



# The Printer Working Group

## Printer Working Group Plenary Session

February 10, 2016

PWG Face to Face Meeting

Sunnyvale, CA – Hosted by Apple Inc.

Smith Kennedy (HP Inc.)



# Plenary Agenda

- Administrivia
- New Github Organization and Repositories
- PWG Workgroup Status [WG Chairs]
  - Internet Printing Protocol (IPP)
  - Semantic Model (SM)
  - Imaging Device Security (IDS)
- Liaison Status
  - Trusted Computing Group (TCG)
- Next Meetings

# Administrivia



- Welcome and Introductions
- Confirm Minutes Taker
- Review PWG Patent Policy
- Agenda for the Week
- Future PWG Meeting Schedule
- 2016 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 Overview



## Wednesday, February 10

9:00 – 10:15	PWG Plenary
10:15 – 10:30	Break
10:30 – 12:00	Semantic Model - Schema, JDFMAP
12:00 – 1:00	Lunch
1:00 – 4:00	IPP – Workgroup Status, IETF IPP/1.1 Updates, IPP System Service

## Thursday, February 11

9:00 – 12:00	IPP – 3D Printing Extensions
12:00 – 1:00	Lunch
1:00 – 2:30	IPP – Job Password Repertoire, Finishings 2.0 Proposals & Errata





# Future PWG Meeting Schedule

- 2016 Meetings:
  - April 26-28 (Boise, ID, hosted by HP Inc.)
    - Joint PWG / OpenPrinting
  - August 9-10 (TBD)
    - Concrete dates?
    - Volunteers to host? Choose a "neutral" location?
  - October ??? / November ??? (TBD)
    - Concrete dates?
    - Volunteers to host? Choose a "neutral" location?
- Discuss future meeting schedule

# 2016 Membership



## 29 Members (28 Voting, 1 Non-Voting)

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

2016 Membership Invoices sent in October 2015

\* Recently purchased CSR



# PWG Officers (2015-2017 Term)

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

# Github Organization and Repositories



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

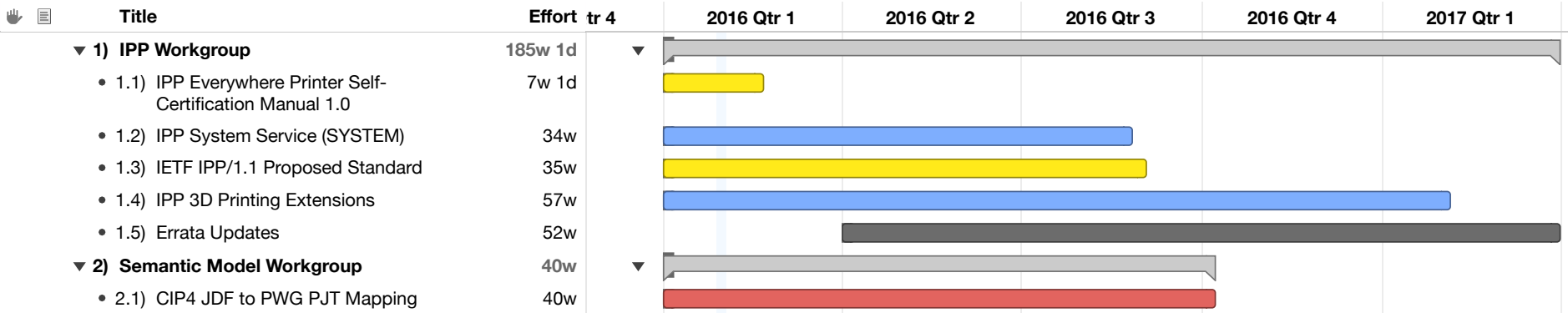


# The Printer Working Group

## PWG Workgroup Status



# Work In Progress



Planned

Interim

Prototype

Prototyped

Stable



# The Printer Working Group

## IPP Workgroup Status

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



# IPP WG: 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 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 System Service (SYSTEM), IETF IPP/1.1
  - Michael Sweet (Apple) – IPP System Service (SYSTEM), IETF IPP/1.1, IPP 3D Printing Extensions
  - Smith Kennedy (HP Inc.) – IPP Job Password Repertoire



# IPP WG: Status

- 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) - Stable, PWG Formal Vote
  - IPP System Service (SYSTEM) - Interim Draft
  - IPP 3D Printing Extensions (3D) - Interim Draft
- PWG Whitepapers in development:
  - IPP Job Password Repertoire - Interim Draft



# IPP WG: 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 weekly phone conferences announced on the IPP mailing list
  - Next conference calls February 22, 2016 at 4pm ET to discuss 3D Printing and February 29, 2016 at 3pm ET for IPP System Service



