

PWG WS Mapping of Printer MIB

What Does “Web Services” Mean?

- Machine-readable XML interfaces
 - not human-readable interfaces
- WSDL (Web Services Definition Language)
- SOAP (Simple Object Access Protocol)
- XML Schema Object Definitions
- Web Services Management Protocols
 - OASIS WSDM-MUWS (Mgmt Using Web Svcs)
 - DMTF WS-Management (from Microsoft)
 - DMTF WBEM (legacy w/out WSDL/SOAP)

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WSDL Standards

- WSDL/1.1 (de facto) – W3C Note
 - <http://www.w3.org/TR/wsd1>
 - Used in WS-I specs (no reliable interoperability)
- WSDL/2.0 (de jure) – W3C Standard
 - <http://www.w3.org/TR/wsd120>
Core Language – Component Models, Types, Documentation, Language Extensibility
 - <http://www.w3.org/TR/wsd120-adjuncts>
Adjuncts – Message Exchange Patterns, Operation Styles, SOAP & HTTP Bindings

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SOAP Standards

- SOAP/1.1 (de facto) – W3C Note
 - <http://www.w3.org/TR/SOAP>
 - Used in WS-I specs (no reliable interoperability)
- SOAP/1.2 (de jure) – W3C Standard
 - <http://www.w3.org/TR/soap12-part1>
Messaging Framework – SOAP Model/Messages
 - <http://www.w3.org/TR/soap12-part2>
Adjuncts – SOAP RPC & HTTP Binding

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XML Schema Standards

- XML Schema (de jure) – W3C Standard
 - <http://www.w3.org/TR/xmlschema-1>
XML Schema Part 1 – Structures
 - <http://www.w3.org/TR/xmlschema-2>
XML Schema Part 2 – Datatypes

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- WSDM-MUWS (de jure) – OASIS Standard
 - <http://docs.oasis-open.org/wsdm/2004/12/wsdm-muws-part1-1.0.pdf>
Fundamental Concepts
 - <http://docs.oasis-open.org/wsdm/2004/12/wsdm-muws-part2-1.0.pdf>
Messaging Formats
- WS-Management (de jure) – DMTF Preliminary
 - http://www.dmtf.org/standards/published_documents/DSP0226.pdf

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DMTF/PWG CIM Print Refresh Alliance

- Alliance – DMTF/PWG Work Register (April 2005)
 - Using DMTF CIM MOF (Managed Object Format)
 - Enable WS-Management and WSDM-MUWS
 - Both will use XML mapping of CIM by DMTF
- Phase 1 – Update Documentation (June 2006)
 - Descriptions, New Enums, Mapping Strings
 - CRs Approved by CIM Core WG (August 2006)
- Phase 2 – Add New Classes and Properties
 - Select Printer MIB Elements (September 2006)
 - <ftp://ftp.pwg.org/pub/pwg/wims/cim>
PrinterMibObjectsToAdd... (dated versions)

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DMTF/PWG CIM Print Refresh Sources

- IETF Printer MIB v2 (RFC 3805)
 - Print Device (General group)
 - Print Subunits (Channel, Input Tray, etc)
- IETF IPP/1.1 (RFC 2911)
 - Print Service and Print Job
- IETF Finisher MIB (RFC 3806)
 - Finishing Subunits (Stapler, Binder, etc)
- IETF Job Monitoring MIB (RFC 2707)
 - Print Job (many properties not in IPP/1.1)

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DMTF/PWG CIM Print Refresh Project

- PWG WIMS (Web-based Imaging Mgmt Svc) WG
 - Mailing List – wims@pwg.org
 - Subscribe – <http://www.pwg.org/mailhelp.html>
 - Archive – <ftp://ftp.pwg.org/pub/pwg/wims>
 - Teleconferences – Thursday 2pm US Eastern

Please join us!

Thanks