Semantic Model Working Group
Wednesday, Feb 4, 2015
El Segundo, CA

Daniel Manchala (Xerox)
SM Meeting Agenda

Session (9:00 AM-12:00 PM PT)

• Intro Agenda: IP Policy, status of current specifications (9:00 – 9:15)

• JDFMAP (09:15 – 10:30)

• Break (10:30 – 10:45)

• 3D Printing BOF (10:45 – 11:55)
Purpose of the effort

The Semantic Model working group is concerned with the modeling of imaging services and subunits that comprise a network connected Imaging System. The Objectives are:

- The definition of a framework for the complete Imaging Semantic Model.
- Drive to a standard semantic definition for an Imaging System’s Subunits, Services, Jobs and Documents.
- Agreement on the semantics of their attributes, operations and parameters.
Semantic Model Meeting Logistics

- The documents and schema used are available from the SM page [http://www.pwg.org/sm3](http://www.pwg.org/sm3)

- The phone bridge and WebEx will be the same as used throughout the meeting

**Officers**
- Daniel Manchala (Xerox) – Chair
- Paul Tykodi (TCS) – Vice Chair
- Secretary (need to fill this position)

**Document Editors**
- Michael Sweet - PPDMAP
- Nancy Chen – CWMP Printer Data Model
- Daniel Manchala (Xerox) – SM3, SM3 Schema
- Ira McDonald (High North) – JDFMAP, CWMP Printer Data Model
- Paul Tykodi (TCS) – SM3
- Bill Wagner (TIC) – SM3
- Rick Yardumian (Canon) – JDFMAP
- Jeremy Leber (Lexmark) – SM3
Active Documents

• **Mapping Related Standards**
  - CIP4 JDF to PWG PJT mapping (JDFMAP)
    - Completed most of the elements in the table (except for JDF binding objects to PJT Binding collection)
  - Adobe PPD to PWG PJT mapping (PPDMAP)
    - Issue stable draft and advance to PWG last call.

• **Semantic Model 3.0**
  - Imaging System (with Services and Subunits)
    - Add Transform Spec and Use-cases
    - Subscriptions and Notifications (to Schema and Spec)
  - Jobs and Documents
JDFMAP

• CIP 4 JDF to PWG PJT mapping
• Meetings from July 2014 through April 2015 (Mondays 7:30 – 8:30 AM PT)
  • Attended by (Rainer Prosi, Ira McDonald, Paul Tykodi, Rick Yardumian, Daniel Manchala)
• Next meeting 9 & 16 February, 2015
• Document under review
• Important Changes
  • All top level MediaType are placed under MediaCol.
  • Complex mapping sections are mostly complete.
  • JDF to PJT Job State Mapping is done.
Schema Status

- **Named version (v1.185) published for Print Job Ticket and Associated Capabilities**
- **Latest (v2.904) Up to date with In Progress specifications**
  - Cloud Print extensions (WIP – WSDL operations needs update)
SM 3.0 Schema

- **Changes to make it to work on systems with proxy connection**
  - Make sure all references to other XSD files are local (schemaLocation)
  - We don’t use DTDs (comment them)
  - http.xsd refers wsdl.xsd (missing)

- **Newly added / modified xsd files**
  - PwgSecurityOpMsg.xsd
  - PwgWellKnownValues.xsd
  - Security.xsd
  - ServicesOperations.xsd
  - PwgSystemControl.wsdl

- **Version 2.904 is the latest version on web site.**
  - It is error free
  - It has a few warnings in dcterms.xsd
On-hold and Potential Documents

• On-hold Documents
  • CWMP Printer Data Model

• Potential Documents
  • Subject to volunteers to be Editors
  • Mapping of MSPS to PWG PJT (MSPSMAP)
  • Service Integration with Workflow Environments v1.0
    • Using PWG SM Services in workflow environments, this document will describe how to combine PWG Semantic Model services in order to support workflow and job transfer solutions.
Next Steps

• **Continue SM 3.0 work.**

• **Update SM 3.0 outline**

• **Update SM charter with new work items**
  - Digital in/out is domain of transform service
  - Print is digital documents to hardcopy output to one of services output devices
  - Scan is hardcopy input to digital documents
More Info/How to participate

- We welcome more participation from member companies
- The group maintains a Web Page for Semantic Model that includes links to the latest documents, schema and a browse-able version of the schema at http://www.pwg.org/sm3
- Next meeting – Feb 26, 2015; 11:00 – 12:00 PDT / 2:00 – 3:00 PM EDT.

Call-in toll-free number (US/Canada): 1-866-469-3239

Call-in toll number (US/Canada): 1-650-429-3300

Call-in toll number (US/Canada): 1-408-856-9570

https://ieee-isto.webex.com/ieee-isto
More Info/How to participate

• Information on subscribing to the Semantic Model mailing list is available at
  <https://www.pwg.org/mailman/listinfo/sm3>

• SM holds periodic phone conferences, with dates, call numbers and agenda announced on the SM3 mail list.
Appendix
Approved Documents

Print Service: Approved January 2004

- PWG5105.1:
  PWG Semantic Model Specification Version 1.00

Scan Service: Approved April 2009

- PWG5108.02-2009:
  Network Scan Service Semantic Model and Service Interface Version 1.0

Resource Service: Approved July 2009

- PWG5108.03-2009:
  Network Resource Service Semantic Model and Service Interface Version 1.0
Approved Documents

MFD Common Semantics: Approved April 2011

- PWG5108.01-2011: MFD Model and Common Semantics Version 1.00

Copy Service: Approved June 2011

- PWG5108.04-2011: Copy Service Semantic Model and Service Interface Version 1.00

MFD Requirements: Approved September 2010

- Multifunction Device Service Model Requirements
Approved Documents

FaxOut Service: \textit{Approved August 2011}

- PWG 5108.05-2011: FaxOut Service Semantic Model and Service Interface Version 1.0
- \url{ftp://ftp.pwg.org/pub/pwg/candidates/cs-sm20-faxout10-20110809-5108.05.pdf}

System Control Service: \textit{Approved February 2012}

- PWG 5108.06-2011: System Object and System Control Service Semantics Version 1.0
- \url{ftp://ftp.pwg.org/pub/pwg/candidates/cs-sm20-system10-20120217-5108.06.pdf}

Print Job Ticket: \textit{Approved August 2012}

- PWG 5108.07-2012: PWG Print Job Ticket and Associated Capabilities Version 1.0