

Printer Working Group Activities & Status

Updated on 2009 March 26

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- PWG standards may include the known use of essential patents and patent applications provided the PWG Chair receives assurance from the patent holder or applicant with respect to patents whose infringement is, or in the case of patent applications, potential future infringement the applicant asserts will be, unavoidable in a compliant implementation of either mandatory or optional portions of the standard. This assurance shall be provided without coercion. This assurance shall be either:
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 - b) A statement that a license for such implementation will be made available without compensation or under reasonable rates, with reasonable terms and conditions that are demonstrably free of any unfair discrimination.
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2009 Membership

⌘ 366 Software ✦

- Apple Inc. ✦
- Canon, Inc.
- Coretronic

⌘ Dell ✦

- Epson

⌘ Fuji Xerox Co. Ltd. ✦

- Hewlett-Packard

× Intermate A/S (Kodak)

- InfoPrint Solutions ✦
- Konica Minolta
- Kyocera Corporation

⌘ Lexmark International ✦

⌘ Microsoft

⌘ MPI Tech ✦

⌘ MWA Intelligence Inc.

- NEC Display Solutions
- Northlake Software, Inc
- Oki Data

× Ricoh => InfoPrint Solutions

- Samsung Electronics

⌘ Sharp Labs of America ✦

× Sigma-Tel => Conexant

- Toshiba

⌘ Xerox Corporation ✦

- Zoran Imaging Division

⌘ Tykodi Consulting Services LLC.

⌘ Technical Interface Consulting ✦

⌘ Indicates 2009 Membership Paid

✦ Indicates Membership Agreement Signed

PWG Working Groups

[WIMS] • Workgroup for Imaging Management Solutions

[MFD] • Multifunction Device

[IPP] • Internet Printing Protocol

[IDS] • Imaging Device Security

[PDM] • Projector and Display Management

PWG Working Groups

- [WIMS] • **Workgroup for Imaging Management Solutions**
 - Defines new and recast existing imaging device and service management elements for mapping into standard management semantics and protocols. These protocols include, but are not limited to, SNMP, CIM and Web Services Management.

- [MFD] • **Multifunction Device**
 - Standardize the Multifunction Device (Print, Copy, Scan and Fax) model and semantics for interoperability of devices and services in local and enterprise networks. Improves job submission, job management, and remote administration/support.

- [IPP] • **Internet Printing Protocol**
 - The IPP working group has a modern, full featured network printing protocol standard. IPP remains active for the maintenance of IANA registrations and PWG/ISTO standards, and to support current and future work items.

- [IDS] • **Imaging Device Security**
 - Enable Hardcopy Device support in the Network Assessment Protocols that measures and assesses the health of client devices attached to enterprise class networks. Define a set of common assessment attributes for Hardcopy Devices. Liaison with specific Network Assessment Protocol efforts to include Hardcopy Device support.

- [PDM] • **Projector and Display Management**
 - Develop a management information model for installed video projectors and large-format displays. Establish an SNMP MIB for management and consistent semantic guidelines for embedded web servers and other management protocols, and a web services schema.

WIMS

- Concerns
 - Remote management of Hardcopy Devices. Define new and recast previous device and service management elements into a standard management semantics and protocols for SNMP, CIM, and Web Services Management
 - Update and extension of the DMTF/CIM classes concerned with hardcopy devices and services.
 - Support and update of the printer-related PWG and IETF MIB's
- Doing
 - Update and extensions, as required of IETF and PWG Printer, and related MIB documents
 - Promoting WIMS basic public management elements structure for Hardcopy Services and Devices over various management protocols and methods.
 - Update, Create and Prototype DMTF/CIM Imaging “Managed Object Formats” (MOFs)
- Not Doing
 - Hardcopy Service and Device security issues.
 - Define management services or protocols.
- Current Activities
 - Updating Print Service Schema based on IPP semantics and considerations from IPP WG.
 - Prototype Proxy CIM Provider that translates CIM to MIB to CIM.
- Proposed Activities
 - Developing Power Management semantics and management data.
 - Network Printer Profile for CIM (Identify management elements for a network printer.)
 - Update “Printer Port Monitor MIB” spec, provide interoperability testing and propose as a PWG standard.
 - Create an Multifunction Device MIB or extend current Printer MIB for HFDs.

