# IPP Working Group Session

August 3, 2011

Camas, WA

PWG F2F Meeting

# IPP WG Meeting Agenda

## Wednesday, August 3

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|---|---|
| 9:00 - 9:10 | Introductions, Minute Taker, Agenda Review |
| 9:10 - 9:30 | Current IPP WG status |
| 9:30 - 10:30 | PWG Media Standardized Names 2nd Edition |
| 10:30 - 10:45 | Break |
| 10:45 - 12:00 | PWG Raster |
| 12:00 - 1:15 | Lunch |
| 1:15 - 3:00 | IPP Job and Printer Extensions - Set 3 (JPS3) |
| 3:00 - 3:15 | Break |
| 3:15 - 4:45 | IPP Everywhere |
| 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, IPP JPS3, IPP Scan, IPP over HTTPS Transport Binding and "ipps" URI Scheme, LDAP Schema for Printer Services
  - Michael Sweet (Apple) – IPP Version 2.0, IPP Everywhere, IPP JPS3, PWG Media Standardized Names, PWG Raster, IPP over HTTPS Transport Binding and "ipps" URI Scheme, LDAP Schema for Printer Services

# IPP WG Status

- Several IPP Everywhere specs in development:
  - IPP Everywhere First Edition (EVEPRT)
  - IPP: Job and Printer Extensions - Set 3 (JPS3)
  - IPP over HTTPS Transport Binding and "ipps" URI Scheme
  - PWG Media Standardized Names 2nd Edition
  - PWG Raster
  - IPP Scan

- Up-to-date pending IANA registrations online:
  - http://www.pwg.org/ipp/ipp-registrations.html (+ .txt)
  - Will maintain this in parallel due to IANA processing time
    - Hope to have current registrations processed soon

# CUPS ipptool

- http://www.cups.org/software.php
- IPP/1.1, IPP/2.0, and IPP/2.1 conformance tests
  - Working on IPP/2.2 conformance test
- Binaries available for Linux, Mac OS X, and Windows
- Thousands of downloads
- New release coming soon:
  - Validate-Job tests
  - Tests for PWG 5100.x specifications
  - Tests for optional IPP/1.1, 2.0, and 2.2 bits
  - IPP/2.2 conformance test

# CUPS ippserver

- Sample IPP/2.0 conforming server implementation
  - Current implementation saves jobs to a directory/folder
  - Also provides Bonjour service registration and simple HTTP status page
  - Ultimate goal is to provide as part of CUPS library and have it abstract away the basic semantic model data and behaviors with entry points that actually do the work (print, cancel, etc.)
  - LGPL2
- Part of the CUPS 1.5.0 release at:
  - http://www.cups.org/software.php

# PWG Media Standardized Names 2nd Edition

- Current draft:
  - ftp://ftp.pwg.org/pub/pwg/ipp/wd/wd-msn20-201107dd.pdf
- Updates 5101.1:
  - IANA registration information
  - Normalization with 5100.3 and ISO DPA media type and color names
  - Addition of some photo and architectural sizes and a few media types missing from the original
  - Addition of media source keywords (since many legacy names are sources)
  - New recommendation for vendor media type and color values (com.vendor prefix) instead of using "custom_" prefix

# PWG Raster Format

- Current draft:
  - ftp://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippraster10-201107dd.pdf
- Abstract: This standard defines a simple raster format for printing, scanning, and facsimile. The format includes support for a small set of standard and device color spaces and bit depths and defines PWG semantic model elements (and corresponding IPP attributes) that enable a Client to generate or request a supported raster stream.

# PWG Raster Format

- Samples files at:
  - ftp://ftp.pwg.org/pub/pwg/ipp/raster/pwg-raster-samples-300dpi-201107dd.zip
  - ftp://ftp.pwg.org/pub/pwg/ipp/raster/pwg-raster-samples-360dpi-201107dd.zip

- 300dpi/360dpi files for black-1, cmyk-8, sgray-8, srgb-8, and srgb-16

- Representative documents for email, line art, maps, photos, and web pages

# PWG Raster Format

- Viewer program (Windows/Mac/Linux) at:
  - http://www.easysw.com/~mike/rasterview/
  - Version 1.3 includes support for PWG Raster

# IPP: Job and Printer Extensions - Set 3 (JPS3)

- Current draft at:
  - ftp://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippjobprinterext10v3-201107dd-rev.pdf
- Abstract: Printing on new operating systems, distributed computing systems, and mobile devices emphasizes the challenges of generating document data, discovering available Printers, and communicating that document data to a Printer. This specification adds additional attributes and operations to IPP to better support generic, vendor-neutral implementations of printing in these environments.

# JPS3
# Known Issues

- Localization
  - Do we want to tackle it?
  - Came up in the April 2011 Open Printing F2F meeting
- Still have the final use cases and design requirements to fill in for section 3

# IPP Everywhere

- Current draft at:
  - ftp://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippeve10-201107dd-rev.pdf
- Abstract:
  - This standard defines a superset of IPP/2.0 to support network printing without vendor-specific driver software, including the transport (IPP/2.0), various discovery and directory service protocols, and standard document formats.

# IPP WG Next Steps

- IPP 2.0/2.1/2.2 Interoperability Testing
  - Interoperability event in Q3/Q4 2011
- IPP Everywhere First Edition
  - Initial working draft of updated LDAP Schema for Printer Services in Q3 2011
  - Prototype draft specifications in Q3/Q4 2011
  - Interoperability event for IPP Everywhere First Edition in Q2 2012
- IPP Everywhere Second Edition
  - Interim working draft of IPP Scan in Q4 2011

# 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 August 22, 2011 at 1pm (EST)