

Printer Working Group

Plenary – April 17, 2008
Phoenix, AZ

Plenary Agenda



- Introductions
- Approve/Modify Agenda
- Approve Previous Plenary Minutes
- Review PWG Patent Policy
- F2F Meeting Agenda
- Future PWG F2F Meeting Schedule
- 2008 Membership (current status)
- PWG Financial Overview
- PWG Working Group Status
 - WIMS and DMTF/CIM
 - MFD (and SM)
 - IPP (IPP v2)
 - PDM (Projector and Display Management)
 - IDS (Imaging Device Security)
- PWG BoFs and Potential Future Items
- Plenary Adjourn

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. 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.
- 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.

F2F Meeting Agenda



- **Wed. 04/16**

- 8:00 AM 12:00 PM Imaging Device Security
- 12:00 PM 1:30 PM Lunch
- 1:30 PM 5:30 PM Projector and Display Management

- **Thurs. 04/17**

- 8:00 AM 12:00 PM IDS (session 2)
- 12:00 PM 1:30 PM Lunch
- 1:30 PM 4:30 PM IPP v2
- 4:30 PM 5:30 PM Plenary

- **Fri. 04/18**

- 8:00 AM 12:00 PM MFD model
- 12:00 PM 1:00 PM Lunch
- 1:00 PM 4:00 PM WIMS/CIM

Future PWG F2F Meeting Schedule



- **2008**

- **June** Boulder CO, (Longmont)
 - 23-24 P2600 Hardcopy Device and System Security (co-locate)
 - 25-27 PWG Meetings

- **August**

- Week of August 11-15, Portland OR (Hosted by Sharp)

- **October**

- Week of October 27-31, Europe TBD (co-located with Open Printing)

- **December**

- Week of December 2-5, Irvine CA (Hosted by Samsung)

- **2009**

- **February**

- 16-19 Marriott
69-275 Waikoloa Beach Drive
Waikoloa - Hawaii, Hawaii 96738 USA (ISTO Planned)

Next PWG F2F Meeting Details



- Dates: June 25-27, 2008
- Location:
Radisson Hotel and Conference Center Longmont-Boulder
1900 Ken Pratt Blvd., Longmont, CO 80501 USA
phone 303-774-7270
- Other:
There will be NO reserved room block.
The ISTO will set up a registration page.
Projected daily meeting fee of \$65.00

2008 Membership

(26 member companies)



- ✓ **366 Software**
 - ✓ **Apple Inc.**
 - **Boeing**
 - ✓ **Canon, Inc.**
 - ✓ **Coretronic**
 - ✓ **Dell**
 - ✓ **Epson**
 - ✓ **Fuji Xerox**
 - Hewlett-Packard
 - ✓ **Intermate A/S**
 - ✓ **Konica Minolta**
 - ✓ **Kyocera Corporation**
 - ✓ **Lexmark International**
 - ✓ **Microsoft**
 - ✓ **MPI Tech**
 - ✓ **NEC Display Solutions**
 - ✓ **Northlake Software, Inc**
 - ✓ **Oki Data**
 - Peerless Systems
 - Ricoh
 - ✓ **Samsung Electronics**
 - ✓ **Sharp Labs of America**
 - ✓ **Sigma-Tel**
 - ✓ **Toshiba**
 - Xerox Corporation
 - Zoran Imaging Division
- ✓ Indicates 2008 membership paid

PWG Working Group Status

PWG Plenary Status Report WIMS/CIM Working Group

Purpose of the effort



The WIMS working group is concerned with the management of imaging services and devices via the Web. The Objectives are:

- Continuing support and update of the protocols and specifications produced by the working group.
- Definition of new and the recasting of previously defined imaging device and service management elements into a web management compatible context.
- Continuing update and upgrade of the DMTF/CIM printing classes in anticipation of this forming the basis for imaging service and device management over the Web.
- Monitoring other standards activities relating to Web-base management of Imaging Systems

Work Items for the WG



- **What We're Doing**

- Providing a adequate Imaging Service/Device basis to whatever management by Web Services capability emerges.
- Update and Creation of DMTF/CIM Printing MOFs, as part of the work register agreement between the PWG and the DMTF and with the objective of ensuring printing management via a Web Services approach using CIM

- **What We're NOT Doing**

- We are no longer defining a Imaging management service or protocol.
- We are not involved in the extension or updating of Imaging Management protocols or protocols used for management, such as the Printer MIB over SNMP or the management aspects of IPP.
- The CIM Update effort seeks to include already defined management elements for inclusion in CIM, not to define new management elements.

Recent Accomplishments



- Imaging State & Counter has been approved as a PWG candidate Standard. (Many thanks to those who voted.. it had one of the highest participation rates of recent ballots.)
- The complete set of CIM change requests related to the Printer Devices have been approved by the DMTF CIM.