MFD

- Concerns
 - Modeling of imaging services and subunits that comprise a network connected Multifunction Device.
 - Standardize semantic definition for an MFD's Subunits, Services, Jobs and Documents.
 - Define a framework for the complete MFD model.
- Doing
 - Create standards related documents for:
 - ◆ Overall MFD Specification
 - ◆ MFD Schema
 - ◆ Scan Service
 - ◆ Resource Service
 - ◆ Fax In Service
 - ◆ Fax Out Service
 - ◆ Email In Service
 - ◆ Email Out Service
 - ◆ Copy Service
 - ◆ Transform Service
- Not Doing
 - Compound or Composite Services.
 - No Workflows.
- Current Activities
 - The Scan Service is in 2nd PWG Members Last Call
 - The Resource Service Semantic Model and Service Interface ready for PWG Member Last Call.
 - The Fax Out Service specification stated but suspended to work Overall MFD Specification
 - The Overall MFD Specification is current specification under development.
 - The Schema and WSDL files are being updated to match abstract model of Overall MFD spec
- Proposed Activities
 - Create standards related documents for:
 - ◆ Fax In Service
 - ◆ Email In Service
 - ◆ Copy Service
 - ◆ Email Out Service
 - ◆ Transform Service

IPP – Version 2.x

- Concerns
 - Having a coherent IPP Specifications corresponding roughly to three printing/print-environments; namely, SOHO, Office/Enterprise and Production Print environments.
- Doing
 - Creating IPP2.0, IPP2.1 and IPP2.2 Specifications for identified print environments.
 - Create IPP Printer State Reasons Extension (PSX)
- Not Doing
 - Defining or creating any new attributes; only specify what existing attributes are required/optional
- Current Activities
 - IPP 2.0: Published final “Stable Draft”: Working Group last call ended March 6, 2009: PWG Member last call ends April 27, 2009
 - IPP 2. 1: Published second “Stable Draft”:
 - IPP 2.21: Published second “Stable Draft”:
 - PSX: Published first/final “Stable Draft”: PWG Member last call ends April 27, 2009
- Proposed Activities
 - None at this time

IDS

- Concerns
 - Device access to corporate networks is extending beyond authentication to an assessment of the device. Assessment, for example, pc include OS Type, Version, Patch Level, Anti-virus Type, Version, Definition Level, Is Active and related. However, no such assessment or metrics exist for Hardcopy Devices that want access to corporate networks.
- Doing
 - Defining Hardcopy Device metrics to be measured and assessed before granting access to the network.
 - Target for now are NAP and NEA.
 - Network Access Protection (NAP) is a new platform and solution that controls access to network resources based on a client computer's identity and compliance with corporate governance policy.
 - Network Endpoint Assessment (NEA) architectures assesses the "posture" of endpoint devices for the purposes of monitoring compliance to an organization's posture policy and optionally restricting access until the endpoint has been updated to satisfy the posture requirements.
 - • Defining example "bindings" for how these metrics are used in the individual network assessment protocols.
- Not Doing
 - NOT defining any new assessment protocols or assessment extensions to existing authentication protocols.
 - NOT endorsing any of the competing network assessment protocols (TNC, NAC, NAP), but plan to enable Hardcopy Devices to participate in any/all of them.
- Current Activities
 - HCD Assessments Attributes documents completed.
 - HCD-NAP Binding Document is almost final: Working Group last call started; complete in Q1 2009.
 - HCD-NEA Binding Document: Q1-Q2-2009- Start and finish writing the NEA Binding document
 - Continue discussions with Microsoft and Cisco to finalize and endorse IDS Bindings: Q1-Q2-2009
- Proposed Activities
 - None at this time