1	Charter of the PWG
2	IPP Working Group
3 4 5 6	Status: PWG Approved Copyright © 2013 Printer Working Group ftp://ftp.pwg.org/pub/pwg/ipp/charter/ch-ipp-charter-20131010.pdf
7 8	IPP WG Co-Chairs:
9	Paul Tykodi (TCS), Ira McDonald (High North)
10	IPP WG Secretary:
11	Michael Sweet (Apple/CUPS)
12 13	IPP WG Document Editors:
14	Smith Kennedy (HP), Ira McDonald (High North), Michael Sweet (Apple/CUPS)
15	Droblem Statement
16	Problem Statement:
17 18 19 20	New mobile devices (e.g., cellphones, PDAs, netbooks, tablets, 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).
21 22 23 24 25 26	New network architectures (e.g., Cloud, SASS, Software-Defined Networks, etc.) do not follow the traditional use models for enterprise networks. In shared infrastructure environments, enterprise services and databases are often configured on external networks accessible only via the public Internet. Client enrollment, printer registration, user access control, job and document forwarding, and job accounting features are inherently more difficult to deploy than for traditional enterprise networks (because perimeter firewalls are both insufficient for security and difficult to traverse for Internet-based services).
27 28	The current IPP WG goals are to develop the following new specifications:
29 30 31 32	(a) IPP Finishings v2.0 (wd-ippfinishings20-yyyymmdd) – define an update to IPP Finishings v1.0 (PWG 5100.1-2001) that includes new finishing types and extends the sparse definition of the "finishings-col" in IPP Production Printing Attributes – Set 1 (PWG 5100.3-2001);
33 34 35 36 37	(b) IPP over HTTPS Transport Binding and 'ipps' URI Scheme (IETF draft-mcdonald-ipps-uri-scheme-xx.txt) – define an IETF 'ipps' URI scheme for IPP over HTTPS that will always <b>start</b> TLS first <b>before</b> the HTTP session layer, designed to be coherent with the original IPP URL Scheme (RFC 3510) and IPP Everywhere (PWG 5100.14-2013);
38 39 40 41 42	(c) Lightweight Directory Access Protocol (LDAP): Schema for Printer Services (IETF draft-mcdonald-ldap-printer-schema-xx.txt) – define an IETF specification that updates the original LDAP Schema for Printer Services (RFC 3712), adding new discovery attributes (e.g., geolocation) needed for IPP Everywhere;
43 44 45	(d) IPP Transaction-Based Printing Extensions (wd-ipptrans10-yyyymmdd) – define IPP extensions to support the business transaction logic needed for paid, PIN, release, and quota-based printing through local and commercial services;
46 47 48 49	(e) IPP Implementor's Guide v2.0 (wd-ippig20-yyyymmdd) – define update to IPP/1.1 Implementor's Guide (RFC 3196) that specifies best practices for interoperability in implementations of IPP Client and IPP Printer software and considers the IETF and PWG IPP extensions defined over the last decade;

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Out-of-scope:

extensions.

**Objectives:** 

Printers.

Internet-based services.

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## **Charter Stage:**

Milestones:

- CH-1 Initial working draft of IPP WG Charter August 2013 DONE
- CH-2 Stable working draft of IPP WG Charter September 2013 DONE

(f) IPP Everywhere Self-Certification Manual v1.0 (wd-ippeveselfcert10-yyyymmdd) – define IPP

System Control Service (PWG 5108.6-2012);

appropriate and may be necessary.

Email In, IPP Email Out, IPP FaxIn.

Defined Network (SDN), and other shared infrastructure environments;

Everywhere self-certification test procedures, the process required for registering the test results in order to

(g) IPP System Control Service v1.0 (wd-ippsystem10-yyyymmdd) – define an IPP System Control service

that extends IPP Job and Printer Administrative Operations (RFC 3998) and provides read-only access to

status, configuration, counters, etc. in the PWG SM System object, designed to be coherent with PWG SM

(h) IPP Shared Infrastructure Extensions (wd-ippsix10-yyyymmdd) – define new IPP Client and/or IPP

(i) IPP FaxOut Service (wd-ippfaxout10-yyyymmdd) – define an IPP FaxOut service that extends IPP/1.1

OOS-1 New device discovery protocols MUST NOT be defined in IPP projects, although new profiles or

OOS-2 New device management protocols (except for IPP System Control Service above) MUST NOT be

defined in IPP projects, although new profiles or subsets of existing device management protocols are

OOS-3 New IPP or non-IPP transport protocols (except for IPP over HTTPS above) MUST NOT be

defined in IPP projects, although the design of IPP projects MUST NOT preclude future transport

OOS-4 New work on the following potential IPP projects is suspended until use cases, editors, and

Multifunction (i.e., profile of a complete Multifunction Device which depends upon scan support).

