PWG Semantic Model Working Group Teleconference Meeting Minutes
January 26, 2012

Attendees:

Nancy Chen,	OkiData
Ira McDonald	Samsung, High North
Glen Petrie	Epson
Mike Sweet	Apple
Jerry Thrasher	Lexmark
Paul Tykodi	Tykodi Consulting Services LLC
Bill Wagner	TIC
Peter Zehler	Xerox

1. **Identify Minute Taker –** Peter Zehler

2. **PWG Process**
   Attendees were informed that the meeting is held in accord with the PWG Intellectual Property Policy. There was no objection.

3. **Approval of Minutes**
   The last meeting minutes: <ftp://ftp.pwg.org/pub/pwg/mfd/minutes/pwg-mfd-minutes-20120119.pdf> were accepted.

4. **Agenda bashing**
   No objection to the agenda.

5. **Discuss Transformation Service**
   a. We will be looking at the Schema and WSDL and discussing the service at a high level.
      i. LiveMeeting participation will be helpful.
   b. What types of transforms should be allowed in the Transform Service?
      <PZ>Any type of transform will be allowed. </PZ>
      <PZ>Transforms are not registered with the PWG. Vendors define their own.</PZ>
      <PZ>PWG will register transform class/type to bundle similar transforms together.</PZ>
         <PZ>Basic transform is 'Convert' which will take one document format and convert it to another (e.g., MS Word to PDF)</PZ>
         <PZ>The other types are 'Imposition', 'Collation', 'Image' and 'DataExtract'.</PZ>
         <PZ>There are no mandatory transforms for a Transform Service to support</PZ>
      <PZ>Note that this will cause multiple definitions for a transform (e.g., OCR, Color correction).</PZ>
      <PZ>There is only a single transform per job.</PZ>
         <PZ>A TransformServiceJob is not a workflow.</PZ>

47   `<PZ>`The intent is that a TransformServiceJob, or any of the
48   service jobs in the PWG model, can be used in a workflow.`</PZ>`
49   `<PZ>`The PWG has not discussed an orchestration service.
50   However they haqve been defined elsewhere to define a
51   business process.`</PZ>`
52   `<PZ>`If there are multiple steps within a transform implementation
53   the TransformServiceJob must either completely succeed or
54   fail.`</PZ>`
55   `<PZ>`Multiple documents s are accepted as input. A single output
56   document format is produced. (See 5.c.ii)`</PZ>`
57   `<PZ>`The transform Service need not be hosted on an MFD. It can be
58   hosted elsewhere(e.g., cloud based).`</PZ>`
59   c. Can transforms be named?
60   `<PZ>`Yes`</PZ>`
61   i. If so how are transforms named?
62   `<PZ>`Transforms are identified by output document format & a
63   name`</PZ>`
64   ii. Prototype experience used output document format
65   (MIME/Namespace) to "name" a transform
66   `<PZ>`More is needed since any given output document format may
67   be produced by a number of transforms.`</PZ>`
68   d. What do capabilities for a transform service mean?
69   i. How doe existing capabilities handle Transform Service
70   Capabilities?
71   `<PZ>`We will reuse existing processing semantics whenever they
72   are applicable.`</PZ>`
73   `<PZ>`GetSupportedJobElements can return values "colored" by
74   DocumentFormat, TransformType and TransformName.`</PZ>`
75   ii. How are the capabilities of complex transforms (e.g. red eye
76   correction, OCR) represented?
77   `<PZ>`Complex transform specific capabilities can be handled via
78   the more info URL.`</PZ>`
79   e. How far into the PWG model are transforms represented?
80   i. Completely modeled
81   `<PZ>`No`</PZ>`
82   ii. Embedded in PWG elements (e.g., element containing JSON,
83   Vendor representation in PWG container element)
84   `<PZ>`No generic container element will be defined.`</PZ>`
85   `<PZ>`The existing vendor extension mechanism is available for the
86   Transform Service just as it is in any other PWG SM based
87   service`</PZ>`
88   iii. Partial representation (e.g., existing semantics used, transform
89   specific instructions treated as a Document within the Job, detailed
90   capabilities contained in a transform specific document)

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91          <PZ>Inputs to complex transforms such as scripts, templates or
92          control files are treated as additional documents in a multidocument
93          TransformServiceJob.</PZ>
94          <PZ>A more info URL will be added to provide a link to
95          vendor/transform specific information.</PZ>
96
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6. Next Steps

- Add transform name to list operation, expand transform definition
- Update & publish Schema
- Create & send out proposed SM agenda for Face to Face
- Next meeting is Face to Face

7. Issues/Face to face discussion items

- How are the names of transforms federated?
- Need fleshed out list and definitions for transform types/classes
- Is there a Transform database?
- Are Transforms weighted or have a cost attribute?
    - Latency
    - Bandwidth
    - Processing load
    - Processing time
- How much does a service advertise?
- What information is available via service discovery?
- Can we come up with some concrete transform examples?
- Printers can leverage off box transforms
    - How would they be managed?
    - How would they be listed?