

Printer Working Group Plenary Session

February 6, 2013

PWG F2F Meeting

El Segundo, 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
 - USB-IF
- 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



- Wednesday, February 6
 - 9:00 - 10:00 PWG Plenary
 - 10:00 - 12:00 Cloud Imaging Model
 - 12:00 - 1:00 Lunch
 - 1:00 - 5:00 Semantic Model (Mapping, Transform)
- Thursday, February 7
 - 9:00 - 12:00 IPP (FaxOut and Self-Certification)
 - 12:00 - 1:00 Lunch
 - 1:00 - 5:00 IDS

2013 PWG Meetings



- May 14-17 Cupertino, CA (hosted by Apple)
[Joint OpenPrinting/PWG Meeting]
- August 6-8 Camas, WA (hosted by Sharp)
- October 22-24 Cupertino, CA (hosted by Ricoh)

2013 Membership



32 Members

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

Note: Renewal notices for 2013 have been sent out, about 50% paid.

PWG Officers (2011-2013 Term)



- PWG Chair
 - Michael Sweet, Apple
- PWG Vice-Chair
 - Nancy Chen, Oki Data
- PWG Secretary
 - Ira McDonald, High North

Open Issues

- IDS WG needs co-/vice chair
- Semantic Model (MFD) WG needs a secretary

PWG Working Group Status

Semantic Model Working Group Status

February 6, 2013

PWG F2F Meeting

El Segundo, 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 February 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
 - FaxIn Service
 - FaxOut Service ("PrinterOrganization")
 - Cloud Print extensions

Remaining Documents

- Planned to be addressed after the current documents are complete. (Subject to volunteers to be Editors)
 - EmailIn Service
 - EmailOut Service
 - Scan Service (update)
 - Print Service (update)
 - 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 Vice Chair and Secretary of Semantic Model Working Group
- Include Version/Volume 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
- Coordinate transition of 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

February 6, 2013

PWG F2F Meeting

El Segundo, 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) – 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

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)
(Initial draft in development)

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

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

IDS Working Group Status

February 6, 2013

PWG F2F Meeting

El Segundo, CA

Joe Murdock (Sharp)

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
 - vacant
- 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)
 - HCD-TNC: Ira McDonald (High North)
 - IDS-Model: Joe Murdock (Sharp), Ira McDonald (High North), Ron Nevo (Samsung)
 - IDS-Log: Mike Sweet (Apple)
 - IDS-IAA: Joe Murdock (Sharp)

Current Status

- PWG-Log Common Log
 - Completed PWG Last Call
- HCD-Attributes
 - Completed PWG Last Call
- HCD-NAP Binding Document
 - Completed PWG Last Call
- HCD-TNC Binding Document
 - Prototype draft completion date Q2, 2013
- IDS-Model Common Requirements
 - Prototype draft completion date Q2, 2013
- IDS-IAA specification
 - Prototype draft completion date Q2, 2013
- IDS Security Ticket schema
 - Prototype draft completion date Q2, 2013

Next Steps

- Start PWG Formal Vote
 - PWG-LOG
 - HCD-Attributes
 - HCD-NAP
- Resume Health Remediation specification
 - TCG TNC WG has expressed interest in health remediation
- Monitor progress of MFP Technical community on Protection Profile work
- Definition of core set of Policy Attributes
 - Addition to IAA specification
 - Harmonize with TCG TNC specifications

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 February 18, 2013

Cloud Imaging Model Working Group Status

February 6, 2013

PWG F2F Meeting

El Segundo, CA

Ron Nevo (Samsung)

Officers



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

- Charter
 - Latest charter was approved by PWG Steering Committee in October
 - Present charter identifies very limited objectives
- Cloud Printing Requirements and Model Specification
 - Primary current work effort
 - PWG Last Call scheduled for Q1 2013 - perhaps will be late
- Cloud Imaging Requirements and Model Specification
 - Not yet started, but Cloud Printing Requirements and Model Specification should be good starting basis
 - Initial working draft scheduled for late Q1 2013 - will be later

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 Feb 18, 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 will be reviewed at the AFP Consortium's upcoming meeting in April 2013
 - Plan to do a joint conference call with Semantic Model WG on March 11, 2013
- The AFP Consortium will provide feedback and guidance on the mappings
- 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 in the coming weeks
 - Initial conference call scheduled Feb 13, 2013

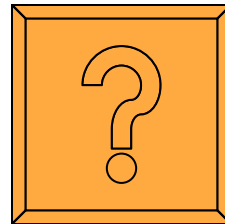
- **Embedded Systems (EmSys)**
 - Scope - SmartGrid, Financial, Medical, Auto, Industrial Control
 - Define embedded TPM/TNC/SED and facilitate demos in 2013
 - Vehicle Services SG - embedded controllers and Internet
- **Trusted Mobility Solutions (TMS)**
 - Scope - BYOD (enterprise) and Mobile Banking/Payment (trusted apps)
 - Define trusted mobile solutions and facilitate demos in 2013
- **Next TCG Members Meeting**
 - February 18-22, 2013 - San Francisco, CA
- **TCG Website**
 - <http://www.trustedcomputinggroup.org/>

USB IF - IPP USB WG



- The IPP USB project was approved by the USB Forum Board
 - Also covers HTTP over USB
- IPP USB specification has been approved and published at:
 - http://www.usb.org/developers/devclass_docs
 - Look under the Printer Class documents

Other Questions / Comments



Next PWG Meetings

- May 14-17 in Cupertino, CA (hosted by Apple)
 - Joint PWG/OpenPrinting meeting
- August 6-8 in Camas, WA (hosted by Sharp)

Thank You!



- Thank you Xerox for hosting this meeting!