Printer Working Group Plenary Session

May 14, 2013

PWG F2F Meeting

Cupertino, CA

Michael Sweet (Apple)

Plenary Agenda

- Administrivia
- Open Issues
- PWG Working Group Status [WG Chairs]
  - Semantic Model (MFD)
  - IPP
  - IDS (Imaging Device Security)
  - Cloud Imaging Model
- Liaison Status
  - AFP Consortium
  - BBF - CWMP
  - TCG
- Next Meeting Details

Administrivia

- Welcome and Introductions
- Confirm Minutes Taker
- Approve/Modify Agenda
- Approve Previous Plenary Minutes
- Review PWG Patent Policy
- Agenda for the Week
- Future PWG Meeting Schedule
- 2013 Membership
- PWG Officers

PWG Patent Statement

- PWG standards may include the known use of essential patents and patent applications provided the PWG Chair receives assurance from the patent holder or applicant with respect to patents whose infringement is, or in the case of patent applications, potential future infringement the applicant asserts will be, unavoidable in a compliant implementation of either mandatory or optional portions of the standard. This assurance shall be provided without coercion.

PWG Patent Statement

- This assurance shall be either:

    a) A general disclaimer to the effect that the patentee will not enforce any of its present or future patent(s) whose use would be required to implement either mandatory or optional portions of the proposed PWG standard against any person or entity complying with the standard; or

    b) A statement that a license for such implementation will be made available without compensation or under reasonable rates, with reasonable terms and conditions that are demonstrably free of any unfair discrimination.

PWG Patent Statement

- The PWG is not in a position to give authoritative or comprehensive information about evidence, validity or scope of patents or similar rights, but it is desirable that any available information should be disclosed. Therefore, all PWG members shall, from the outset, draw PWG's attention to any relevant patents either their own or of other organizations including their Affiliates that are known to the PWG members or any of their Affiliates, although PWG is unable to verify the validity of any such information.

Inappropriate Topics for PWG WG Meetings

- Don't discuss the validity/essentiality of patents/ patent claims
- Don't discuss the cost of specific patent use
- Don't discuss licensing terms or conditions
- Don't discuss product pricing, territorial restrictions, or market share
- Don't discuss ongoing litigation or threatened litigation
  - Don't be silent if inappropriate topics are discussed
  - …do formally object.

Agenda for the Week

- Tuesday, May 14
    - 9:00 - 10:00   PWG Plenary
    - 10:15 - 12:00   OpenPrinting - Plenary
    - 12:00 - 1:00   Lunch
    - 1:00 - 2:00   CUPS Plenary
    - 2:15 - 5:00   OpenPrinting - Print Clients
- Wednesday, May 15
    - 9:00 - 12:00   Cloud Imaging Model
    - 12:00 - 1:00   Lunch
    - 1:00 - 5:00   OpenPrinting - Color Management, Future Development, and Other Topics

Agenda for the Week

- **Thursday, May 16**
  - 9:00 - 12:00   IPP - Shared Infrastructure Extensions
  - 12:00 - 1:00   Lunch
  - 1:00 - 5:00   Semantic Model - Mapping, SM 2.0, Transform
- **Friday, May 17**
  - 9:00 - 12:00   IPP - Self-Certification, Best Practices
  - 12:00 - 1:00   Lunch
  - 1:00 - 5:00   IDS

2013 PWG Meetings

- August 6-8   Camas, WA (hosted by Sharp)
- October 22-24   Cupertino, CA (hosted by Ricoh)

Planning for 2014 meetings is now in progress. Please let the PWG Chair know if you would like to host a meeting in February, May, August, or October 2014.

