PWG Plenary Status Report
Workgroup for Imaging Management Solutions (WIMS/PMP)

Printer Working Group/WIMS
Face-to-Face Meeting

April 7, 2010
Camas, Washington

Purpose of the effort

- **The WIMS/PMP 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 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 -MPSA Liaison

- The Managed Print Services Association (MPSA) is a relatively new organization of Imaging Service end users, device manufacturers, resellers, consultants, imaging service providers and supporting management, maintenance and monitoring software companies
- MPSA Goals include developing and setting compatible hardware and software standards for MPS industry
- The organization agrees that, in pursuit of it's goals, it is desirable to work with more technically oriented groups such as the PWG
- Because much MPS interest is related to Device and Service Management, WIMS is working with MPSA leadership to develop effective mechanisms for cross-communication.

Current Activities - CIM

➢ **Printer Classes**

All the pending change requests to the CIM_Printer device class and related classes have been adopted by the DMTF Schema Subcommittee and will be included in Schema v2.25. The CRs are published in the PWG FTP site.

ftp://ftp.pwg.org/pub/pwg/wims/cim/CIM_Printer-07-final.html

ftp://ftp.pwg.org/pub/pwg/wims/cim/CIM_PrintChannel-01.html

ftp://ftp.pwg.org/pub/pwg/wims/cim/CIM_PrintInputTray-01.html

ftp://ftp.pwg.org/pub/pwg/wims/cim/CIM_PrintInterpreter-00.html

These changes embody all intended fixes to the printer device related classes.

➢ **PrintService Classes**

- CIM_PrintJob, CIM_PrintService, CIM_PrintServiceCapabilities, and CIM_PrintServiceSettings mof's done
- PrintQueue, PrintSAP and other small classes still need some update.
- Diagram of the extended CIM Printing classes must be written in Visio and PDF, per DMTF process
- New CIM Change Requests (CRs) must be written

➢ **Printer Proxy CIM Provider**

- Rick remains interested in feedback on user's experiences with the SNMP-CIM interpreter package. Information and code is available at:
  - ❑ ftp://ftp.pwg.org/pub/pwg/wims/cim/DellPrinterProviderProxyPrototype_README.txt
  - ❑ ftp://ftp.pwg.org/pub/pwg/wims/cim/DellPrinterProviderProxyPrototype_v10.zip

Command Set Format for IEEE 1284 Device ID

➢ The current stable draft is posted at:

   ftp://ftp.pwg.org/pub/pwg/pmp/wd/wd-pmp1284cmdset10-20100125.pdf

➢ The document has completed PWG Last Call. Last Call Comment Resolution was done at the WIMS/PMP meeting on 6 April.

➢ It is intended to shortly put this document up to the PWG voting membership for balloting for advancement to PWG Candidate Standard.

Current Activities – Imaging Power Management

➤ The Power Management Imaging Systems Documents include:
- Power Management Model for Imaging Systems 1.0
- Imaging System Power MIB v1.0
- PWG-IMAGING-SYSTEM-POWER-MIB

➤ See the most recent versions of these "wd-wimspower10" documents at:

ftp://ftp.pwg.org/pub/pwg/wims/wd/

➤ These documents are reviewed and awaiting MIB prototype implementation. Prototype is not anticipate until sometime after mid-year 2010.

➤ After prototype and adjustment of the documents to address issues that arise during prototype, specification documents well be up for PWG last call and Ballot.

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

- Continue with the CIM effort, eventually to include the CIM Printer Profile

- Continue the Hardcopy Imaging Device Power Management Project, including prototype implementation of the Imaging System Power MIB

- Maintain and update existing set of Printer- and MFP-related specifications

- Attempt at increased contact with user community understand needs and identify real hardcopy device management requirements and use cases.

More Info/How to participate

➢ We welcome participation from PWG member companies and input from the 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

➢ To subscribe to the WIMS mailing list, go to :

   https://www.pwg.org/mailman/listinfo/wims

➢ WIMS holds periodic phone conferences. Dates and agenda on PWG Google Calendar.

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

   • Contact WIMS Chair for phone number and access code.