Meeting Minutes

Printer MIB Extension for MFP Devices

June 22, 2006
Sharp Labs
Camas, Washington

Ron Bergman - Chairman Printer MIBs Working Group

Attendees:

Ron Bergman	Ricoh
Lee Farrell	Canon
Walt Filbrich (phone)	Samsung
Harry Lewis	IBM
Ira McDonald (phone)	High North
Stuart Rowley (phone)	Kyocera
Jerry Thrasher	Lexmark
Bill Wagner	TIC
Craig Whittle	Sharp
Pete Zehler	Xerox

Agenda:

1. Review and approval of the June 8 Teleconference minutes.

ftp://ftp.pwg.org/pub/pwg/pmp/minutes/mfp/MFP_Minutes_20060608.pdf

2. Review of the latest changes to the Printer MIB Alert Table Groups Extension Specification.

ftp://ftp.pwg.org/pub/pwg/pmp/wd/wd-mfp-alert-groups10-20060612.pdf

3. Review of the proposed specification addition of project requirements.

ftp://ftp.pwg.org/pub/pwg/pmp/contributions/Rationale-for-MFD-Alert-Table-Extensions.pdf

4. Review of the Xerox Proposal for MFD Alerts.

ftp://ftp.pwg.org/pub/pwg/pmp/contributions/Xerox-Proposed-MFD-changes-for-Printer-related-RFCs-v2.pdf

5. Review of Ira's Imaging System MIB.

ftp://ftp.pwg.org/pub/pwg/pmp/wd/wd-pmpimagingmib10-20060418.mib

Discussion:

1. June 8 Teleconference minutes

The minutes were approved as presented.

2. MFP Alert Groups Specification

The changes incorporated since the last teleconference were reviewed.

The following changes were discussed and agreed for the next version:

- In section 3, for the subunits that are to be implemented in an existing table, the wording in the last paragraph in each subsection will be changed to remove "alerts" and "alert group". The alert name will be replace with the appropriate table name. Applies to 3.1.1, 3.1.3 – 3.1.7and 3.2.2 – 3.2.5.
- In Section 6, the table index referred to needs to be clarified. This index is not the value of hrDeviceIndex but is a lower order table index.

3. Requirements Section Proposal

The proposal for a new requirements section was reviewed. This test will be added as a new section (3. Requirements) with the following changes and additions:

- A problem statement will be added to the rationale part.
- Use models must be included. Bill Wagner volunteered to help generate these. Other volunteers are welcome to submit suggestions.
- The documents referenced in the rationale section need to be added to the References section.

4a. Xerox Proposal for new Alert Codes

The proposal from Xerox was reviewed with the following agreements:

- Add “subunitInternalCommunicationFailure(39)” to section 11.2.1.
- Add “subunitMemoryExhausted(34)” to sections 11.1.1 and 11.2.1.
- The request to add “subunitTimingFailure(37)” was not full understood. A use case is requested to clarify.
- New enums “subunitLocked”, “subunitUnlocked”, “subunitInitializationFailure”, and subunitFanMotorFailure” will be added.
- The requests for “subunitInternalCommunicationFailure”, “subunitExternalCommunicationFailure”, “noDialTone”, “scanError”, “subunitMechanicalComponentFailure”, “subunitControlBoardFailure”, “subunitSoftwareModuleFailure”, “subunitActivationFailure”, “subunitDetectionFailure” and “subunitThresholdFailure” was rejected. (The purpose of some of these items were not fully understood.) It is recommend that a generic alert code, such as “subunitRecoverableFailure(29)” or “subunitUnrecoverableFailure(30)” should be used with a Location code to provide more specific information.

- The request for “subunitAuthenticationFailure”, “subunitJobProcessingFailure”, and “subunitNetworkAddressFailure” were agreed to be out of scope. Job related failures are not appropriate for alerts.

4b. Xerox Proposal for hrPrinterDetectedErrorState Extensions

The addition of any new bits into hrPrinterDetectedErrorState was determined to be not practical and should not be pursued due to the following:

> Any addition of bits will in some manner affect Host Resources MIB document. It may require a new HR MIB document or an augmentation to the current document. But in either case, we will most likely have to work this through the IETF. Past experience has indicated very long delays in the IETF approval cycle.
>
> The more serious problem is; any addition to hrPrinterDetectedErrorState that involves more than 1 bit, will increase the byte length of this object. The previous change included in the Printer MIB version 2 changed this length from 1 to 2 bytes and caused a significant amount of problems within implementations. This is primarily due to the fact that the format is a bit string which is defined starting from the most significant bit.

The group decided the best approach, if there is a need for any additional bits, is to define a new object in the PWG OID space. For example "pwgMfdDetectedErrorState".

It was agreed that "initialization failure" and "resources required" were likely candidates for this new object. The remainder of the proposed new bits were either not understood, considered to be redundant, or out of scope. It was unfortunate that a representative from Xerox that was familiar with the proposal could not participate in the discussion.

The request to rename "serviceRequested" to "interventionRequired" was rejected. Once published in a final document, the names can never be changed. These names are not intended to be the actual strings to be presented to a user in an application. The implementation is free to create and display any descriptive strings as appropriate.

4c. Xerox Proposal for new hrDeviceTypes

As discussed above for hrPrinterDetectedErrorState, the addition of any new hrDeviceTypes is not practical and should not be pursued. In past discussions, it was proposed to extend the meaning of hrDevicePrinter to include a multifunction printer. Therefore, the scan and fax functions are new printer features rather than new device types. This leaves the stand-alone network attached scanner without an applicable device type, but this case is outside of our area of interest.

4d. Xerox Proposal for new MIB Objects

There was no time available for discussion on this topic.

5. Imaging System MIB

There was no time available to review this document.

Next Teleconference:

The review of this document will continue on the next teleconference in two weeks.

i.e. July 13, 2006 at 11:00 AM EDT (8:00 AM PDT)