Semantic Model Workgroup Meeting Minutes
June 6, 2016

The Semantic Model Workgroup Conference Call was called to order at approximately 3:00PM EDT June 6, 2016.

1) Attendees

        Daniel Manchala (Xerox)
        William Wagner (TIC)

2) Agenda

Because of the minimal attendance, standard agenda items were put off until next scheduled conference call, assumed to be July 11.

3) Discussion

An attempt was made to proceed with the analysis of the IANA-derived IPP information on ftp://ftp.pwg.org/pub/pwg/sm3/white/elements-IANA-registry-20160605.xlsx. Several questions arose:

a) **It was agreed previously that recently IPP deprecated elements would not be removed from the model but would be flagged as deprecated in the description. However the Model includes a "PWGDeprecated.xsd file. How does inclusion in that file reflect into the overall model?**

b) **Some of the newer IPP attributes appear to provide finer resolution of information on Jobs and Documents. One question is whether we want this finer resolution in the Model. Another issue is understanding whether/why the increased resolution is not provided for all variations of the IPP attribute.**

  i) **For example, 'impressions-col' is added to Document Description, and 'job-impressions-col' to JobDescription, each providing counts of various types of impressions.**

    (1) **It appears that the corresponding changes would be to add an ImpressionsCol complex element to PrintDocumentDescription and PrintJobDescription types in the model.**

    (2) **But then is the simple element Impressions (count) to be retained in these types; or should there be an "all" subelement in ImpressionsCol?**

  ii) **There is a 'job-impressions-completed-col' attribute added to Job Status and a 'impressions-completed-col' added to Document Status.**

    (1) **Corresponding changes to the model would be adding a ImpressionsCompletedCol complex element to PrintJobStatus and PrintDocumentStatus types.**

    (2) **But then is the simple element ImpressionsCompleted to be retained in these types; or should there be an "all" subelement in ImpressionsCompletedCol?**

  iii) **With the finer resolution of impressions, one might expect that there would be a new impressions-completed-current-copy-col in Job Status and Document Status. But not only is there none, the impressions-completed-current-copy attribute is deprecated from JobStatus, but not from Document Status.**

    (1) **A consistent approach would be to add an ImpressionsCompletedCurrentCopyCol in PrintJobStatus and PrintDocumentStatus types**

(2) That would, of course, leave the question of what to do with the simple element ImpressionsCompletedCurrentCopy in these two types.

iv) There is a parallel situation with 'media-sheets-col', which has been added to Document Description and job-media-sheets-col which has been added to JobDescription.

(1) It appears that the corresponding changes would be to add an MediaSheetsCol complex element to PrintDocumentDescription and PrintJobDescription types in the model.

(2) But then is the simple element MediaSheets to be retained in these types; or should there be an "all" subelement in MediaSheetsCol?

v) Similarly, there is media-sheets-completed-col added to Document Status and job-media-sheets-completed-col added to Job Status, presumably to allow count of different kinds of medis sheets.

(1) Corresponding changes would be to add MediaSheetsCompletedCol complex element to PrintJobStatus and PrintDocumentStatus types.

(2) Again, what then happens to the simple MediaSheetsCompleted element in these two types?

vi) What of job-media-sheets-supported under Printer Description? Is there no attribute for reporting whether the counts of different kinds of media sheets are supported?

vii) The set of questions also might apply to the 'pages-col' addition to IPP Document Description and 'job-pages-col' under IPP Job Description. Corresponding changes might be to add PagesCol complex element to PrintDocumentDescription and PrintJobDescription. Except:

(1) The model does not count pages, but impressions (what are IPP pages? My understanding is that pages refer to logical content groupings formatted in the defining file, which impressions refer to passes through the marker.))

(2) In the PrintDocumentsDescriptionType and PrintJobDescriptionType the model does include a simple Impressions (count) element. Indeed these could be replaced with an ImpressionsCol complex element.

(3) Again, there is the question of "impressions total".

viii)   IPP does add 'pages-completed-col' and ' job-pages-completed-col' attributes to IPP Document Status and Job Status respectively.

(1) In the PrintDocumentStatusType and PrintJobStatusType the model includes simple count elements ImpressionsCompleted and ImpressionsCompletedCurrentCopy (which could be replaced by collections). (IPP has deprecated 'impressions-completed-current-copy' from Job Status but not apparently from Document Status. ... am I getting into a page/impression confusion?)

(2) But these model types also include PrintCounters which already separate counts of kinds of impressions into Impressions, MonochromeImpressions, BlankImpressions, FullColorImpressions' HighlightColorImpressions, ImpressionsTwoSided,

MonochromeImpressionsTwoSided, BlankImpressionsTwoSided, FullColorImpressionsTwoSided, HighlightColorImpressionsTwoSided, and InputKOctets. This includes the 'full-color' and 'monochrome' kinds in the IPP 'pages-col' and 'job-pages-col' attributes.

(3) The model does include an Impressions (bool) element in PrintDocumentDescriptionCapabilitiesType and the PrintJobDescriptionCapabiliesType. ImpressionsSupported count element. IPP provides a range of integers attribute of 'job-impressions-supported' in the Printer Description, but no "document-pages-supported".

4) **Action Items and Next Steps**

a) **Paul to contact PWG members to prototype JDFMAP.**

b) **Bill to continue working on IANA IPP element list for SM2**

c) **Issues out of this discussion to be considered in conjunction with IPP WG.**

d) **Next Semantic Model conference call would be on June 20. I will out of the country and not available, but Daniel may call a meeting. The SM meeting after that would be on 4 July, but since that is a holiday, we will schedule conference call at 3PM EDT on July 11. Happy Summer!**

Submitted by Bill Wagner 9 Jun 2016