

# Semantic Model Workgroup Meeting Minutes

## April 29, 2015

Meeting was called to order at approximately 9:00am PT April 29, 2015.

### Attendees

Rainer Prosi (Heidelberg, CIP4 CTO - call in)  
Aveek Basu (Lexmark)  
Till Kamppeter (Canonical)  
Smith Kennedy (HP)  
Jeremy Leber (Lexmark)  
Daniel Manchala (Xerox)  
Ira McDonald (High North)  
Matthew Morikawa (Kyocera)  
Joe Murdock (Sharp)  
Mike Sweet (Apple)  
Paul Tykodi (TCS - call in)  
William Wagner (TIC)  
Rick Yardumian (Canon - call in)

### Agenda Items

1. IP Policy/Minutes
  - a. IP policy announced, Mike Sweet taking minutes
2. Slides:
  - a. [http://ftp.pwg.org/pub/pwg/sm3/slides/Semantic-Model-Apr\\_15-meeting.pdf](http://ftp.pwg.org/pub/pwg/sm3/slides/Semantic-Model-Apr_15-meeting.pdf)
  - b. Charter changes:
    - Move AFPMAP, CWMP, MSPSMAP, and PPDMAP to "currently suspended" projects
    - Add notifications and IDS stuff to description of the SM 3.0 Imaging System spec
    - Order is: Active, Suspended, and then Potential Projects
    - Action: Paul to update SM charter.
  - c. Ira will start an email thread to schedule the next JDFMAP conference call in May.
  - d. Schema updates:
    - Add copyright notice (as an annotation) to every file.
    - Main schema file has full copyright notice from second page of PWG template.
    - Other files refer to the main schema file.
  - e. Q: What takes precedence of the syntax and semantics of the operations - the WDSL or the text specification?
    - A: The spec defines the semantics and has precedence for

semantics, the WSDL/schema defines the syntax and has precedence for the syntax.

- f. Q: Is the schema/WSDL part of the last call and formal vote of a spec?
    - A: Yes, just as the ABNF and other referenced files are.
  - g. Changes to make it work on systems with proxy connection:
    - Reword - this is an issue with tools using a HTTP proxy to access the files, nothing to do with Cloud Proxy...
  - h. Last slide - please update to reflect participation from all interested parties
3. JDFMAP Review:
- a. <http://ftp.pwg.org/pub/pwg/sm3/wd/wd-smjdfmap10-20150424-rev.pdf>
  - b. Section 4.1, fix numbered list for notes
    - Global: Check for lost bullets/numbered lists
  - c. Table 1:
    - Fix/add "or" between CuttingParams, PerforatingParams, and CreasingParams
    - Shade the table header
  - d. Section 4.1.1, line 359: Add colon (PWG PJT Mapping: Binding)
  - e. Section 4.1.2, line 362: Add colon (PWG PJT Mapping: BindingType)
  - f. Section 4.1.12, line 451: Add "an" (... interacts in AN implementation-specific ...)
  - g. Section 4.1.24 (Overrides): Add a forward reference to a new section 4.3 JDF RunLists
  - h. Section 4.1.25 (OverridingElements): Add a forward reference to a new section 4.4 JDF Partitioning Resources
  - i. Table 2 (Rendering Intent): Add reference/note about Relative/RelativeBPC (both do white point compensation, BPC = add black point compensation), reference JPS3
  - j. Section 4.1.33 (Trimming):
    - Lines 620-622 (last sentence): Break out and make "Note: The JDF Trimming element is not used ...."
  - k. Section 4.1.35 (XImage Layout):
    - Move second note (lines 662-664) before the first note (lines 649-651)
    - Line 670: "cutoff margins widths" -> "cutoff margin widths"
    - Line 675: Instead of "section above" use "section N.N.N"
    - Line 676: Delete dangling sentence
  - l. Section 4.1.36 (YImage Layout):
    - Re-order notes
    - Add reference back to XImage Layout section (for more details)
  - m. Section 4.2:
    - End-sheet glueing applies to hardcopy binding (PJT adhesive is just the glue, not the cover)
    - Attach notes to elements in tables
    - Line 720: Drop trailing "JDF", check whether something else was intended
    - Action: Mike to register "wire-comb" binding-type value in IPP IANA registry

- Action: Daniel to add "WireComb" BindingType value in SM3 Schema WKV
- Add mapping for WireComb
- Add note for RingBinding (putting output in 2/3-ring binder), for PJT we just do punching of the holes ("SHOULD be mapped to Punching")
- Table 3:
  - StripBinding is Velo (confirmed)
- Table 4:
  - Hardcover should not map to Adhesive (not precise)
  - Add a note for "None" (don't specify binding to disable binding)
  - Remove ? from Velo
- Augment note 4 to sewn/sewing (it is related)
- n. Section 4.3 (Mapping JDF Job State...)
  - Line 739: "... is between system ABORT and ..."
  - Move comment text into first paragraph - state is all about job receipt, "SHOULD" mappings because PJT is Job State not Job Receipt state.
  - Table 5: Combine Aborted rows - "Aborted or Canceled (note 1)"
  - Add JobStateReasons for ephemeral states
  - Setup is holding for operator setup/load/prep for printing of job.
  - Waiting is JobIncoming JobStateReason
  - Just add a column (PWG JobStateReasons) for keywords (if any)
- o. Section 6, line 798: Remove "+" at end of line.
- p. Next draft will be a prototype draft
- 4. Discussion of Cloud changes (copied from Cloud minutes)
  - a. <http://ftp.pwg.org/pub/pwg/cloud/slides/Cloud-WG-Meeting-April-2015.pdf>
  - b. FaxIn, EMailIn/Out can go in an informative appendix - services that can be managed and monitored, policies set, but not something a client interacts with
  - c. For capability elements, add "Supported", "IsSupported", "SupportedValues", etc. - consensus is to consistently add suffixes to all Capability elements.
  - d. Add all operations, elements, and the Proxy role
- 5. Discussion of IDS changes
  - a. Add security ticket chain to every object in the model
    - Ticket is mandatory, only the name, role, and types of access are required elements in the ticket
    - Ticket is attached to object but not accessible via Get<object>Elements
      - Instead Get<object>SecurityElements operations provide secured, read-only access.
    - Ticket is a chain to track each user/role that has touched the object
  - b. Ticket chain should also record operations on the object
    - For example, a Job is held/released/changed by an operator
    - Just the high-level usage/manipulation of the objects, not reads/

queries?

- Need to identify the level of detail needed
  - Goal is to allow for quick security checks, with log files to provide the details
- c. Ticket chain needs digital signature and timestamp to validate content of chain
    - plus each ticket has a signature and timestamp
  - d. Ticket chain memory usage may be an issue - make sure the model doesn't drive inefficient implementations
    - Service ticket chain could time out old entries, basically provide a history of accesses
  - e. Also, do we want to track security tickets for violations that are logged?
  - f. Continue discussion in IDS meeting.
6. Discussion of Notification changes
    - a. Did not get to this.
  7. Imaging Job Ticket
    - a. Did not get to this.

## **Next Steps / Open Actions**

- Next meeting is May 18, 2015 at 2pm ET
- Action: Paul to update SM charter.
- Action: Mike to register "wire-comb" binding-type value in IPP IANA registry
- Action: Daniel to add "WireComb" BindingType value in SM3 Schema WKV