

# Printer Working Group

Plenary – December 11, 2007  
Austin, TX  
(Hosted by Dell)

# Plenary Agenda

---



- Introductions
- Approve/Modify Agenda
- Approve Previous Plenary Minutes
- Review PWG Patent Policy
- F2F Meeting Agenda
- Future PWG F2F Meeting Schedule
- Membership (2007)
- 2008 Membership (projected)
- PWG Financial Overview
- PWG Working Group Status
  - WIMS (and DMTF/CIM)
  - PDM (Projector and Display Management)
  - MFD (and SM)
  - PMP (MFD Alerts)
- Steering Committee Report
  - Potential Future Work Items/BoFs
- 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



---

## • **Tues. 12/11**

- |            |          |             |
|------------|----------|-------------|
| • 9:00 AM  | 12:00 PM | MFD WG      |
| • 12:00 PM | 1:30 PM  | Lunch       |
| • 1:30 PM  | 4:00 PM  | MFD WG      |
| • 4:00 PM  | 5:00 PM  | PWG Plenary |

## • **Wed. 12/12**

- |            |          |  |
|------------|----------|--|
| • 9:00 AM  | 11:00 AM | WIMS WG and DMTF/CIM Alignment                                     |
| • 11:00 AM | 12:00 PM | PDM Status Update  |
| • 12:00 PM | 1:30 PM  | Lunch  |
| • 1:30 PM  | 2:30 PM  | WIMS (Counter Spec.)   |
| • 2:30 PM  | 4:00 PM  | PWG IP Policy and Copyright Policy working session                 |
| • 4:00 PM  | 5:30 PM  | Printer MIB, MFD Alerts IPP<br>Printer State Reasons<br>Extensions |

# Future PWG F2F Meeting Schedule

---



- **2008**
  - February**                      Orange County, CA (hosted by Canon)
    - 5-6:                      P2600 Hardcopy Device and System Security (co-locate)
    - 7-8:                      PWG Meetings
  - April**                              Phoenix, AZ (ISTO Planned)
    - 14-15:                    P2600 Hardcopy Device and System Security (co-locate)
    - 16-18:                    PWG Meetings
  - June**                              Denver or Boulder (hosted by InfoPrint)
    - Week of June 23-27, (co-located with P2600)
  - August**
    - Week of August 11, (tentatively Portland OR, Hosted by Sharp)
  - October**
    - Week of October 27, TBD (co-located with Linux Foundation Open Printing)
  - December**
    - Week of December 15, TBD

# PWG Membership (2007)

(27 member companies)



- 
- 366 Software
  - Apple Inc.
  - Canon, Inc.
  - Coretronic
  - Dell
  - Easy Software Products
  - Epson
  - Fuji Xerox
  - Hewlett-Packard
  - InfoPrint Solutions
  - 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

# 2008 Membership (projected)

(25 member companies)



- 366 Software
- Apple Inc.
- Canon, Inc.
- Coretronic
- ✓ **Dell**
- Easy Software Products
- ✓ **Epson**
- ✓ **Fuji Xerox**
- Hewlett-Packard
- InfoPrint Solutions
- 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

Note: Easy Software Products now owned by Apple,  
InfoPrint Solutions now a Ricoh subsidiary,

✓ Indicates 2008 membership paid

# PWG Working Group Status

# PWG Plenary Status Report WIMS/CIM Working Group

December 11, 2007  
Austin, TX PWG F2F Meeting

# 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**

- Prototype and prototype evaluation of the Imaging State & Counter MIB in preparation for submission to the PWG for elevation to Candidate Standard
- Continuing Update 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
- Providing information to include a management perspective in the Semantic Model effort.

- **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.

# Current Status

---



- The Imaging State & Counter MIB prototyping effort is complete. The experiences are being evaluated to determine whether and what document change is desirable.
- The CIM Update effort with regard to “Printer” has just a few more minor things to be done and should be complete in February, in time for inclusion in the DMTF MOF version 2.19.

# Next Steps/Schedule

---



- It is anticipated that only minor editorial changes will be needed to the Imaging State & Counter MIB. These edits will be made and the document submitted for PWG last Call in January and vote for Candidate Standard in February/March.
- With the CIM Printer Device update complete, prototyping of the MOFs will commence.
- The CIM updated effort will proceed to Counters. This should be followed Print Service, Print Job, Print Queue, etc. As with CIM Printer, the objective will be to select the most necessary management elements from the various standard MIBs and IPP, not to create new elements.

