**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.

1. **Approval of Minutes**

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

1. **Agenda bashing**

No objection to the agenda.

1. **Discuss Transformation Service** 
   1. We will be looking at the Schema and WSDL and discussing the service at a high level.
      1. LiveMeeting participation will be helpful.
   2. 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>

<PZ>The intent is that a TransformServiceJob, or any of the service jobs in the PWG model, can be used in a workflow.</PZ>

<PZ>The PWG has not discussed an orchestration service. However they haqve been defined elsewhere to define a business process.</PZ>

<PZ>If there are multiple steps within a transform implementation the TransformServiceJob must either completely succeed or fail.</PZ>

<PZ>Multiple documents s are accepted as input. A single output document format is produced. (See 5.c.ii)</PZ>

<PZ>The transform Service need not be hosted on an MFD. It can be hosted elsewhere(e.g., cloud based).</PZ>

* 1. Can transforms be named?

<PZ>Yes</PZ>

* + 1. If so how are transforms named?  
       <PZ>Transforms are identified by output document format & a name</PZ>
    2. Prototype experience used output document format (MIME/Namespace) to “name” a transform

<PZ>More is needed since any given output document format may be produced by a number of transforms.</PZ>

* 1. What do capabilities for a transform service mean?
     1. How doe existing capabilities handle Transform Service Capabilities?

<PZ>We will reuse existing processing semantics whenever they are applicable.</PZ>

<PZ>GetSupportedJobElements can return values “colored” by DocumentFormat, TransformType and TransformName.</PZ>

* + 1. How are the capabilities of complex transforms (e.g. red eye correction, OCR) represented?

<PZ>Complex transform specific capabilities can be handled via the more info URL.</PZ>

* 1. How far into the PWG model are transforms represented?
     1. Completely modeled

<PZ>No</PZ>

* + 1. Embedded in PWG elements (e.g., element containing JSON, Vendor representation in PWG container element)

<PZ>No generic container element will be defined.</PZ>

<PZ>The existing vendor extension mechanism is available for the Transform Service just as it is in any other PWG SM based service</PZ>

* + 1. Partial representation (e.g., existing semantics used, transform specific instructions treated as a Document within the Job, detailed capabilities contained in a transform specific document)

<PZ>Inputs to complex transforms such as scripts, templates or control files are treated as additional documents in a multidocument TransformServiceJob.</PZ>

<PZ>A more info URL will be added to provide a link to vendor/transform specific information.</PZ>

1. **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
2. **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?