2013 Membership

33 Members

Apple	High North	Northlake
Brother Industries	Hewlett Packard	Oki Data
Canon	Intel	QualityLogic, Inc.
CSR	Konica Minolta	Ricoh
Danny Brennan	Kyocera Mita	Samsung
Daniel Dressler (N-V)	Lexmark	Sharp Labs
Dell	Meteor Network	Technical Interface Consulting (N-V)
Digital Imaging Technologies	Microsoft	Thinxtream Technologies
Epson	MPI Tech	Toshiba America Business Solutions
Fenestrae B.V.	MWA Intelligence	Tykodi Consulting Services LLC
Fuji Xerox	Nancy Chen	Xerox

PWG Officers (2011-2013 Term)

- PWG Chair
  - Michael Sweet, Apple

- PWG Vice-Chair
  - Nancy Chen

- PWG Secretary
  - Ira McDonald, High North

- Accepting candidates at the August 2013 F2F
- Will announce results of vote at the October 2013 F2F

Open Issues

- Semantic Model (SM) WG needs a secretary
- New logos
- PWG server transition and upgrade

New Logos

- PR Works has developed and the Steering Committee has approved new logos for the PWG and IPP Everywhere that will be used for future marketing:

PWG Server Transition

- Lexmark will no longer be able to host pwg.org
- We have purchased a Virtual Private System (VPS) through Linode.com to setup a new Linux-based server for pwg.org
- Mike is getting everything copied from the existing Lexmark server to the new VPS
- Mike will coordinate domain switchover once the new VPS is ready
- Daniel Dressler has volunteered to do a web site upgrade to a content management system like Wordpress

PWG Server Upgrade

- Daniel Dressler has volunteered to upgrade pwg.org to use a content management system like Wordpress
  - This will allow for easy web page updates without the confusion/maintenance overhead of a full Wiki
  - It will also allow us to post blog articles, polls/surveys, and other timely information on pwg.org without hand-editing a bunch of HTML files
  - Lays the framework for web-based registration of IPP Everywhere Self-Certification results, reporting of errata/issues in specifications, etc.

- Mike will also setup email aliases (chair@pwg.org, etc.) to the PWG and working group officers

PWG Working Group Status

Semantic Model Working Group Status

May 14, 2013

PWG F2F Meeting

Cupertino, CA

Daniel Manchala (Xerox)

Purpose of the effort

- The Semantic Model working group is concerned with the modeling of imaging services and subunits that comprise a network connected Multifunction Device. The Objectives are:
    - The definition of a framework for the complete MFD model.
    - Drive to a standard semantic definition for an MFD's Subunits, Services, Jobs and Documents.
        - Agreement on the semantics of their attributes, operations and parameters.

Approved Documents:

- Print Service: Approved January 2004
  - PWG 5105.1: PWG Semantic Model Specification Version 1.00
  - ftp://ftp.pwg.org/pub/pwg/candidates/cs-sm10-20040120-5105.1.pdf

- Scan Service: Approved April 2009
  - PWG 5108.02-2009: Network Scan Service Semantic Model and Service Interface Version 1.0
  - ftp://ftp.pwg.org/pub/pwg/candidates/cs-sm20-scan10-20090410-5108.02.pdf

- Resource Service: Approved July 2009
  - PWG 5108.03-2009: Network Resource Service Semantic Model and Service Interface Version 1.0
  - ftp://ftp.pwg.org/pub/pwg/candidates/cs-sm20-resource10-20090703-5108.03.pdf

Approved Documents:

- **MFD Common Semantics: Approved April 2011**
  - PWG 5108.1: MFD Model and Common Semantics Version 1.00
  - ftp://ftp.pwg.org/pub/pwg/candidates/cs-sm20-mfdmodel10-20110415-5108.1.pdf

- **Copy Service: Approved June 2011**
  - PWG 5108.04: Copy Service Semantic Model and Service Interface Version 1.00
  - ftp://ftp.pwg.org/pub/pwg/candidates/cs-sm20-copy10-20110610-5108.04.pdf

- **MFD Requirements: Approved September 2010**
  - Multifunction Device Service Model Requirements
  - ftp://ftp.pwg.org/pub/pwg/informational/req-mfdreq10-20100901.pdf

Approved Documents:

- FaxOut Service: Approved August 2011
  - PWG 5108.05-2011: FaxOut Semantic Model and Service Interface
  - ftp://ftp.pwg.org/pub/pwg/candidates/cs-sm20-faxout10-20110809-5108.05.pdf

- System Control Service: Approved Februrary 2012
  - PWG 5108.06-2011: System Object and System Control Service Semantics Version 1.0
  - ftp://ftp.pwg.org/pub/pwg/candidates/cs-sm20-20120217-5108.06.pdf

