Charter For

PWG Semantic Model Specification

Abstract

The Print semantics that we defined in IPP are being used throughout the industry. The print system may be less functional (e.g. UPnP) or much more complex (e.g. JDF DigitalPrinting). The important point is that whenever possible the semantics are being reused. The reuse is a great benefit to Printer manufacturers. It simplifies the logic necessary to incorporate our devices into these various network environments. It speeds the definition of printing protocols/systems since the semantics of common features need not be reargued.

One of the barriers to the use of the PWG print model is its tight association with the IPP protocol. In the definition of IPP, we clearly separated the model from the protocol. RFC2911 covers the base semantics. We also have extensions to the model defined in some Internet Drafts and IEEE-ISTO PWG standards. I believe we should split the IPP semantic model from the IPP protocol. Using the "PWG Semantic Model" in discussions around industry wide agreed upon print semantics avoids the "IPP baggage". I believe the separation will foster reuse in various network printing environments and standards. The separation will not affect compatibility with IPP.

The PWG Semantic Model working group will publish a single document that provides a simplified description of the PWG Semantic Model. The PWG Semantic Model document will not define the semantics. It will cross-reference the specifications that define the semantic element in detail.

The PWG Semantic Model Working Group will publish an example XML Schema based on the PWG Semantic Model.

The working group will document the procedure for modifications to the PWG Semantic Model. The PWG Semantic Model is intended to cover the semantics that are general interest and likely to be reused in different network printing environments. A formal PWG process will be documented that allows features of common interest to be incorporated. This will allow features developed in other environments to also be reused.

Milestones

Charter Stage

Charter Proposal July 2002
Charter Formal Approval August 2002

Requirements Statement August 2002
Requirements Formal Approval August 2002

Specification Stage

Overview Draft (limit to rfc2911) June 2002
First Draft August 2002
Proposed Draft Standard Last Call Q3 2002
Draft Standard Formal Approval Q4 2002
Proposed Standard Last Call Q1 2003
Published Standard Q1 2003

Documents Produced

- PWG Semantic Model Specification
- XML Schemas for the PWG Semantic Model
- Sample Instance Documents for the PWG Semantic Model Schema

The proposed schema (*.xsd) and sample instance documents (*.xml) as well as the PWG
Schema document will be available on the Web / FTP server noted below.

Related Documents

- **rfc2911 Internet Printing Protocol/1.1: Model and Semantics**.
  T. Hastings, Ed., R. Herriot, R. deBry, S. Isaacson, P. Powell. September 2000.

- "**Internet Printing Protocol (IPP): IPP Event Notifications and Subscriptions**",
  J. Martin, T. Hastings, R. Herriot, S. Isaacson, R deBry, R. Bergman, Michael Shepherd, 11/28/2001, <draft-ietf-ipp-not-spec-08.txt>

- "**Internet Printing Protocol (IPP): Job and Printer Administrative Operations**",
  T. Hastings, R Bergman, Carl Kugler, 07/23/2001, <draft-ietf-ipp-ops-set2-03.txt>

- "**Internet Printing Protocol (IPP): The 'collection' attribute syntax**",
  T. Hastings, R. Herriot, R deBry, Kirk Ocke, Peter Zehler, 07/23/2001, <draft-ietf-ipp-collection-05.txt>

- "**Internet Printing Protocol (IPP): Job and Printer Set Operations**",
  T. Hastings, R. Herriot, R Bergman, Carl Kugler, 09/06/2001, <draft-ietf-ipp-job-printer-set-ops-05.txt>

- "**Internet Printing Protocol (IPP):The 'indp' Delivery Method for Event Notifications and Protocol/1.0**",
  T. Hastings, Hugo Parra, 07/23/2001, <draft-ietf-ipp-indp-method-06.txt>

- "**Internet Printing Protocol (IPP): The 'mailto:' Delivery Method for Event Notifications** ",
  T. Hastings, R. Herriot, Carl-Uno Manros, Henrik Holst, 07/23/2001, <draft-ietf-ipp-notify-mailto-04.txt>

- "**Internet Printing Protocol (IPP): Job Progress Attributes**",

- T. Hastings, R Bergman, R. Bergman, 07/23/2001, <draft-ietf-ipp-job-prog-03.txt>

- "**Internet Printing Protocol (IPP): Printer Installation Extension**",
  T. Hastings, Hugo Parra, Ted Tronson, 07/23/2001, <draft-ietf-ipp-install-04.txt>

- "**Internet Printing Protocol (IPP): The 'ippget' Delivery Method for Event Notifications** ",
  R. Herriot, Harry Lewis, Carl Kugler, 11/29/2001, <draft-ietf-ipp-notify-get-06.txt>

- "**Internet Printing Protocol (IPP): "finishings" attribute values extension",** T. Hastings, D. Fullman 2/5/2001, <pwg5100.1.pdf.>

- "**Internet Printing Protocol (IPP): "output-bin" attribute extension"** T. Hastings, R. Bergman 2/7/2001, <pwg5100.2.pdf.>

- "**Internet Printing Protocol (IPP): Production Printing Attributes – Set1"** T. Hastings, K. Ocke 2/12/2001, <pwg5100.3.pdf.>

- "**Internet Printing Protocol (IPP): Override Attributes for Documents and Pages**" R. Herriot, K. Ocke 2/7/2001, <pwg5100.4.pdf.>

- "**The Printer Working Group Standard for media Standardized Names"** T. Hastings, R. Bergman 2/26/2001, <pwg5100.5.pdf.>

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