Printer Working Group

Plenary – June 24, 2009
Webster, NY

Plenary Agenda

- Introductions
- Approve/Modify Agenda
- Approve Previous Plenary Minutes
- Review PWG Patent Policy
- F2F Meeting Agenda
- Future PWG F2F Meeting Schedule
- 2009 Meeting Dates/Location/Hosts
- 2009 Membership (current status)
- PWG Financial Overview
- PWG Working Group Status
    - WIMS and DMTF/CIM
    - MFD (and SM)
    - IPP (IPP v2)
    - IDS (Imaging Device Security)
        - IDS Attributes in the MFD/Semantic Model
    - PDM
- PWG Officers (September 2009 Elections)
- 2010 Meeting Plan (initial discussion)
- 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. 06/23**
  - 9:00 AM   11:30 AM   IDS
  - 11:30 AM   1:00 PM   Lunch
  - 1:00 PM   4:00 PM   IDS WG
- **Wed. 06/24**
  - 9:00 AM   10:00 AM   WIMS/CIM
  - 10:00 AM   11:30 AM   IPP 2.0
  - 11:30 AM   1:00 PM   Lunch
  - 1:00 PM   2:00 PM   Plenary
  - 2:00 PM   4:00 PM   MFD WG
- **Thurs. 06/25**
  - 9:00 AM   11:30 AM   MFD WG
  - 11:30 AM   1:00 PM   Lunch
  - 1:00 PM   ~3:00 PM   MFD WG

Next PWG F2F Meeting

- **August**
  - 18-20,   Redmond WA (Microsoft Campus)

  - Building and Conference Room (tbd)

- **2009**
    - October 13-15 Boulder CO (hosted by InfoPrint)
    - December 8-10 Austin TX (hosted by Dell)

- **2010**
    - See agenda topic

2009 Membership
(as of 6/11/2009)

- ✓ **366 Software** ❖
- ✓ **Apple Inc.** ❖
- ✓ **Canon, Inc.** ❖
- ✓ **Coretronic**
- ✓ **Dell** ❖
- • **Epson**
- ✓ **Fuji Xerox Co. Ltd.** ❖
- ✓ **Hewlett-Packard** ❖
- ✕ **Intermate A/S (Kodak)**
- ✓ **InfoPrint Solutions** ❖
- • **Konica Minolta**
- ✓ **Kyocera Corporation** ❖
- ✓ **Lexmark International** ❖
- ✓ **Microsoft** ❖
- ✓ **MPI Tech** ❖

- ✓ **MWA Intelligence Inc.** ❖
- ✓ **NEC Display Solutions** ❖
- ✓ **Northlake Software, Inc** ❖
- ✓ **Oki Data** ❖
- ✕ **Ricoh**
- ✓ **Samsung Electronics** ❖
- ✓ **Sharp Labs of America** ❖
- ✕ **Sigma-Tel=>Conexant**
- ✓ **Toshiba** ❖
- ✓ **Xerox Corporation** ❖
- ✓ **Zoran Imaging Division** ❖
- ✓ **Tykodi Consulting Services LLC.** ❖
- ✓ **Technical Interface Consulting** ❖

✓ Indicates 2009 membership paid
❖ Indicates Membership Agreement Signed

PWG Financial Summary

As of 05/31/2009

- Total Assets = $ 120,894.11

- YTD ISTO Fees = $ 5,500.00

- YTD Teleconference Costs = $ 2,538.91

- YTD Total Expenses = $ 13,906.57

PWG Working Group Status

PWG Plenary Status Report
Workgroup for Imaging Management Solutions

Printer Working Group
Face-to-Face Meeting
June 24,2009
Webster, NY

Purpose of the effort

- **The WIMS working group is concerned with:**
  - Supporting the remote management of Hardcopy Imaging devices by the definition of new and the recasting of previously-defined imaging device and service management elements for mapping into standard management semantics and protocols, including but not limited to SNMP, CIM, and Web Services Management
  - Continuing update and extension of the DMTF/CIM classes concerned with Imaging Devices and Services.
  - Continuing support and update of the printer-related PWG and IETF published MIB documents
  - Continuing support and update of the specifications produced by the former PWG MIB Working Group (PMP) as well as by the PWG WIMS Working Group.

