

March 10, 2013
Technical Brief



The Printer Working Group

IPP Everywhere Self-Certification Manual

Status: Initial

Abstract: This document defines IPP Everywhere self-certification test procedures and the process required for registering the test results in order to use the "IPP Everywhere Certified" logo.

This document is a PWG Technical Brief. For a definition of a "PWG Technical Brief", see: <ftp://ftp.pwg.org/pub/pwg/general/pwg-process30.pdf>

This document is available electronically at:

<ftp://ftp.pwg.org/pub/pwg/ipp/whitepaper/tb-ippeveselfcert10-20130310.docx>
<ftp://ftp.pwg.org/pub/pwg/ipp/whitepaper/tb-ippeveselfcert10-20130310.pdf>

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9 Title: *IPP Everywhere Self-Certification Manual*

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45 The Printer Working Group (or PWG) is a Program of the IEEE Industry Standards and
46 Technology Organization (ISTO) with member organizations including printer
47 manufacturers, print server developers, operating system providers, network operating
48 systems providers, network connectivity vendors, and print management application
49 developers. The group is chartered to make printers and the applications and operating
50 systems supporting them work together better. All references to the PWG in this
51 document implicitly mean “The Printer Working Group, a Program of the IEEE ISTO.” In
52 order to meet this objective, the PWG will document the results of their work as open
53 standards that define print related protocols, interfaces, procedures and conventions.
54 Printer manufacturers and vendors of printer related software will benefit from the
55 interoperability provided by voluntary conformance to these standards.

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

59 For additional information regarding the Printer Working Group visit:

60 <http://www.pwg.org>

61 Contact information:

62 The Printer Working Group
63 c/o The IEEE Industry Standards and Technology Organization
64 445 Hoes Lane
65 Piscataway, NJ 08854
66 USA
67

68 About the Internet Printing Protocol Work Group

69 The Internet Printing Protocol (IPP) working group has developed a modern, full-featured
70 network printing protocol, which is now the industry standard. IPP allows a print client to
71 query a printer for its supported capabilities, features, and parameters to allow the
72 selection of an appropriate printer for each print job. IPP also provides job information prior
73 to, during, and at the end of job processing.

74 For additional information regarding IPP visit:

75 <http://www.pwg.org/ipp/>

76 Implementers of this specification are encouraged to join the IPP mailing list in order to
77 participate in any discussions of the specification. Suggested additions, changes, or
78 clarification to this specification, should be sent to the IPP mailing list for consideration.
79

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120 Home tab, under Styles, click a heading style. Repeat for each heading that you want to

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123 then click the down arrow button. Click one of the styles under Manual Table of Contents,

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135 **1. Introduction**

136 The Internet Printing Protocol supports all kinds of printing from low-end consumer through
137 multi-room production printers. The IPP Everywhere project developed a new baseline
138 specification [PWG5100.14] that enables printing from arbitrary clients using vendor-
139 neutral driver software. In order to allow vendors to market their conformance to the new
140 specification and consumers to easily determine which printers are compatible with their
141 clients, the Printer Working Group has developed this technical brief which defines a series
142 of self-certification tests that must be performed successfully in order to use the IPP
143 Everywhere Certified logo.

144 **1.1 Reporting Problems**

145 Description of where to go to report problems in this document and/or in the test tools.

146 **2. Terminology**

147 **2.1 Conformance Terminology**

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

153 **2.2 Other Terminology**

154 *Capitalized Term In Italics*: definition of the term with any references as appropriate.

155 **2.3 Acronyms and Organizations**

156 *IANA*: Internet Assigned Numbers Authority, <http://www.iana.org/>

157 *IETF*: Internet Engineering Task Force, <http://www.ietf.org/>

158 *ISO*: International Organization for Standardization, <http://www.iso.org/>

159 *PWG*: Printer Working Group, <http://www.pwg.org/>

160

161 **3. Requirements**

162 **3.1 Rationale for Title of Document**

163 Provide a rationale for the document.

164 **3.2 Use Cases**

165 Provide use cases for the document in subsections using the casual use case format.

166 **3.3 Out of Scope**

167 The following are considered out of scope for this specification:

- 168 1. Definition of foo
- 169 2. Protocols for bar
- 170 3. Requirements for bla

171 **3.4 Design Requirements**

172 The design requirements for this specification are:

- 173 1. Define attributes for foo and bar
- 174 2. Define operations for bla
- 175 3. Register all attributes and operations with IANA

176 The design recommendations for this specification are:

- 177 1. Support additional "nice to have" use cases

178

179 **4. Bonjour Test Procedure**

180 **4.1 Test Description**

181 Description of all of the tests that are run

182 **4.2 Setup and System Requirements**

183 Where to download test tool

184 System requirements for running test tool

185 **4.3 Running Test Tool**

186 Instructions for running test tool.

187 **4.4 Interpreting Results**

188 Description of the output of the test tool.

189

190 **5. WS-Discovery Test Procedure**

191 **5.1 Test Description**

192 Description of all of the tests that will be run.

193 **5.2 Setup and System Requirements**

194 Where to download test tool

195 System requirements for running test tool

196 **5.3 Running Test Tool**

197 Instructions for running test tool

198 **5.4 Interpreting Results**

199 Description of the output of the test tool

200

201 **6. IPP Test Procedure**

202 **6.1 Test Description**

203 Description of all of the tests that will be run

204 **6.2 Setup and System Requirements**

205 Where to download test tool

206 System requirements for running test tool

207 **6.3 Running Test Tool**

208

209 Instructions for running test tool

210 **6.4 Interpreting Results**

211 Description of the output of the test tool

212

213 **7. Submission of Test Report**

214 Instructions for submitting the test report (results of all tests) to the ISTO/PWG.

215

216 **8. References**

217 **8.1 Normative References**

218 [REFERENCE] F. Last author list or standards body, "Title of referenced document",
219 Document Number, Month YYYY, URL (if any)

220 [RFC2119] S. Bradner, "Key words for use in RFCs to Indicate Requirement
221 Levels", RFC 2119/BCP 14, March 1997,
222 <http://www.ietf.org/rfc/rfc2119.txt>

223 **8.2 Informative References**

224 [REFERENCE] F. Last author list or standards body, "Title of referenced document",
225 Document Number, Month YYYY, URL (if any)

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234 standard:

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236 **10. Release History**

237 This section will contain a list of high-level changes for quarterly? releases of the technical
238 brief.

239

240 **11. Change History**

241 **11.1 March 10, 2013**

242 Initial revision.