DMTF Printer Management Working Group
Bar Harbor, Maine
September 18, 1995

Attendees:

Don Wright - Lexmark
Mike Timperman - Lexmark
Tom Hasting - Xerox
Harry Lewis - IBM Pennant
Steve Zilles - Adobe
Rick Landau - DEC
Dave Roach - Unisys
Jay Martin - Underscore
Bill Wagner - DPI
Jeff Dunham - HP
Luis Cubero - HP
Binnur Al-Kazily - HP

The meeting began at 9:00 AM.

Binnur opened the meeting as acting chair of the group.

Proposed Agenda:

1. PWG Chair discussion and action
2. MIF
3) Language Family Discussion
4) Miscellaneous Discussions
5) Jobs
6) Next Meeting

The group approved the type 2 enumerations of PCL XL (HP) and langArt (Fuji-Xerox). The language reference manuals are TBD.

The group discussed the methods that should be used in the future for additional enumerations (type 2) needed to be added to the MIB in the future. Steve Zilles will write up a proposal on this procedure.

The group reviewed the agenda and added:

1) Electronic Document standardization
2) MIB/MIF Status

CHAIR

The group discussed filling the position of chair of the printer working group and approved Binnur Al-Kazily as chair by acclamation.

EDITOR

Harry Lewis is currently the editor of the MIF and plans to make one more revision to it. No assignment of editing responsibilities for the MIB was made at this time.

SECRETARY

Don Wright will continue as secretary of the group.

RFC CLARIFICATIONS

Clarifications for the MIB are being stored on the ftp site. These clarifications should be incorporated into a future informational RFC or incorporated into a standards track RFC. Future issues and clarifications should continue to occur on the PMI mailing list. A directory exists on the ftp server (pub/snmpmib/rfc1759-clarifications) directory.

Binnur will develop and document the procedure and limitations involved in making changes and clarifications to the RFC.

MIF

Harry Lewis started the discussion on several identified issues on the MIF.

- Names
- Structure
- Sub-unit status
- Interface
- MIB Comments
- Obscure Names
- MIF Groups

One of the major problems with the current MIF is the current Interfaces Group doesn't cover things like parallel and serial.

Harry has made the following changes to the MIF to reflect the differences in philosophy between the MIF and the MIB environments:

A list of missing interfaces from the MIB/MIF interface group needs to be developed. Both the hardware interfaces and the protocols running over them need to be identified. These additions would then be rolled into future MIBs/MIFs. Other proposals on how to deal with this problem should be posted to the reflector. Rick Landau will attempt to pull together a draft of the missing interfaces.

- The group discussed the issue of having different names in the MIB and MIF. The MIB is limited to 31 characters and is heavily abbreviated and the MIF is limited to 250 characters. The DMTF technical committee recommends using longer, less abbreviated names.

Lunch break: 12:35 until 1:20

The group resumed its work on the MIF.

- Some of the character formatting in the MIF used to place tables, etc. in the comments will be lost when read by the MIF browser. Harry plans to make no changes to the comments except some additional punctuation.

- The group discussed the Console Disable object again. The group decided to remove the word "manual" twice from the description and re-affirmed changing the enumerations to:

operatorConsoleEnabled(3)
operatorConsoleDisabled(4)

- The group discussed whether lights on the operator panel should be tied to the localization of the operator panel or to the general printer localization. There was a heated debate over which localization object should be used for the lights. The group agreed to leave the localization basis as currently defined.

- Harry asked the group to closely review the MIF and make sure the current version (8.1) is correct.

- Harry Lewis mentioned some problems he is having with the e-mail system. Binnur will take a look at the reflector and make sure everything is set up ok.

- Mike Timperman had identified a problem in mapping the SNMP OIDs to the DMTF group, id, index etc. of the MIF. There are some "incorrect" OIDs in the MIB due to some re-arrangement of objects made towards to end of the development of the MIB. This issue has serious implications to any automated means of creating a MIB from a MIF. With no obvious solution, this will remain an open issue.

- State of RFC 1759 - Binnur will investigate the steps necessary to move RFC-1759 along the standards track.

Agenda Discussions

- Ray Lutz has identified a problem with the way the interpreterLangLevel is defined. The MIB/MIF doesn't specifically state how the language level should be encoded. For example for PostScript: should "level 2" or just "2" be encoded? A number of options were discussed including changing this to a registered enum. Steve Zilles stated that this hasn't been as problem in the past because typically a single controls a language and drives the naming process. There are a number of other issues of a similar nature that even if this one was solved, the MFPA might not be able to achieve his goal. No changes were made and the issue remains open.

A need to add additional values for hrDeviceID has been identified. The group agreed that if additional IDs were needed, the Host Resources MIB working group would need to add those (not this group.)

A need to add hrDeviceIndex to the Printer Alert. Adding this to the end of the table could cause a problem by being too major a change. Tom Hastings will re-document the problem and potential solutions to the e-mail reflector.

A need to add additional enumerations to prtMarkerSuppliesSupplyUnit has been identified. For example, OPC is more accurately measured by impressions. We will add *Fuser* and *Corona Wire* to prtMarkerSuppliesType and add *impression, sheet, hours, feet,* and *meters* to prtMarkerSuppliesSupplyUnit.

A need was identified to have a published list of textual conventions of characters sets. Since character sets enums are registered by IANA, the group believes there is a need to have IANA publish this list. Steve Zilles will be contacting IANA to see what can be done to have the list published and available.

A need to add additional enums for alerts was identified. Proposals should be directed to the e-mail reflector.

JOBS

The group started by reviewing the minutes from December 1994, where a job discussion was previously held. The group was mixed on its opinion as to where SNMP is the right means to control jobs. More agreement was present on using SNMP to simply report job status and/or statistics. Harry Lewis presented a JOB MANAGEMENT architecture chart from the MFPA's Job Submission document.

Harry also presented a list of objects that could be included in a Print-Job MIB. This was in addition/alternative to the objects that Tom Hastings posted on the server.

Steve Zilles proposed a simple JOB MIB concept which would largely be a table of Jobs which have been processed or are in process. Having a very simple job MIB and a more complex MIB that deals with spooling, etc. was proposed and discussed.

Tom Hastings reviewed the goals presented in his document on the Job Monitoring MIB. The group reviewed Tom's stated goals and made changes/clarifications to several.

Next Meeting - The group discussed the possibility of meeting with the MFPA as well as following the IEEE meetings. Meeting - 10/26 & 10/27 in Texas.

Meeting adjourned at 7 PM.