

1 **Charter of the PWG**  
2 **IPP Working Group (WG) Project**  
3 **IPP Everywhere**

4 **Status: Approved**  
5 **Copyright © 2010 Printer Working Group**  
6 **<ftp://ftp.pwg.org/pub/pwg/ipp/charter/ch-ippeverywhere-charter-20100712.pdf>**  
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9 **IPP WG Chair:**

10 Paul Tykodi (TCS)

11 **IPP WG Secretary:**

12 Michael Sweet (Apple/CUPS)

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14 **IPP WG Document Editors:**

15 Ira McDonald (High North), Michael Sweet (Apple/CUPS)

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17 **Problem Statement:**

18 New mobile devices (e.g., cellphones, PDAs, netbooks, etc.) do not follow the traditional use models for  
19 printing services. For mobile devices, discovery of available printers and their capabilities is both more  
20 difficult than for traditional desktop systems and more important (because of dynamically changing  
21 network attachment points).

22 Printer vendors and software vendors have defined and deployed many different document formats (page  
23 description languages) and also dialects of those document formats, increasing the traditional desktop  
24 system need for model-specific printer drivers. While there are millions of model-specific printer drivers  
25 now available for traditional desktop systems, this printer driver model is clearly not practical for mobile  
26 devices.

27  
28 The goal of the IPP Everywhere project is to develop the following two new specifications:  
29

30 (a) IPP Everywhere Requirements (wd-ippevereq10-yyyymmdd) – define a rationale, use cases, design  
31 requirements, and the selection criteria for a common set of printer device discovery protocols and  
32 document formats optimized for mobile devices; and  
33

34 (b) IPP Everywhere (wd-ippeve10-yyyymmdd) – define a small set of new IPP Job and Printer attributes  
35 (per the IPP Everywhere Requirements specification) and one IPP Everywhere conformance level, based  
36 on the IPP/2.0 conformance level defined in PWG IPP Version 2.0 Second Edition and composed of  
37 references to IPP and other public and vendor standards documents.  
38

## 39 **Out-of-scope:**

- 40 • OOS-1 New device discovery protocols **MUST NOT** be defined in the IPP Everywhere project, although  
41 new profiles or subsets of existing device discovery protocols are appropriate and may be necessary.
- 42 • OOS-2 New device management protocols **MUST NOT** be defined in the IPP Everywhere project,  
43 although new profiles or subsets of existing device management protocols are appropriate and may be  
44 necessary.
- 45 • OOS-3 New IPP or non-IPP transport protocols **MUST NOT** be defined in the IPP Everywhere project,  
46 although the design of IPP Everywhere **MUST NOT** preclude future extensions.  
47

## 48 **Objectives:**

- 49 • OBJ-1 Use the existing IPP/2.0 conformance level as basis of IPP Everywhere for mobile clients and  
50 network printers.
- 51 • OBJ-2 Select a small set of **REQUIRED** device discovery protocols for IPP Everywhere for network  
52 printers.
- 53 • OBJ-3 Select a small set of **REQUIRED** document formats for IPP Everywhere for network printers,  
54 choosing existing document formats when possible (i.e., trying to avoid (re)defining document formats).
- 55 • OBJ-4 Use the existing IPP transport over HTTP/1.1 defined in RFC 2910 for IPP Everywhere.
- 56 • OBJ-5 Optimize for small memory and resource footprints for IPP Everywhere mobile clients and network  
57 printers.
- 58 • OBJ-6 Design to allow for future extensions for other protocol bindings (e.g., Web Services) for IPP  
59 Everywhere.
- 60 • OBJ-7 Design to allow the use of vendor-neutral generic print drivers (e.g., one per document format) by  
61 IPP Everywhere mobile clients.  
62

## 63 **Milestones:**

### 64 **Charter Stage:**

- 65 • CH-1 Initial working draft of IPP Everywhere Charter – February 2010 – **DONE**
- 66 • CH-2 Stable working draft of IPP Everywhere Charter – April 2010 – **DONE**
- 67 • CH-3 PWG Approval via Formal Vote of IPP Everywhere Charter – July 2010 – **DONE**

### 68 **Definition Stage:**

- 69 • REQ-1 Initial working draft of IPP Everywhere Requirements – Q3 2010
- 70 • STD-1 Initial working draft of IPP Everywhere – Q4 2010
- 71 • REQ-2 PWG Last Call of IPP Everywhere Requirements – Q1 2011
- 72 • STD-2 Prototype working draft of IPP Everywhere – Q2 2011

### 73 **Implementation Stage:**

- 74 • INTEROP-1 Interoperability testing of IPP Everywhere implementations – Q3 2011