

Printer Working Group Plenary Session

February 7, 2012

Irvine, CA

Plenary Agenda

- CWMP BOF (just concluded)
- Administrivia
- Open Issues
- PWG Working Group Status [WG Chairs]
 - Semantic Model (MFD)
 - WIMS
 - IPP (IPPs2 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



- Tuesday, February 7
 - 9:00 - 11:00 CWMP BOF
 - 11:00 - 12:00 Plenary
 - 12:00 - 1:00 Lunch
 - 1:00 - 5:00 IPP Everywhere
- Wednesday, February 8
 - 9:00 - 12:00 Cloud Imaging
 - 12:00 - 1:00 Lunch
 - 1:00 - 5:00 IPP Everywhere

Agenda for the Week



- Thursday, February 9
 - 9:00 - 12:00 Semantic Model
 - 12:00 - 1:00 Lunch
 - 1:00 - 2:00 Semantic Model (con't)
 - 2:00 - 4:00 WIMS

2012 PWG Meeting Schedule



- April 24-27 Cupertino, CA (hosted by Apple)
(MOVED - Joint PWG/Open Printing)
- June 5-7 Webster, NY (hosted by Xerox)
- August 6-8 Redmond, WA (hosted by Microsoft)
- October 2-4 Lexington, KY (hosted by Lexmark)
- December 4-6 Irvine, CA (hosted by Samsung)

2013 Proposed PWG Meetings



- February 5-7
- April 2-4 Cupertino, CA (hosted by Apple)
(Joint PWG/OpenPrinting)
- June 4-6
- August 6-8
- October 1-3
- December 3-5

- Volunteers to host these meetings are GREATLY appreciated!

2012 Membership



29 Members

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

PWG Officers (2011-2013 Term)



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

Open Issues

- IDS WG needs co-chair and secretary
- Semantic Model (MFD) WG still needs a secretary
- WIMS WG still needs a secretary

PWG Working Group Status

PWG Plenary Status Report Semantic Model Working Group

February, 2012

Irvine, CA

PWG 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:
 - 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.
 - Currently being addressed are PrintJobTicket and the SystemControl, FaxIn and Transform services.
 - The Print, Scan, Copy and Resource Services and the MFD Model and Common Semantics specifications have been completed.
 - The definition of a framework for the complete MFD model is the objective.

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>

In Progress Documents:

- System Control Service: (PWG Formal Vote)
 - MFD System Object and System Control Service Semantics – December 15, 2011 Stable Draft
 - <ftp://ftp.pwg.org/pub/pwg/mfd/wd/wd-mfdsystemcontrolservicemodel10-20111215.pdf>
- Print Job Ticket: (PWG Last Call)
 - PWG Print Job Ticket and Associated Capabilities – January 17, 2012 Stable Draft
 - <ftp://ftp.pwg.org/pub/pwg/mfd/wd/wd-sm20-printjobticket10-20120117.pdf>
- 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/wd-mfdfaxinmodel10-20111130.pdf>

In Progress Documents



- Schema Status:
 - Named version (v1.27) published for MFD Model and Common Semantics
 - Latest (v1.168) Up to date with In Progress specifications
 - JPS3
 - Raster
 - IDS SystemHealth linked to SystemStatus
 - Dublin Core metadata added to DocumentDescription

Remaining Services

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

Next Steps

- Complete Last Call and Formal Vote on
 - Print Job Ticket and Associated Capabilities specification
 - MFD System Object and System Control Service Semantics specification
- Complete the work on FaxIn specifications
- Publish initial version of Transform Service 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.

Workgroup for Imaging Management Solutions (WIMS/PMP) Status

February 7, 2012

Irvine, California

- What WIMS is Doing
 - Supporting the existing IETF and PWG Printer and related MIB documents (PMP, FIN, JMP) including the advancement, extension and expansion of these standards.
 - Advancing a basic public management elements structure for Hardcopy Services and Devices that draws upon existing structures and that utilizes a set of management elements that is consistent over the various management interfaces.
 - Considering Hardcopy Device (MFD) management aspects in the light of changing usage, operational and security environments.
 - Coordinating Hardcopy Device and Service management aspects with the model, protocol and security efforts of other PWG Working Groups.
 - Correlating Hardcopy Device management aspects with other Device and Service management standards.
- What WIMS is NOT Doing
 - Addressing the delivery of Hardcopy services.
 - Defining a management service or protocol.
 - Dealing with security issues other than observing security requirements imposed on the management of Hardcopy Devices or Services by IDS, IEEE2600 or other applicable security group.

