

WIMS Working Group

2009-10-13 Face-to-Face Meeting Minutes

1. Attendees

Michael Sweet	Apple
Lee Farrell	Canon
Glen Petrie	Epson
Ira McDonald*	High North
Junichiro Hamaguchi	Kyocera
Barry Sia	Kyocera
Jerry Thrasher	Lexmark
Ole Skov	MPI Tech
Nancy Chen	Oki Data
Joe Murdock	Sharp
Bill Wagner	TIC
Ajit Sodhi	Toshiba
Pete Zehler	Xerox

* via telephone

2. WIMS/CIM

On Tuesday morning, Bill Wagner led the Workgroup for Imaging Management Solutions (WIMS) Working Group meeting. He provided the planned agenda:

- Startup and Introduction
 - * Give Intellectual Property Statement
 - * Identify Minute Taker
 - * Introduce Participants
 - * Consider Agenda
- Action Items Review
 - * XPS entry for IANA Printer MIB
 - * PPM Device Id Command Set
 - * CIM Print Service MOFs
- Imaging Power Management Project
- New Action Items & Wrap-up

3. Minutes Taker

Lee Farrell

4. PWG Operational Policy

It was noted that all attendees should be aware that the meeting is conducted under the PWG Membership and Intellectual Property rules. There were no objections.

5. Action Items Review

5.1 XPS entry for IANA Printer MIB

Suggested addition is in **red**. Microsoft will suggest an appropriate durable reference.

```
PrtInterpreterLangFamilyTC ::= TEXTUAL-CONVENTION
--This TC was extracted from prtInterpreterLangFamily in RFC 1759.
STATUS current
DESCRIPTION "This enumeration indicates the type of interpreter that is
receiving jobs."
SYNTAX INTEGER{
    other(1),
    unknown(2), -- Not in RFC 1759
    langPCL(3), -- PCL. Starting with PCL version 5, HP-GL/2 is included as
part of the PCL language. PCL and HP-GL/2 are registered trademarks of
Hewlett-Packard Company.
    .
    .
    .
    langC4(65) -- Not in RFC 1759 -- US DOD C4 (see MIL-STD-1840) MIME type
'application/cals-1840'
langXPS(66) -- Not in RFC 3905 -- XPS = XML Paper Specification, Microsoft
Corporation, ECMA OpenXPS Standard (June 2009) (see http://www.ecma-
international.org/publications/standards/Ecma-388.htm)
Or XPS Specification and Reference Guide (see
http://www.microsoft.com/whdc/xps/xpsspec.mspx)
```

However, the group is awaiting a decision from Microsoft regarding their preference before this item can be resolved.

5.2 PPM Device Id Command Set

Bill provided an explanation of the Action Item:

- 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>
- Because this entry was originally defined in IEEE1284, and is currently used in several protocols in addition to the Port Monitor MIB, it was considered that this information should be an independent PWG standard.
- Ira has drafted this as a standard and has posted it at: <ftp://ftp.pwg.org/pub/pwg/pmp/wd/wd-pmp1284cmdset10-20091001.pdf>
- Since this information has been available for some time, it would be appropriate to consider any Workgroup objections at this time, and to initiate WIMS Last Call for this document.
- Issues should be posted to the WIMS list, with the objective of resolving them over the next few weeks. The objective is to complete PWG Last call by the end of the next Face-to-face meeting.

It was noted that the document should only be specifying the format of the Command set. It is not the intent to require where and/or how it is intended to be used—merely to identify conformant behavior.

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Jerry Thrasher noted that many (most?) external network adapters would not conform to the specification, because they will simply forward the 1284 Device ID as is. They will not re-write it—nor should they.

In Section 3.3 Design Requirements, it was noted that a requirement should be added to specify that it **MUST** require only the allowed characters in IEEE1284—e.g., not an embedded colon, semicolon, and/or comma. (Should this also be worked into the ABNF definition in Section 5?)

The Normative Reference in Section 10.1 to IEEE1284 should be updated to the latest date (2005?)

Ira will incorporate the suggested changes and publish a new draft in November.

5.3 CIM Print Service MOFs

Bill presented the following statements:

- Rick Landau has notified DMTF that Dell has implemented all but one of the printer-related classes that have been added to the CIM schema as part of the WIMS/CIM alignment activity.
- This implementation should count toward the two implementations required for promoting a class or property from Experimental to Final.
 - * The implementation provides values for all non-deprecated properties that can be derived from the SNMP data in Printer MIB II, Host Resources MIB, and MIB-2. This includes properties inherited from parent classes.
 - * The implementation also provides values for all the experimental properties in CIM_Printer.
- Rick remains interested in experience with the Proxy Provider Code
- If someone else will do another implementation -- service or client -- that will be enough to promote the classes to Final status and put the results of this effort on a firmer basis.

