Printer Working Group

Plenary – February 7, 2008
Irvine, CA
(Hosted by Canon)

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 (Counter Spec. Last Call)
  - WIMS and DMTF/CIM
  - MFD (and SM)
  - PMP (MFD Alerts)
  - PDM (Projector and Display Management)
- PWG Imaging Device Security WG Charter
- 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.

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F2F Meeting Agenda

- ## Thur. 02/07
  - 9:00 AM   12:00 PM   PWG IP Policy
  - 12:00 PM   1:00 PM   Lunch
  - 1:00 PM   1:30 PM   IPP 2.0 BoF
  - 1:30 PM   3:00 PM   PWG Plenary
  - 3:00 PM   5:00 PM   MFD WG

- ## Fri. 02/08
  - 9:00 AM   12:00 PM   MFD WG
  - 12:00 PM   1:30 PM   Lunch
  - 1:30 PM   3:30 PM   WIMS and DMTF CIM

Future PWG F2F Meeting Schedule

- ## 2008

  - **April**   Mesa, AZ (ISTO Planned)
    - 14-15:   P2600 Hardcopy Device and System Security (co-locate)
    - 16-18:   PWG Meetings

  - **June** Denver or Boulder (hosted by InfoPrint)
    - 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

  - **Jan/Feb**   Big Island or Maui, HI (ISTO Planned)

2008 Membership
(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

WIMS Working Group
Counter MIB Last Call Review

ftp://ftp.pwg.org/pub/pwg/wims/white/wims-
countmib20-pwg-last-call-20080207.pdf

PWG Plenary Status Report
WIMS/CIM Working Group

February 7, 2008
Irvine, CA 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:
Imaging State & Counter MIB

- Ira has run though the changes made to the document on the basis of the prototype effort and WIMS WG review.
- The Last Call period will end on 14 Feb. Comments will have been addressed as they are received.
- It is anticipated that the SC will approve putting the document up for ballot and that a formal approval process will be complete by mid March.
- PWG members may vote:
  - **YES** – MAY be accompanied by editorial comments
  - **ABSTAIN** – comments WILL NOT be considered
  - **NO** without Strong Opposition – MUST be accompanied by explanation of technical opposition
  - **NO** with Strong Opposition – MUST be accompanied by explanation of technical opposition
- If there are objections, I request that they be brought up in last call so that they can be efficiently dealt with.

Current Status:
CIM Printing Update effort

- The CIM Update effort with regard to "Printer" is just about done.

- Updates CRs for CIM_PrintMarker and CIM_Printer and were submitted to CIM Core on 31 January.

- Ira has completed the following MOFs. Corresponding CRs still need to be generated and submitted.
  - CIM_PrinterComponent.mof
  - CIM_PrinterElement.mof
  - CIM_PrintFinisher.mof
  - CIM_PrintSupply.mof
  - CIM_PrintInputTray.mof
  - CIM_PrintOutputTray.mof

Current Status: CIM Printing Update effort

- This completes the cleanup of the Print Device (CIM_Printer) and all of its components (CIM_Marker, etc.). The Printer MIB (RFC 3805) and Finisher MIB (RFC 3806) are now fully modeled in DMTF CIM classes.

- However, help is needed to create the final CRs. Some illustrative material is provided in:

ftp://ftp.pwg.org/pub/pwg/wims/cim/CIM_training_materials_01.doc

Next Steps

- With the CIM Printer Device update complete, prototyping of the MOFs will commence.

- The CIM updated effort will proceed to Alert Indications, and then 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 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

February 7, 2008
Irvine, CA PWG F2F Meeting

Purpose of the effort

The MFD 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.
- The Service currently being addressed is the Scan Service.
  - The Print Service has already been addressed
- The definition of a framework for the complete model is an objective.

Current Status:
Scan Service

- Requirement and Use Cases near completion.

- Detailed discussion on Scan Service Model and semantics continues

- Schema and WSDL files are being continuously updated to match the developing abstract model.

- Please send any comments to the mfd@pwg.org list.

Next Steps

- Finalize Requirements and Use case document.
- Work out remaining issues for the Scan Service Model Document.