Work Items for the WG

- **What We're Doing**
  - Supporting the existing IETF and PWG Printer and related MIB documents, including the potential advancement, extension and expansion of these specifications.
  - 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 protocols and methods.
  - Update, Create and Prototype DMTF/CIM Imaging MOFs, with the objective of ensuring Hardcopy Device and Service management via a Web Services approach that is consistent with the basic public management elements structure

- **What We're NOT Doing**
  - We are not addressing the delivery of Hardcopy services.
  - We are not specifically concerned with security issues related to Hardcopy Devices or Services, although management must recognize and accommodate the requirements and constraints demanded by security.
  - We are not defining a management service or protocol.

Current Activities

- Rick Landau has completed the Printer Proxy CIM Provider code and has posted the code and documentation package on:
  - ftp://ftp.pwg.org/pub/pwg/wims/cim/DellPrinterProviderProxyPrototype_README.txt
  - ftp://ftp.pwg.org/pub/pwg/wims/cim/DellPrinterProviderProxyPrototype_v10.zip
- Rick is interested in feedback on user's experiences with the package
  - problems in running the package or bugs in the code
  - difficulty following the code or making customizations.
- It is hoped that any modifications or additions made to the code to improve usability or functionality will also be made publically available.
- Rick will attend the August Face-to-face and is prepared to provide a full presentation of the Proxy Provider functionality and code package.

Current Activities

- CIM Activity
  - CIM Print Services: no new activity
  - Update of CIM Printer: Some cleanup issues remain

- Imaging Power Management Project
  - Ira has volunteered to be Technical Head of project
  - Although the immediate interest may be a MIB, the purpose of the project must be to define elements in an abstract way that is compatible with all of the likely management mechanisms.
  - The abstract spec must be validated by prototyping an appropriate binding (a MIB in this case) before the abstract spec is submitted for advancement to Candidate Standard.
  - Ira generated a Project Charter (which has been submitted to the SC)

Potential MIB Activities

- **Printer Port Monitor MIB**
  - ➢ update spec
  - ➢ interoperability testing ?
  - ➢ advance PPM to PWG standard ?
- **Identify Printer MIB Problems**
  - ➢ MIB will be basis for future WS management. Therefore, MIB problems will delay development and/or restrict effectiveness of WS Imaging Management utilities.
  - ➢ Users and Fleet Management Agencies both need to understand some of MIB implementation variations, and should have some place to voice the questions.
- **MFD MIB or MIB extensions?**
  - ➢ Many attempts, of varying completeness, started in the past, especially MFD Alerts.
  - ➢ MFD group is addressing service semantics; need to address management elements

Next Steps

- Proceed with the CIM effort to Print Service.
- Initiation of Hardcopy Imaging Device Power Management project.
- CIM Printer Profile
- Attempt at increased contact with user community understand needs and identify real use cases.

More Info/How to participate

➢ We welcome more participation from member companies and input from user community

➢ 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

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

➢ WIMS holds periodic phone conferences. 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

June, 2009

Webster, NY 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.
- Currently being addressed are an overall MFD specificationand the FaxOut Service.
  - The Print, Scan and Resource Services have been completed
- The definition of a framework for the complete model is an objective.

Resource Service Vote Results:

(Still in progress)

24 eligible members for vote

- 1 Yes votes
- 0 No votes
- 0 Abstain

Formal Approval requires

- At least 25% of eligible members vote (6) – **has not been met**
- YES votes by at least 66% of votes (excluding abstentions) with no Strong Opposition (1) –**has been met**
- YES votes by at least 80% of votes (excluding abstentions) with Strong Opposition – **does not apply**
- At least 50% of votes (including abstentions) are YES (1). – **has been met**

Current document Status:

Scan Service:

- Requirement and Use Cases complete.
- Scan Service Semantic Model and Service Interface complete

Resource Service:

- Resource Service Semantic Model and Service Interface is in PWG Formal Vote

Current Document Status:

Overall MFD specification:

- Actively working interim draft, Priority raised.

