The Printer Working Group

IPP Workgroup Session, Day 1

February 3, 2015

PWG F2F Meeting

El Segundo, CA (hosted by Xerox)

February 3, 2015

When	What
1:00 - 1:30	IPP Workgroup Status, Self-Certification
1:30 - 2:45	IPP Shared Infrastructure Extensions (INFRA)
2:45 - 3:00	Break
3:00 - 5:00	IPP System Service (SYSTEM)

February 4, 2015

When	What
1:00 - 4:45	IPP Implementor's Guide 2.0 (IG)
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 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 Service (SYSTEM), IPP over HTTPS Transport Binding and "ipps" URI Scheme, LDAP Schema for Printer Services
  - Smith Kennedy (HP) - IPP Implementor's Guide 2.0 (IG)

- IETF RFCs in development:
  - IETF IPP over HTTPS Transport Binding and "ipps" URI Scheme
    - IETF + IANA Approved, RFC Editor's Queue
  - IETF LDAP Schema for Printer Services (updates RFC 3712)
    - IETF + IANA Approved, (Mike/Ira Update Needed)

- PWG Specifications in development:
  - IPP Everywhere Printer Self-Certification Manual 1.0 (SELFCERT)
    - Prototype Draft
  - IPP Implementors Guide 2.0 (IG)   - Stable Draft
  - IPP Shared Infrastructure Extensions (INFRA)
    - Stable Draft (In PWG Last Call)
  - IPP System Service (SYSTEM)   - Interim Draft

IPP WG Status (2/2)

- Recent Candidate Standards:
  - PWG 5100.15-2014: IPP FaxOut Service (errata)
  - PWG 5100.17-2014: IPP Scan Service (SCAN)
  - PWG 5100.1-2014: IPP Finishings 2.0 (FIN)
- 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

- Current stable draft:
  - http://ftp.pwg.org/pub/pwg/ipp/wd/wd-ipp-charter-20150126.pdf
- Updates milestones, adds approved errata updates, and adds advancement of IPP/1.1 and IPP/2.0 to full standard status

IPP Everywhere Printer Self-Certification Status

- Current prototype draft and tools:
  - http://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippeveselfcert10-20140826.pdf
  - http://www.pwg.org/ipp/ (for tools)
- Received some beta test feedback (on following slides)
  - ... but no test results submission to beta site
- Proposed schedule:
  - Update document and tools to address feedback and publish stable draft - Q1 2015
  - WG Last Call Q1/Q2 2015
  - PWG Last Call Q2 2015 (to span May 2015 F2F)

- Hostname matching doesn't handle trailing periods, e.g., "myprinter.local" vs. "myprinter.local." (PENDING - CUPS STR #4563)

- 'media-needed' test does not wait long enough for the job to start processing (PENDING)

- Self-signed certificates not working with Windows tools (UNCONFIRMED)

- The Windows binaries are not signed and do not have embedded version information (UNCONFIRMED)

- The MSI is not signed and generates a warning during the install (UNCONFIRMED)

- The batch files assume that ippfind, ipptool, etc are in the Windows PATH but the installer does not add it to the path (UNCONFIRMED)

- The batch files are in unix format making it hard to edit with Notepad (FIXED)
- The first parameter of the batch files is supposed to be the mDNS name of the printer in single quotes, i.e. 'HP Color LaserJet M452dn (3B60AF)' and it tries to write the log to 'HP Bonjour Results.plist with the single quote in the filename (UNCONFIRMED)
- Since the log files and test results aren't where they're supposed to be, the first test fails and the second test hangs (UNCONFIRMED)
- Incorrect check for "job-preferred-attributes-supported" - should be "preferred-attributes-supported" (FIXED)

IPP Shared Infrastructure Extensions (INFRA)

- Current stable draft at:
  - http://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippinfra10-20141118-rev.pdf
- In PWG Last Call until Friday, February 20, 2015
  - http://www.pwg.org/pipermail/pwg-announce/2015/003644.html

- Made it clear that IPP INFRA is a binding of the Cloud Imaging Requirements and Model
- New Deregister-Output-Device operation
- New "document-access" operation attribute for Fetch-Document, Print-URI, and Send-URI requests
- New "job-id" operation attribute for Identify-Printer operation
- New "printer-static-resource-xxx" Printer attributes and HTTP PUT interface for resources like icons, ICC profiles, and strings files

