



The Printer Working Group

Printer Working Group Plenary Session

August 11, 2015

PWG F2F Meeting

Camas, WA (Hosted by Sharp)

Michael Sweet (Apple)



Plenary Agenda

- Administrivia
- PWG Workgroup Status [WG Chairs]
 - Semantic Model (SM)
 - Internet Printing Protocol (IPP)
 - Imaging Device Security (IDS)
 - Cloud Imaging Model (Cloud)
- Liaison Status
 - Trusted Computing Group (TCG)
- Next Meeting Details

Administrivia



- Welcome and Introductions
- Confirm Minutes Taker
- Review PWG Patent Policy
- Agenda for the Week
- Future PWG Meeting Schedule
- 2015 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 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
 - 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 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, August 11**
 - 9:00 - 10:15 PWG Plenary
 - 10:15 - 10:30 Break
 - 10:30 - 12:00 3D Printing BOF
 - 12:00 - 1:30 Lunch
 - 1:30 - 5:00 IPP - Status, System Service
- **Wednesday, August 12**
 - 9:00 - 12:00 Semantic Model - Status and Charter
 - 12:00 - 1:30 Lunch
 - 1:30 - 5:00 IDS - Status, TNC Binding, HCD PP, Charter



Future PWG Meeting Schedule

- 2015 Meetings:
 - November 3-5 (Lexington, KY, hosted by Lexmark)
- 2016 (Proposed) Meetings:
 - February 2-4 (TBD)
 - April 26-29 (Sunnyvale, CA, hosted by Apple)
 - August 9-11 (TBD)
 - October 25-27 (TBD)

2015 Membership



30 Members (29 Voting, 1 Non-Voting)

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



PWG Officers (2013-2015 Term)

- PWG Chair: Michael Sweet, Apple
 - *New chair needed for 2015-2017 term*
- PWG Vice-Chair: Nancy Chen
 - *New vice-chair needed for 2015-2017 term*
- PWG Secretary: Ira McDonald, High North
 - *Willing to serve 2015-2017 term*
- Any voting PWG member may serve as a PWG officer
- Voting for officers will begin in September 2015 and new officers will be announced at the November 2015 F2F meeting



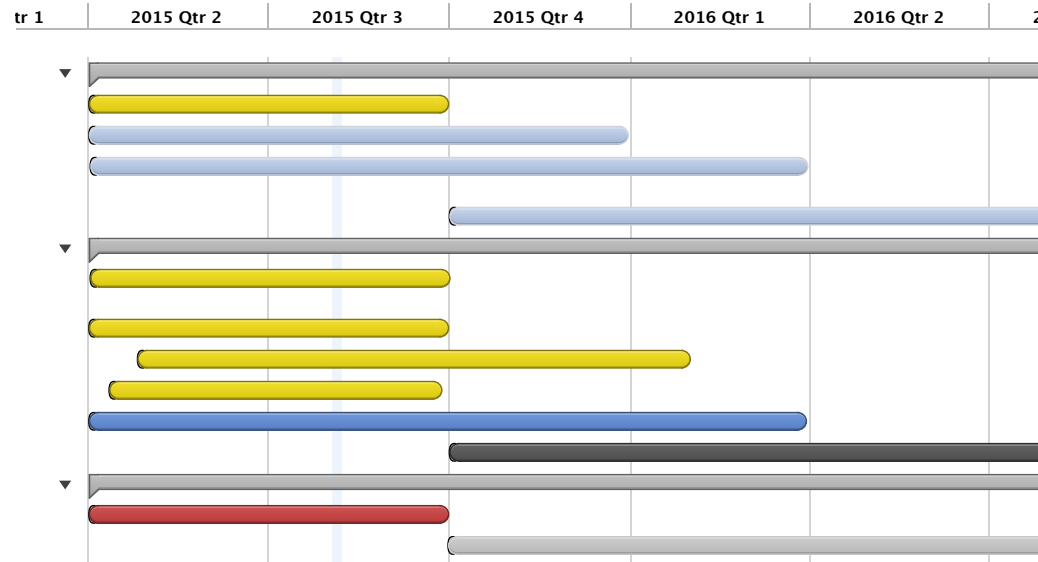
The Printer Working Group

PWG Workgroup Status

Work In Progress



Title	Effort
1) IDS Workgroup	169w
• 1.1) HCD-TNC Binding	26w
• 1.2) IDS Model (MOD)	39w
• 1.3) IDS Identification, Authentication, and Authorization (IAA)	52w
• 1.4) IDS Health Remediation	52w
2) IPP Workgroup	220w
• 2.1) IPP Everywhere Printer Self-Certification Manual 1.0	26w
• 2.2) IPP Implementor's Guide 2.0 (IG)	26w
• 2.3) IETF IPP/1.1 Proposed Standard	40w
• 2.4) IEEE IPP/2.0 Full Standard	24w
• 2.5) IPP System Service (SYSTEM)	52w
• 2.6) Errata Updates	52w
3) Semantic Model Workgroup	154w
• 3.1) CIP4 JDF to PWG PJT Mapping	26w
• 3.2) SM 3.0 Part 1: Imaging System	64w



