



The Printer Working Group

IPP Workgroup Session #1

August 12, 2014

PWG F2F Meeting

Toronto, Ontario

IPP WG Meeting Agenda



August 12, 2014 (Session #1)

When	What
3:15 - 3:30	Status
3:30 - 5:00	IPP Shared Infrastructure Extensions (IPPSIX)

August 13, 2014 (Session #2)

When	What
3:15 - 5:00	IPP Everywhere Self-Certification Status

August 14, 2014 (Session #3)

When	What
1:00 - 3:00	IPP Implementor's Guide 2.0
3:00 - 3:15	Break
3:15 - 4:45	IPP Scan Service - PWG Last Call Resolution
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 (IPPSIX), IPP System Control Service, IPP over HTTPS Transport Binding and “ipps” URI Scheme, LDAP Schema for Printer Services
 - Michael Sweet (Apple) – IPP Shared Infrastructure Extensions (IPPSIX), IPP System Control Service, IPP over HTTPS Transport Binding and “ipps” URI Scheme, LDAP Schema for Printer Services, IPP Finishings 2.0
 - Smith Kennedy (HP) - IPP Implementor’s Guide 2.0
 - Peter Zehler (parc) - IPP Scan Service



- IETF RFCs in development:
 - IETF IPP over HTTPS Transport Binding and “ipps” URI Scheme
 - IETF Apps Area Review
 - IETF LDAP Schema for Printer Services (updates RFC 3712)
 - IETF Apps Area Review
- PWG Specifications in development:
 - IPP Everywhere Printer Self-Certification Manual 1.0
 - Prototype Draft
 - **IPP Finishings 2.0** **- Stable Draft (PWG Last Call)**
 - IPP Implementors Guide 2.0
 - Prototype Draft
 - IPP Scan Service
 - Stable Draft
(PWG Last Call Complete)
 - IPP Shared Infrastructure Extensions (IPPSIX)
 - Prototype Draft
 - IPP System Control Service
 - Initial Draft
(Review in conference call)



- Recent Candidate Standards:
 - PWG 5100.15-2014: IPP FaxOut Service (errata)
- 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 Finishings 2.0 (FIN2)

- PWG Last Call until August 22, 2014
- Quorum of PWG members (30% or 10 members) must acknowledge a PWG Last Call (with or without comments) before any document can progress to PWG Formal Vote.
- Please email your acknowledgement!
 - To: ipp@pwg.org, blueroofmusic@gmail.com, ptykodi@tykodi.com, msweet@apple.com
 - Subject: <Company Name> has reviewed the IPP Finishings 2.0 specification and has [no] comments

IPP Shared Infrastructure Extensions (IPPSIX)



- Current (prototype) draft at:
 - <http://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippsix10-20140226.pdf>
- Proposed schedule:
 - Prototype experience and stable draft Q3/Q4 2014
 - WG Last Call Q4 2014



The Printer Working Group

IPP Workgroup Session #2

August 13, 2014

PWG F2F Meeting

Toronto, Ontario

IPP WG Meeting Agenda



August 12, 2014 (Session #1)

When	What
3:15 - 3:30	Status
3:30 - 5:00	IPP Shared Infrastructure Extensions (IPPSIX)

August 13, 2014 (Session #2)

When	What
3:15 - 5:00	IPP Everywhere Self-Certification Status

August 14, 2014 (Session #3)

When	What
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3:00 - 3:15	Break
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4:45 - 5:00	Next Steps

IPP Everywhere Printer Self-Certification



- Current (prototype) draft of IPP Everywhere Self-Certification Manual 1.0:
 - <http://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippeveselfcert10-20140729-rev.pdf>
- Standards track document with tools:
 - Major releases (1.0, 2.0, etc.) will go through PWG Last Call and Formal Approval process
 - Minor releases (1.x, 2.x, etc.) will be errata with PWG Call For Objection process
 - Tools and document will be released together on pwg.org
- Proposed schedule:
 - Prototype experience and stable draft Q4 2014
 - WG Last Call Q4 2014
 - PWG Last Call Q1 2015
 - PWG Formal Vote Q1/Q2 2015
 - IPP Everywhere Printer Self-Certification goes live Q2 2015

