. Image TIFF FX
970	.<Value>. Text HTML
971	.<Value>. Text Plain
972	.<Value>. <a href="#">Text Plain Charset ISO 8859 1</a>
973	.<Value>. Text Plain Charset US ASCII
974	.<Value>. Text Plain Charset UTF 8
975	.<Value>. Vendor Extension
976	.[Element]. Document Format Version
977	.[Element]. Document Format Device ID
978	.[Element]. Document Natural Language
979	.[Element]. Document Source Application Name
980	.[Element]. Document Source Application Version
981	.[Element]. Document Source OS Name

982	.[Element]. Document Source OS Version
983	.[Element]. Vendor Extension
984	.[Element]. Document Format Supplied
985	.<Value>. <a href="#">Application Octet Stream</a>
986	.<Value>. Application PDF
987	.<Value>. <a href="#">Application POSTSCRIPT</a>
988	.<Value>. Application VND PWG XHTML Print XML
989	.<Value>. Application VND HP PCL
990	.<Value>. <a href="#">Image G3 FAX</a>
991	.<Value>. Image JPEG
992	.<Value>. Image TIFF
993	.<Value>. Image TIFF FX
994	.<Value>. Text HTML
995	.<Value>. Text Plain
996	.<Value>. Text Plain Charset ISO 8859 1
997	.<Value>. Text Plain Charset US ASCII
998	.<Value>. Text Plain Charset UTF 8
999	.<Value>. Vendor Extension
1000	.[Element]. Document Format Version Supplied
1001	.[Element]. <a href="#">Document Message Supplied</a>
1002	.[Element]. <a href="#">Document Meta Data</a>
1003	.[Element]. Document Name Supplied
1004	.[Element]. Document URI
1005	.[Element]. Impressions
1006	.[Element]. Job Collation Type
1007	.<Value>. Uncollated
1008	.<Value>. Collated
1009	.<Value>. Vendor Extension
1010	.[Element]. Media Sheets
1011	.[Element]. Page Order Received
1012	.<Value>. 1 to N Order
1013	.<Value>. N to 2 Order
1014	.<Value>. Vendor Extension
1015	.[Element]. Vendor Extension
1016	
1017	.[Element]. Print Job Processing
1018	.[Element]. Job Copies
1019	.[Element]. Job Delay Output Until
1020	.[Element]. No Hold
1021	.[Element]. Indefinite
1022	.[Element]. <a href="#">Day Time</a>
1023	.[Element]. <a href="#">Evening</a>

1024 .[Element]. [Night](#)  
1025 .[Element]. [Weekend](#)  
1026 .[Element]. [Second Shift](#)  
1027 .[Element]. [Third Shift](#)  
1028 .[Element]. Vendor Extension  
1029 .[Element]. [Job Delay Output Until Time](#)  
1030 .[Element]. Job Error Action  
1031 .<Value>. Abort Job  
1032 .<Value>. Cancel Job  
1033 .<Value>. [Continue Job](#)  
1034 .<Value>. [Suspend Job](#)  
1035 .<Value>. [Vendor Extension](#)  
1036 .[Element]. Job Hold Until  
1037 .[Element]. No Hold  
1038 .[Element]. Indefinite  
1039 .[Element]. [Day Time](#)  
1040 .[Element]. [Evening](#)  
1041 .[Element]. [Night](#)  
1042 .[Element]. [Weekend](#)  
1043 .[Element]. [Second Shift](#)  
1044 .[Element]. [Third Shift](#)  
1045 .[Element]. Vendor Extension  
1046 .[Element]. [Job Hold Until Time](#)  
1047 .[Element]. [Job Phone Number](#)  
1048 .[Element]. Job Priority  
1049 .[Element]. Job Recipient Name  
1050 .[Element]. Job Accounting Sheets  
1051 .[Element]. Job Accounting Sheets Type  
1052 .<Value>. None  
1053 .<Value>. Standard  
1054 .<Value>. Vendor Extension  
1055 .[Element]. Job Accounting Output Bin  
1056 .<Value>. Top  
1057 .<Value>. Middle  
1058 .<Value>. Bottom  
1059 .<Value>. Side  
1060 .<Value>. [Left](#)  
1061 .<Value>. [Right](#)  
1062 .<Value>. [Center](#)  
1063 .<Value>. Rear  
1064 .<Value>. [Face Up](#)  
1065 .<Value>. [face down](#)