# The Printer Working Group

## IDS Workgroup Status

Alan Sukert (Xerox)



# IDS: Original Charter

- Investigate and define 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
- Provide a path for vendors to review and contribute to the definition of 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



- The IDS workgroup is currently in “hibernation”
  - Will be revived when needed
- IDS Charter update reflecting “hibernation” status approved by PWG
- PWG Candidate Standard 5110.4-2015: HCD-TNC specification approved by PWG
- The following specifications are being archived:
  - IDS Model
  - IDS Identification, Authentication, and Authorization (IAA)
  - IDS Health Remediation
- New HCD Protection Profile issued Sep 2015
  - No current activity on new or updated HCD Protection Profile



# The Printer Working Group

## Semantic Model Workgroup Status

Daniel Manchala (Xerox)





# SM: Objectives

- 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 proposal to update the Schema at tomorrow's session*



# SM: Officers

- SM WG Chair:
  - Daniel Manchala (Xerox)
- SM WG Vice-Chair
  - Paul Tykodi (TCS)
- SM WG Secretary:
  - Bill Wagner (TIC)
- 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:
  - Latest (v2.905) Up to date with Schema, WSDL and LiquidXML project file along with a browseable version uploaded to the PWG web site.
  - Other versions include the older models
    - v2.904, v2.903 and v1.185
  - Named version (v1.185) published for PWG Print Job Ticket and Associated Capabilities



# 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](mailto:sm3@pwg.org)
- SM WG holds bi-weekly phone conferences announced on the SM3 mailing list
  - Next conference call is February 22, 2016 at 3pm ET
  - Conference calls on opposite weeks of IPP conference calls. This call is usually followed by the IPP 3D-printing conference call.



# The Printer Working Group

## Liaison Status



# Trusted Computing Group (TCG)

- **Next TCG Members Meetings**

- 22-26 February 2016 – San Francisco, CA – Ira to call in
- 20-24 June 2016 – Vienna, Austria – Ira to call in
- 17-21 October 2016 – Seoul, South Korea – Ira to call in

- **Trusted Mobility Solutions (TMS)** – Ira is co-chair and co-editor

- Scope: enterprise, medical, banking, virtualization, mobile mgmt
- Formal liaisons – ETSI (NFV), Open Mobile Alliance (device mgmt), Global Platform (TEE protected environment), Mobey Forum (banking/payments, biometrics authentication, integrity)
- Proposed formal liaisons – ITU-T (integrity, security, 5G, Cloud)
- Informal liaisons - 3GPP (integrity), Small Cell Forum (integrity)

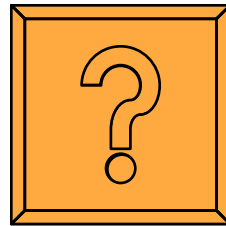
- **Mobile Platform (MPWG)** – Ira is co-editor

- Scope: mobile phones, PDAs, eBook readers, etc.
- Formal liaisons – Global Platform (TEE), Mobey Forum (banking)
- TPM 2.0 Mobile Common Profile – TCG published December 2015
  - [http://www.trustedcomputinggroup.org/resources/tcg\\_tpm\\_2\\_0\\_mobile\\_common\\_profile](http://www.trustedcomputinggroup.org/resources/tcg_tpm_2_0_mobile_common_profile)



- **Drupa** – definition per Wikipedia *"The drupa is the largest printing equipment exhibition in the world, held every three years (4 years in the past) Messe Düsseldorf in Düsseldorf, North Rhine-Westphalia, Germany. The word drupa is a portmanteau of the German words druck and papier; print and paper respectively."*
- **3D Printing is an area of Focus for Drupa 2016**
  - Messe Düsseldorf has contracted with 3D fab+print to organize a touchpoint booth highlighting certain 3D industry related tracks
  - The PWG has been accepted as a presenting organization for the 3D fab+print touchpoint
  - The PWG is scheduled to provide a 10 to 15 minute presentation on Saturday June 4<sup>th</sup> at 3:00 PM and Monday June 6<sup>th</sup> at 2:00 PM covering the work being performed by the IPP Working Group on a forthcoming IPP 3D standard at the 3D fab+print touchpoint booth.
  - The PWG presentation will be advertised by both 3D fab+print to the 3D community through their monthly newsletter in April 2016 and through normal Drupa press channels to the existing 2D community

# Other Questions / Comments







# Next PWG Meetings

- April 26-28 (Boise, ID, hosted by HP Inc.)
  - Joint PWG/OpenPrinting
- August 9-10 (???)