More Info/How to participate

➢ **We welcome more participation from member companies**

➢ **The group maintains a Web Page for MFD including a browsable schema**

> http://www.pwg.org/mfd/index.html
>
> http://www.pwg.org/mfd/navigate/Smrev108a_Server.html

➢ **The Latest Schema and WSDL files are available at**

> ftp://ftp.pwg.org/pub/pwg/mfd/schemas/PWG-SM2-Latest.zip

➢ **The Requirements and Use Case document is available at at**

> ftp://ftp.pwg.org/pub/pwg/mfd/wd/wd-mfdscanreq10-20080131.pdf

➢ **The Model document is available at at**

> ftp://ftp.pwg.org/pub/pwg/mfd/wd/wd-mfdscanmodel10-20080131.pdf

More Info/How to participate

➢ **We welcome more participation from member companies**

➢ **The group maintains a Web Page for MFD including a browsable schema**

   http://www.pwg.org/mfd/index.html

   http://www.pwg.org/mfd/navigate/Smrev108a_Server.html

➢ **Subscribe to the MFD mailing list by sending an e-mail to majordomo@pwg.org with a blank subject line and a message:**

   subscribe MFD

➢ **MFD holds periodic phone conferences, with dates, call numbers and agenda on PWG Google Calendar.**

   http://www.google.com/calendar/embed?src=istopwg%40gmail.com

MFD ALERTS

PWG Plenary – February 7, 2008

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

- To subscribe to the PMP mail list see:

  http://www.pwg.org/mailhelp.html

PWG Plenary Status Report
PDM Working Group

Goes Here

PWG Imaging Device Security WG Charter

IDS WG Charter Background

- At the December 2007 Plenary, a request to the PWG from the Trusted Computing Group Hardcopy WG was made to consider starting a project to define a set of security attributes for Hardcopy Devices that can be used in Network Assessment protocols.

- The PWG membership at the meeting unanimously approved a motion to direct the Steering Committee to start the process of setting up a project or working group to complete this request.

- The Steering Committee drafted a charter for a new Imaging Device Security WG to complete this work.
  - ftp://ftp.pwg.org/pub/pwg/BOFs/ids/wd-ids-charter-20080118.pdf
- The draft charter is has been out for Last Call review since Jan. 18.

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.

Proposed IDS WG Objectives

- **OBJ-1.** Define a minimal required set of attributes that can be used to assess a Hardcopy Device's "fitness" to attach to a network.

- **OBJ-2.** Define an extended set of attributes for Hardcopy Devices that may include device configuration attributes to be used for print administrator policy enforcement.

- **OBJ-3.** Define a set of example bindings to the leading network assessment protocols. These may include Cisco's Network Access Control (NAC), Microsoft's Network Access Protection (NAP), the IETF's Network Endpoint Assessment (NEA), and the Trusted Computing Group's Trusted Network Connect (TNC); as well as other network assessment protocols.

Proposed IDS WG Milestones

- **Charter Stage:**
    - CH-1. DONE – Initial working draft of IDS WG charter – Jan. 2008
    - CH-2. DONE – Interim/Stable working draft of IDS WG charter – Jan. 2008
    - CH-3. TBD – PWG approval of IDS WG charter – Feb. 2008
- **Definition Stage:**
    - USE-1. Initial education on the specific network assessment protocols and development of use cases and requirements. – Q1 2008
    - ATTRIB-1. Development of draft proposals for attributes to be included in the required minimal set to be measured. – Q2 2008
    - ATTRIB-2. Development of draft proposals for attributes to be included in the extended set(s) of attributes. – Q2 2008
    - ATTRIB-3. Finalization of the standardized set of attributes for Hardcopy Devices – Q3 2008
    - BIND-1. Development of the draft bindings of the Hardcopy Device attributes to the network assessment protocols. – Q3 2008

Proposed IDS WG Info.

- Chair(s)
  - Peter Cybuck (Sharp) and Ron Bergman (Ricoh)
- Secretary
  - Lee Farrell (Canon)
- Editors
  - Brian Smithson (Ricoh), Ron Nevo (Sharp)

- Mailing list:
  - ids@pwg.org

IDS WG Charter Approval

- Motion:
  - That the Printer Working Group approve the charter proposal: ftp://ftp.pwg.org/pub/pwg/BOFs/ids/wd-ids-charter-20080118.pdf, to create a new Imaging Device Security Working Group.

  - Moved by: Jerry Thrasher
  - Seconded by:

IDS WG Next Steps (if charter is approved)

- Regular Conference Call Day/Time/Duration/Frequency

- First Call Date/Time

- First set of work items.
  - Education of the different assessment protocols
  - Decide which protocol stack layers are most appropriate for Hardcopy Devices.

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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 me programmatically parsed more effectively.

- ## Other Items
  1. Web 2.0 Widgets and how they might apply to Hardcopy Devices (Randy Turner)

Questions/Discussion?

Thanks to Canon for hosting the meetings this week and to Lee Farrell for the logistics planning!!

Plenary Adjourned!