Bill provided a list of CIM Printing Classes:

- Experimental concrete classes implemented
 - * CIM_PrintAlertRecord
 - * CIM_PrintChannel
 - * CIM_PrintInputTray
 - * CIM_PrintInterlock
 - * CIM_PrintInterpreter
 - * CIM_PrintMarker
 - * CIM_PrintMediaPath
 - * CIM_PrintOutputTray
 - * CIM_PrintSupply
 - * CIM_PrinterComponent
 - * CIM_AssociatedPrintInterpreter
 - * CIM_AssociatedPrintSupply
- Final concrete classes implemented

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- * CIM_Printer
- * CIM_ConcreteComponent
- * CIM_UseOfLog
- * CIM_LogManagesRecord
- * CIM_Dependency
- Abstract and parent classes used by reference
 - * CIM_PrinterElement
 - * CIM_LogicalElement
 - * CIM_LogicalDevice
 - * CIM_LogEntry
- CIM_Printer experimental properties implemented
 - * CurrentOperator
 - * ServicePerson
 - * SerialNumber
 - * CriticalAlerts
 - * AllAlerts
 - * ConsoleDisabled
 - * ConsoleNaturalLanguage
 - * ConsoleDisplayBufferText
- Classes not implemented
 - * CIM_Finisher
- New and Updated Classes
 - * CIM_PrintJob.mof
 - * CIM_PrintService.mof
 - * CIM_PrintServiceCapabilities.mof
 - * CIM_PrintServiceSettings.mof

He then listed the following items pertaining to CIM PrintService Classes:

- Print Services
 - * Ira has generated PrintServiceClasses will reflect updated standards from IPP group
 - CIM_PrintJob.mof -major NEW version -adds all IPP/1.1 Job attributes
 - CIM_PrintService.mof -major NEW version -adds IPP/1.1 Printer attributes (description)
 - CIM_PrintServiceCapabilities.mof -NEW -adds IPP/1.1 Printer attributes (xxx-supported)
 - CIM_PrintServiceSettings.mof -NEW -adds IPP/1.1 Printer attributes (xxx-default)
 - * With these additions, the CIM Printing classes support IPP/2.0. Still to be tweaked are PrintQueue, PrintSAP, and other small classes
- Clean-up of CIM Printer
 - * Deprecating of misplaced elements, residual problems
- Change Requests
 - * Need volunteer to create Change Requests for submission to DMTF
 - * Need volunteer to diagram the extended CIM Printing classes

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Bill reminded everyone that the development of a Printer Profile is an activity that remains to be accomplished.

6. Imaging Power Management Project

Bill explained that Ira McDonald has updated a draft specification of the Imaging Power Elements. More “real” use cases are requested.

Some issues that have arisen during discussion are:

- How much should be defined and how much mandated?
 - * Needs to include sufficient elements to address fleet management of higher-end devices
 - * Minimum must be just sufficient for low end monitoring
 - * But having much optional leaves management applications unsure of what can be expected, and therefore interferes with interoperability and/or utilization of optional elements
- Considering the informative nature of the PowerStateMessage, should it not be retained in the Power Log?
- What is a more appropriate yet usable name for the Power Mode group? PowerModes? PowerStatesSupported? PwrStatesSupported?
- Is the alternate three-part approach to PowerPolicy preferable to the original approach? Is it adequate? Is it excessive?

Ira McDonald presented several slides [<ftp://ftp.pwg.org/pub/pwg/wims/white/WIMS-Power-October-09.ppt>] and led a review of the Power Management Model specification.

He provided a high-level summary of the group definitions and their content:

- Status
 - * Power Monitor (REQUIRED) – current state
 - * Power Log (REQUIRED) – state transition w/ timestamp
- Capabilities
 - * Power Support (RECOMMENDED) – list of states
 - * Power Transition (RECOMMENDED) – list of transitions
- Settings
 - * Power Request (OPTIONAL) – state change request
 - * Power Timeout (OPTIONAL) – list of timeout policies
 - * Power Calendar (OPTIONAL) – list of calendar policies
 - * Power Event (OPTIONAL) – list of event policies

Ira noted that he has used RECOMMENDED for the Capabilities groups.

He then reviewed a proposed MIB elements mapping, using the MIB prefix “pow”:

- Context – powGeneral...
- Status – powMonitorTable
- Status – powLogTable

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- Capabilities – powSupportTable
- Capabilities – powTransitionTable
- Settings – powRequestTable
- Settings – powTimeoutTable
- Settings – powCalendarTable
- Settings – powEventTable

Ira suggested that in the MIB (and *only* the MIB) “powMonitorTable” should be renamed to “powComponentTable.”

He listed a few targeted “next steps”:

- Power Management Model
 - * Prototype draft – October or November 2009
 - More use cases still solicited
 - * Stable draft – November 2009
 - for PWG Last Call
- Power Management MIB
 - * Initial draft – October or November 2009
 - ASN.1 only – complete text
 - * Prototype draft – December 2009
 - Word/PDF/ASN.1 – complete text
- December PWG Face-to-Face in Austin, TX
 - * Stable draft of Model → PWG Last Call
 - * Prototype draft of MIB → Detailed review

Although more Use Cases are still being requested, Ira expressed his interest in not having this activity drag on for a long time.

Jerry asked if there is any characteristic or property to identify whether any of the power states are “inaccessible” over a management interface. For example, a “deep sleep” state might require operator intervention to re-establish a management connection. It was felt that such a property would be useful for a Management application.

In response to having a single property for each power state, there was concern as to whether such a property could be accurate regardless of the interface being used. It was then agreed that each power state could include a list of supported interface identifiers for which power management is possible within that state.

While reviewing the Power Management Model specification, it was noted that the descriptive text in StateChangeSeconds should have a better clarification for the value of zero.

When considering whether a CalendarYear element would be useful or not, the group could not imagine a Use Case to justify the need for a Power Policy event that is more than one year away.

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[Note to Editor: It was noted that the text in Section 7.3.4 CalendarWeekDay, the word “month” should be changed to “day.”]

[Note to Editor: In Section 7.6.4, fix line 937 cut and paste error.]

7. Next Teleconference

October 26, 2:00pm, Eastern Time.

WIMS meeting adjourned.