IPP Everywhere Printer Self-Certification



- What we have today:
 - Client software in current Linux OS distributions
 - IPP test tool (CUPS ipptool)
 - Bonjour test tool (CUPS ippfind)
 - Test files for ipptool
 - Sample PDF, JPEG, and PWG Raster files for testing
 - Prototype draft of self-certification manual and license agreement
 - IPP Everywhere logo (trademarks filed but not yet issued):



IPP Everywhere Printer Self-Certification



- Next steps:
 - Complete the test tool packages (currently just OS X and Linux)
 - Complete the web pages on pwg.org
 - Get guinea pigs to test the process and tools:





The Printer Working Group

IPP Workgroup Session #3

August 14, 2014

PWG F2F Meeting

Toronto, Ontario

IPP WG Meeting Agenda



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August 13, 2014 (Session #2)

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August 14, 2014 (Session #3)

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IPP Implementor's Guide 2.0

- Current (prototype) draft at:
 - <http://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippig20-2014MMDD-rev.pdf>
- Current issues:
 - Printer URI recommendations (/ipp/print and /ipp/print/queue)
 - Job URI recommendations
- Proposed schedule:
 - Stable draft and WG Last Call Q3/Q4 2014
 - PWG Last Call Q4 2014
 - PWG Formal Vote Q1 2015
- Next steps (after Formal Vote)
 - Extensions for multifunction (FaxOut, Scan, SCS, IPPSIX)?
 - ipptool scripts for Printer scoring?
 - ippserver enhancements for Client scoring?



IPP Job URI Recommendations

- RFC 3510 recommends appending job ID to path, e.g.:
 - `ipp://host.example.com/ipp/print/job123`
 - `ipp://host.example.com/ipp/print/job-123`
 - `ipp://host.example.com/ipp/print/123`
 - *But how to know whether that is a job ID or a queue name?*
- Some printers (and CUPS) use a separate path, e.g.:
 - `ipp://host.example.com/jobs/123`
- What about using a query string instead, e.g.:
 - `ipp://host.example.com/ipp/print?job-id=123`
 - *But RFC 3510 talks about interop issues for "parameters" on URI?*
- Or should we just deprecate "job-uri" entirely?
 - Some historical precedent - even "notify-subscription-uri" was rejected for IPP notifications, so target is always "printer-uri" + "notify-subscription-id".



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Scheduled Break

IPP Scan Service (PWG Last Call Resolutions)



