



The Printer Working Group

Printer Working Group Plenary Session

November 3, 2015

PWG F2F Meeting

Somewhere in the Ether...

Smith Kennedy (HP Inc.)



Plenary Agenda

- Administrivia
- New Github Organization and Repositories
- PWG Workgroup Status [WG Chairs]
 - Semantic Model (SM)
 - Internet Printing Protocol (IPP)
 - Imaging Device Security (IDS)
- 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, November 3

- 9:00 - 9:45 PWG Plenary
- 9:45 - 10:45 IDS - Charter, HCD-PP, ICC
- 10:45 - 11:00 Break
- 11:00 - 12:30 Semantic Model - Schema, JDFMAP
- 12:30 - 1:30 Lunch
- 1:30 - 4:00 3D Printing BOF

- Wednesday, November 4

- 9:00 - 12:00 IPP - Status, IPP/1.1, Self-Certification
- 12:00 - 1:00 Lunch
- 1:00 - 4:00 IPP - System Service



Future PWG Meeting Schedule

- 2016 Meetings:
 - February 2-3 (Sunnyvale, CA, hosted by Apple)
 - April 26-28 (Boise, ID, hosted by HP Inc.)
 - Joint PWG/OpenPrinting
 - 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	HP Inc.	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	

* Recently purchased by Qualcomm



PWG Officers (2015-2017 Term)

- PWG Chair: Smith Kennedy, HP
- PWG Vice-Chair: Alan Sukert, Xerox
- PWG Secretary: Ira McDonald, High North

New Github Organization and Repositories



- New Github organization account:
 - <https://github.com/istopwg>
- Web site repository:
 - <https://github.com/istopwg/website>
 - <https://github.com/istopwg/website.git>



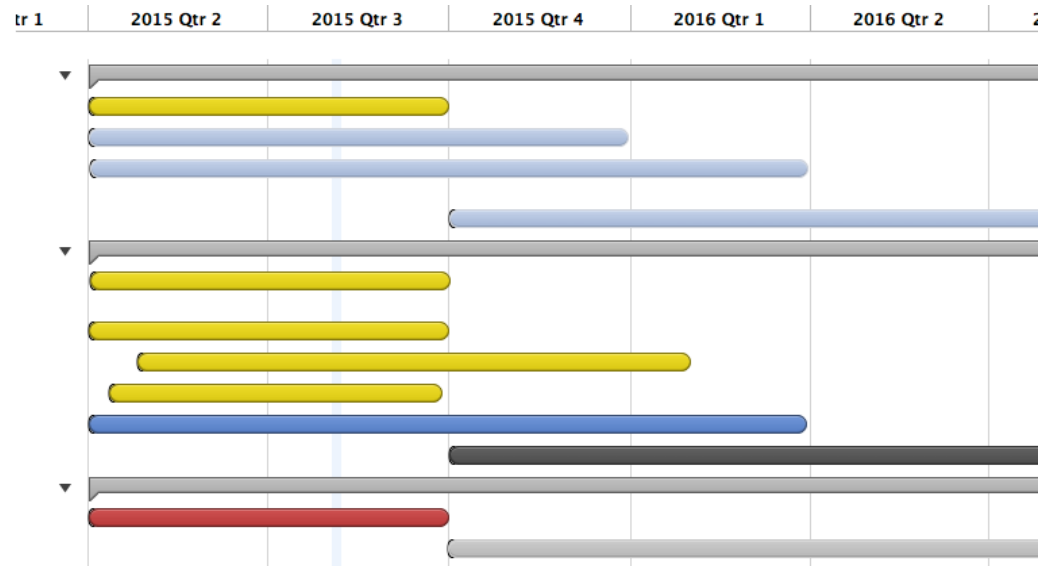
The Printer Working Group

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



The Printer Working Group

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 today'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:
 - Daniel Manchala (Xerox) - SM3 Schema
 - Ira McDonald (High North) – JDFMAP
 - 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



The Printer Working Group

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
 - Michael Sweet (Apple) – IPP System Service (SYSTEM), IETF IPP/1.1



- 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 Everywhere Printer Self-Certification Manual 1.0 (SELFCERT) - WG Last Call Completed
 - IPP System Service (SYSTEM) - Interim Draft
- Up-to-date pending IANA registrations online:
 - <http://www.pwg.org/ipp/ipp-registrations.xml>
 - Continue to maintain this in parallel for new specifications



IPP: Recently Published Work

- Recent Full Standard:
 - PWG 5100.12-2015: IPP 2.0, 2.1, and 2.2
- Recent Candidate Standards:
 - PWG 5100.19-2015: IPP Implementor's Guide v2.0 (IG)
 - PWG 5100.18-2015: IPP Shared Infrastructure Extensions (INFRA)
- 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 November 16 and 30, 2015 at 3pm ET
 - Held on same weeks of Imaging Device Security WG



The Printer Working Group

IDS Workgroup Status

Alan Sukert (Xerox)



- 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



IDS: Officers

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



IDS: Working Group Status

IDS Working Group is going into “hibernation” to be reinstated as needed by the PWG Steering Committee.

The following specifications will be archived:

- IDS Model
- IDS Identification, Authentication and Authorization (IA&A)
- IDS Health Remediation



IDS: Active Work

- HCD-TNC Binding Document
 - PWG Last Call completed
 - PWG Formal Vote starting in November 2015
- Charter Update to reflect “hibernation” status
- Working Group is going into “hibernation” to be reinstated as needed by the PWG Steering Committee. The following specifications will be archived:
 - IDS Model
 - IDS Identification, Authentication and Authorization (IA&A)
 - IDS Health Remediation



IDS: More Information

- We welcome participation from PWG member companies and input from the user community when the Working Group is reinstated
- 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
 - Conference calls on same weeks as IPP conference calls
 - Conference calls on opposite weeks of SM conference call
 - No Conference Calls have been scheduled at this time, but one may be necessary to approve IDS Charter update



The Printer Working Group

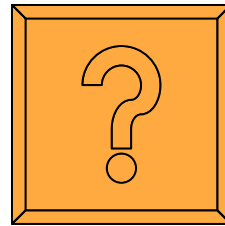
Liaison Status



Trusted Computing Group (TCG)

- Next TCG Members Meetings
 - 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_2_0_mobile_common_profile
 - Second version scheduled for public review in August 2015

Other Questions / Comments



Next PWG Meeting



- February 2-3 in Sunnyvale, CA (hosted by Apple)