- Print Job Ticket: Approved July 2012
  - PWG 5108.07-2012: PWG Print Job Ticket and Associated Capabilities Version 1.0
  - ftp://ftp.pwg.org/pub/pwg/candidates/cs-sm20-pjt10-20120801-5108.07.pdf

In Progress Documents:

- FaxIn Service: (Work in Progress)
  - FaxIn Service: Semantic Model and Service Interface – December 1, 2012 Interim Draft
  - ftp://ftp.pwg.org/pub/pwg/mfd/wd/wd-mfdfaxinmodel10-20121201-rev.pdf

- Transform Service (Work in Progress)
  - Transform Service: Semantic Model and Service Interface - August 7, 2012 Interim Draft
  - ftp://ftp.pwg.org/pub/pwg/mfd/wd/wd-mfdtransformmodel01-20120807.pdf

- Mapping Related Standards
  - Mapping related standards to/from PWG PJT v1.0

- Semantic Model / MFD Charter
  - Revise the Semantic Model/MFD charter

In Progress Documents

- Schema Status:
  - Named version (v1.180) published for PWG Print Job Ticket
  - Latest (v1.185) Up to date with In Progress specifications
    - Transform Service (mostly complete)
    - FaxIn Service (up to date)
    - FaxOut Service (up to date)
    - Cloud Print extensions (WIP – WSDL operations needs update)

Remaining Documents

- Planned to be addressed after the current documents are complete. (Subject to volunteers to be Editors)
  - EmailIn Service
  - EmailOut Service
  - Scan, FaxIn, FaxOut, Copy(?) Services (update)
  - Print Service v2.0
  - Transform Service v2.0
  - Semantic Model v2.0
  - Service Integration with Workflow Environments v1.0
  - Mapping Standard v2.0 (DTMF-CIM, AFP, and MODCA)

Next Steps

- Appoint Secretary of Semantic Model Working Group
- Include Version 2 of Mapping Document
- Complete Last Call and Formal Vote on
  - Transform Service: Semantic Model and Service Interface
  - FaxIn Service: Semantic Model and Service Interface
- Continue Cloud Mapping activity
- Web Services binding of Cloud Imaging Model
  - Maybe as part of Print Service v2.0
- Update the MFD Model and Common Semantics Version 1.0 to be the PWG Semantic Model Specification Version 2.0

More Info/How to participate

- We welcome more participation from member companies
- The group maintains a Web Page for Semantic Model that includes links to the latest documents, schema and a browsable version of the schema
  - http://www.pwg.org/mfd

More Info/How to participate

- Information on subscribing to the Semantic Model mailing list is available at <https://www.pwg.org/mailman/listinfo/mfd>

- MFD holds periodic phone conferences, with dates, call numbers and agenda announced on the MFD mail list.

IPP Working Group Status

May 14, 2013

PWG F2F Meeting

Cupertino, CA

Paul Tykodi (TCS)

Ira McDonald (High North)

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) – IPP Shared Infrastructure Extensions (IPPSIX), IPP over HTTPS Transport Binding and "ipps" URI Scheme, LDAP Schema for Printer Services, IPP FaxOut Service, IPP Paid Printing Extensions
  - Smith Kennedy (HP) - IPP Best Practices

IPP WG Status

- IETF RFCs in development:
  - IETF IPP over HTTPS Transport Binding and "ipps" URI Scheme
    - IETF Area Directory Review
  - IETF LDAP Schema for Printer Services (updates RFC 3712)
    - IETF Area Directory Review

- PWG Specifications in development:
  - IPP FaxOut Service   - PWG Last Call
  - IPP Paid Printing Extensions   - Prototype Draft
  - IPP Scan Service   - Initial Draft
  - IPP Shared Infrastructure Extensions (IPPSIX)
    - Initial Draft

- PWG Best Practices in development:
  - IPP Best Practices   - Interim Draft
  - IPP Everywhere Self-Certification Manual
    - Interim Draft

