



# The Printer Working Group

IPP Workgroup Session, Day 1

February 3, 2015

PWG F2F Meeting

El Segundo, CA (hosted by Xerox)



# IPP WG Meeting Agenda, Day 1

## February 3, 2015

When	What
1:00 - 1:15	IPP Workgroup Status
1:15 - 2:15	IPP Shared Infrastructure Extensions (INFRA)
2:15 - 2:30	Break
2:30 - 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)

# IPP WG Status (1/2)



- IETF RFCs in development:
  - IETF IPP over HTTPS Transport Binding and “ipps” URI Scheme
    - IETF Approved, awaiting publication
  - IETF LDAP Schema for Printer Services (updates RFC 3712)
    - IETF Last call completed
- PWG Specifications in development:
  - IPP Everywhere Printer Self-Certification Manual 1.0 (SELFCERT)
    - Prototype Draft
  - IPP Implementors Guide 2.0 (IG)
    - Prototype 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



# IPP Workgroup Charter Update

- Current stable draft:
  - <http://ftp.pwg.org/pub/pwg/ipp/wd/wd-ipp-charter-201501dd.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)
- 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)

# IPP Everywhere Printer Self-Certification Feedback



- 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)



# IPP Everywhere Printer Self-Certification Feedback



- 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 February ??, 2015



# The Printer Working Group

Break

# IPP System Service



- Current interim draft at:
  - <http://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippsystem10-20141102-rev.pdf>
- Proposed Schedule:
  - Prototype draft in Q2 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
1:00 - 1:15	IPP Workgroup Status
1:15 - 2:15	IPP Shared Infrastructure Extensions (INFRA)
2:15 - 2:30	Break
2:30 - 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 Implementor's Guide 2.0 (IG)

- Current prototype draft at:
  - <http://ftp.pwg.org/pub/pwg/ipp/wd/wd-ig-20141113-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)



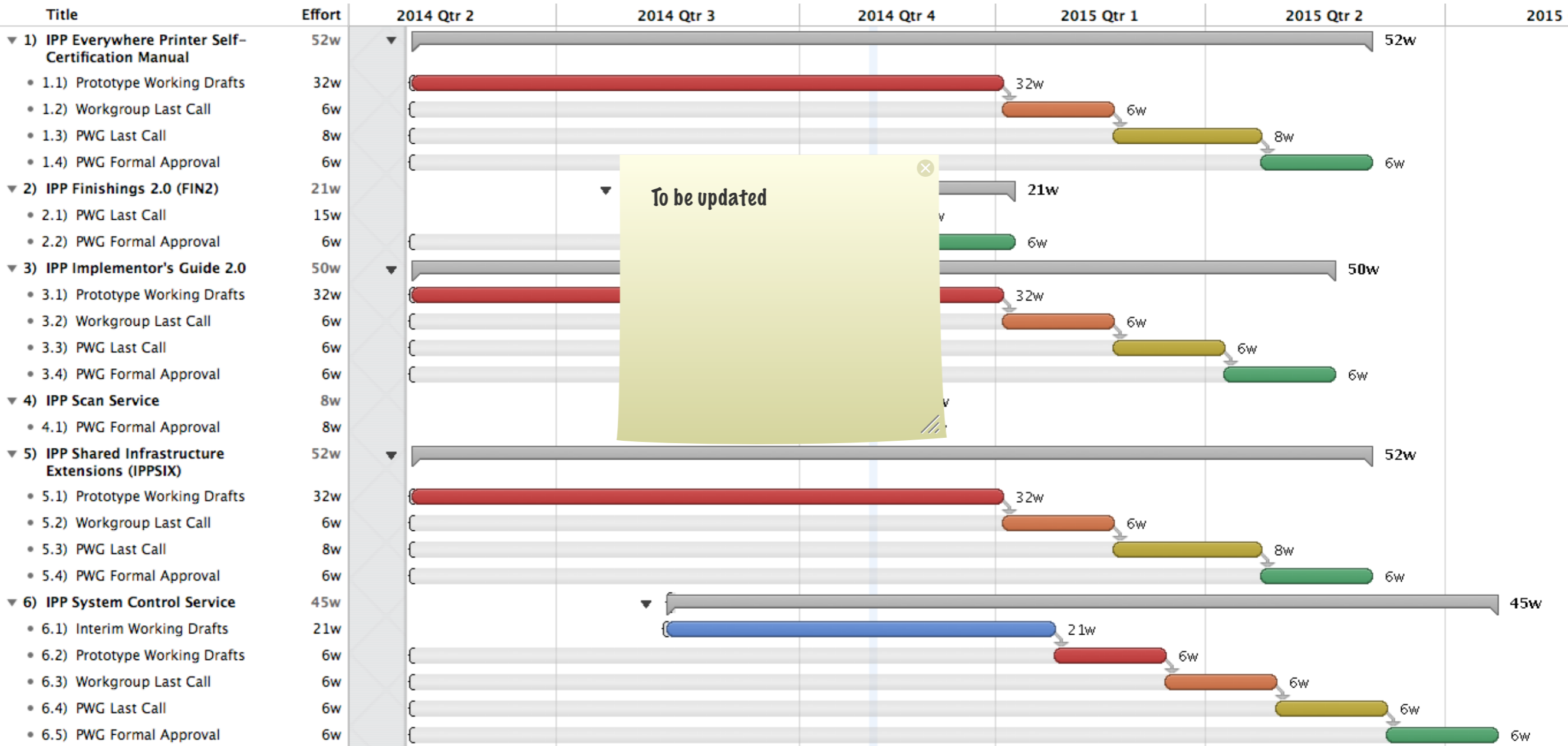
# The Printer Working Group

## Next Steps





# IPP WG Next Steps





# IPP WG Next Steps (1/2)

- **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 Q2 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)
- **IPP Everywhere Multifunction (Mike/Ira)**
  - Initial working draft in Q3 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 February 16 and March 2, 2015 at 3pm ET
  - Held on opposite weeks of Cloud Imaging Model WG
  - Held on same weeks of Imaging Device Security WG