

IPP Printer State Extensions

PWG Plenary

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Maui

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IPP PSX Background / Rationale

- BMLinkS, a consortium of printer vendor in Japan, requested support for additional values for “printer-state-reasons”
 - Additional values needed to support finishing options
- Current “printer-state-reasons” attribute in IPP does not include needed values for secure monitoring of printers
 - The first definition of the "printer-state-reasons" attribute of the IPP Printer object was published in IPP/1.1 (RFC 2911)
 - The mapping of printer device and printer subunit alerts defined in the 'PrtAlertCodeTC' textual convention in IANA Printer MIB (originally published in RFC 3805) was very sparse (less than 20% coverage)
- IPP w/ TLS (including PSX extension) offers improved security over SNMP

IPP PSX Objectives

- **Develop a "IPP Printer State Reasons Extensions" PWG Candidate Standard**
 - **Define new values for the IPP/1.1 (RFC 2911) "printer-state-reasons" attribute for:**
 - Every printer device and printer subunit alert defined in the 'PrtAlertCodeTC' textual convention in IANA Printer MIB
 - Every finishing device defined in the 'FinDeviceTypeTC' textual convention in IANA Finisher MIB
 - **Define a new "printer-alert" attribute that encodes all of the eight machine-readable columnar objects defined in the 'prtAlertTable'**
 - **Define a new "printer-alert-description" attribute that encodes the one localized object 'prtAlertDescription' defined in the 'prtAlertTable'**

IPP PSX WG Activities

- Working Draft
 - <ftp://pwg.org/pub/pwg/ipp/wd/wd-ippstate10-20061107.pdf>
- BMLinkS Feedback
 - BMLinkS has confirmed current proposal “for our first request is enough”
- Drafts sent to UP3i
 - for UP3i review and possible application in UP3i Finishing standards
- Before a PWG Last Call at least one prototype is needed (need not be comprehensive)

IPP PSX Milestones / Next Steps

- **Charter Phase**
 - C-1. DONE - 'Initial' draft of IPP PSX Charter – 25 May 2006
 - C-2. DONE - 'Stable' draft of IPP PSX Charter – 1 June 2006
 - C-3. DONE - PWG SC approval of IPP PSX Charter – 1 June 2006
- **Definition Phase**
 - D-1. DONE - 'Initial' draft of PWG IPP PSX – 17 July 2006
 - D-2. DONE - 'Prototype' draft of PWG IPP PSX – 7 November 2006
 - D-3. Prototyping reports on PWG IPP PSX – April 2007
 - D-4. 'Stable' draft of PWG IPP PSX – May 2007
 - D-5. PWG Last Call of PWG IPP PSX – June 2007
 - D-6. PWG Formal Approval of PWG IPP PSX – July 2007
 - D-7. IANA registration of PWG IPP PSX updates – August 2007
- **Implementation Phase**
 - I-1. Interoperability Event for PWG IPP PSX – September 2007