

Semantic Model Workgroup Meeting Minutes

August 24, 2016

The Semantic Model Workgroup Face-to-Face Meeting was called to order in Camus, WA at about 1:30 PDT on August 24 2016 and ended about 4:15 PDT.

1) Administrivia and Introduction

- (a) Slides: <ftp://ftp.pwg.org/pub/pwg/sm3/slides/Semantic-Model-August-2016-meeting.pdf>
- (b) Daniel Manchala (chair) officiated.
- (c) Minutes Taker: Bill Wagner
- (d) Attendees
 - a. Smith Kennedy (HP)
 - b. Takuya Katayama (Intel)
 - c. Daniel Manchala (Xerox, SM Chair)
 - d. Joe Murdock (Sharp - cameo appearance)
 - e. Michael Sweet (Apple)
 - f. Paul Tykodi (TCS, SM Vice-Chair)
 - g. Bill Wagner (TIC, SM WG Secretary)
 - h. Craig Whittle (Sharp)
 - i. Rick Yardumian (Canon)
- (e) Acceptance of Minutes
 - The minutes of the previous SM3 conference call (<ftp://ftp.pwg.org/pub/pwg/sm3/minutes/SMWG-sm3-Minutes-20160808.pdf>) were accepted

2) Project Status (see F2F slides referenced above)

- (a) Mapping CIP4 JDF to PWG Print Job Ticket v1.0 (JDFMAP)
 - (i) The latest draft is posted at <ftp://ftp.pwg.org/pub/pwg/sm3/wd/wd-smjdfmap10-20150604.pdf>
 - (ii) This draft is at 'prototype' level, and has been awaiting prototype results.
 - (iii) The prototype requirements are posted at <ftp://ftp.pwg.org/pub/pwg/sm3/white/JDFMAP-Prototyping-Requirements.pdf>
 - (iv) Although prototypers are being solicited, no one has volunteered yet
- (b) Update and Finalization - Semantic Model 2 (SM 2)
 - (i) Little progress made.
 - (ii) There are continuing questions which should be resolved with IPP WG help
- (c) Generations of Semantic Model 3 (SM 3)
 - (i) Although SM3 efforts were nominally to wait until after SM2 is finalized, preliminary work on the 3D Print Service has been started.

3) PWG 2D & 3D Printing Job Ticket Efforts

- (a) There was extensive discussion of the appropriate format for examples of PWG Job Tickets (as well as Service Capabilities and Job Receipts) to be included in the SM Web Page.
 - (i) One suggestion was that XML was inappropriate, and that PAPI (an IPP format devised by Open Printing) should be used.
 - (ii) Conclusion was that Semantic Model uses XML because it is a well known format, with extensive tools for handling and presentation, to present the content and intent of the PWG Semantic Model, including the Job Ticket, Job Receipt and Service Capabilities. The Semantic Model documentation should not be constrained by the IPP implementation nor should it use a relatively obscure format. Continued use of XML is preferred.
- (b) It was agreed to provide Print Job Receipt examples corresponding to Print Job Ticket examples, and to make Service Capability examples compatible with Print Job Ticket examples. This is to be done for both 2D and 3D Print Jobs.

4) 3D Print Service Efforts

- (a) Daniel provided an example of Print 3D Service capabilities, part of a Print 3D Service model that he is generating.
- (b) Agreed to use Print 3D as the service name rather than 3D Print because of XML name conventions.
- (c) Specific questions addressed:
 - (i) Compression - use same element as for 2D, perhaps add more possible values
 - (ii) DocumentFormatSupplied - use same element as for 2D, perhaps add more possible values; keep 'supplied' to distinguish supplied (e.g., for printing) from generated (e.g., for scanning)
 - (iii) Remove collation, impressions, sheets, and page order kind of elements as inappropriate for 3D printing

5) Update and Finalization - Semantic Model 2 (SM 2)

- (a) The approach of starting with IANA IPP attributes and correlating them to Semantic Model elements via a complex spreadsheet was discussed
- (b) Specific Issues
 - (i) For SM2, add Collection complex elements in addition to existing simple elements to fully reflect IPP collection additions. For SM3, eliminate simple element in favor of complex element, ensuring that rollup value is included in complex element. Also, for SM3, try to ensure consistent use of 'collection' type elements as applicable.

- (ii) IPP 'Page' attributes should map to similar model page elements, with page referring to the formatted input document and used for such things as "NumberUp" parameters

6) Next Steps and Action Items

- (a) Next Semantic Model Workgroup conference call will be at 3PM EDT, September 12, 2016.
- (b) Action Items:
 1. Contact PWG members to prototype JDFMAP pending JDFMAP requirements (Paul)
 2. Continue extract and remap names of IPP registry elements (Bill)
 3. Generate sample 3D Print Job Ticket (Paul)
 4. Continue with first cut at Print 3D Service schema (Daniel)
 5. Create first cut 2D Print Job Receipt corresponding to 2D Print Job Ticket (Bill)
 6. Smith Kennedy requested that current projects be broken into defined tasks, with schedules, for ability to create process charts for each chartered project.

Submitted by Bill Wagner 5 September 2016