Planned

Interim

Prototype

Prototyped

Stable



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Semantic Model Workgroup Status

Daniel Manchala (Xerox)



SM: Charter

- The Semantic Model workgroup is concerned with the modeling of imaging services and subunits that comprise a network connected Imaging System. The Objectives are:
 - The definition of a framework for the complete Imaging Semantic Model.
 - Drive to a standard semantic definition for an Imaging System's Subunits, Services, Jobs and Documents.
 - Agreement on the semantics of their attributes, operations and parameters.
- *We will be discussing the charter and future work of this workgroup during tomorrow's session*



SM: Officers

- SM WG Chair:
 - Daniel Manchala (Xerox)
- SM WG Vice-Chair
 - Paul Tykodi (TCS)
- SM WG Secretary:
 - TBD (volunteers needed)
- SM WG Document Editors:
 - Jeremy Leber (Lexmark) - SM3
 - Daniel Manchala (Xerox) - SM3, SM3 Schema
 - Ira McDonald (High North) – JDFMAP
 - Paul Tykodi (TCS) - SM3
 - Bill Wagner (TIC) - SM3
 - Rick Yardumian (Canon) - JDFMAP



SM: Active Work

- CIP4 JDF to PWG PJT mapping (JDFMAP)
 - Complete, awaiting prototype
- SM Schema:
 - Named version (v1.180) published for PWG Print Job Ticket and Associated Capabilities
 - Latest (v2.904) Up to date with In Progress specifications
 - Cloud Imaging Model extensions (WIP – WSDL operations need update)



SM: More Information

- We welcome participation from all interested parties
- SM Web Page:
 - <http://www.pwg.org/sm>
- Subscribe to the SM3 mailing list:
 - <https://www.pwg.org/mailman/listinfo/sm3>
 - sm3@pwg.org
- SM WG holds bi-weekly phone conferences announced on the SM3 mailing list
 - Next conference call is August 24, 2015 at 2pm ET
 - Conference calls on opposite weeks of IDS conference calls



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IPP Workgroup Status

Paul Tykodi (TCS), Ira McDonald (High North)



IPP: Charter

- The Internet Printing Protocol (IPP) workgroup is chartered with the maintenance of IPP, the IETF IPP registry, and to support new clients, network architectures, and service bindings for MFDs and Imaging Systems
- In addition, we maintain the IETF Finisher MIB, Job MIB, and Printer MIB registries, and handle synchronization with changes in IPP



IPP: 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 System Service (SYSTEM), IETF IPP/1.1, IEEE IPP/2.0
 - Michael Sweet (Apple) – IPP System Service (SYSTEM), IETF IPP/1.1, IEEE IPP/2.0
 - Smith Kennedy (HP) - IPP Implementor's Guide 2.0 (IG)



- IETF RFCs in development:
 - IETF IPP/1.1: Encoding and Transport (obsoletes RFC 2910/3382)
 - Stable Draft, AD Sponsor
 - IETF IPP/1.1: Model and Semantics (obsoletes RFC 2911/3381/3382)
 - Stable Draft, AD Sponsor
- PWG Specifications in development:
 - IPP 2.0, 2.1, and 2.2
 - Stable Draft
 - IPP Everywhere Printer Self-Certification Manual 1.0 (SELFCERT)
 - Prototype Draft
 - IPP Implementors Guide 2.0 (IG)
 - PWG Formal Vote
 - IPP System Service (SYSTEM)
 - Interim Draft



IPP: Recently Published Work

- Recent Candidate Standards:
 - PWG 5100.18-2015: IPP Shared Infrastructure Extensions (INFRA)
 - PWG 5100.17-2014: IPP Scan Service (SCAN)
 - PWG 5100.1-2014: IPP Finishings 2.0 (FIN)
- Recent IETF RFCs:
 - RFC 7612: LDAP Schema for Printer Services
 - RFC 7472: IPP over HTTPS Transport Binding and “ipps” URI Scheme



