IPP Working Group Session

February 7, 2012

Irvine, CA

PWG F2F Meeting

IPP WG Meeting Agenda

Tuesday, February 7

1:00 - 1:05	Introductions, Minute Taker, Agenda Review
1:05 - 1:15	Current IPP WG status
1:15 - 3:00	IPP Job and Printer Extensions - Set 3 (JPS3)
3:00 - 3:15	Break
3:15 - 4:00	IPP Job and Printer Extensions - Set 3 (JPS3)
4:00 - 5:00	IPP Everywhere 1.0

IPP WG Meeting Agenda

Wednesday, February 8

1:00 - 1:05	Introductions, Minute Taker, Agenda Review
1:05 - 2:00	IPP Everywhere 1.0
2:00 - 3:00	IPP over HTTP Transport Binding and 'ipps' URI Scheme
3:00 - 3:15	Break
3:15 - 4:30	PWG Media Names 2.0
4:30 - 4:45	IPP over USB
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 Version 2.0, IPP Everywhere 1.0, IPP JPS3, IPP Scan, IPP over HTTPS Transport Binding and "ipps" URI Scheme, LDAP Schema for Printer Services, PWG Character Repertoire Supported Registration
  - Michael Sweet (Apple) – IPP Version 2.0, IPP Everywhere 1.0, IPP JPS3, PWG Media Names 2.0, PWG Raster Format, IPP over HTTPS Transport Binding and "ipps" URI Scheme, LDAP Schema for Printer Services, IPP FaxOut Service

IPP WG Status

- Several IPP Everywhere specs in development:
  - IPP Everywhere 1.0 (EVEPRT)
  - IPP: Job and Printer Extensions - Set 3 (JPS3)
  - IETF IPP over HTTPS Transport Binding and "ipps" URI Scheme
  - IETF LDAP Schema for Printer Services (updates RFC 3712)
  - PWG Media Names 2.0 (MSN2)
  - PWG Raster Format (**PWG Last Call**)
  - IPP Scan Service
  - IPP FaxOut Service
- Up-to-date pending IANA registrations online:
  - http://www.pwg.org/ipp/ipp-registrations.xml (+ .txt)
  - Will maintain this in parallel for new specifications
  - Also have some MIB registrations pending
- Need minor charter update for MSN2 and title tweaks

IPP Interoperability Event

- During the August 2011 F2F we decided the IPP/2.0 interoperability event will be virtual using the CUPS ipptool program and conformance test files

- February 2012 release of ipptool covers:
  - All required operations and attributes for IPP/2.0
  - Partial coverage of operations and attributes for IPP/2.1
  - Basic testing for existence of IPP/2.2 operations and attributes

- Future update to include tests for undefined attribute and group tags, plus additions to IPP/2.1 and IPP/2.2 tests

- Test results to be sent to Mike Sweet (msweet@apple.com) for presentation at future F2F's
  - Preliminary results for April 2012 F2F
  - "Final" results for June 2012 F2F

IPP Interoperability Event

- Thus far I have not received testing results from any vendor

- I have feedback from three members:
  - One member had issues with the ipptool binaries not working on Windows XP (fixed in February 2012 release)
  - One member had issues with the ipptool binaries not working on a Windows Vista system (appears to be a system issue)
  - All three are able to run the tool but have not yet supplied the results of testing

- We need testing results to make this event a success

- We want results from printers regardless of their level of conformance
  - Important to understand where the issues are!
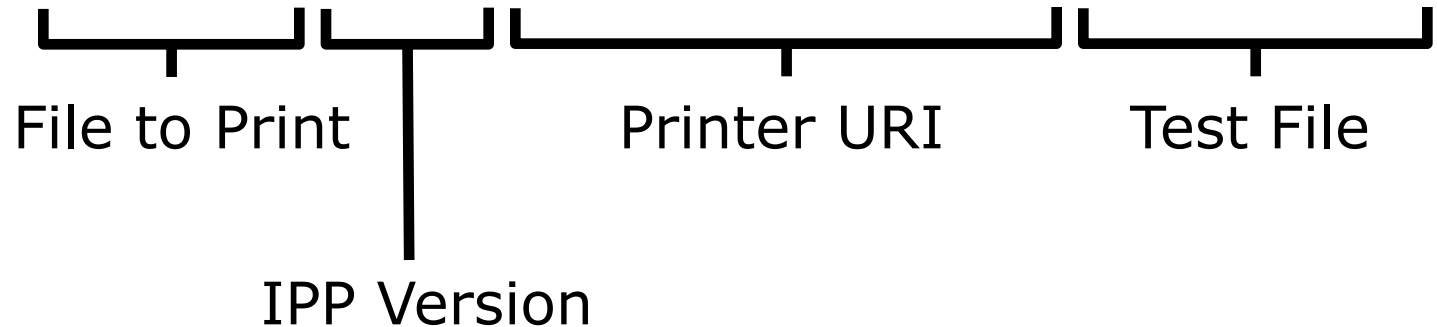 - Results will be collated and reported anonymously!