1066 .<Value>. Large Capacity  
1067 .<Value>. [Stacker 1](#)  
1068 .<Value>. [Stacker 2](#)  
1069 .<Value>. [Stacker 3](#)  
1070 .<Value>. [Stacker 4](#)  
1071 .<Value>. [Stacker 5](#)  
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1073 .<Value>. [Stacker 7](#)  
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1075 .<Value>. [Stacker 9](#)  
1076 .<Value>. [Stacker 10](#)  
1077 .<Value>. Mailbox 1  
1078 .<Value>. Mailbox 2  
1079 .<Value>. Mailbox 3  
1080 .<Value>. Mailbox 4  
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1092 .<Value>. [Mailbox 16](#)  
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1098 .<Value>. [Mailbox 22](#)  
1099 .<Value>. [Mailbox 23](#)  
1100 .<Value>. [Mailbox 24](#)  
1101 .<Value>. [Mailbox 25](#)  
1102 .<Value>. My Mailbox  
1103 .<Value>. [Tray 1](#)  
1104 .<Value>. [Tray 2](#)  
1105 .<Value>. [Tray 3](#)  
1106 .<Value>. [Tray 4](#)  
1107 .<Value>. [Tray 5](#)

1108	.<Value>. Tray 6
1109	.<Value>. Tray 7
1110	.<Value>. Tray 8
1111	.<Value>. Tray 9
1112	.<Value>. Tray 10
1113	.<Value>. Tray 11
1114	.<Value>. Tray 12
1115	.<Value>. Tray 13
1116	.<Value>. Tray 14
1117	.<Value>. Tray 15
1118	.<Value>. Tray 16
1119	.<Value>. Tray 17
1120	.<Value>. Tray 18
1121	.<Value>. Tray 19
1122	.<Value>. Tray 20
1123	.[Element]. Media
1124	.<Value>. To – Be – Determined
1125	.[Element]. Media Type
1126	.<Value>. To – Be – Determined
1127	.[Element]. Media Col
1128	.<Value>. To – Be – Determined
1129	.[Element]. Job Collation Type
1130	.<Value>. Uncollated Sheets
1131	.<Value>. Collated Documents
1132	.<Value>. Uncollated Documents
1133	.<Value>. Vendor Extension
1134	.[Element]. Job Copies
1135	.[Element]. Job Cover Back
1136	.[Element]. Cover Type
1137	.<Value>. No Cover
1138	.<Value>. Print None
1139	.<Value>. Print Front
1140	.<Value>. Print Back
1141	.<Value>. Print Both
1142	.<Value>. Vendor Extension
1143	.[Element]. Media Type
1144	.<Value>. To – Be – Determined
1145	.[Element]. Media
1146	.<Value>. To – Be – Determined
1147	.[Element]. Media Col
1148	.<Value>. To – Be – Determined
1149	.[Element]. Vendor Extension



1150 .[Element]. Job Cover Front  
 1151 .[Element]. Cover Type  
 1152 .<Value>. No Cover  
 1153 .<Value>. Print None  
 1154 .<Value>. Print Front  
 1155 .<Value>. Print Back  
 1156 .<Value>. Print Both  
 1157 .<Value>. [Vendor Extension](#)  
 1158 .[Element]. Media Type  
 1159 .<Value>. To - Be - Determined  
 1160 .[Element]. Media  
 1161 .<Value>. To - Be - Determined  
 1162 .[Element]. Media Col  
 1163 .[Element]. To - Be - Determined  
 1164 .[Element]. Job Error Sheet  
 1165 .[Element]. Job Error Sheet Type  
 1166 .<Value>. None  
 1167 .<Value>. Standard  
 1168 .<Value>. Vendor Extension  
 1169 .[Element]. Job Error Sheet When  
 1170 .<Value>. On Error  
 1171 .<Value>. Always  
 1172 .<Value>. Vendor Extension  
 1173 .[Element]. Media Type  
 1174 .<Value>. To - Be - Determined  
 1175 .[Element]. Media  
 1176 .<Value>. To - Be - Determined  
 1177 .[Element]. Media Col  
 1178 .<Value>. To - Be - Determined  
 1179 .[Element]. Job Finishings  
 1180 .<Value>. None  
 1181 .<Value>. [Staple](#)  
 1182 .<Value>. [Punch](#)  
 1183 .<Value>. [Cover](#)  
 1184 .<Value>. [Bind](#)  
 1185 .<Value>. [Saddle Stitch](#)  
 1186 .<Value>. [Edge Stitch](#)  
 1187 .<Value>. [Fold](#)  
 1188 .<Value>. [Trim](#)  
 1189 .<Value>. [Bale](#)  
 1190 .<Value>. [Booklet Maker](#)  
 1191 .<Value>. Jog Offset

