Printer Working Group

Plenary – February 18, 2009
Waikoloa, HI

Plenary Agenda

- Introductions
- Approve/Modify Agenda
- Approve Previous Plenary Minutes
- Review PWG Patent Policy
- F2F Meeting Agenda
- Future PWG F2F Meeting Schedule
  - Remote meetings
- 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)
- 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

- **Mon. 02/16**
    - 8:00 AM   9:30 AM   WIMS WG
    - 9:30 AM   11:30 AM   Power Save BoF
    - 11:30 AM   1:00 PM   Lunch
    - 1:00 PM   5:30 PM   MFD WG
- **Tues. 02/17**
    - 8:00 AM   10:30 AM   IPP
    - 10:30 AM   11:30 PM   TBD (open discussion)
    - 11:30 AM   12:30 PM   Lunch
    - 12:30 PM   5:30 PM   MFD WG
- **Wed. 02/18**
    - 8:00 AM   9:00 AM   Plenary
    - 9:00 AM   11:30 AM   IDS WG
    - 11:30 AM   12:30 PM   Lunch
    - 12:30 PM   5:30 PM   IDS WG

Next PWG F2F Meeting

- ## April
  - 27-29,   Oki Data Americas, Inc.

            2000 Biships Gate Boulevard

            Mount Laurel , NJ 08054

            (IEEE P2600 meets April 30,May 1)

- **2009**
    - June 16-18 Rochester NY (hosted by Xerox)
    - Aug. 18-20 Seattle (hosted by Microsoft)
    - October 13-15 Boulder CO (hosted by InfoPrint)
    - December 8-10 Austin TX (hosted by Dell)

- Note: Remote (Web-Ex/teleconference) meetings may be considered if in-person attendance at F2F meetings becomes an issue due to travel restrictions.

2009 Membership

- ✓ **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 Working Group Status

PWG Plenary Status Report WIMS/CIM Working Group

Printer Working Group

Face-to-Face Meeting

February, 2009

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) and by the PWG Web-based Imaging Management Services (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

- A revised charter, reflecting the incorporation of the PWG MIB WG activities, was developed and has been approved by the PWG Steering Committee.
  (ftp://ftp.pwg.org/pub/pwg/wims/charter/ch-wims-charter30-20090202.pdf)

- Final Print Device Schema will be in CIM 2.21 release, due out in February.

- Ira is working on the update of Print Service Schema, based on IPP semantics and following the considerations of the IPPV2 WG

- Rick is continuing with the Proxy CIM Provider prototype implementation. Code implementing the essence of the CIM to MIB to CIM translation will be complete first quarter 2009

Potential MIB Activities

- **Power Management objects "Green" Issue.**
  - ➢ General Interest Expressed. BoF on potential project at this F-2-F meeting
- **Network Printer Profile for CIM**
  - ➢ Collect existing CIM Schema in addition to CIM Printer to identify elements necessary to manage and Network Printer
  - ➢ Identify elements from Power Management and IDS activities appropriate for CIM/Web Services exposure
  - ➢ Establish basis for MFD top-level CIM model
- **Printer Port Monitor MIB**
  - ➢ update spec
  - ➢ interoperability testing ?
  - ➢ advance PPM to PWG standard ?
- **MDF MIB or MIB extensions?**
  - ➢ Many attempts, of varying completeness, started in the past.
  - ➢ MFD group is addressing service semantics; need to address management elements

Next Steps

- Prototyping of the SNMP-to-CIM Provider continues.

- Proceed with the CIM effort to Print Service.

- Possible initiation of Hardcopy Imaging Device Power Management project.

More Info/How to participate

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

➢ **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 F2F Mtg, Plenary Session, Feb 2009
WIMS-CIM WG
Status

Rick Landau
Dell, CTO Office
2009/02/15 v0.0

Current State

- Printer device model in CIM schema is complete
  - Device classes and counter classes published in CIM Schema v2.20 as of 2008/11

Recent Activity

- Prototype progress
  - Instantiation of all substantive (=non-association) classes
    - Get an instance, Enumerate all instances
    - Some additional properties filled in
    - Need to work on Locale and array properties
    - Need to work on Printer class properties
  - Instantiate association classes
    - Done
      - PrinterComponent (for mandatory subsystems)
      - ConcreteComponent (for optional subsystems)
    - Still to do
      - UseOfLog and LogManagesRecord
      - AssociatedPrintSupply
      - AssociatedPrintInterpreter

PWG Plenary Status Report
MFD Working Group

February, 2009

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 specification, the Resource Service and the FaxOut Service.
  - The Print Service has already been addressed
  - The Scan Service is in 2nd PWG wide Last Call
- The definition of a framework for the complete model is an objective.

