

# Charter of the PWG

## IPP Working Group (WG) Project

### IPP Everywhere

Status: Approved

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<ftp://ftp.pwg.org/pub/pwg/ipp/charter/ch-ippeverywhere-charter-20100930.pdf>

#### IPP WG Co-Chairs:

Paul Tykodi (TCS), Ira McDonald (High North)

#### IPP WG Secretary:

Michael Sweet (Apple/CUPS)

#### IPP WG Document Editors:

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

#### Problem Statement:

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

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

The goal of the IPP Everywhere project is to develop the following three new specifications:

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

(b) IPP Job and Printer Extensions – Set 3 (JPS3) (wd-ippjobprinterext3v10-yyyymmdd) – define a small set of new IPP Job and Printer operations and attributes (per the IPP Everywhere Requirements specification); and

(c) IPP Everywhere (wd-ippeve10-yyyymmdd) – define one or more IPP Everywhere conformance levels based on the IPP/2.0 conformance level defined in PWG IPP Version 2.0 Second Edition and composed of references to the new IPP JPS3 spec defined above, other IETF and PWG IPP specs, and other public and vendor standards documents.

## 42 **Out-of-scope:**

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

- 52 • OBJ-1 Use the existing IPP/2.0 conformance level as basis of IPP Everywhere for mobile clients and  
53 network printers.
- 54 • OBJ-2 Select a small set of **REQUIRED** device discovery protocols for IPP Everywhere for network  
55 printers.
- 56 • OBJ-3 Select a small set of **REQUIRED** document formats for IPP Everywhere for network printers,  
57 choosing existing document formats when possible (i.e., trying to avoid (re)defining document formats).
- 58 • OBJ-4 Use the existing IPP transport over HTTP/1.1 defined in RFC 2910 for IPP Everywhere (see OBJ-8  
59 below).
- 60 • OBJ-5 Optimize for small memory and resource footprints for IPP Everywhere mobile clients and network  
61 printers.
- 62 • OBJ-6 Design to allow for future extensions for other protocol bindings (e.g., Web Services) for IPP  
63 Everywhere.
- 64 • OBJ-7 Design to allow the use of vendor-neutral generic print drivers (e.g., one per document format) by  
65 IPP Everywhere mobile clients.
- 66 • OBJ-8 Define a new IPPS URI scheme to support IPP over HTTPS connections for IPP Everywhere.
- 67 • OBJ-9 Define support (e.g., IPP Printer attributes and/or operations) for access to IETF Printer MIB v2  
68 (RFC 3805) and other industry standard and vendor private SNMP MIBs for IPP Everywhere.  
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## 70 **Milestones:**

### 71 **Charter Stage:**

- 72 • CH-1 Initial working draft of IPP Everywhere Charter – February 2010 – **DONE**
- 73 • CH-2 Stable working draft of IPP Everywhere Charter – April 2010 – **DONE**
- 74 • CH-3 PWG Approval via Formal Vote of IPP Everywhere Charter – July 2010 – **DONE**
- 75 • CH-4 Stable working draft of IPP Everywhere Charter w/ IPP JPS3 – September 2010 – **DONE**
- 76 • CH-5 PWG Approval via PWG SC of IPP Everywhere Charter w/ IPP JPS3 – September 2010

### 77 **Definition Stage:**

- 78 • REQ-1 Initial working draft of IPP Everywhere Requirements – Q3 2010
- 79 • JPS3-1 Initial working draft of IPP JPS3 – Q4 2010
- 80 • EVE-1 Initial working draft of IPP Everywhere – Q4 2010
- 81 • REQ-2 PWG Last Call of IPP Everywhere Requirements – Q1 2011
- 82 • JPS3-2 Prototype working draft of IPP JPS3 – Q2 2011
- 83 • EVE-2 Prototype working draft of IPP Everywhere – Q2 2011

### 84 **EVE-2 Prototype working draft of IPP Everywhere – Q2 2011 Implementation Stage:**

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