FaxOut Service:

- Reworked to depend on MFD specification, about to resume Actively working interim draft

Current Schema Status:

- Schema and WSDL files have been updated to match the abstract model.

Current Status:
Remaining Services

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

Next Steps

- Complete PWG Formal Vote and publish Resource Service Semantic Model and Service Interface specification.

- Work to complete the MFD specification.
  - Delay PWG wide Last Call and Formal Vote until at least one service normatively dependant on this specification reaches Last Call status

- Resume FaxOut work using normative dependencies on MFD specification

- Begin high level discussions of a Copy Service and get a straw man proposal drafted as a starting point for a working draft

More Info/How to participate

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

➢ **The group maintains a Web Page for MFD That includes links to the latest documents, schema and a browsable version of the schema**

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

➢ **Subscribe to the MFD mailing list:**

  • http://www.pwg.org/mailhelp.html

More Info/How to participate

➢ **MFD holds periodic phone conferences, with dates, call numbers and agenda announced on the mail list and available on the PWG Google Calendar.**

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

PWG Plenary Status Report
IPP Working Group

24 June 2009

Rochester, NY - PWG F2F Meeting

IPP WG Officers

- IPP WG Chair:
  Paul Tykodi (TCS)

- IPP WG Secretary:
  Craig Whittle (Sharp)

- IPP WG Document Editors:
  Mike Sweet (Apple) – IPP/2.0
  Ira McDonald (High North) – IPP/2.0 and PSX
  Tom Hastings (Xerox) – IPP PP Set2

IPP WG Current Status

- IPP/2.0
  - Status is Stable Draft – defines IPP/2.0 and IPP/2.1
  - PWG Last Call ended 4 May 2009
  - Implemented in CUPS/1.4
  - Current document is 2 June 2009
    - ftp://ftp.pwg.org/pub/pwg/ipp/ippv2-wd/lcrc-ipp20-20090602.pdf

- IPP Printer State Reasons Extensions (PSX)
  - Status is Stable Draft – defines IPP/Printer MIB mapping
  - PWG Last Call ended 4 May 2009
  - Implemented in CUPS/1.3
  - Current document is 3 June 2009
    - ftp://ftp.pwg.org/pub/pwg/ipp/wd/lcrc-ippstate10-20090603.pdf

IPP WG Next Steps

- IPP/2.0 First Edition
  - Review changes from PWG Last Call at June F2F
  - PWG Formal Vote as Candidate Standard

- IPP Printer State Reasons Extensions (PSX)
  - Review changes from PWG Last Call at June F2F
  - PWG Formal Vote as Candidate Standard

- IPP Production Printing Set2 – for IPP/2.2
  - Interim Draft for review at August PWG F2F

- IPP/2.0 Second Edition
  - Initial draft for Q4 2009 – define IPP/2.2 (production)
  - Include *all* IETF and PWG IPP extension specs
  - Clarifications to First Edition and interoperability testing

IPP WG Info / Participation

- 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
    http://www.pwg.org/mailhelp.html
- IPP WG holds bi-weekly phone conferences announced on the IPP mailing list

PWG Plenary Status Report
IDS Working Group

June, 2009

Rochester, NY PWG F2F Meeting

Ron Nevo(Sharp), Dave Whitehead, (Lexmark)

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!!!

Purpose of the effort

- The IDS working group is chartered to enable Hardcopy Device support in the Network Assessment Protocols that measure and assess the health of client computers and other devices that are attached to enterprise class networks.

- The group will define a set of common assessment attributes for Hardcopy Devices and will liaison with the specific Network Assessment Protocol efforts to include Hardcopy Device support in these protocols where necessary. In the future, the IDS WG charter may be revised to allow the working group to deal with other types of Imaging Devices (Network Projectors, Displays, etc.) in the Network Assessment Protocols or other security related work items.

