



The Printer Working Group

IPP Workgroup Session

November 4, 2014

PWG F2F Meeting

Waltham, MA

IPP WG Meeting Agenda



November 4, 2014

When	What
1:00 - 1:15	Status
1:15 - 1:45	IPP Scan Service Formal Vote Review
1:45 - 3:00	IPP Finishings 2.0 (FIN) Last Call Review
3:00 - 3:15	Break
3:15 - 4:45	IPP System Control Service
4:45 - 5:00	Next Steps

IPP WG Officers



- **IPP WG Co-Chairs:**
 - Paul Tykodi (TCS)
 - Ira McDonald (High North)
- **IPP WG Secretary:**
 - Michael Sweet (Apple)
- **IPP WG Document Editors:**
 - Ira McDonald (High North) – IPP Shared Infrastructure Extensions (INFRA), IPP System Control Service (SYSTEM), IPP over HTTPS Transport Binding and “ipps” URI Scheme, LDAP Schema for Printer Services
 - Michael Sweet (Apple) – IPP Shared Infrastructure Extensions (INFRA), IPP System Control Service (SYSTEM), IPP over HTTPS Transport Binding and “ipps” URI Scheme, LDAP Schema for Printer Services, IPP Finishings 2.0 (FIN)
 - Smith Kennedy (HP) - IPP Implementor’s Guide 2.0 (IG)
 - Peter Zehler (parc) - IPP Scan Service (SCAN)



- IETF RFCs in development:
 - IETF IPP over HTTPS Transport Binding and "ipps" URI Scheme
 - IETF IESG Last Call
 - IETF LDAP Schema for Printer Services (updates RFC 3712)
 - IETF RFC Editor's Queue
- PWG Specifications in development:
 - IPP Everywhere Printer Self-Certification Manual 1.0 (SELFCERT)
 - Prototype Draft
 - IPP Finishings 2.0 (FIN)
 - Stable Draft
(PWG Last Call Complete)
 - IPP Implementors Guide 2.0 (IG)
 - Prototype Draft
 - IPP Scan Service (SCAN)
 - Stable Draft
(PWG Formal Vote Complete)
 - IPP Shared Infrastructure Extensions (INFRA)
 - Prototype Draft
 - IPP System Control Service (System)
 - Interim Draft



- Recent Candidate Standards:
 - PWG 5100.15-2014: IPP FaxOut Service (errata)
 - PWG 5100.17-2014: IPP Scan Service (Scan)
- Up-to-date pending IANA registrations online:
 - <http://www.pwg.org/ipp/ipp-registrations.xml>
 - Continue to maintain this in parallel for new specifications
 - PWG version includes draft specifications that have reached prototype status
 - Also pending errata for PWG 5100.9 and 5107.3 to correct xxx-error usage (per WG mailing list discussion)
 - Explain issues and update registry for IANA Printer MIB (ASN.1 comments)
 - Update IANA IPP registry for keywords that do not require "-error" on the end

IPP Everywhere Printer Self-Certification



- Current prototype draft and tools:
 - <http://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippeveselfcert10-20148026.pdf>
 - <http://www.pwg.org/ipp/> (for tools)
- Need beta test feedback, i.e., guinea pigs!





IPP Scan Service (Scan)

- Completed PWG Formal Vote September 18, 2014
- Current (approved) draft at:
 - <http://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippscan10-2014MMDD.pdf>
- Review final editorial changes:
 - Get-Next-Document-Images renamed to Get-Next-Document-Data
 - "get-next-image-wait-mode" renamed to "document-data-wait"
 - "next-image-get-interval" renamed to "document-data-get-interval"
 - Clarifications on multiple document support (multiple image files vs. a single, multi-page PDF file)
 - Lots of formatting changes, capitalized terms, etc.



IPP Finishings 2.0 (FIN)

- PWG Last Call completed September 12, 2014
 - <http://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippfinishings20-20140701.pdf>
 - <http://ftp.pwg.org/pub/pwg/ipp/wd/lcrc-ippfinishings20.txt>
 - 11 members responded with 82 comments
 - 6 pending comments for review
 - 64 comments accepted
 - 12 comments rejected
- Last Call review draft posted October 24, 2012
 - <http://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippfinishings20-20141024.docx>
 - <http://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippfinishings20-20141024.pdf>
 - <http://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippfinishings20-20141024-rev.pdf>



IPP Finishings 2.0 (FIN)

- IM1. Coating.CoatingType - Maybe import JDF coating types?
 - Editor Comment: Looks like the only coating types that cannot be directly mapped now are "Aqueous" (whatever that is) and "Protective" (again, no definition...) No objection to adding them as long as we can define them.
- Jim Mekis (from CIP4) responded with:
 - ... The most commonly coating types requested by customers today are UV coatings (Ultra Violet cured polymers) which provide higher durability, and aqueous coatings that are viewed as "greener" and typically more easily recycled at end-of-life. Both types of overall coating protect the printed image as well as the substrate. ...
 - Protective then maps to the existing 'archival'
 - Do we want to provide an 'aqueous' type, or just focus on the functionality provided, i.e., protective/archival coating of some type?