Officers & Editors

- Co-Chairs:
 - Bill Wagner (Technical Interface Consulting)
 - Danny M. Brennan (GTS Services Delivery)
- Secretary:
 - NONE
- Document Editors:
 - Ira McDonald (High North/Samsung)

Activities and Status



- MFD Alerts Document
 - Draft at Prototype level, awaiting notice of MIB and IPP prototypes to proceed to Stable level and last calls
- Power MIB Interop Test
 - Test Procedure at:
<http://pwg-wiki.wikispaces.com/Power+MIB+Interop>
- MIB Errata WIKI
 - New Page at:
<http://pwg-wiki.wikispaces.com/MIB+Errata>
 - Needs seed observations
 - Need to add links from WIMS WEB and WIKI pages
- Additional MFD Management Elements
 - List at:
ftp://ftp.pwg.org/pub/pwg/wims/white/Management_elements-20120116.pdf
 - Consider new project to provide identification of elements to SM

Request for Notice of Prototype



- MFD Alerts Document is an update to and completion of the Printer MIB Alert Table Groups Extension for Multi-Function Devices document left in Prototype state in March 2007.
- The current MFD Alerts Document is at Prototype level <ftp://ftp.pwg.org/pub/pwg/pmp/wd/wd-pmpmfdalerts10-20111030-rev.pdf>
- By PWG Process, a specification must be prototyped before it can advance to a Candidate Standard. By tradition, the working group must have a notice of prototype before a specification can go to the Stable state and into last call.
- It is anticipated that a notice of prototype for the IPP aspects will be provided in connection with CUPS developments.
- Notice of prototype of the SNMP aspects is being solicited, and is necessary to allow this specification to advance

Power MIB Interop Test



- Interoperational Test of the Imaging Power Management MIB is a chartered event of the WIMS Power Management Project. The specifications produced by this project were approved in February, 2011,
- This InterOp Test acts to uncover possible areas of confusion, clarity issues, errors and other problems in the specification.
- The Test Procedure is a MIB Walk, with results sent to Michael Sweet (Apple) for compilation. He will make none of the MIB Walk records public and published results will not identify participants nor implementations.
- The Test Procedure is at:
<http://pwg-wiki.wikispaces.com/Power+MIB+Interop>
- Participation in this InterOp test will strengthen confidence in the MIB and will increase likelihood of utilization.

Next WIMS/PMP Activities?

- PWG Power MIB Interop
 - Continuing Effort
- MFD Alerts
 - Prototype Volunteers?
 - Schedule
- MIB Errata Page
 - Adding errata, comments, clarifications
 - Publicize
- Additional Management Elements to be identified in Semantic Model
 - More Elements?
 - Review of Lists
 - Form of submission to SM working group

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 various WIMS activities.
 - <http://www.pwg.org/wims/index.html>
 - <http://pwg-wiki.wikispaces.com/WIMS>
 - <http://pwg-wiki.wikispaces.com/WIMS-CIM>
 - <http://pwg-wiki.wikispaces.com/MIB+Errata>
 - <http://pwg-wiki.wikispaces.com/Power+MIB+Interop>
- To subscribe to the WIMS mailing list, go to :
 - <https://www.pwg.org/mailman/listinfo/wims>

IPP Working Group Status

February 7, 2012

Irvine, CA

PWG F2F Meeting

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 Version 2.0, IPP Everywhere 1.0, IPP JPS3, IPP Scan, IPP over HTTPS Transport Binding and “ipps” URI Scheme, LDAP Schema for Printer Services, PWG Character Repertoire Supported Registration
 - Michael Sweet (Apple) – IPP Version 2.0, IPP Everywhere 1.0, IPP JPS3, PWG Media Standardized Names, PWG Raster, IPP over HTTPS Transport Binding and “ipps” URI Scheme, LDAP Schema for Printer Services, IPP FaxOut Service

- Several IPP Everywhere specs in development:
 - IPP Everywhere 1.0 (EVEPRT)
 - IPP: Job and Printer Extensions - Set 3 (JPS3)
 - IETF IPP over HTTPS Transport Binding and “ipps” URI Scheme
 - IETF LDAP Schema for Printer Services (updates RFC 3712)
 - PWG Media Names 2.0 (MSN2)
 - PWG Raster Format (**PWG Last Call**)
 - IPP Scan Service
 - IPP FaxOut Service
- Up-to-date pending IANA registrations online:
 - <http://www.pwg.org/ipp/ipp-registrations.xml> (+ .txt)
 - Will maintain this in parallel for new specifications
 - Also have some MIB registrations pending
- Need minor charter update for MSN2 and title tweaks