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.
  - Target for now are NAP and NEA.
  - 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.

Administration

- ## IDS WG Chairs:
  - Ron Nevo(Sharp), Dave Whitehead, (Lexmark)

- ## IDS WG Secretary:
  - Lee Farrell (Canon)

- ## IDS WG Document Editors:
  - Jerry Thrasher (Lexmark), Brian Smithson (Ricoh)

Current Status

- HCD Assessments Attributes document was developed and is currently in last call.

- HCD-NAP Binding Document under development.
  - Complete in Q2 2009.

- HCD-NEA Binding Document just starting.
  - Target completion date of Q3 2009.

- Discussions with assessment protocol designers (Microsoft/NEA) to finalize and endorse the IDS Binding documents.

Next Steps

- Address last call comments on attributes specification.
- Progress attributes specification last call process to final, approved version 1.0.
- Meeting with Microsoft NAP group- in Redmond 8/2009
- Finish NAP binding specification – (Q2 2009)
- Begin NEA binding specification
- Seek approval/adoption w.r.t. assessment protocol vendors.
- Possible interop (?)
- Address remediation issues.

Other Information

- Conference Calls
  - In general, every other Thursday 1:00-2:00 PM Eastern time.
  - Check Google calendar (link at www.pwg.org)

- Mailing list: ids@pwg.org

- IDS documents on ftp site
  - ftp.pwg.org/pub/pwg/ids
  - Current:
    - Attributes document: /wd/wd-idsattributes10-20090415.pdf
    - NAP binding : /wd/wd-ids-napsoh10-20090212.pdf
    - NEA binding : TBD

PDM WG Status

Rick Landau, Dell

Projector & Display Management WG

June 2009

PDM WG Status

- WG is idle, several members have gone silent
- Several pieces of work remain to be done
  - Minor ones
    - Fix the root OID of the published MIB: currently enterprises.pwg.1…, update to enterprises.pwg.2…
    - Fix a few typos and vague wording in property descriptions
    - Add a few missing properties
      - Will be careful not to disturb existing OID assignments
  - Major ones
    - Define traps
    - Define set of alert conditions
- Will complete minor ones, no assistance needed
- Will try to reconvene group to define alerts

PWG Officers for the next 2 year term

- Current terms for the Chair, Vice-Chair and Secretary expire in September 2009.

- The PWG needs candidates for these offices.

- There are at least two current officers that will not be able to continue as a PWG officer for the next term.

- If we don't fill the PWG officer positions, the PWG will have to look at alternate forms of doing business, or consider hibernating.

PWG Operating modes (for discussion)