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Break

- Current interim draft at:
  - http://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippsystem10-20141102-rev.pdf
- Proposed Schedule:
  - Prototype draft in Q3/Q4 2015

The Printer Working Group

IPP Workgroup Session, Day 2

February 4, 2015

PWG F2F Meeting

El Segundo, CA (hosted by Xerox)

IPP WG Meeting Agenda, Day 2

February 3, 2015

When	What
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1:00 - 1:30	IPP Workgroup Status, Self-Certification
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2:45 - 3:00	Break
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February 4, 2015

When	What
1:00 - 4:45	IPP Implementor's Guide 2.0 (IG)
4:45 - 5:00	Next Steps

IPP Implementor's Guide 2.0 (IG)

- Current stable draft at:
  - http://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippig20-20150128-rev.pdf
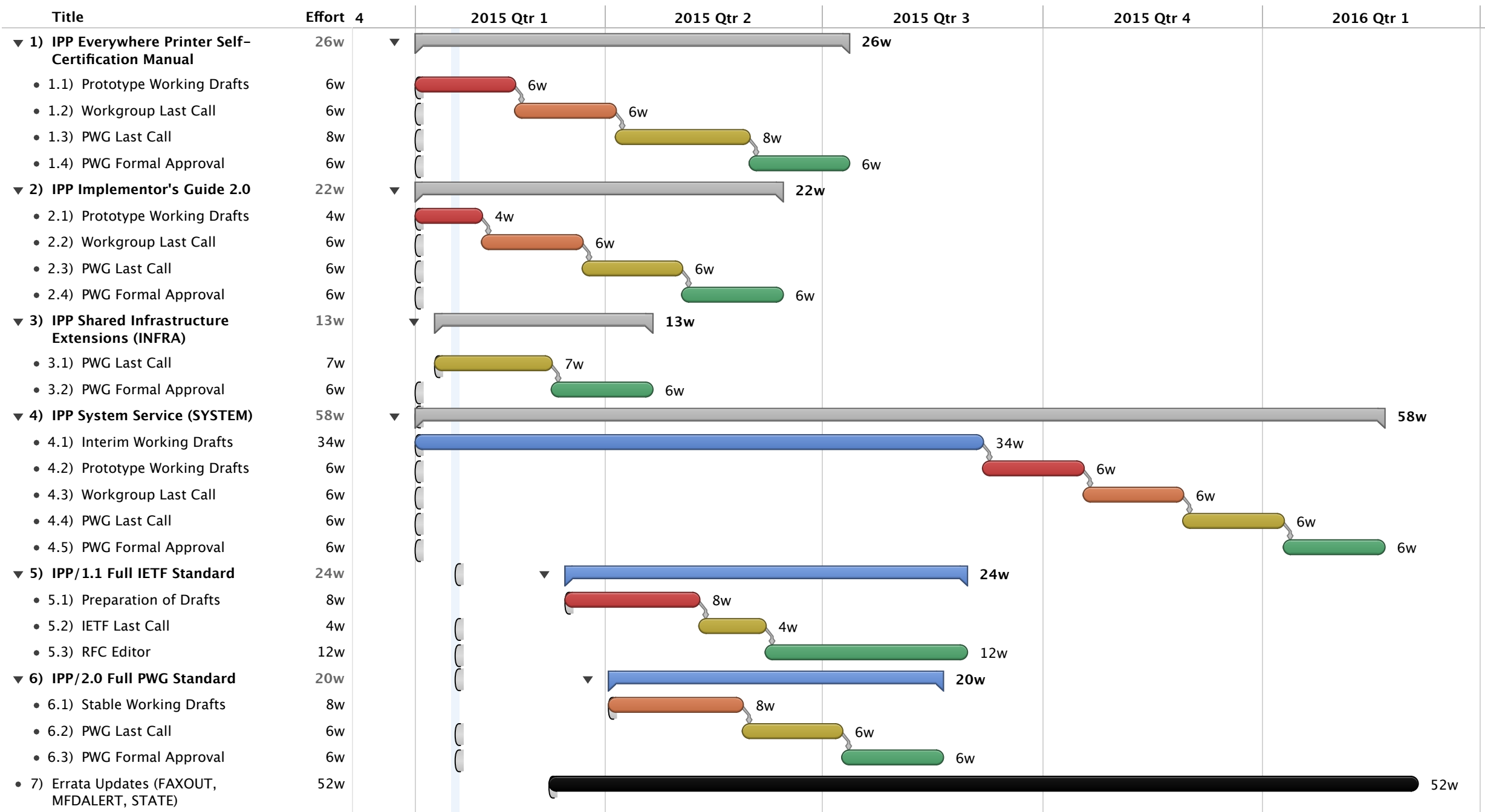- Have prototype experience from Apple
- Proposed schedule:
  - WG Last Call Q1/Q2 2015
  - PWG Last Call Q2 2015 (to span May 2015 F2F)