IPP Interoperability Event



- During the August 2011 F2F we decided the IPP/2.0 interoperability event will be virtual using the CUPS ipptool program and conformance test files
- January 2012 release of ipptool covers:
 - All required operations and attributes for IPP/2.0
 - Partial coverage of operations and attributes for IPP/2.1
 - Basic testing for existence of IPP/2.2 operations and attributes
- Future update to include tests for undefined attribute and group tags, plus additions to IPP/2.1 and IPP/2.2 tests
- Test results to be sent to Mike Sweet (msweet@apple.com) for presentation at future F2F's
 - Preliminary results for April 2012 F2F?

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 27, 2012 at 1pm (EST)

PWG Plenary Status Report IDS Working Group

February 7, 2012

Irvine, CA

PWG 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
 - IDS is looking for a new Vice Chair
- IDS WG Secretary:
 - IDS is looking for a new Secretary
- IDS WG Document Editors:
 - HCD-ATR: Jerry Thrasher (Lexmark)
 - HCD-NAP: Joe Murdock (Sharp), Brian Smithson (Ricoh)
 - HCD-TNC: Ira McDonald (Samsung)
 - HCD NAC Business Case: Joe Murdock (Sharp)
 - IDS-Model: Joe Murdock (Sharp), Ira McDonald (Samsung), Ron Nevo (Samsung)
 - HCD-HR: Joe Murdock (Sharp)
 - HCD-NAP-SCCM: Joe Murdock (Sharp)
 - IDS-Log: Mike Sweet (Apple)
 - IDS-IAA: Joe Murdock (Sharp)

Current Status

- IDS-Model Common Requirements specification
 - Target completion date Q2, 2012
- HCD-TNC Binding Document is under development.
 - Target completion date of Q2, 2012.
- IDS-Log Common Log Specification is under development
 - Target completion date of Q2, 2012.
- IDS-IAA specification is under development
 - Target completion date of Q2, 2012.
- HCD-Attributes specification is under revision
 - Target completion date of Q4, 2011.
- IDS Security Ticket schema is under revision
 - Integrated with Semantic Model.
 - Target completion date of Q2, 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 Thursdays at 10:00AM PST/1:00PM EST.

Cloud Imaging Working Group Status

February 8, 2012

Irvine, CA

Officers



- Chair: Ron Nevo (Samsung)
- Vice Chair: Bill Wagner (TIC)
- Secretary: Michael Sweet (Apple)
- Document Editors:
 - Ira McDonald (High North): Cloud Print Internet Printing Protocol Binding, Cloud Imaging Model and Requirements, Print Ticket Mapping
 - Joe Murdock (Sharp): Cloud Print SOAP Binding, Cloud Imaging Model and Requirements
 - Peter Zehler (Xerox): Cloud Print SOAP Binding, Cloud Imaging Model and Requirements, Print Ticket Mapping
 - Ron Nevo (Samsung): Cloud Imaging Model and Requirements, Print Ticket Mapping
 - Michael Sweet (Apple): Cloud Imaging Model and Requirements, Print Ticket Mapping
 - Justin Hutchings (Microsoft): Print Ticket Mapping (MSPS)

Overview



- To allow support of convenient and full featured imaging services in conjunction with Cloud Computing and other Cloud-based facilities, the PWG held a series of BOF meetings focused on modeling and understanding the use cases, requirements, and existing implementations.
- This culminated with the creation of the Cloud Imaging Working Group in February 2011.
- Under the initial charter, the WG is to address Cloud Printing in Phase 1, extending to Cloud Imaging in Phase 2.
- The Phase 1 effort is to produce three documents:
 - Cloud Imaging Model and Requirements
 - Cloud Print Internet Printing Protocol Binding
 - Cloud Print SOAP Binding

Overview (cont)



- This is a major effort, taking longer than envisioned. It was therefore decided to precede this overall activity with a consideration of how current Cloud Printing implementations might better reflect PWG compatible semantics in the printer characteristics information and Job Ticket aspects.
- Therefore, the Cloud Imaging WG is also considering:
 - Applicability of the PWG Job Ticket and Printer Characterization elements, as derived from the current Semantic Model
 - Mapping Job Tickets and Printer Characterizations for Cloud Printing Services such as Google Cloud Print to the PWG Job Ticket and Printer Characterization elements.
- These considerations required a WG Charter change. The updated charter has been approved and is at:
 - <ftp://ftp.pwg.org/pub/pwg/cloud/charter/ch-cloud-charter-20120126.pdf>.