Where to Get CUPS ipptool

- http://www.cups.org/software.php
- Binaries available for Linux, Mac OS X, and Windows
- See the file "IPPTOOL.txt" for instructions on running the conformance tests
- Additional documentation in man-ipptool.html and man-ipptoolfile.html

How to Use ipptool

ipptool -It*f file.ext* -V 2.x *ipp://address/path* ipp-2.x.test

File to Print

IPP Version

Printer URI

Test File

Example for IPP/2.0 printer with PDF support:

```
ipptool -Itf testfile.pdf -V 2.0 ipp://192.168.0.1/ipp \
    ipp-2.0.test | tee make-model-2.0-results.log
```

How to Send ipptool Results

- Send an email to "msweet@apple.com"
- Subject: IPP/<version> Test Results-<company name>-<last name>-<Pass/Fail>
- Attach the output from ipptool to the email
- Include any comments you like
- Example:

  To: msweet@apple.com
  Subject: IPP/2.0 Test Results-Acme-Doe-Pass

  Found no issues with our implementation.

  <acme-uberprinter-2.0-results.log>

IPP Job and Printer Extensions - Set 3 (JPS3)

- Current (interim) draft at:
  - ftp://ftp.pwg.org/pub/pwg/ipp/wd/wd-jobprinterext3v10-20120131-rev.pdf
- Major Changes/Issues:
  - Changed from "xxx-preferred" to "preferred-attributes (collection)"
  - OpenICC feedback - added "profile-name" Job/Document Template and member attribute, explained how new profiles and media types are "registered" using Set-Printer-Attributes
  - Identified READ-ONLY attributes
  - Added named features to terminology and use the names
  - Added Validate-Document operation
  - Added job-error-action Job Template attribute
  - Added printer-input-tray/output-tray Printer attributes

IPP Job and Printer Extensions - Set 3 (JPS3 - con't)

- Major Changes/Issues (con't):
  - Added discussion of using HTTP If-Modified-Since header with ICC profiles, icons, localization files
  - Profiles, icons, and localization files now SHOULD be Printer-resident

- Proposed Schedule:
  - Prototype draft and WG Last Call during March 2012
  - Stable draft and PWG Last Call to span April 2012 F2F
  - PWG Formal Vote starting in May 2012

IPP Everywhere 1.0

- Current (interim) draft at:
  - ftp://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippeve10-20120201-rev.pdf

- Major Changes/Issues:
  - LDAP updates and conformance requirements
  - Device ID discussions; key/value priority, etc.
  - HTTP conformance requirements (If-Modified-Since)
  - Sync up with JPS3
  - WS-Discovery: What to do/add (if anything?)

- Proposed Schedule:
  - Prototype draft and WG Last Call during March 2012
  - Stable draft and PWG Last Call to span April 2012 F2F
  - PWG Formal Vote starting in May 2012

IPP Working Group Session

February 8, 2011

Irvine, CA

PWG F2F Meeting

14

IPP WG Meeting Agenda

Wednesday, February 8

1:00 - 1:05	Introductions, Minute Taker, Agenda Review
1:05 - 2:00	IPP Everywhere 1.0
2:00 - 3:00	IPP over HTTP Transport Binding and 'ipps' URI Scheme
3:00 - 3:15	Break
3:15 - 4:30	PWG Media Names 2.0
4:30 - 4:45	IPP over USB
4:45 - 5:00	Next Steps

IPP over HTTPS Transport Binding and "ipps" URI Scheme

- Current draft:
  - ftp://ftp.pwg.org/pub/pwg/ipp/wd/draft-mcdonald-ipps-uri-scheme-03-20111122.pdf

- Major Changes/Issues:
  - Mostly editorial changes from IETF and IPP WG reviews
  - Added references to HTTP POST and RFC 2910
  - Added explanation of why numeric addresses should not be used for IPPS

- Proposed Schedule:
  - April 2012 for IESG Last Call
  - June 2012 to RFC Editor's queue (awaiting publication)

PWG Media Names 2.0

- ## Current (interim) draft:
  - ftp://ftp.pwg.org/pub/pwg/ipp/wd/wd-pwgmsn20-20120201-rev.pdf

- ## Major Changes/Issues:
  - Imported "choice_" syntax from PWG 5100.7
  - Added various media coating, color, grain, size, source, tooth, and type names discussed in last review

- ## Proposed Schedule:
  - Prototype draft and WG Last Call during March 2012
  - Stable draft and PWG Last Call to span April 2012 F2F
  - PWG Formal Vote starting in May 2012

USB IF - IPP over USB WG

- The IPP over USB project has been approved by the USB Forum Board

  - Also covers HTTP over USB

- Working group formation is in process

  - You must sign an IP agreement to join the WG

- Several vendors have signed

  - Still want more printer vendors to sign the IP agreement and join the WG

IPP WG Next Steps

- IPP 2.0/2.1/2.2 Interoperability Testing
  - Virtual interoperability event through June 2012 F2F
- IPP Everywhere 1.0
  - Finish prototype draft specifications in Q1/Q2 2012
  - Last Call and Formal Vote Q1/Q2 2012
  - Interoperability event for IPP Everywhere 1.0 in Q3/Q4 2012
- IPP Everywhere 2.0
  - Interim working drafts of IPP Scan Service and IPP FaxOut Service in Q3/Q4 2012

IPP WG Info / Participation

- We welcome participation from all interested parties
- IPP Working Group web page
  - http://www.pwg.org/ipp/index.html
- IPP Working Group wiki
  - http://pwg-wiki.wikispaces.com/IPP
- Subscribe to the IPP mailing list
  - http://www.pwg.org/mailhelp.html
- IPP WG holds bi-weekly phone conferences announced on the IPP mailing list
  - Next conference call is February 27, 2012 at 1pm (EST)