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Next Steps

IPP WG Next Steps

Title	Effort	4	2015 Qtr 1	2015 Qtr 2	2015 Qtr 3	2015 Qtr 4	2016 Qtr 1
▼ 1) IPP Everywhere Printer Self–Certification Manual	26w			26w			
• 1.1) Prototype Working Drafts	6w		6w				
• 1.2) Workgroup Last Call	6w			6w			
• 1.3) PWG Last Call	8w			8w			
• 1.4) PWG Formal Approval	6w			6w			
▼ 2) IPP Implementor's Guide 2.0	22w			22w			
• 2.1) Prototype Working Drafts	4w		4w				
• 2.2) Workgroup Last Call	6w			6w			
• 2.3) PWG Last Call	6w			6w			
• 2.4) PWG Formal Approval	6w			6w			
▼ 3) IPP Shared Infrastructure Extensions (INFRA)	13w		13w				
• 3.1) PWG Last Call	7w		7w				
• 3.2) PWG Formal Approval	6w			6w			
▼ 4) IPP System Service (SYSTEM)	58w					58w	
• 4.1) Interim Working Drafts	34w		34w				
• 4.2) Prototype Working Drafts	6w				6w		
• 4.3) Workgroup Last Call	6w					6w	
• 4.4) PWG Last Call	6w					6w	
• 4.5) PWG Formal Approval	6w						6w
▼ 5) IPP/1.1 Full IETF Standard	24w			24w			
• 5.1) Preparation of Drafts	8w			8w			
• 5.2) IETF Last Call	4w			4w			
• 5.3) RFC Editor	12w			12w			
▼ 6) IPP/2.0 Full PWG Standard	20w			20w			
• 6.1) Stable Working Drafts	8w			8w			
• 6.2) PWG Last Call	6w			6w			
• 6.3) PWG Formal Approval	6w			6w			
• 7) Errata Updates (FAXOUT, MFDALERT, STATE)	52w						52w

- IPP Everywhere Printer Self-Certification Manual 1.0
  - Stable draft and WG Last Call in Q1/Q2 2015
  - PWG Last Call in Q2 2015
- IPP Implementor's Guide 2.0 (IG)
  - Stable draft and WG Last Call in Q1/Q2 2015
  - PWG Last Call in Q2 2015
- IPP Shared Infrastructure Extensions (INFRA)
  - PWG Formal Vote Q1/Q2 2015
- IPP System Control Service (Mike/Ira)
  - Prototype working draft in Q3/Q4 2015

IPP WG Next Steps (2/2)

- Advance IPP/1.1 to Full IETF Standard
  - IPP/1.1 requires a "fast track" IETF WG - investigating what is involved
  - Prepare stable drafts Q2 2015
  - Target IETF Last Call by September 2015 (15 year anniversary of IPP/1.1)
- Advance IPP/2.0 to Full IEEE Standard
  - IPP/2.0 just needs PWG Last Call and Formal Vote
  - Prepare stable draft Q2 2015
  - Target completion by September 2015 (15 year anniversary of IPP/1.1)

- 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 March 2 and 16, 2015 at 3pm ET
    - Skipping February 16, 2015 due to Canadian holiday
  - Held on opposite weeks of Cloud Imaging Model WG
  - Held on same weeks of Imaging Device Security WG