

Rationale for MFD Alert Table Extensions

The ISTO, IETF, and PWG standards for the printing industry include:

- a) An abstract model of a Print Device in section 2.2 of the IETF Printer MIBv2 [RFC3805].
- b) An SNMP Alert table for a Print Device to support the service and maintenance functions in section 2.2.13 of the IETF Printer MIBv2 [RFC3805].
- c) A set of design goals for status monitoring in a printing protocol in section 3.1.3 “Viewing the status and capabilities of a printer” (for End User), section 3.2.1 “Alerting” (for Operator), and section 3.3 “Administrator” (the bullet requirement to “administrate billing or other charge-back mechanisms”) of the IETF IPP Design Goals [RFC2567].
- d) A set of multifunction service types for Imaging Systems in the JmJobServiceTypesTC textual convention in section 4 of the IETF Job Monitoring MIB [RFC2707].
- e) An abstract model of a multifunction job in section 2 of the IETF Job Monitoring MIB [RFC2707].

Over the past decade, network printers have evolved into multifunction imaging systems. To support monitoring and maintenance of these imaging systems this document defines a new set of alert groups that allow usage of the tools currently developed for the Printer MIB Alerts to function with multifunction devices.

Use Models for MFD Alerts

TBD

Design Requirements for MFD Alert Table Extensions

- a) Define a set of Alert table groups to provide alert capability for MFDs equivalent to the capability currently provided for print only devices.
- b) New alert groups are not to be defined for MFD components where equivalent groups already exist for the printer component. For example, scan device covers will be included in the current covers group defined for the Print Device. The associations to the MFD components is to be accomplished using the index values.
- c) The new alert groups are to be included in an update to the PrtAlertGroupTC in the IANA Printer MIB.
- d) An analysis of the possible fault conditions for each group must be included and if any new alert codes are needed, they will be registered with IANA at the same time. Note: this does prevent registration of additional alert codes at a later time.

Ron Bergman
June 19,2006