DMTF Printer Management Working Group
Portland, Oregon
August 22, 1994 - August 23, 1994

Attendees:

Harry Lewis - Pennant
Jim Marlin - Pennant
Linda North - Hewlett-Packard
Don Wright - Lexmark
Lloyd Young - Lexmark
Theodore Kearley - QMS
Pete Grillo - Intel/DMTF
Tim Hathaway - Pacific Data Products
Barry Kelman - Microsoft
Andrew Garsten - Data Products
Andy Davidson - Tektronix
Bill Wagner - DPI
Shannon Gray-Voigt - DMTF
Stan McConnell - Xerox
Koji Tashiro - NEC Technologies
Steve Zilles - Adobe
Jay Martin - Underscore

The meeting began at 8:30 AM, with Harry Lewis chairing.

Harry presented a proposed agenda to cover:

1) DMI Tutorial
2) Mailing Operations Standards
3) Open MIB/MIF Issues
4) Left-over MIB issues, comments from RFC, etc.
5) Press release
6) 1284.3 MIF

Pete Grillo kicked off the meeting with a discussion of the DMI. The discussion started with the problems we have because our MIF will not translate to match the published MIB.

The MIF will need to contain:
- Objects from the PMI Common Spec

- Groups from the System MIF
- Groups from the NIC MIF

Steve Zilles reviewed the Waldbusser solution to the multiple printers controlled by a single network interface/agent. This solution involved a way to link objects from the host MIB (ie RAM size) to one of the printers being managed by an agent.

Pete discussed the "Operational State" concept used by the DMI. ISO10164-3 is the operational state standard.

The group continued discussing the problem of the MIB generated by MIF conversion not matching the MIB contained in the RFC.

Pete and Shannon reviewed the current status of the DMTF. The SDK for DOS 3.3, Windows 3.1, OS/2 2.x will be available Sept. 22, 1994. LAN Desk Manager 2.0 will support DMI Nov '94. Hermes will support DMI in 1Q95. The software DMI working group has held its first meeting with Novell and Microsoft co-chairing. The server working committee will be starting on Aug 30th. The developer's conference will be Oct 11/12 in Boca Raton with both end-users and developers attending. There will be a developer's showcase as there was last year.

There are no other groups within the DMTF that are creating lists of character sets.

The group would like to get the MIF complete at the September meeting. In order to do that, we will need to iterate the MIF-to-MIB conversation/comparison until the OIDs match.

Jim Marlin presented some of the work that had been done by the large mailing operation group in using the DMI framework.

Discussion of the issue of the enums 1 & 2 for units be reserved rather than other and unknown.

Pete Grillo talked about the DMTF's direction in the development of a self certification test suite. The current plans are to develop a test tool that will enable self certification by a manufacturer who would send the results to the DMTF to be included as a DMTF certified product.

The group next discussed the issue of "atomic" action with Pete. This problem occurs when a series of object writes are going to occur. The management application will check a group of values individually, each of which is valid, but as a group they would be invalid. How should this be prevented or recovered

from? Pete's answer is that the DMI layers will not provide this safety net; it must be provided by the instrumentation code.

On the issue of mapping the host MIB object into the DMTF world, we will MAP to System MIB, use alerts table including system status groups to provide operational status.

Min/Max DIM in the Feed, X-Feed should have unknown included.

Ledger size was omitted from the Media Names appendix but is actually included as engineering B size.

The meeting recessed at 6:30 PM.
The meeting resumed at 8:30 AM.

The discussion began with the 1284.3 MIF proposal. It was noted that the proposal was generally PC centric. Before this group could adopt this some work would need to be done to generalize it to cover both the printer and the PC. Several specific problems were identified and suggestions were made which will be taken back to the 1284.3 group. The 1284.3 group will be meeting 8/29 in Redmond, WA. The group was also concerned that this work was being done without input from few if any of the printer manufacturers.

The group discussed the issue of the way to name enumerations: should the names follow the SNMP convention of "no space" with leading lower case or the DMTF convention of mixed cases with embedded spaces.

The group recommends the device ID string in the 1284.3 MIF allocate 1024 bytes rather than 256 byes.

The discussion returned to the issue of objects used from the Host MIB/Interface MIB, etc. Harry Lewis will be updating the MIF with the new objects substituting for the MIB objects.

The group then discussed the proposed press release. The group felt that the press release should include both the IETF and the DMTF work that was done. The group felt that the focus of the press release should be indicating the group has made significant progress and that standards based solutions would be forth-coming.

Other issues:

1) Cancel - Defer to JOBS discussion
2) Jobs group - PWG can't drive this issue, need OS, NOS, etc. participation. We will dedicate part of the Sept meeting to talk about Jobs. Key "jobs" requirements include Queue mgmt, status, accounting,

integrity/recovery. Harry will try to invite the DPA group to that meeting. Other job areas for discussion:

--- Resources
- Fonts
- Programs (same as Macros, Overlays, Procedures)
- Storage
- Patterns
- Color Mapping
- Etc.

--- Resource Management
- Naming
- Deletion
- Access Priority
- Security
- Matching (Jobs & Resource)

The October meeting will be in the Boston area October 25,26,27.

The meeting adjourned at 2:45PM.