

Printer Working Group Plenary Session

October 1, 2012 PWG "Virtual" F2F Meeting

Michael Sweet (Apple)

Plenary Agenda



- Administrivia
- Open Issues
- PWG Working Group Status [WG Chairs]
 - Semantic Model (MFD)
 - WIMS
 - IPP (IPPv2 Interop, IPP Everywhere)
 - IDS (Imaging Device Security)
 - Cloud Imaging
- Liaison Status
- 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
- 2012 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



- Monday, October 1
 - 9:00 11:00 CWMP BOF
 - 11:00 12:00 PWG Plenary
 - 1:00 5:00 Cloud Imaging
- Tuesday, October 2
 - 9:00 12:00 Semantic Model (Transform Service)
 - 1:00 5:00 IPP Everywhere

2012 PWG Meeting Schedule



December 4-6 Irvine, CA (hosted by Samsung)

2013 Proposed PWG Meetings



- Moving to a quarterly meeting schedule
- February 5-7
- May 7-9 Cupertino, CA (hosted by Apple)
 - (Joint PWG/OpenPrinting?)
- August 6-8 Camas, WA (hosted by Sharp)
- October 22-24 Cupertino, CA (hosted by Ricoh)
- Volunteers to host the February meeting are GREATLY appreciated!

2012 Membership



30 Members

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

PWG Officers (2011-2013 Term)



- PWG Chair
 - Michael Sweet, Apple
 - Moved; will continue working for Apple and as PWG chair although not attending most face-to-face meetings in person
- 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 chair, secretary, and WSDL/XML schema editor
- WIMS WG needs a secretary



PWG Working Group Status



Semantic Model Working Group Status

October 1, 2012 PWG "Virtual" F2F Meeting

Peter Zehler (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/cssm10-20040120-5105.1.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-sm20scan10-20090410-5108.02.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-sm20resource10-20090703-5108.03.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-sm20mfdmodel10-20110415-5108.1.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-sm20copy10-20110610-5108.04.pdf
- MFD Requirements: Approved September 2010
 - Multifunction Device Service Model Requirements
 - ftp://ftp.pwg.org/pub/pwg/informational/reqmfdreq10-20100901.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-sm20faxout10-20110809-5108.05.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/cssm20-20120217-5108.06.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-sm20pjt10-20120801-5108.07.pdf

In Progress Documents:



- FaxIn Service: (Work in Progress)
 - FaxIn Service: Semantic Model and Service Interface November 30, 2011 Interim Draft
 - ftp://ftp.pwg.org/pub/pwg/mfd/wd/wdmfdfaxinmodel10-20111130.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/wdmfdtransformmodel01-20120807.pdf

In Progress Documents



- Schema Status:
 - Named version (v1.180) published for PWG Print Job Ticket
 - Latest (v1.181) Up to date with In Progress specifications
 - Transform Service
 - IDS SystemHealth linked to SystemStatus

Remaining Services



- Services planned to be addressed after the current Services are complete. (Subject to change based on group consensus)
 - EmailIn Service
 - EmailOut Service

Next Steps



- Complete Last Call and Formal Vote on
 - Transform Service: Semantic Model and Service Interface
- Complete the work on FaxIn specification
- Update the MFD Model and Common Semantics Version 1.0 to be the PWG Semantic Model Specification Version 2.0

 We need people to step up as editors of Email In/Out service specifications

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

October 1, 2012 PWG "Virtual" F2F Meeting

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 Everywhere, IPP Scan Service, IPP over HTTPS Transport Binding and "ipps" URI Scheme, LDAP Schema for Printer Services
 - Michael Sweet (Apple) IPP Everywhere, PWG Media Standardized Names 2.0, 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:
 - IPP Everywhere (completed PWG Last Call)
 - 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)
- IPP Multifunction specs in development:
 - IPP Scan Service
 - IPP FaxOut Service
- IPP Cloud binding specs in development:
 - None

IPP WG Status



- Recent Candidate Standards:
 - 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
 - Will maintain this in parallel for new specifications
 - Also have some MIB registrations pending

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 October 22, 2012 at 3pm ET



IDS Working Group Status

October 1, 2012 PWG "Virtual" F2F Meeting

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.

Work Items for the WG



What We're Doing

- We are defining a standard set of metrics that can be measured or assessed in Hardcopy Devices to gauge if they should be granted access to a network.
- We are providing recommendations for identifying and authenticating Hard Copy and mobile devices, services and users in a global workspace.
- We are defining standard attributes and values for authorizing Hard Copy Devices, their services and users in a global workspace
- We are defining a set of standard security attributes to be associated with mobile and remote imaging jobs, users, services and devices
- We are defining common log formats and values to facilitate automated log analysis.

What We're NOT Doing

- We are NOT defining any new assessment protocols, nor assessment extensions to existing authentication protocols.
- We are NOT endorsing any of the competing network assessment protocols (TNC, NAC, NAP, NEA). Our goal is to enable Hardcopy Devices to participate in any/all of them.
- We are NOT defining any new security protocols.

