Printer Working Group
Montreal, Quebec (Hilton Bonaventure)
June 27, 1996

Attendees:

Don Wright - Lexmark
Tom Hastings - Xerox
Randy Turner - Sharp
Ron Bergman - Dataproducts
Binnur Al-Kazily - HP
Bob Pentecost - HP
Bill Wagner - DPI
Bob Setterbo - Adobe
Shige Kanemitsu - Kyocera
Lee Farrell - Cannon
Gail Sanger - EFI

The meeting was opened at 8:30 by Binnur.

The agenda for the July meeting in Portland was discussed. Several options were presented regarding which days to schedule the bake-off. The following schedule was established.

Monday, July 22nd - PWG / PMP meetings
23rd - JMP / SP meetings
24th - Bakeoff ... Current known participants are:
Lexmark
HP
IBM
Sharp
Kyocera
Novell - NDPS

Printer MIB draft status:

Randy Turner attended the IETF meeting and presented the following information on the reaction to the updated printer MIB.

The MIB may have to be formatted per RFC1902. Randy will review this document and will report on the impact on the Printer MIB. These problems could result in a considerable number of changes to the Printer MIB. Some of the problem areas are:

Any change to MAX-ACCESS will require the object to be deprecated and a new object created. Randy also believes that moving the enums to a Textual Convention may also require a new object. Randy will verify the requirements for the second case.

There are no longer Optional groups, these must be replaced by Conditionally Mandatory. Table groupings may also be a problem. Can different groups be in the same table? The Printer MIB has Optional objects mixed with Mandatory objects in the same table.

Since the Printer MIB was developed prior to RFC1902 can we continue to use the requirements of RFC1442 instead of RFC1902?

Randy will attempt to sort out all of the above issues.

Since the Printer MIB uses portions of the Host Resources MIB, the Printer MIB can not advance beyond the HR. The HR MIB , which is currently at the same level as the Printer MIB, is also in the process of changing. The advancement of the Printer MIB will be paced by the HR MIB.

Changes to the Evolution of the Interfaces MIB (RFC1573) may also impact the Printer MIB as with the HR MIB. A new draft of RFC1573 is available. (See WWW.IETF.ORG)

The group must be re-activated before the new MIB can be submitted.

Randy has included most of the updates received in the latest draft. This will be posted next week. An announcement will be mailed when this occurs. Everyone should get a copy and review as soon as possible due to the short time before the next meeting.

Bake-off

Randy will have a SUN system and 10BaseT hubs. Bring your own cables.
A network management system will be available on the SUN.
Novell will bring Novell 4.1 and Green River.

Luis Cubero is working the issues with the demo at Interopt.

New language enum requests:

langLinePrinter(51) is now approved (Dataproducts request)
langIDP(52) is also approved (Apple request)

New channel enum requests:

chPortSPX(40) approved (Apple request)
chAppleTalkADSP(41) approved (Apple request)
chPortHTTP(42) was also approved (requested by Tom Hastings)

The continuing Channel group discussion

Reference the Network Services Monitoring MIB index. What should the response be if the NSM is not implemented?

- Return an index of zero?
- Don't respond?

Does use of the NSM MIB make sense?

A new discussion regarding the deprecation of the Channel type enums was opened. The group agreed that the channel type enums should not be deprecated, since if the NSM was not supported the channel type would still be necessary. It was also agreed that the table should be cleaned up.

- Proposed removing enums 18, 22, 23, 24, 25, 29 and 30.

Add applXXX oid to define the channel type. This allows multiple ports to be specified.

Further efforts are required to fully describe the purpose and use of the object prtChannelState. When the channel is disabled, does this disable both data and control information?

The discussion now moved to the action items for the list of questions from Tom Hastings at the Chicago meeting:

1. MIN-ACCESS and MAX-ACCESS - Should a MIN-ACCESS be assigned to each object? Otherwise, does the MIN-ACCESS = MAX-ACCESS per RFC1902?

Answer: Randy Turner will resolve

2. For MAX-ACCESS objects of READ-WRITE that are implemented as READ-ONLY. What happens in a response to a write operation? SNMP Error?

Answer: Randy Turner will resolve

3. What event will cause a prtGeneralConfigChange?

Answer: After much discussion, it was concluded that these items should be obvious. (e.g. A temporary removal of a paper tray, but not removing the capability to replace and to use that tray, would not be a configuration change.)

What about the situation where multiple changes occur simultaneously? Should the counter be incremented for each?

Answer: This would be implementation dependent.

Does the count have to be maintained across power cycles?

Answer: This would be implementation dependent.

4. prtMarkerColorTonality does not cover gray scale achieved by half tone operations. This object defines the tonality capability at the pixel level as performed by the marker not the interpreter..

Answer: Don Wright will research further.

5. Why does prtMediaPathType need to account for long-edge-binding and short-edge-binding duplex?

Answer: Was required by a vendor that had this feature implemented in hardware.

What about the case where this is a logical implementation?

Answer: There can be more rows in the media path table than there are physical media paths. The specification needs to be clarified. Tom Hastings will write the text.

6. Can an empty string be the response to prtChannelProtocolVersion if the version is not applicable?

Answer: Yes. In the case of serial, "RS232" or "RS422" may be inserted. Tom Hastings will draft a proposed change to the text.

7. What happens if there is no associated interpreter with prtChannelCurrentJobCntrlLangIndex?

Answer: Set the current job language to the default selection.

8. The job control language used is not an exact match to the currently available enums. Should the closest available be used or should a new enum be assigned?

Answer: Obtain a new enum.

9. Should the interface between the interpreter to marker unit have an entry in the channel table?

Answer: NO

10. What is the direction of the data flow for prtInterpreterDefaultCharSetOut?

Answer: This is the backchannel data from the interpreter to the host.

11. Is prtCoverStatus apply to a door or an interlock or both?

Answer: Implementation dependent.

12. What if prtInputDefaultIndex is dependent upon the interpreter? The value of zero is not valid.

Answer: The range for this value will be change to include zero. The value zero will indicate no prtInputIndex association is valid.

13. subUnitStatus: What is the difference between Idle and Standby? Also for Active and Busy?

Answer: Standby is normally in a power save mode. Busy cannot service.