

IPP Working Group Session

February 7, 2013

PWG F2F Meeting

El Segundo, CA

IPP WG Meeting Agenda



Thursday, February 7

9:00 - 9:05	Introductions, Minute Taker, Agenda Review
9:05 - 9:15	Current IPP WG status
9:15 - 10:15	IPP FaxOut Service
10:15 - 10:30	Break
10:30 - 11:45	IPP Everywhere Self-Certification IPP Best Practices (if time allows)
11:45 - 12:00	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 Scan Service, IPP Shared Infrastructure Extensions (IPPSIX), IPP over HTTPS Transport Binding and “ipps” URI Scheme, LDAP Schema for Printer Services
 - Michael Sweet (Apple) – PWG Media Standardized Names 2.0, IPP Shared Infrastructure Extensions (IPPSIX), IPP over HTTPS Transport Binding and “ipps” URI Scheme, LDAP Schema for Printer Services, IPP FaxOut Service
 - Smith Kennedy (HP) - IPP Best Practices

IPP WG Status



- IPP Everywhere specs in development:
 - IETF IPP over HTTPS Transport Binding and "ipps" URI Scheme
 - IETF LDAP Schema for Printer Services (updates RFC 3712)
 - PWG Media Standardized Names 2.0 (MSN2 - PWG Formal Vote soon)
- IPP Multifunction specs in development:
 - IPP Scan Service
 - IPP FaxOut Service
- IPP Cloud binding specs in development:
 - IPP Shared Infrastructure Extensions (IPPSIX)
(Preliminary draft in development)
- IPP Best Practices
 - Whitepaper/possible best practices document

IPP WG Status



- Candidate Standards:
 - PWG 5100.14-2013 - IPP Everywhere
 - PWG 5100.13-2012 - IPP: Job and Printer Extensions - Set 3 (JPS3)
 - PWG 5102.4-2012 - PWG Raster Format
- Up-to-date pending IANA registrations online:
 - <http://www.pwg.org/ipp/ipp-registrations.xml>
 - Registrations for IPP Everywhere have been submitted
 - Continue to maintain this in parallel for new specifications
 - PWG version includes draft specifications that have reached prototype status

IPP Everywhere Interoperability



- January 2013 ipptool release includes a preliminary IPP Everywhere test suite
 - <http://www.cups.org/software.php>
 - Have one reported test error issue, will be doing another release shortly for February 2013
- Sample PWG Raster data available on PWG FTP server:
 - <ftp://ftp.pwg.org/pub/pwg/ipp/examples/>
- To run the test suite:
 - Download and extract the PWG Raster sample files
 - Run "ipptool -XV 2.0 *printer-uri* ipp-everywhere.test >results.plist"
- Send reports to:
 - Michael Sweet (msweet@apple.com)
- Schedule:
 - Preliminary anonymous results at August 2013 F2F?
 - Final anonymous results at October 2013 F2F?

Document Editors Needed

- As we complete our work on IPP Everywhere, we need to identify editors for the IPP Multifunction specifications
- Need a new lead editor for IPP Scan Service
- Additional multifunction services need to be addressed: System Control, FaxIn, Copy, Transform
 - These should be straight-forward since they are essentially binding specs that reference the corresponding Semantic Model specs
 - See FaxOut as an example
- IPP Multifunction spec will likely be an update of IPP Everywhere with pointers to the corresponding service specifications

IPP FaxOut Service



- Current (interim) draft:
 - <ftp://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippfaxout10-20130122.pdf>
- Known issues:
 - Need to decide disposition of partially-completed jobs
 - Need guidance on SM operation mapping
 - Send-Hardcopy-Document operation conformance requirements and support for things like duplex
 - Security considerations need work
- Proposed schedule:
 - Prototype draft Q1 2013
 - Stable draft, WG Last Call Q1 2013

IPP Everywhere Self-Certification



- This topic has come up in multiple meetings
- Consensus thus far has been to potentially define a PWG-endorsed self-certification process for IPP Everywhere Printers
 - Each vendor can perform the self-certification process or contract it out as desired
 - Passing self-certification would grant the right to use a logo or term
 - Primary purpose is marketing
 - Self-certification of IPP Everywhere Clients is currently out-of-scope (though technically feasible, e.g. w/CUPS ippserver)
- What we have today:
 - IPP test tool (CUPS ipptool)
 - Test files for ipptool
 - Sample PDF, JPEG, and PWG Raster files for testing

IPP Everywhere Self-Certification



- What we need:
 - Client software to drive adoption
 - Bonjour and WS-Discovery test tools
 - Enhancements to the IPP test tool (hostname/port validation)
 - More test files to test media-ready, printer-state-reasons, printer-supply, etc.
 - Test Process/User Guide document
 - "How to self-certify your printer"
 - Logo/wording for vendors that have passed self-certification
- Nice to have:
 - GUI that automates self-certification
 - Self-certification report (record of conformance)
 - LDAP/SLP/SSDP test tools

IPP Everywhere Self-Certification



- Questions:
 - Who will develop/is developing the Client software?
 - Who will develop the tools and test process document?
 - Volunteers?
 - Who will develop the certification logo/wording?
 - Do we register self-certification results?
 - If so, who manages the registry?
 - Are the results public, private, somewhere in-between like a list of certified products but not the detailed results?
 - Do we need an exception process (for failed tests)?
 - Can the PWG apply for trademark protection on the logo or wording we use?
 - If so, who would be the legal entity that owns the mark? (PWG, ISTO, IEEE?)
 - How do we police the use of the logo/wording?

IPP Best Practices



- Current draft at:
 - <ftp://ftp.pwg.org/pub/pwg/ipp/whitepaper/tb-ipp-best-practices-20130205.pdf>
- Discussions during development of IPP Everywhere have exposed gaps in IPP/1.1 Implementer's Guide (RFC 3196)
 - Very little discussion of the client side of implementation
 - No discussion of newer operations or attributes
 - No discussion of best practices (when to use Validate-Job, Get-Printer-Attributes, etc.)
- Don't really want to try updating RFC 3196 in IETF
 - So do a PWG Best Practices document instead?

IPP WG Next Steps



- IPP Everywhere
 - Virtual interoperability event for IPP Everywhere through October 2013 F2F
- IPP Multifunction
 - Stable draft of IPP FaxOut Service in Q1 2013
 - Initial working drafts of System Control Service and other specifications starting in Q1/Q2 2013
 - Interim working draft of IPP Scan Service in Q1/Q2 2013
- IPP Shared Infrastructure Extensions
 - Initial working draft in Q1/Q2 2013
- Continue working on IPP Everywhere Self-Certification
 - Initial working draft in Q2 2013
- Continue working on IPP Best Practices
 - Interim working draft in Q1/Q2 2013

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 25, 2013 at 3pm ET