1192	.<Value>. Staple Top Left
1193	.<Value>. Staple Bottom Left
1194	.<Value>. Staple Top Right
1195	.<Value>. Staple Bottom Right
1196	.<Value>. Edge Stitch Left
1197	.<Value>. Edge Stitch Top
1198	.<Value>. Edge Stitch Right
1199	.<Value>. Edge Stitch Bottom
1200	.<Value>. Staple Dual Left
1201	.<Value>. Staple Dual Top
1202	.<Value>. Staple Dual Right
1203	.<Value>. Staple Dual Bottom
1204	.<Value>. Bind Left
1205	.<Value>. Bind Top
1206	.<Value>. Bind Right
1207	.<Value>. Bind Bottom
1208	.<Value>. Vendor Extension
1209	.[Element]. Finishings Col
1210	.<Value>. Finishing Template
1211	.[Element]. Stitching
1212	.<Value>. Bottom
1213	.<Value>. Top
1214	.<Value>. Left
1215	.<Value>. Right
1216	.<Value>. Vendor Extension
1217	.<Value>. Vendor Extension
1218	.[Element]. Job Save Disposition
1219	.[Element]. Save Disposition
1220	.<Value>. None
1221	.<Value>. Save Only
1222	.<Value>. Print Save
1223	.<Value>. Vendor Extension
1224	.[Element]. Save Info
1225	.<Value>. Save Document Format
1226	.<Value>. Save Location
1227	.<Value>. Save Name
1228	.<Value>. Vendor Extension
1229	.[Element]. Vendor Extension
1230	.[Element]. Job Sheet message
1231	.[Element]. Job Sheets
1232	.<Value>. None
1233	.<Value>. Standard

1234 .<Value>. Vendor Extension  
1235 .[Element]. Job Sheets Col  
1236 .[Element]. Job Sheets  
1237 .<Value>. None  
1238 .<Value>. Standard  
1239 .<Value>. Vendor Extension  
1240 .[Element]. Media Type  
1241 .<Value>. To – Be – Determined  
1242 .[Element]. Media  
1243 .<Value>. To – Be – Determined  
1244 .[Element]. Media Col  
1245 .<Value>. To – Be – Determined  
1246 .[Element]. Vendor Extension  
1247 .[Element]. Multiple Documents Handle  
1248 .<Value>. Separate Documents Collated Copies  
1249 .<Value>. Separate Documents Uncollated Copies  
1250 .<Value>. Single Document  
1251 .<Value>. Single Document New Sheet  
1252 .<Value>. Vendor Extension  
1253 .[Element]. Output Device  
1254 .[Element]. Overrides  
1255 .<Value>. To – Be – Determined  
1256 .[Element]. Pages Per Subset  
1257 .[Element]. Proof Print  
1258 .[Element]. Proof Print Copies  
1259 .[Element]. Media Type  
1260 .<Value>. To – Be – Determined  
1261 .[Element]. Media  
1262 .<Value>. To – Be – Determined  
1263 .[Element]. Media Col  
1264 .<Value>. To – Be – Determined  
1265 .[Element]. Overrides  
1266 .<Value>. Document Copies  
1267 .<Value>. Document Numbers  
1268 .<Value>. To – Be – Determined  
1269 .[Element]. Vendor Extension

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## 1529 **6. Internationalization**

1530 For interoperability and basic support for multiple languages, conforming  
1531 implementations MUST support the Universal Character Set (UCS) Transformation  
1532 Format -- 8 bit (UTF-8) [RFC3629] encoding of Unicode [UNICODE] [ISO10646] and  
1533 the Unicode Format for Network Interchange [RFC5198].  
1534

## 1535 **7. Security Considerations**

1536 Not acceptable for this implementation guide.  
1537

## 1538 **8. IANA Registration Information**

1539 Not acceptable for this implementation guide.

1540 **9. References**

1541 **9.1 Normative References**

[PWG5108.07] P. Zehler, "PWG Print Job Ticket and Associated Capabilities Version 1.0 (PJT)", PWG5108.07-2012, August 1, 2012, <ftp://ftp.pwg.org/pub/pwg/candidates/cs-sm20-pjt10-20120801-5108.07.pdf>

1542

1543 **9.2 Informative References**

1544

1545 **10. Authors' Contact Information**

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