IPP WG Status

- ## Candidate Standards:
  - PWG 5100.14-2013 - IPP Everywhere
  - PWG 5100.13-2012 - IPP: Job and Printer Extensions - Set 3 (JPS3)
  - PWG 5101.1-2013 - PWG Media Standardized Names 2.0 (MSN2)
  - 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 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 June 3, 2013 at 3pm ET

IDS Working Group Status

May 14, 2013

PWG F2F Meeting

Cupertino, CA

Joe Murdock (Sharp)

Alan Sukert (Xerox)

Purpose of the effort

- Hardcopy device have security and access considerations that are not addressed within current hardcopy standards. These considerations should be addressed in a manner common to all hardcopy devices:

    - Hardcopy Devices are currently allowed unfettered access to and storage of secure and controlled documents. There is no standard for controlling document access and defining usage behavior for protecting secure documents.

    - Hardcopy Devices are providing services to mobile devices running different operating system with different methods to consume Hardcopy service. Hardcopy Devices are extending their services as "cloud" resources, and consuming resources from the "cloud". There is no standard or recommended methodology for authenticating and securing the mobile and hardcopy device, their services or the users consuming those services.

    - Hardcopy Devices are providing and consuming services outside of the traditional concept of a local user on a physical device. There are currently no standards or recommendation for controlling or validating access to these services.

    - The industry is moving beyond basic authentication for access to corporate networks to a more detailed assessment of the "health" of devices before allowing them to access the network. Hardcopy Devices attach to networks, but there's no standard set of metrics that is used to assess an HCD. As a result, HCDs are treated as an exception and are allowed to attach to the network based solely on a MAC address.

- Our goal is to provide the metrics and mechanisms that allow HCDs to fully participate in assessment-protected networks and provide secure, controlled access to documents and hardcopy services regardless of location or consumer.

Administration

- **IDS WG Chair**
  - Joe Murdock (Sharp)
- **IDS WG Vice-Chair**
  - Alan Sukert (Xerox)
- **IDS WG Secretary:**
  - Alan Sukert (Xerox)
- **IDS WG Document Editors:**
  - *HCD-ATR: Joe Murdock (Sharp), Jerry Thrasher (Lexmark)*
  - *HCD-NAP: Joe Murdock (Sharp), Brian Smithson (Ricoh)*
  - *PWG-Log: Mike Sweet (Apple)*
  - HCD-TNC: Ira McDonald (High North)
  - HCD-Remediation: Joe Murdock (Sharp)
  - IDS-Model: Joe Murdock (Sharp), Ira McDonald (High North), Ron Nevo (Samsung)
  - IDS-IAA: Joe Murdock (Sharp)

Approved Proposed Standards

- PWG 5110.1-2013
  - HCD-Attributes
- PWG 5110.2-2013
  - HCD-NAP
- PWG 5110.3-2013
  - PWG-LOG Common Log

Current Status

- HCD-TNC Binding Document
  - Prototype draft completion date Q2, 2013
- IDS-Model Common Requirements
  - Prototype draft completion date Q3, 2013
- IDS-IAA specification
  - Prototype draft completion date Q3, 2013
- IDS Security Ticket schema
  - Prototype draft completion date Q3, 2013

Next Steps

- Resume Health Remediation specification
  - TCG TNC WG has expressed interest in health remediation
- IDS Identification, Authentication and Authorization specification
  - Definition of core set of Policy Attributes
  - Harmonize with TCG TNC specifications
  - Define access control values
- IDS model specification
- Monitor progress of MFP Technical community on Protection Profile work

More Info/How to participate

- We welcome participation from PWG member companies and input from the user community

- The group maintains a Web Page and separate WIKI pages for IDS update
  - http://www.pwg.org/ids/index.html
  - http://pwg-wiki.wikispaces.com/Imaging+Device+Security+WG

- To subscribe to the IDS mailing list, go to :
  - https://www.pwg.org/mailman/listinfo/ids

- The group hold bi-weekly conference calls on Mondays at 11:00AM PT/2:00PM ET
  - Next teleconference June 10, 2013

Cloud Imaging Model Working Group Status

May 14, 2013

PWG F2F Meeting

Cupertino, CA

Ron Nevo (Samsung)

Bill Wagner (TIC)