Administration



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

Current Status



- IDS-Model Common Requirements specification
 - Prototype draft completion date Q1, 2013
- HCD-TNC Binding Document is under development
 - Prototype draft completion date of Q1, 2013
- IDS-Log Common Log Specification is under development
 - Working Group Last Call Q4, 2012
- IDS-IAA specification is under development
 - Prototype draft completion date of Q2, 2013
- HCD-Attributes specification is under revision
 - Working Group Last Call Q4, 2012
- HCD-Nap specification is under revision
 - Prototype draft completion date of Q4, 2012
- IDS Security Ticket schema is under development
 - Prototype draft completion date of Q4, 2012

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 November 8, 2012



Cloud Imaging Working Group Status

October 1, 2012 PWG "Virtual" F2F Meeting

Ron Nevo (Samsung)

Officers



- Chair: Ron Nevo (Samsung)
- Vice Chair: Bill Wagner (TIC)
- Secretary: Michael Sweet (Apple)
- Document Editors:
 - Ira McDonald (High North): Job Ticket Mapping (JDF), Cloud Print Requirements and Model
 - Larry Upthegrove: Cloud Print Requirements and Model
 - Peter Zehler (Xerox): Job Ticket Mapping (MSPS), Cloud Print Requirements and Model
 - Ron Nevo (Samsung): Job Ticket Mapping, Cloud Print Requirements and Model
 - Michael Sweet (Apple): Job Ticket Mapping (PPD), Cloud Print Requirements and Model
 - Justin Hutchings (Microsoft): Job Ticket Mapping (MSPS)

Charter



- Cloud-based applications and solutions are increasingly common, and Cloud-based printing, scanning, and facsimile (collectively called "Cloud Imaging") are emerging in several different forms. Adopting standard protocols and schemas now will help interoperability, speed adoption, and address privacy and security issues involved in Cloud Imaging.
- A basic functional model including a Client, Cloud Print Provider, Cloud Print Manager, and Printer
 was developed at previous Cloud Printing BOF sessions. This model revealed several new
 requirements beyond the existing PWG Semantic Model including registration, enumeration/
 selection, use of late transforms to preserve fidelity, additional notification events, strict privacy and
 security policies, and reliable logging.
- The goal of the Cloud Imaging project is to develop the following new documents to support Cloudbased printing and multifunction imaging using the PWG Semantic Model:
 - (a) Mapping Related Standards to/from PWG PJT (CLOUDMAP) (wd-cloudmap10-yyyymmdd) –
 define a PWG standards-track document that includes a normative mapping of PWG Print Job
 Ticket and Associated Capabilities [PJT] to and from elements in the Microsoft Print Schema
 Specification [MSPS], Adobe Postscript Printer Description [PPD], and CIP4 Job Definition
 Format [JDF];
 - (b) Cloud Print Requirements and Model (CLOUDMODEL) (wd-cloudmodel10-yyyymmdd) define the reference model, terminology, and requirements for Cloud Print services;
 - (c) Mapping Related Standards to/from PWG PJT Version 2.0 (CLOUDMAP2) (wd-cloudmap20-yyyymmdd) define a PWG standards-track document that includes additional normative mappings of PWG Print Job Ticket and Associated Capabilities [PJT] to and from elements in the AFP Intelligent Print Data Stream [IPDS], AFP Mixed Object: Document Content Architecture [MODCA], and DMTF Common Information Model [CIM]; and
 - (d) Cloud Multifunction Requirements and Model (CLOUDMFD) (wd-cloudmfd10-yyyymmdd) –
 define the reference model, terminology, and requirements for Cloud Multifunction services.

Status



- Charter
 - Latest (April) draft of charter (ftp://ftp.pwg.org/pub/pwg/cloud/charter/wdcloud-charter-20120428.pdf) approved by PWG Steering Committee on 30 August
 - Mapping Specification
 Will resume and complete V1 (MSPS, PPD and JDF mappings) so that Cloud
 Printing mechanisms can correlate to/migrate to PWG model.
 - MSPS information from Justin must be mapped to PWG model
 - Pending table updates to PPD Mapping must be completed
 - Paul Tykodi indicates interest in this from the production printing environments
- Cloud Printing Model Specification
 - Primary current work effort
 - 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
 - Print Job Request use cases were taken out

Next Steps



- Cloud Imaging Requirements and Model Specifications
 - Continue with Cloud Printing Requirements and Model
 - Additional Contributors ?
 - Transfer Model to IPP working group to do Binding
 - Start Cloud Multifunction Requirements and Model
- Support of Current Cloud Printing Approaches
 - Resume effort on CLOUDMAP V1- Mapping of PWG Semantic Model elements into PPD, MSPS and JDF formats
 - Start on CLOUDMAP V2- Mapping of PWG Semantic Model elements into IPDS, MODCA and CIM formats

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 October 15, 2012 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 Antwerp meeting
- The AFP Consortium will provide feedback and guidance on the mappings
- The mappings will be included in the 2.0 version of the Cloud Imaging WG Mapping document

TCG News



- Embedded Systems (EmSys)
 - Scope SmartGrid, Financial, Medical, Auto, Industrial Control
 - Define embedded TPM/TNC/SED and facilitate demos in 2013
 - NEW! 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 Meetings
 - October 15-19 2012 Vancouver, BC
 - February 18-22 2012 San Francisco, CA
- TCG Website
 - http://www.trustedcomputinggroup.org/

USB IF - IPP USB WG



- The IPP USB project has been approved by the USB Forum Board
 - Also covers HTTP over USB
- IPP USB specification has completed last call







Next PWG Meetings



- December 4-6 in Irvine, CA (hosted by Samsung)
- February 5-7 in TBD (looking for a volunteer to host)