IPP: More Information

- We welcome participation from all interested parties
- IPP Working Group web page
 - <http://www.pwg.org/ipp/index.html>
- Subscribe to the IPP mailing list
 - <https://www.pwg.org/mailman/listinfo/ipp>
- IPP WG holds bi-weekly phone conferences announced on the IPP mailing list
 - Next conference calls August 31 and September 21, 2015 at 3pm ET
 - Skipping September 14, 2015 due to Labor Day
 - Held on same weeks of Imaging Device Security WG



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IDS Workgroup Status

Alan Sukert (Xerox)



IDS: Charter

- IDS is investigating and defining standards for addressing general security attributes for imaging devices and services. Our general goals are to:
 - Define standard metrics and protocol bindings to assess the health of Hardcopy Devices to gauge if they should be granted access to a network.
 - Define a set of standard security and policy attributes and values for authorizing Hard Copy Devices, their services and users in a global workspace
 - Provide a general security model for other PWG standards to reference
- IDS is also providing a path for vendors to review and contribute to the definition of new Common Criteria HCD Protection Profiles
- *We will be discussing the charter and future work of this workgroup during tomorrow's session*



IDS: Officers

- (New) Chair:
 - Alan Sukert (Xerox)
- Vice-Chair:
 - *Currently vacant*
- Secretary:
 - Alan Sukert (Xerox)
- Document Editors:
 - Ira McDonald (High North): HCD-TNC, IDS-Model
 - Alan Sukert (Xerox): IDS-IAA, IDS-Model



IDS: Active Work

- HCD-TNC Binding Document
 - Reopened for revision to use TNC “batch” headers
 - Stable draft, prototyped by HSR
 - PWG Last Call starting tomorrow
- IDS-Model Common Requirements
 - Define core IDS security model and integrate into SM3
 - Security Actors, Objects, Roles, and Types
 - Security Ticket XML Schema
 - Security operations (WSDL)
- IDS-IAA specification - phase 1
 - Phase 1 - Initial version to address Actor and Object privileges and permissions
- Review of Common Criteria HCD Protection Profiles



IDS: More Information

- We welcome participation from PWG member companies and input from the user community
- The group maintains a Web Page for IDS update:
 - <http://www.pwg.org/ids/index.html>
- To subscribe to the IDS mailing list, go to:
 - <https://www.pwg.org/mailman/listinfo/ids>
- The group holds bi-weekly conference calls on Mondays at 11:00AM PT/2:00PM ET
 - Next teleconference August 31, 2015
 - Conference calls on same weeks as IPP conference calls
 - Conference calls on opposite weeks of SM conference calls



The Printer Working Group

Cloud Imaging Model Workgroup Status

Bill Wagner (TIC)



Cloud: Final Status

- The Cloud Imaging Model workgroup was chartered to develop a standard to support Cloud-based printing and multifunction imaging using the PWG Semantic Model
- All work is complete and this workgroup is concluded
 - Further development will occur in the Semantic Model workgroup
- Published Candidate Standard:
 - PWG 5109.1-2015: Cloud Imaging Requirements and Model (IMAGINGMODEL)



The Printer Working Group

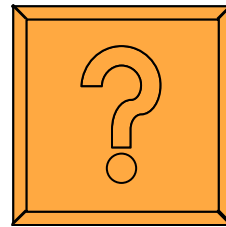
Liaison Status



Trusted Computing Group (TCG)

- Next TCG Members Meetings
 - 19-23 October 2015 – Montreal, Canada – Ira will attend by phone
 - 22-26 February 2016 – TBD location – Ira may attend in person
- Trusted Mobility Solutions (TMS) – Ira is co-chair
 - Scope: enterprise, medical, banking, virtualization, mobile mgmt
 - Formal liaisons – ETSI (NFV), Open Mobile Alliance (device mgmt), Global Platform (TEE protected environment), Mobey Forum (banking)
 - Potential liaisons – ITU-T (integrity), 3GPP (integrity), others
- Mobile Platform (MPWG) – Ira is co-editor
 - Scope: Mobile tablets, phones, PDAs, eBook readers, etc.
 - Formal liaisons – Global Platform (TEE), Mobey Forum (banking)
 - TPM 2.0 Mobile Common Profile – public review ended 6 April 2015
 - http://www.trustedcomputinggroup.org/resources/tcg_tpm_20_mobile_common_profile
 - Second version scheduled for public review in August 2015

Other Questions / Comments



Next PWG Meeting



- November 3-5 (Lexington, KY, hosted by Lexmark)

Thank You!



- Thank you Sharp for hosting this meeting!