Current document Status:

Scan Service:

- Requirement and Use Cases complete.
- Scan Service Semantic Model and Service Interface remain in 2nd PWG wide Last Call

Resource Service:

- Resource Service Semantic Model and Service Interface almost ready for PWG wide Last Call

Current Document Status:

FaxOut Service:

- Initial specification submitted, Priority reduced

Overall MFD specification:

- Actively working towards an initial submission, Priority raised.

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 Last Call of Scan Service Semantic Model and Service Interface specification.

- Begin PWG Formal Vote of Scan Service Semantic Model and Service Interface specification.

- Begin Last Call of the Resource Service Semantic Model and Service Interface Document.

- Work to complete the FaxOut Service Semantic Model and Service Interface Document.

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 by sending an e-mail to majordomo@pwg.org with a blank subject line and a message body:**

subscribe MFD

More Info/How to participate

➢ **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 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
IPPv2 Working Group

February, 2009

PWG F2F Meeting

IPP WG Officers

- IPP WG Chairs:
    Paul Tykodi (TCS)
    Shah Bhatti (Samsung)

- IPP WG Secretary:
    Craig Whittle (Sharp)

- IPP WG Document Editors:
    Mike Sweet (Apple)
    Ira McDonald (High North)

Current Status

- IPP/2.0
  - Status is Stable Draft
  - Working Group last call ends 6 March
  - Required Operations and Attributes list is stable
  - Current version is 24 January 2009
    - ftp://ftp.pwg.org/pub/pwg/ipp/ippv2-wd/wd-ipp20-20090124.pdf

- IPP Printer State Reasons Extensions (PSX)
  - Status is Prototype Draft
  - Working Group last call ends 6 March
  - IPP <-> Printer MIB mapping tables are stable
  - Current version is 8 February 2009
    - ftp://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippstate10-20090208.pdf

Next Steps

- IPP/2.0
  - Complete WG last call and revisions
  - Publish as second Stable Draft (2.0/2.1)
  - PWG Last Call spanning April PWG F2F
- IPP Printer State Reasons Extensions (PSX)
  - Complete WG last call and revisions
  - Complete IANA Considerations (IPP & Printer MIB)
  - Publish as first Stable Draft
  - PWG Last Call spanning April PWG F2F
- IPP Production Printing Set2
  - Interim Draft by April PWG F2F
  - Include in IPP/2.0 Second Edition (later 2009)

More Info/How to participate

➢ **We welcome participation from all interested parties**

➢ **The group maintains a Web Page for IPP**

> http://www.pwg.org/ipp/index.html

➢ **Subscribe to the IPP mailing list by sending an email to majordomo@pwg.org with a blank subject line and a message:**

> subscribe IPP

➢ **IPP WG holds bi-weekly phone conferences announced on the IPP mailing list**

PWG Plenary Status Imaging Device Security (IDS) Working Group

PWG F2F Meeting

February 18, 2009

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!!!

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.

Current Status

- 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

- The IDS Wiki page was updated
- HCD Assessments Attributes documents was developed
- HCD-NAP Binding Document is almost final
  - Approaching WG Last Call after Feb. meeting; complete in Q1 2009.
- HCD-NEA Binding Document:
  - Q1-Q2-2009- Start and finish Writing the NEA Binding document
- Q1-Q2-2009 Discussions with Microsoft and Cisco will continue to finalize and endorse the IDS Binding documents.

Other Information

- Time Slot for conference calls
  - In general every other Thursday 1:00-2:00 PM Eastern time
- Mailing list: ids@pwg.org
- IDS drafts will be at:

ftp://ftp.pwg.org/pub/pwg/IDS/Drafts/

Questions/Discussion?