Intended and Potential Publications



- Documents Identified in Charter:
 - A PWG Best Practice document that includes:
 - mapping of PWG Print Job Ticket and PWG Print Service [PJT] to and from elements in the Microsoft Print Schema Specification [MSPS], Adobe Postscript Printer Description [PPD], and CIP4 Job Definition Format [JDF]; and
 - recommended common subset of job ticket elements for simple print use cases based on current Cloud Print implementations
 - Cloud Imaging Requirements and Model
 - Cloud Print Internet Printing Protocol Binding
 - Cloud Print SOAP Binding
 - Cloud Multifunction Internet Printing Protocol Binding
 - Cloud Multifunction SOAP Binding
- Cloud Imaging is also coordinating the PWG Job Ticket and Printer Characteristics specification with the SM Workgroup

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 February 20, 2012 at 1 pm (ET)
 - Conferences on opposite weeks of IPP WG calls

Liaison Status

- The AFP Consortium develops the Advanced Function Presentation architecture used primarily with mainframe computing:
 - <http://www.afpcinc.org/>
- Almost finished with a test mapping between media handling available in the AFP Consortium specified Intelligent Printer Data Stream (IPDS) and the PWG Media Standardized Names, to determine whether a full mapping between PWG Semantic Model and AFP Consortium IPDS is warranted to help them with integrating JDF support into their architecture and to determine whether IPDS encapsulated in IPP would be a viable option for them to consider as a mechanism to support their architectural deployment via Cloud.

- OpenICC has two main goals. The first goal is to work out a common set of settings for color savvy applications to share profiles and settings. The second goal is to bring together those developers in areas like printing, display and desktop applications to work together to make color management end to end work for open source applications.
- Basic color management based on PPD keywords is now in the major Linux distributions (“colord” support in CUPS, Ghostscript)
- A LOT of discussion on the openicc mailing list
 - Recently added “profile-name” member attribute to JPS3 “printer-icc-profiles” to allow for UI to show profiles/presets

- TCG/InfoWeek Webcast – 13 December 2-3pm EST
 - Showcased New TCG WGs – EmSys, TMI, and TMS
- Embedded Systems (EmSys)
 - Near-term focus
 - SmartGrid, Financial, Medical, Auto, Industrial Control
 - Define Embedded TPM and facilitate practical demos in 2012
- Trusted Mobility Solutions (TMS)
 - Near-term focus
 - Business-to-Consumer (trusted execution environments)
 - Dual-Use (user mobile phones in enterprise networks)
 - Define TM solutions and facilitate practical demos in 2012
- Next TCG Members Meeting – February 2012
- TCG Website
 - <http://www.trustedcomputinggroup.org/>

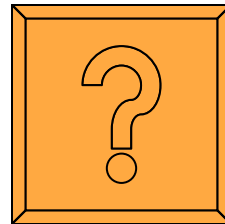
TCG Workgroups

- Trusted Mobility Solutions (TMS) – NEW
- Authentication
- Embedded Systems (EmSys)
- Infrastructure
- Mobile Phone (MPWG)
- PC Client
- Server Specific
- Storage
- Trusted Multi-tenant Infrastructure (TMI)
- Trusted Network Connect (TNC)
- Trusted Platform Module (TPM)
- TCG Software Stack (TSS)
- Virtualized Platform (VPWG)

USB IF - IPP over USB WG

- The IPP over USB project has been approved by the USB Forum Board
 - Also covers HTTP over USB
- Working group formation is in process
 - You must sign an IP agreement to join the WG
- Several vendors have signed
 - Still want more printer vendors to sign the IP agreement and join the WG

Other Questions / Comments



Next PWG Meetings

- April 24-27 in Cupertino, CA (hosted by Apple)
 - Joint PWG/Open Printing meeting
 - Final schedule will be posted ASAP

- June 5-7 in Webster, NY (hosted by Xerox)

- Thank you Canon for hosting this meeting!