1. PWG identifies people willing to be officers for the next two year term and operates as normal.
   - Will continue to hold "in person" F2F meetings with dial-in participation as well as "remote" meetings with we-bex like facilities. (see meeting preference survey results)
   - Maintain current membership dues and use the ISTOs conference call facilities.
   - Initially the web-ex facilities provided by a volunteer member company and may investigate use of ISTO web-ex.
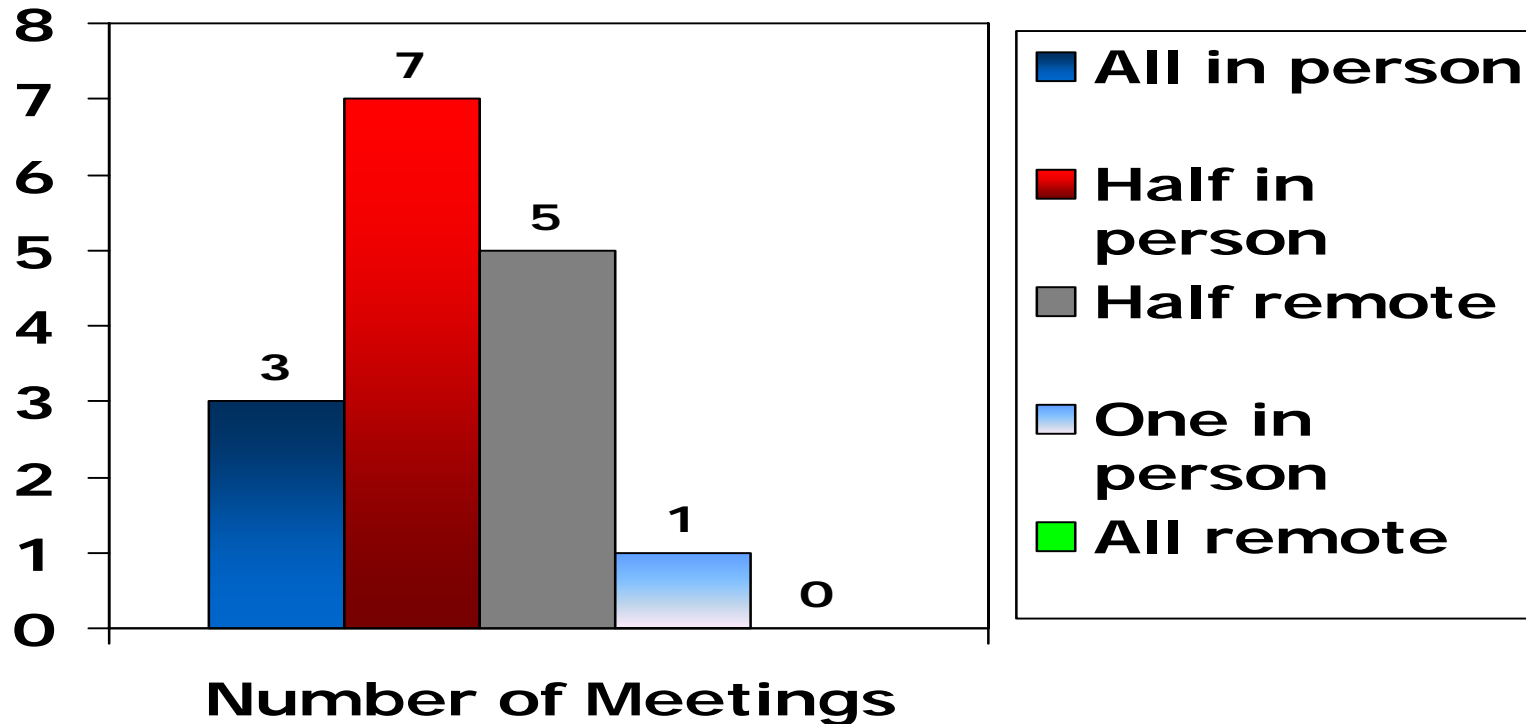
PWG Operating modes (for discussion) contd.

2. PWG becomes for the next two years a completely "remote" organization. (email reflector, conference calls, only web-ex virtual F2F meetings).
   - We still need individuals willing to serve as officers (though the responsibilities will be reduced). Also, with no F2F meetings, there will be no travel requirements.
   - Would still maintain current membership dues and use the ISTOs conference call facilities.

3. PWG goes into hibernation for 2010 and remains that way until officers are identified.
   - Email reflectors will remain active.
   - All chartered working groups will become inactive.
   - Would cancel the ISTO conference call facilities, any calls relating to re-activation of the PWG would have to be hosted by the interested party holding the call.
   - Would investigate a reduced ISTO monthly fee and potentially suspend membership dues.

2010 F2F Meeting Plan (initial discussion)

- Survey Question response:
- Going forward (2009 and beyond), what is your preference in the way that the PWG holds Face to Face meetings.

Number of Meetings

Legend:
- All in person
- Half in person
- Half remote
- One in person
- All remote

2010 F2F Meeting Plan (initial discussion)

- **2010**
  - Feb. 2-4 (Host TBD)
  - Apr. 6-8
  - June 8-10
  - Aug. 10-12
  - Oct. 5-7
  - Dec. 7-9

Questions/Discussion?

Thanks to Xerox for Hosting!

Plenary Adjourned!