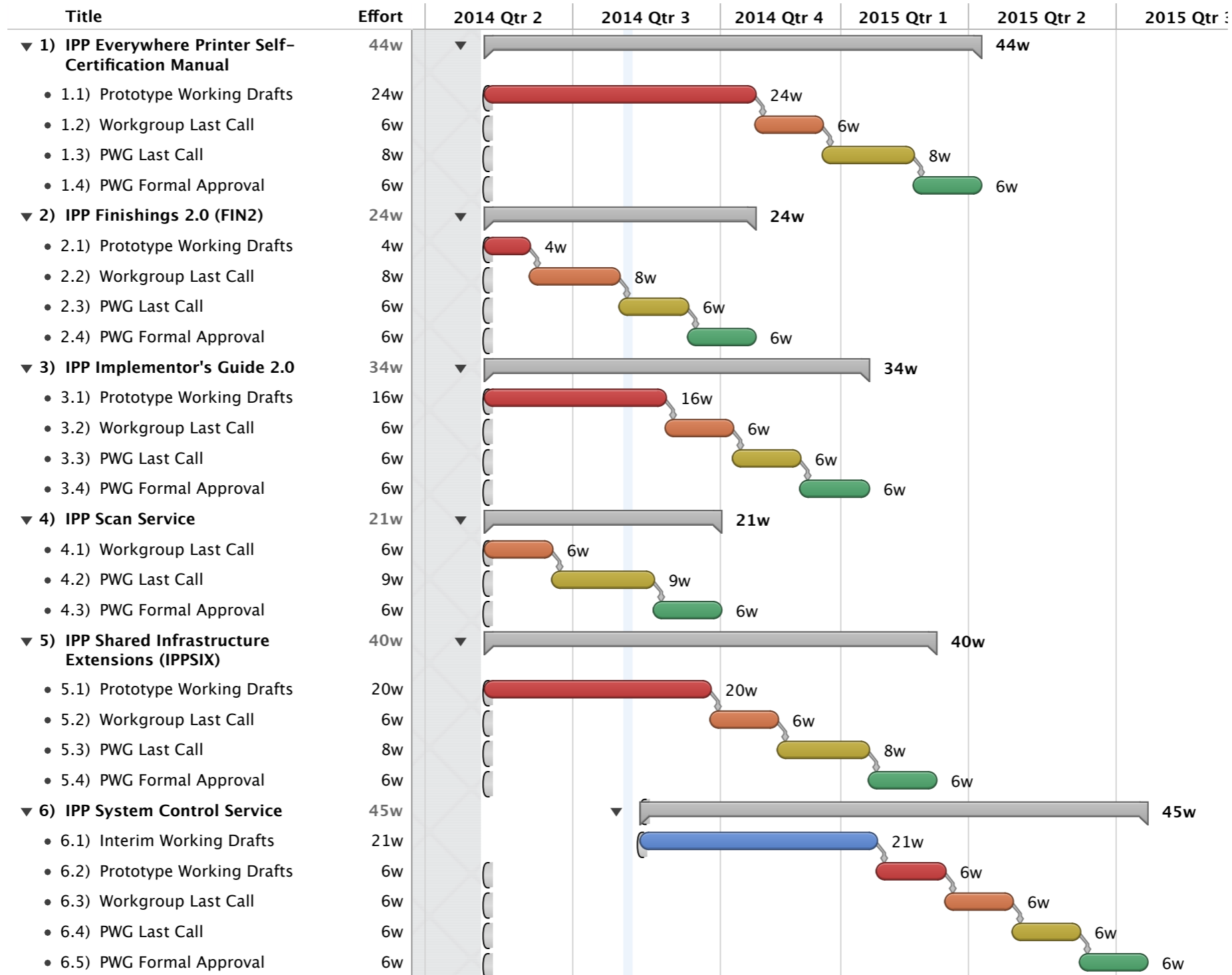
- Current (stable) draft at:
 - <http://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippscan10-20140806.pdf>
- Completed PWG Last Call on July 21, 2014
 - <http://ftp.pwg.org/pub/pwg/ipp/wd/IPPScanComments-20140806.pdf>
 - 12 members responded
 - 12 technical comments
 - 130 editorial comments
- Proposed schedule:
 - Updated stable draft and PWG Formal Vote Q3 2014



The Printer Working Group

Next Steps

IPP WG Next Steps





IPP WG Next Steps

- IPP Everywhere Printer Self-Certification Manual 1.0
 - Prototype experience (testing) and stable draft in Q4 2014
 - WG Last Call in Q4 2014
- IPP Finishings 2.0 (FIN2)
 - Complete PWG Last Call in Q3 2014 (Send your response)
 - PWG Formal Approval in Q3/Q4 2014
- IPP Implementor's Guide 2.0 (IIG2)
 - Prototype experience and stable draft in Q3 2014
 - WG and PWG Last Call in Q3/Q4 2014
- IPP Scan Service
 - PWG Formal Approval in Q3 2014
- IPP Shared Infrastructure Extensions (IPPSIX)
 - Prototype experience and stable draft in Q3 2014
 - WG Last Call in Q4 2014
 - PWG Last Call in Q4 2014/Q1 2015



IPP WG Next Steps

- IPP System Control Service (Mike/Ira)
 - Interim working drafts in Q3/Q4 2014
- Advance IPP/2.0 and/or IPP Everywhere to full IEEE-ISTO standards
 - Advance IPP/1.1 to full IETF standard based on IPP/2.0 interoperability results (IETF might want an updated set of RFCs - fortunately we still have the original sources...)
 - Start this effort Q1/Q2 2015?



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 August 25, 2014 and September 15, 2014 at 3pm ET
 - Held on opposite weeks of Cloud Imaging Model WG
 - Held on same weeks of Imaging Device Security WG