Next Steps



- With the CIM Printer Device update complete, prototyping of the MOFs will commence.
- The intention was to proceed with the CIM effort to:
 - Alert Indications
 - Counters.
 - Print Service,
 - Print Job,
 - Print Queue, etc.
- However, some WG members have suggested that “Counters” is useful, but not the other groups, and that a print “profile effort” is of greater import.
- This will be a discussion subject at the WIMS WG F2F

More Info/How to participate



- **We welcome more participation from member companies**
 - ❖ Element Selection
 - ❖ MOF Evaluation/Proofing
 - ❖ Change Request Generation
- **The group maintains a Web Page and separate WIKI pages for WIMS and for CIM update**
 - <http://www.pwg.org/wims/index.html>
 - <http://pwg-wiki.wikispaces.com/WIMS>
 - <http://pwg-wiki.wikispaces.com/WIMS-CIM>
- **Subscribe to the WIMS mailing list by sending an e-mail to majordomo@pwg.org with a blank subject line and a message:**
 - subscribe WIMS
- **WIMS holds periodic phone conferences, with dates, call numbers and agenda on PWG Google Calendar.**
<http://www.google.com/calendar/embed?src=istopwg%40gmail.com>

PWG Plenary Status Report MFD Working Group

April 17, 2007
Phoenix, AZ
PWG F2F Meeting

Purpose of the effort



The MFD working group is concerned with the modeling of Multifunction Devices. The Objectives are:

- Definition of a framework for the data model for the Services and subunits that comprise a Multifunction Device.
 - Began with PWG SM v1.0 (based on IPP Print Service)
 - Incorporated Printer MIB (covers device aspects)
 - Incorporated WIMS model extensions (generalizes framework)
- Definition of Print Service operations derived from IPP.
- Network Scan Service is current focus of the Working Group.
 - Use Cases and Requirements specification ready for formal PWG vote
 - Semantic Model and Service Interface specification is being actively worked. XML Schema and WSDL are tracking specification changes.
 - Objective is industry wide semantic alignment for Scan similar to what PWG SM v1 did for Print
- Other Services of Multifunction Devices will reuse semantics from Print and Scan whenever possible

Work Items for the WG



- What We're Doing
 - Initial focus is limited to Scan
 - Developing an XML Schema in parallel with the specification
 - Separating common information from service specific information
 - Reusing existing semantic whenever possible
 - We are delaying the definition of the other Services (e.g. Copy, FaxIn) until Scan is complete
- What We're NOT Doing
 - We are not defining complex services or work flow

Current Status



- Use Cases and Requirements ready for PWG formal vote.
- Semantic Model and Service Interface specification is progressing
- XML Schema and associated WSDL is closely tracking the progress made in the specification
- A protocol binding should follow

Next Steps/Schedule



- Work on specification of Scan objects, attributes, values, operations and parameters that meet defined requirements

More Info/How to participate



- The group maintains a Web Page and WIKI pages,
<http://www.pwg.org/mfd/>
<http://pwg-wiki.wikispaces.com/MFD>
- You can subscribe to the MFD mailing list by sending an e-mail to majordomo@pwg.org with a **blank subject line** and a message of:
subscribe MFD
- The group holds periodic phone conferences, with dates, call numbers and agenda listed on the PWG Google Calendar.
<http://www.google.com/calendar/render?cid=istopwg%40gmail.com>

PWG Plenary Status IPPs2 Working Group

Phoenix, AZ - PWG F2F Meeting
April 17, 2008

Goals



- There are currently multiple extensions to IPP version 1.1.
 - 7 approved IETF RFCs
 - 6 approved PWG ISTO standards
- Many IPP implementers are unaware of the existence of all these extensions.
- A new IPPv2 (or v2.0, 2.1, ..., 2.X) standard will bring attention to these extensions and encourage their adoption.
- No new extensions will be developed.

Participants



IPPV2 Working Group Officers.

- IPP WG Chairs:
 - Ron Bergman (Ricoh)
- IPP WG Secretary:
 - Craig Whittle (Sharp)
- IPP WG Document Editors:
 - Jerry Thrasher (Lexmark)

Other Participants: (on at least 2 conference calls)

Ira McDonald, Pete Zehler, Lee Farrell,
Dave Whitehead, Bill Wagner

Contributors: (not available for Conference Calls)

Mike Sweet, Ted Tronson, Norm Jacobs

Current Status



- Proposal from Mike Sweet (part 1)
 - Version 2.0 to include all 1.1 plus:
 - PWG 5100.1 "finishings" attribute extensions
 - PWG 5100.2 "output-bin" attribute extensions
 - PWG 5101.1 PWG Standard for Media Size Names
 - Version 2.1 to include all 2.0 plus:
 - RFC 3380 Job and Printer Set Operations
 - RFC 3381 Job Progress Attributes
 - RFC 3382 The 'collection' Attribute Syntax
 - RFC 3995 Event Notifications and Subscriptions
 - RFC 3996 'ippget' Delivery Method for Notifications
 - RFC 3998 Job and Printer Administrative Operations
 - PWG 5100.7 Job Extensions

Current Status



- Proposal from Mike Sweet (part 2)
 - Version 2.2 to include all of 2.1 plus:
 - PWG 5100.3 Production Printing Attributes, Set 1
 - PWG 5100.5 Document Object
 - PWG 5100.6 Page Overrides
 - PWG 5100.8 "-actual" Attributes

