PWG Plenary Status Report
Workgroup for Imaging Management Solutions

Printer Working Group
Face-to-Face Meeting
December 9, 2009
Dell – Austin, Texas

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 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.

Recent IANA MIB Updates

- In November, Ira submitted and IANA processed the following two IANA MIB updates:
  - plasticMultiRing(12)
    - Added as a new FinBindingTypeTC to IANA Finisher MIB
    - Appears after padding(11)
    - See http://www.iana.org/assignments/ianafinisher-mib

  - langXPS(66) {Microsoft XML Paper Specification}
    - Added as a new PrtInterpreterLangFamilyTC to the IANA Printer MIB
    - defined by http://www.microsoft.com/whdc/xps/xpsspec
    - Appears after langC4(65)

and

  - langOpenXPS(67) {ECMA OpenXPS}
    - Added as a new PrtInterpreterLangFamilyTC to the IANA Printer MIB
    - defined by http://www.ecma-international.org/publications/standards/Ecma-388.htm
  - See http://www.iana.org/assignments/ianaprinter-mib

Current Activities - CIM

- ➢ **Print Service and Printer Classes**
  - ▪ Posted additional updated MOFs
    - • CIM_Printer.mof / pdf (editorial fixups and deprecations)
    - • CIM_PrintChannel.mof / pdf (add new enums from IANA Printer MIB)
    - • CIM_PrintInputTray.mof / pdf (delete duplicate property)
    - • CIM_PrintInterpreter.mof / pdf (add new enums from IANA Printer MIB)
  - ▪ Remaining tasks for Printer related Classes:
    - • 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 for new Print Service MOFs as well as well as for those identified above. CR must now use the new DMTF CR template.
  - ▪ Rick Landau has notified DMTF of Dell's implementation. Need notice of at least one more implementation to move classes beyond "experimental" designation
- ➢ **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

Current Activities - PMP

➢ The IEEE1284 Device Id "COMMAND SET" document has been updated to reflect the October face-to-face meeting comments.

➢ Ira has posted a draft of this document as a prototype draft at
   ftp://ftp.pwg.org/pub/pwg/pmp/wd/wd-pmp1284cmdset10-20091130.pdf

➢ With the review of this draft and the evidence that existing implementations constitute a valid prototype, the document is now in WIMS Last Call, with the objective of resolving any working group issues by mid-January.

➢ The document can then be offered for PWG Last Call, intended to continue though the February 2010 Plenary meeting.

➢ Balloting for advancement to PWG Candidate Standard should be complete by the April 2010 Plenary meeting.

Current Activities – Imaging Power Management

➢ The Power Management Model for Imaging Systems 1.0 Document has been reviewed. See the most recent version of "wd-wimspower10" at:

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

➢ This document is of "Prototype" status, in that the provisions of the document are being implemented in a MIB Binding, the Imaging System Power MIB. Things learned in implementation may be used to correct, clarify or improve both the abstract document and the MIB.

➢ See the Imaging System Power MIB in the most recent version of the "wd-wimspowermib10" MIB and specification (pdf) documents at:

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

➢ The ASN.1 version compiles correctly on several compilers, but it would be helpful to have as wide an exposure as possible.

➢ There is also a proposed Power Counter group addition outlined at:

ftp://ftp.pwg.org/pub/pwg/wims/white/Power-Counter-Proposal-20091206.htm

➢ Proposed schedule has both drafts reviewed and awaiting MIB prototype implementation by February 2010. After prototype and adjustment of the documents to address issues that arise during prototype, both 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.