Officers

- Chair: Ron Nevo (Samsung)
- Vice Chair: Bill Wagner (TIC)
- Secretary: Michael Sweet (Apple)
- Document Editor Volunteers:
  - Larry Upthegrove: Cloud Imaging Requirements and Model
  - Ron Nevo (Samsung): Cloud Imaging Requirements and Model
  - Michael Sweet (Apple): Cloud Imaging Requirements and Model

Status

- Charter
  - Latest charter was approved by PWG Steering Committee last week (May 9, 2013)
- Cloud Printing Model Specification
  - Document simplified by decisions that:
    - Print Job Requesters interaction with Cloud server identical to that with standard print server
    - Detailed design consideration of elements within the Cloud are out of scope
  - Recent Decisions
    - Detailed Use Cases were again added
    - Applicable Cloud User Operations identified; New Cloud Print Manager Operations Defined
    - Based on provisions in IPP SIX draft, restriction on one Cloud Manager destination per Cloud Print Service was eliminated
    - Decision to abandon effort and transfer work done to date to Cloud Imaging Requirements and Model
  - Cloud Imaging Requirements and Model Specification
    - Initial draft modified to provide Interim draft reflecting decisions made for Cloud Printing Model
    - Additional Use Cases and Operations up for discussion
    - Further development necessary

Next Steps

- Cloud Imaging Requirements and Model Specification
  - Continue with Cloud Imaging Requirements and Model
    - Additional Contributors ?

Cloud Imaging WG Participation

- We welcome participation from all interested parties
- Cloud Imaging Working Group Web page
    - http://www.pwg.org/cloud/index.html
- Cloud Imaging Working Group Wiki
    - http://pwg-wiki.wikispaces.com/Cloud+Imaging
- Subscribe to the Cloud mailing list
    - https://www.pwg.org/mailman/listinfo/cloud
    - cloud@pwg.org
- Cloud Imaging WG holds bi-weekly phone conferences announced on the Cloud mailing list
    - Next conference call is June 3, 2013 at 3 pm (ET)
    - Conferences on opposite weeks of IPP WG calls

Liaison Status

AFP Consortium

- Paul Tykodi has committed to creating a small portion of the proposed MO:DCA-P and IPDS mappings to the PWG PJT

- These mappings were reviewed at the AFP Consortium's meeting in April 2013
  - Provided list of mappings to Paul that needed to be done
  - Paul will provide mappings to AFP by the end of May 2013
  - Will coordinate further development going forward

- The mappings will be included in the 2.0 version of the PWG PJT Mapping document

BBF - CWMP

- PWG developed, prototyped, and demonstrated a standard CWMP data model for MFD that is a machine translation from the PWG Semantic Model

- A CWMP data model for MFD or any device with services must be developed in BBF BroadbandHome Working Group as a BBF standard

- PWG Chair proposed a formal collaboration project to jointly develop the standard with/in the BBF

- BBF members agreed to a formal liaison between the BBF and PWG, with the details being worked out
  - Initial conference call occurred on Feb 13, 2013

- BBF had a face-to-face meeting in March 2013
  - We are waiting on feedback

TCG News

- Embedded Systems (EmSys)
  - Scope - SmartGrid, Financial, Medical, Auto, Industrial Control
  - Define embedded TPM/TNC/SED and facilitate demos in 2013
  - Vehicle Services SG - embedded controllers and Internet
- Trusted Mobility Solutions (TMS)
  - Scope - BYOD (enterprise) and Mobile Banking/Payment (trusted apps)
  - Define trusted mobile solutions and facilitate demos in 2013
- Trusted Platform Module (TPM) 2.0
  - Published February 2013
- Next TCG Members Meeting
  - June 24-28, 2013 - Dublin, Ireland
- TCG Website
  - http://www.trustedcomputinggroup.org/

Other Questions / Comments
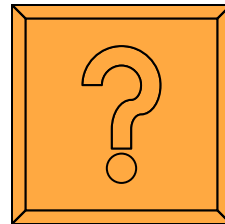
Next PWG Meetings

- August 6-8 in Camas, WA (hosted by Sharp)
- October 22-24 in Cupertino, CA (hosted by Ricoh)

Thank You!

- Thank you Apple for hosting this meeting!