

PWG WIMS/CIM Alignment Minutes

Face-to-Face Meeting

April 18, 2008

Mesa, AZ

Attendees

(no list)

General

- Meeting was convened at about 1:00PM MST on 18 April 2008.
- Meeting was adjourned at about 3:30PM MST on 18 April 2008.

Recently Completed Projects

- Imaging State and Counter MIB
 - Completed: Approved and advanced to Candidate Standard.
 - The document needs to be updated and published.
 - Looking for additional implementations
- DMTF/CIM Printing MOFs:
 - Dell plans to prototype
 - Looking for additional prototype implementations because DMTF need two independent prototype implementations to move out of experimental status.

CIM-Printer & Related MOFs

- DMTP V 217 Posted Printing MOFs and Diagrams and the WIMS/CIM Wiki page data were discussed and compared with respect to
 - “Final” vs “Experimental Classes”
 - Changes effected by PWG submitted Classes and Elements
- The following observations were made:
 - Rick Landau pointed out that, in the update:
 - many elements were removed (deprecated)
 - many elements were moved into daughter classes
 - New properties added from Printer MIB and some were combinations of items from the MIB.
 - Some additional properties will be later removed when a suitable replacement property is defined.
 - New classes are classified “Experimental” (and therefore subject to change without notice) until two implementations have been made. They can be advanced to “Final”. New properties that are added to final classes are classified as experimental properties. The class remains a final class. (But the final version of the class does not contain the new properties.). Therefore, the V217 “Final” Printing MOFs represent the set before the PWG update effort (although the contents of these final MOFs does include changes made).

- The V217 “Experimental” Printing MOFs contain the additional classes as well as the modified “Final” classes
- It is anticipated, because the DMTF cycle, that all of the PWG modification and additions will not appear in the published DMTF CIM information until V219
- The “Final” CIM Printing classes represents a basic CIM Printing model in which the print job is submitted to a Print Service. The Print Service puts the job into a Print Queue. The Printer Device takes a Print Job from the print queue. The higher level printing model has not yet been addressed by the PWG effort. Do we want to update or modify this model? Ira stated this could take as long time since the model parallels the CIM approach to submitting jobs to services in general.
- The Class Inheritance diagram was viewed and it was noted that it has not been updated.
- When we model an MFD, we will need to add a model of the services as well as the devices.
- The "Final Model of the Printer Device" slide needs updating. This diagram is very close o the Printer MIB printer model. The association information is missing from the "PrintInterlock" block.

Printer MOF Prototyping

Dell (Rick Landau) is planning to develop software that allows the translation between CIM and SNMP to be used to validate the CIM Printer model. Rick may be able to release some of the software modules developed for this project for others to use.

What to do next

❖ Print Alert Indication ?

- There is a class that is the header for the entire alert log; it is of class RecordLog, as required by the RecordLog Profile in DMTF. The other class, PrintAlertRecord, represents a single alert entry, and is mapped pretty directly from the prtAlertTable.
- PrintAlertRecord is already defined.
- Print Alert Indication involves asynchronous notification by the device, and corresponds to an Printer MIB trap mechanism.
- Ira suggests that defining Print Alert Indication would be very difficult since, although it does map to prtAlertTraps, there is no consistency in the method of registering for printer MIB traps.

❖ Print Service, Print Job, Print Queue, Print SAP ?

- This effort would fall back to the IPP model, and the IPP v2 effort was encouraged by (among other things) to provide a base for this mapping.
- However, this would be a major effort since the IPP specifications structure do not lend themselves to machine translation to CIM
- Further, there appear to be no volunteers; so pending manpower, this effort will be put into abeyance

❖ Translation of counter MIB Elements ?

- This appears to be relatively straightforward. Ira is looking at this..

❖ Generation of Printer Device Profile ?

- Although this did not appear a justified activity when the PWG/CIM effort was first started, clarification of the purpose and requirements for a profile at DMTF and improved understanding by the contributors at PWG suggests that this would be a useful activity.
- This is especially true because of the computer based model that has been developed at the PWG to describe a networked printer (extendable to a networked MFD). This approach allows the inclusion by reference of profiles of supporting capabilities such as network, storage, power etc.
- Rick recommends to start with the simple Printer profile and then move to a Networked printer.

CIM_ImagingStatisticalData

❖ CIM Version of the Counter MIB

❖ Ira proposed the mapping as follows:

- Time (Monitoring and Availability Class)
- Monitor (Monitoring and Availability Class)
- Media Used (Media Used Class)
- Traffic (Traffic Class)
- Image (Work Class)
- Impression (Work Class)
- TwoSided (Work Class)
- Sheet (Work Class)

Action items

WIKI WIMS/CIM page to be updated: Rick

CIM_ImagingStatisticalData Class: Ira will continue effort

Prototyping of Printer MOFs: Rick Landau/ Dell will proceed

Development of a new simple print profile: to be discussed.

Next Conference Call: 5 May, 11AM EDT.

Ron Bergman/Bill Wagner