# 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](mailto: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/render?cid=istopwg%40gmail.com>



---

# PWG Projector & Display Management (PDM) Working Group

PWG F2F Meeting  
December 2007  
Austin, TX

# Goals

---



- Develop a data model for the management data of video projectors and video displays
  - Management = Is it healthy? Capabilities? Is it on? Turn it off. Current settings? Adjust settings for usage model.
    - NOT deliver data
  - Projectors = Installed projectors from small conference room to theater
    - NOT low-end, personal, carry-around
  - Displays = Large, (semi-)permanently mounted displays, digital signage, wall, kiosk, up to jumbotron
    - NOT desktop monitors

# Working Method

---



- Define abstract data model
  - Using abstract language template in XML
- Generate usable SNMP MIB first
- Provide consistent naming, datatypes, semantics for other access points: embedded web server, serial, CIM MOF

# Participation

---



- Active companies
  - Canon (& PWG): Lee Farrell
  - Coretronic (Optoma): Vincent Chen
  - **Crestron: Dan Jackson**
  - Dell: Rick Landau, Nick D'Alessio, Vincent Ng
  - Delta Electronics: Jason Tsai, Josephine Lee
  - Epson: Hiroyuki Hashimoto
  - NEC: Koichi Ara
  - SpinozaTechnology: Randy Massengale, Devin Fujimoto
  - Symon Communications: Raymond Rogers
- Still recruiting
  - Need especially display companies and software/controls companies

# Current State

---



- Concentrate on power control, health and status, very basic video and audio controls, a few capabilities, alerts
- Approx fifteen (15) groups defined, working on several others
- **Current MIB draft compilable**
  - Missing a few groups and a few properties

# Documents

---



- FTP area on <ftp.pwg.org/pub/pwg/pdm>
  - Group and property definitions
  - Current MIB drafts
  - Zip archives of files used to build MIB
- PDM@PWG email reflector
- Wiki page: <http://pwg-wiki.wikispaces.com/PDM>

# Roadmap

---



- MIB draft final late Q1 CY2008
- Send out for public comment period
  - Expect some revisions, additions as a result
- Look for prototype implementations
- Candidate H2

# PWG Plenary Status Report MFD Working Group

December 11, 2007  
Austin, TX 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.
- Scan Service is current focus of the Working Group.
  - Requirements near complete
  - Straw man proposal for Scan Service operations and data model is available
  - Objective is 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

---



- Scan Requirements near completion.
- Next round of discussions will flesh out the objects, attributes, values, operations and parameters (straw man proposal available)
- 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](mailto: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>

# MFD ALERTS

PWG Plenary – December 11, 2007

# The Problem to Solve

---



- I have utilities to manage printers
  - My utilities use SNMP and ...
  - ... the Printer MIB Alert Table.
- Multifunction devices are shipping
  - I want to use ...
  - ... existing utilities to support MFDs
  - ... and minimize modifications to these utilities.

# Project History

---



- Project Proposal
  - January 19, 2006
- First Draft Document
  - May 22, 2006
- Latest Draft Document
  - March 13, 2007
  - Status: Prototype
- Next Step
  - Need one or more prototypes to advance to Candidate Standard.

# For More Information

---



- The current specification is at:  
<ftp://ftp.pwg.org/pub/pwg/pmp/wd/wd-mfp-alert-groups10-20070313.pdf>
- PMP Web Page:  
<http://www.pwg.org/mib/index.html>
- PMP mailing list  
[pmp@pwg.org](mailto:pmp@pwg.org)
- To subscribe to the PMP mail list see:  
<http://www.pwg.org/mailhelp.html>

# PWG Steering Committee Report

---



- PWG Intellectual Property Statement Update
  - Don't plan on changing the intent, but the language in the PWG Process 2.0 document is out of date in relation to current practices for industry groups such as the PWG.
- PWG Copyright Statement Clarification
  - While the PWG does not own any specific IP, the output of the PWG Working Groups (Standards, Candidate Standards, schemas, MIBs, etc.) are subject to copyright protection and acknowledgement.
  - The PWG strongly encourages the use of PWG Standards, Candidate Standards, and other works by PWG members and others.
  - However...occasionally the "value" or relevance of the PWG is called into question...if the PWG had been acknowledged for all the work that has been used for other derivative specifications and standards, this question would likely never be raised!!

# PWG Steering Committee Report contd.



- PWG Copyright Notice:
  - Please note that the pages on the Site may contain other proprietary notices and copyright information, the terms of which must be observed and followed.
  - Unless otherwise noted, all information, text, articles, data, images, documents, software or other materials (collectively hereinafter referred to as the "Materials") contained on any page or directory within this Site are copyrighted by the Printer Working Group or a third party (hereinafter collectively referred to as the "Copyright Holder"). Title to copyright in the Materials will at all times remain with the Copyright Holder. You may only use, download or copy the Materials contained in the Site in accordance with the following Terms and Conditions.
  - Any copies of the Materials must retain the copyright notice, and any other proprietary notices contained in such Materials.
  - You may edit, modify or make use of the Materials on this site as long as an acknowledgement of the original Copyright Holder is maintained with the derivative work.
  - Nothing on this Site shall be construed as conferring any license under any Copyright Holder's intellectual property rights, whether by estoppel, implication or otherwise.

# PWG Steering Committee Report contd.

---



- 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.
  3. Internet Printing Protocol (IPP) v2.0
    - Create a standard that extends the current IPP v1.1 standards to include some of the many currently optional, but highly desirable IPP extensions.
- Other Items
  1. Request from TCG/HCWG for a work effort to define attributes for Network Access Control.

Questions/Discussion?



Thanks to Dell for hosting the meetings this week  
and to Rick Landau for the logistics planning!!

Plenary Adjourned!