IPP Working Group Session

10 February 2010

Scottsdale, AZ - PWG F2F Meeting

IPP WG Meeting Agenda

3:45-4:00	Introductions, Minute Taker, Agenda Review
4:00-4:15	Current IPP WG status
4:15-4:45	Discuss IPP/2.0 Second Edition
4:45-5:00	Action Items and Next Steps

IPP WG Officers

- IPP WG Chair:
  - Paul Tykodi (TCS)
- IPP WG Secretary:
  - Michael Sweet (Apple)
- IPP WG Document Editors:
  - Tom Hastings (formerly Xerox) – IPP JPS2
  - Ira McDonald (High North) – IPP Version 2.0
  - Mike Sweet (Apple) – IPP Version 2.0

IPP WG Current Status

- IPP Version 2.0 First Edition
  - PWG Candidate Standard – defines IPP/2.0 and IPP/2.1
  - ftp://ftp.pwg.org/pub/pwg/candidates/cs-ipp20-20090731-5100.10.pdf

- IPP Printer State Extensions (PSX)
  - PWG Candidate Standard – IPP Printer/Finisher alerts
  - ftp://ftp.pwg.org/pub/pwg/candidates/cs-ippstate10-20090731-5100.9.pdf

IPP WG Current Status

- IPP Job and Printer Operations Set2 (JPS2)
  - WG call for prototype experience
  - Resubmit-Job, Cancel-Jobs, Cancel-My-Jobs, job save, proof print, etc.
  - ftp://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippjobprinterext10-v17-20100125-rev.pdf

- IPP Version 2.0 Project Charter
  - PWG SC Approved – adds IPP Job and Printer Operations Set2
  - ftp://ftp.pwg.org/pub/pwg/ipp/charter/ch-ippv2-20090819.pdf

- IPP/2.0 Second Edition
  - Initial draft posted
  - ftp://ftp.pwg.org/pub/pwg/ipp/wd/wd-ipp20-20100126-rev.pdf

IPP JPS2 Additions from MFD?

- Close-Job operation
  - Allows jobs to be "closed" after a Send-Document or Send-URI with last-document=false
- job-delay-output-until (type3 keyword) and job-delay-output-until-time (dateTime)
  - Similar to job-hold-until and job-hold-until-time, but allows the device to prepare the job but delay actual output
- Required or optional?

IPP JPS2 Prototyping

- Currently only have response from Apple:
  - Intend to implement in a product all required operations and attributes plus the optional job-hold-until-time job template attribute.

CUPS ipptest Tool

- http://www.cups.org/software.php
- IPP/1.1, IPP/2.0, and IPP/2.1 conformance tests
- Binaries available for Linux, Mac OS X, and Windows
- Simple text-based test files:

```
{
  NAME "Name of test"
  OPERATION Get-Printer-Attributes
  GROUP operation-attributes-tag
  ATTR charset attributes-charset "utf-8"
  ATTR naturalLanguage attributes-natural-language "en"
  ATTR uri printer-uri "$uri"
  STATUS successful-ok
  EXPECT printer-uri-supported OF-TYPE uri
}
```

IPP/2.0 Second Edition

- Added back all required sections and tables for IPP/2.2 conformance level from 18 November 2008 draft of IPP/2.0 First Edition

- Restart-Job, Purge-Jobs, and Delete-Document now OPTIONAL and DEPRECATED because they destroy accounting information

- Activate-Printer and Deactivate-Printer now OPTIONAL since they are redundant compound operations and are not widely implemented

- Cancel-Jobs, Cancel-My-Jobs, and Resubmit-Job from IPP JPS2 added as REQUIRED

IPP/2.0 Second Edition

- "output-bin-default" and "output-bin-supported" added as REQUIRED (missing in First Edition, "output-bin" was already REQUIRED)
- "printer-device-id" added as REQUIRED
- IPP JPS2 REQUIRED attributes added to IPP/2.2

IPP WG Next Steps

- IPP Job and Printer Operations Set2 (JPS2)
  - Get prototype experience
  - PWG Last Call in Q1 2010 (w/IPP Version 2.0 2nd Ed)
- IPP Version 2.0 Second Edition
  - Review and update drafts
  - PWG Last Call in Q1 2010 (w/JPS2)
- IPP 2.0/2.1/2.2 Interoperability Testing
  - Interoperability event in Q2/Q3 2010
- IPP Everywhere?

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