

## Semantic Model Workgroup Meeting Minutes December 7, 2016

The Semantic Model Workgroup Conference Call was called to order at approximately 1:10PM EST December 7, 2016.

a) Attendees

Jeremy Reitz (Xerox)  
William Wagner (TIC)  
Pete Zehler (Xerox)

b) Agenda

Because of the minimal attendance, the fact that Pete had recently generated the Print3D Service model, and the understanding that Pete may not be available for future SM WG conference calls, the posted agenda was abandoned and the call concentrated on a discussion of the Print3D Service model. Pete displayed an XML Spy pictorial of the model represented in version 2.907 of the schema on a Webex provided by Jeremy.

c) Discussion

- i) Pete noted that the model did not allow for multiple Print3D Services, as is done for all other imaging services. He indicated that he will correct that and email the updated schema to the SM WG officers. However, this omission has no effect on the validity of the Print3D Model itself.
- ii) Although other imaging services were structured to include the general Imaging Service base type, this was inappropriate for the Print3D Service because the Imaging Service type referenced 'sheets' and perhaps other elements not applicable to 3D imaging. Although the Imaging Service base type (and the other services) could have been modified to allow this approach to be used for 3D services, Pete chose to make the Print3D Service its own base type. The inclusion of the Imaging Service was done in the past to simplify the definition of the other service models; however it was thought preferable to avoid this in the future to allow better schema validity checks. If and when the Scan3D Service model is defined, it will also be its own base type.
- iii) The Print3D Service model does reference elements defined for other imaging systems and listed in PwgCommon.xsd, and elements added specifically for the Print3D Service are included in PwgCommon. Also, the values and enums appropriate to the Print3D Service elements are defined in the PwgWellKnownValues.xsd file, along with those for all other imaging services.
- iv) Pete created both a Print3D Job Ticket schema (Print3DJobTicket.xsd) and 3D job ticket examples (Print3DJobTicket.xml and Print3DJobTicket.json). Although some of the values in the examples may be unusual (e.g., DocumentNaturalLanguage of French, although all text is in English), the examples do provide a sample of what might be included in a job ticket.
- v) Jeremy asked how the Print3D model should be reviewed and approved.
  - (1) Bill indicated that there was a process that required posting of the XSD and HTML displayable versions for review and ultimate approval, although it was assumed that approval would be for the entire model, not just the Print3D Service (although that might be appropriate)

- (2) Pete suggested that, since the model merely reflected what would be approved in the IPP spec, there was no need to separately approve the model
- (3) Regardless, there must at least be a review, either by or in conjunction with the IPP workgroup to ensure that the model does properly reflect the IPP specification.

d) Action Items

- i) Pete will make the appropriate updates to the Schema, particularly adding the provision for multiple Print3D Services. The files will be emailed to the SM WG officers.
- ii) Jeremy, will seek to get the Liquid XML tools from Paul, and will use these to generate HTML browsable pictorials of the System model.
- iii) Bill will post the XSD, XML and HTTP files on the PWG GitHub and FTP sites and properly notify the PWG membership.
- iv) Bill will determine how to update the SM portion of the PWG Website, and draft revised text and examples showing and referencing the Print3D work as "in Process" efforts for which comment is sought. .
- v) The next PWG Semantic Model workgroup conference call is scheduled for 1PM ET on 11 January, 2017.

*Submitted by Bill Wagner 13 December2016*