Current Status



- Have Consensus to Accept Mike's proposal
- Need to review the associated operations
 - Most of the operations are optional
 - In RFCs 3380 and 3998 all operations are optional
 - At least some should be required!
- Currently soliciting inputs

General



- Teleconferences are held bi-weekly at 11 am EDT
- The teleconference schedule:
 - May 1
 - May 15
 - May 29 (?)
 - June 12
 - June 26 (Face to Face meeting)
- Contact Information
 - Email distribution list ipp@pwg.org
 - To subscribe to the IPP mail list see:
<http://www.pwg.org/mailhelp.html>

PWG PDM WG Status (Projector & Display Management)

Rick Landau, Dell
PWG F2F Meeting
Phoenix, AZ
15-18 April 2008

Done with the Bulk of Development



- Preliminary draft of MIB completed
 - Defined in abstract XML, machine-translated to ASN.1
 - Defines approx 16 groups, 125 properties
 - 8 groups mandatory, 8 optional
- MIB embedded in PWG doc to define standard
 - Started with ISC MIB doc skeleton
 - Added approx 25 pages of explanatory text, some normative
 - A few sections remain, e.g., conformance
- PWG has assigned an OID arc to projectorDisplayMIB
 - `enterprises(1.3.6.1.4.1)`
 - `.pwg(2699)`
 - `.experimental(2)`
 - `.projectorDisplayMIB(4)`

Remaining to be Done



- Line-by-line review
 - Collect needed fixes in ToDo list (already started)
- Fix items in ToDo list
 - Edit XML, regenerate MIB, reintegrate with doc, compile
- Send out for public comment
 - InfoComm trade show: June, Las Vegas
 - CEDIA trade show: September, Denver
 - Consultants and magazines
 - Press release? Does PWG have a process?
 - Printed copies
 - PDFs (and MIB text) on CDs?
 - MIB Doctors

Future



- Collect comments from public review
- Revise, republish
- Proof points: prototype and early implementations, both client and service
- Publish PWG preliminary standard

PWG Plenary Status Imaging Device Security (IDS) Working Group

Phoenix, AZ - PWG F2F Meeting
April 17, 2008

Purpose of the effort



- The industry is moving beyond basic authentication for access to corporate networks to a fairly detailed assessment of the device that is connecting before being allowed to access the network.
 - Examples of what's being measured for PC Clients:
 - OS Type, Version, Patch Level
 - Anti-virus Type, Version, Definition Level, Is Active
- Hardcopy Devices attach to networks, but there's no standard set of metrics that is used to assess an HCD.
- Our Goal is to provide these metrics!!!

Work Items for the WG



- What We're Doing
 - Defining a standard set of metrics that might be measured or assessed in Hardcopy Devices to gauge if they should be given access to a network
 - Defining example "bindings" for how these metrics are used in the individual network assessment protocols.
- What We're NOT Doing
 - We are NOT defining any new assessment protocols or assessment extensions to existing authentication protocols.
 - We are NOT endorsing any of the competing network assessment protocols (TNC, NAC, NAP), but plan to enable Hardcopy Devices to participate in any/all of them.

Working Group Officers



IDS WG Chairs:

- Peter Cybuck (Sharp),
- Ron Bergman (Ricoh)

• IDS WG Secretary:

- Lee Farrell (Canon)

• IDS WG Document Editors:

- Jerry Thrasher (Lexmark),
- Ron Nevo (Sharp)

Status



- Review of Network Assessment Protocols
 - Cisco NAC (Network Access Control)
 - TCG TNC (Trusted Network Connect)
 - Microsoft NAP (Network Access Protection)
 - IETF NEA (Network Endpoint Assessment)

- Current effort is to generate a set of assessment attributes applicable to Imaging Devices.

Schedule



- Q1 2008: Initial education and Study
 - Specific Network Assessment Protocols
 - Develop Use Cases and Requirements
- Q2 2008: Draft Proposals
 - Required Minimal Attribute Set
 - Extended Attribute Set
- Q3 2008: Standard Finalization
- Q3 2008: Draft Bindings
- Q4 2008: Finalization of Bindings

General



- Teleconferences are held bi-weekly at 1 pm EDT
- The teleconference schedule:
 - April 24
 - May 8
 - May 22 (?)
 - June 5
 - June 19
 - June 26 (Face to Face meeting)
- Contact Information
 - Email distribution list ids@pwg.org
 - To subscribe to the IPP mail list see:
<http://www.pwg.org/mailhelp.html>

PWG BoFs and Potential Future Items



- Potential projects being discussed
 1. Vendor Private/Enterprise MIB repository
 - Provide a managed directory (or web site) for vendors to include information about their private MIB(s).
 2. Best Practices for implementing the IEEE 1284 Device ID String
 - Standardization of the keywords that are used in the 1284 string such that they can be programmatically parsed more effectively.
- Other Items
 1. Web 2.0 Widgets and how they might apply to Hardcopy Devices (Randy Turner)

Questions/Discussion?



Plenary Adjourned!