OOS-5 New work on the following potential IPP projects is abandoned as inappropriate: IPP Copy, IPP

OBJ-1 Optimize all IPP extensions for small memory and resource footprints for IPP Clients and IPP

OBJ-3 Design all IPP extensions to allow the use of vendor-neutral generic print software by IPP Clients.

OBJ-4 Design all IPP extensions to allow ease of integration with shared infrastructure environments and

OBJ-2 Design all IPP extensions to allow for other future protocol bindings (e.g., Web Services).

OBJ-5 Define the set of new IPP specifications enumerated in the Problem Statement clause above.

interested vendors have been identified: IPP Resource Service, IPP Scan, IPP Transform, IPP

Printer operations and attributes designed to support to extend network printing into Cloud, Software

(RFC 2911), designed to be coherent with PWG SM FaxOut Service (PWG 5108.5-2011).

subsets of existing device discovery protocols are appropriate and may be necessary.

use the "IPP Everywhere Certified" logo on a product, and a license agreement for the use of this logo;

CH-3 PWG Approval via Formal Vote of IPP WG Charter – October 2013

## **Definition Stage:**

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99	<ul> <li>URI-1 Initial working draft of IPP over HTTPS and 'ipps' URI Scheme – Q3 2010 – DONE</li> </ul>
100	<ul> <li>FAXOUT-1 Initial working draft of IPP FaxOut – Q3 2011 – DONE</li> </ul>
101	<ul> <li>LDAP-1 Initial working draft of updated LDAP Printer Schema – Q4 2011 – DONE</li> </ul>
102	<ul> <li>SIX-1 Initial working draft of IPP SIX – Q2 2012 – DONE</li> </ul>
103	• IG-1 Initial working draft of IPP Implementor's Guide v2.0 – Q4 2012 – DONE
104	<ul> <li>CERT-1 Initial working draft of IPP Everywhere Self-Certification – Q2 2013 – DONE</li> </ul>
105	<ul> <li>TRANS-1 Initial working draft of IPP Transaction-based Printing Exts – Q2 2013 – DONE</li> </ul>
106	<ul> <li>FAXOUT-2 Prototype working draft of IPP FaxOut – Q2 2013 – DONE</li> </ul>
107	<ul> <li>TRANS-2 Prototype working draft of IPP Transaction-based Printing Exts – Q2 2013 – DONE</li> </ul>
108	<ul> <li>FINISH-1 Initial working draft of IPP Finishings v2.0 – Q3 2013 – DONE</li> </ul>
109	<ul> <li>URI-2 IESG Last Call of IPP over HTTPS and 'ipps' URI Scheme – Q4 2013</li> </ul>
110	<ul> <li>LDAP-2 IESG Last Call of LDAP Printer Schema – Q4 2013</li> </ul>
111	<ul> <li>SIX-2 Prototype working draft of IPP SIX – Q4 2013 – DONE</li> </ul>
112	<ul> <li>CERT-2 Prototype working draft of IPP Everywhere Self-Certification – Q4 2013</li> </ul>
113	<ul> <li>FINISH-2 Prototype working draft of IPP Finishings v2.0 – Q1 2014</li> </ul>
114	<ul> <li>SYS-1 Initial working draft of IPP System Control v1.0 – Q1 2014</li> </ul>
115	<ul> <li>IG-2 Prototype working draft of IPP Implementor's Guide v2.0 – Q1 2014</li> </ul>
116	<ul> <li>SYS-2 Prototype working draft of IPP System Control v1.0 – Q3 2014</li> </ul>
117	Implementation Stage:
118	• INTEROP-1 Interoperability testing of IPP Everywhere implementations – Q2 2014
119	• INTEROP-2 Interoperability testing of IPP SIX implementations – Q4 2014