IPP Printer State Extensions Kickoff
Device State Standards

Printer and Finisher MIBs (Print Device and Subunits)
- Printer MIB v1 (IETF RFC 1759, March 1995)
  Specific alerts for Print Device and Subunits
- Printer MIB v2 (IETF RFC 3805, June 2004)
  Generic alerts for any Subunit (e.g., Finisher)
- Finisher MIB (IETF RFC 3806, June 2004)
  Specific finishing subunits in FinDeviceTypeTC

Internet Printing Protocol (Print Service/Device)
- IPP/1.1 (IETF RFC 2911, September 2000)
- Sparse specific alerts from Printer MIB v1
- No generic alerts from Printer MIB v2

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Device State Query Protocols

SNMPv1 – no security – supported in most printers
- Printer MIB v1/v2 datastore
- SNMPv1 is easy to deploy and administer

SNMPv3 – USM – not supported in most printers
- Printer MIB v1/v2 datastore
- SNMPv3 is hard to deploy and administer

IPP/1.1 – TLS/1.0 – supported in most printers
- IPP Printer datastore
- IPP is easy to deploy and administer

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IPP Device State Currently

printer-state-reasons (1setOf type2 keyword)
- Sparse mapping of specific alerts
- 20 of 92 specific alerts have strong mappings
- 10 of 92 specific alerts have weak mappings
- No mapping of generic alerts
- 0 of 30 generic alerts have mappings
- Suffixes "-report", "-error" and "-warning" for alert severity have no known implementations

printer-state-message (text(MAX))
- Human-readable text with no further guidance

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IPP Device State Extensions

printer-state-reasons (1setOf type2 keyword)
- - Complete the mapping of specific alerts
- - 62 of 92 specific alerts get new mappings
- - 10 of 92 specific alerts get better mappings
- - Complete the mapping of generic alerts
- - 30 of 30 generic alerts get new mappings
- - Deprecate unimplemented alert severity suffixes

printer-state-message (text(MAX))
- - Encoding for any/all of prtAlertTable objects
- - 16 values of FinDeviceTypeTC get new mappings
  and are added to PrtAlertGroupTC

IPP Printer State Extensions Kickoff Documents

IPP Printer State Reasons Extensions Project Charter
- directory ftp://ftp.pwg.org/pub/pwg/ipp/charter
- file "ch-ippstate-20060601.htm"

IPP Printer State Reasons Extensions Kickoff Slides
- directory ftp://ftp.pwg.org/pub/pwg/ipp/slides
- file "ipp-psx-slides-20060622.pdf"