IPP Finishings 2.0 (FIN)

- MS10. Section 5.1.1: Do we want to stick with "one or more staples" for edge-stitch-xxx? Seems like it should be at least two or more? This came from RFC 2911 and the original 5100.1 so not sure.
- RFC 2911 text:
 - '9' 'edge-stitch': Bind the document(s) with one or more staples (wire stitches) along one edge. The exact number and placement of the staples is implementation and/or site-defined.



IPP Finishings 2.0 (FIN)

- SK3. Page 21, Lines 523-546 : Are there standard locations for each of these for different media sizes? If so, where are these defined? It seems the definitions should be referenced here.
 - Per IPP WG conference call discussion, ISO 838 appears to define the standard locations for 2-hole punching, there is also a Wikipedia article on the subject.
 - http://en.wikipedia.org/wiki/Hole_punch
 - Based on the Wikipedia article, there are at least 12 “standard” hole positions and sizes



IPP Finishings 2.0 (FIN)

- WW3. The distinction between the terms "document, Document, copy, hardcopy document, set, (and perhaps a few others) as used in this specification should be made more clear with (perhaps) repeated definitions here and consistent use in the text. [remaining comment omitted for brevity...]
 - Initial resolution is to define Document and Set from RFC 3381. Set is then used whenever that semantic is intended, with hardcopy output or sheet used when the finishing operation can be applied to the Set as a whole or to individual sheets. There remains an outstanding issue for the baling-when member attribute (5.2.2.2) - do we need it, if so do we want all of the current values?
 - "baling-when" values are: 'after-copies', 'after-documents', 'after-job'
 - 'after-copies' should be 'after-set'
 - 'after-documents' doesn't make sense since "multiple-document-handling" defines this behavior
 - 'after-job' makes some sense (bale all sets at end of job)



IPP Finishings 2.0 (FIN)

- WW5. 3.2 The use cases all refer to indicating finishing intent "after initiating a print action". This might be mistaken for action being initiated at the Printer which, although it is somewhat clarified by the subsequent statement that the person "submits the print request". Could the "After initiating a print action" phase be dropped?
 - This has been the pattern used in many of the recent IPP specifications; will discuss replacing with "Using software on her Client device, Jane ..."



The Printer Working Group

Break



IPP System Control Service

- Current interim draft at:
 - <http://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippssystem10-20140824-rev.pdf>
- Continue review of this draft at section 5.5
- Proposed Schedule:
 - Prototype draft in Q2 2015



The Printer Working Group

Next Steps

IPP WG Next Steps



TO BE UPDATED



IPP WG Next Steps

- **IPP Everywhere Printer Self-Certification Manual 1.0**
 - Prototype experience (testing) and stable draft in Q4 2014/Q1 2015
 - WG Last Call in Q1 2015
- **IPP Finishings 2.0 (FIN2)**
 - PWG Formal Approval in Q4 2014
- **IPP Implementor's Guide 2.0 (IIG2)**
 - Prototype experience and stable draft in Q4 2014/Q1 2015
 - WG and PWG Last Call in Q1 2015
- **IPP Shared Infrastructure Extensions (INFRA)**
 - Stable draft and WG Last Call in Q4 2014
 - PWG Last Call in Q1 2015



IPP WG Next Steps

- **IPP System Control Service (Mike/Ira)**
 - Prototype working drafts in Q2 2015
- **Advance IPP/1.1 and IPP/2.0 to Full Standard**
 - IPP/1.1 requires a “fast track” IETF WG - investigating what is involved
 - IPP/2.0 just needs PWG Last Call and Formal Vote
 - Target completion by September 2015 (15 year anniversary of IPP/1.1)



IPP WG Info / Participation

- We welcome participation from all interested parties
- IPP Working Group web page
 - <http://www.pwg.org/ipp/index.html>
- Subscribe to the IPP mailing list
 - <https://www.pwg.org/mailman/listinfo/ipp>
- IPP WG holds bi-weekly phone conferences announced on the IPP mailing list
 - Next conference calls November 17, 2014 and December 1, 2014 at 3pm ET
 - Held on opposite weeks of Cloud Imaging Model WG
 - Held on same weeks of Imaging Device Security WG