PWG Plenary Status Report
Workgroup for Imaging Management Solutions

Printer Working Group

Face-to-Face Meeting

August 19, 2009

Microsoft - Redmond, WA

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 - CIM

➢ **Printer Proxy CIM Provider**
- Rick Landau (Dell) 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
- There has been a full presentation of the Proxy Provider functionality and code package at the WIMS August 2009 Face-to-Face meeting.
- Rick is interested in feedback on user's experiences with the package
  - problems in running the package or bugs in the code
  - Incompatabilities with some MIB implementations
  - difficulty following the code or making customizations.

➢ **Other CIM Activity**
- CIM Print Services: effort had been waiting on the IPP group's IPP2.0 specification and, with the approval of this document, activity should resume
- Update of CIM Printer: Some cleanup issues remain. Rick and Ira will address.

Current Activities - PMP

- ➢ Additions and modifications to Printer-related IETF MIBS are done via the IANA versions of the MIBs accessible at the IANA Maintained MIBs group at http://www.iana.org/protocols/

  Current Requests/Suggestions for additional enums:

  - ▪ Harry Lewis (Infoprint) has requested that plasticMultiRing be added to the FinBindingTypeTC in the Finisher MIB (http://www.iana.org/assignments/ianafinisher-mib)

  - ▪ It has been observed that Microsoft langXPS should be added to the PrtInterpreterLangFamilyTC in the Printer MIB (http://www.iana.org/assignments/ianaprinter-mib)

Current Activities - PMP

- The IEEE1284 Device Id is a standard element for identifying printing devices, not just in IEEE1284 but in other interfaces and protocols including USB and, via the Port Monitor MIB, Ethernet.
- The IEEE 1284 spec identified three necessary keys, MANUFACTURER, COMMAND SET, and MODEL.
- Identifying the Command Set is important in understanding how to communicate with the printer. However, there is inconsistency in how information is presented in this field, making automatic identification difficult.
- At the request of the PWG, Ira McDonald has proposed a normative appendix to the PWG Printer Port Monitor MIB, standardizing the content of "COMMAND SET" (CMD).
  - ftp://ftp.pwg.org/pub/pwg/pmp/white/tb-ppm-1284-cmd-20090803.htm
- WIMS is considering the content and application of this proposal.

Current Activities – Imaging Power Management

- Imaging Power Management was identified as the most important management specification effort at a recent PWG meeting.
- A public survey also showed interest in this area.
- The PWG Steering Committed approved adding a Power Management Project to the WIMS activities.
- Ira McDonald has generated a draft specification of the Imaging Power Elements
  - ftp://ftp.pwg.org/pub/pwg/wims/wd/wd-wimspower10-20090726.pdf
- WIMS is soliciting comments, additions, suggestions and general participation of all interested parties in the development of this specification
- A MIB binding of these abstract elements is also being generated, with a CIM implementation for Web Services use to follow.

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
- Develop Abstract Spec for Hardcopy Imaging Device Power Management elements
- Develop Hardcopy Imaging Device Power Management MIB
- Maintain and update existing set of Printer- and MFP-related specifications
- 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

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

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

- ➢ WIMS holds periodic phone conferences. Dates, call numbers and agenda on PWG Google Calendar.

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