

Internet Printing Protocol Workgroup Meeting Minutes February 22, 2016

Meeting was called to order at approximately 4:00pm ET on February 22, 2016.

Attendees

Smith Kennedy (HP)
Emmet Lalish (3MF/Microsoft)
Daniel Manchala (Xerox)
Mike Scrutton (Adobe Systems)
Phil Spreier (3D PDF Consortium)
Mike Sweet (Apple)
Paul Tykodi (TCS)
William Wagner (TIC)
Rick Yardumian (Canon)

Agenda Items

1. IP Policy and Minute Taker
 - IP policy accepted, Mike taking minutes
2. Review previous minutes:
 - <http://ftp.pwg.org/pub/pwg/ipp/minutes/ippv2-concall-minutes-20160201.pdf>
 - <http://ftp.pwg.org/pub/pwg/ipp/minutes/ippv2-f2f-minutes-20160210.pdf>
 - Approved as posted
3. Slides:
 - <http://ftp.pwg.org/pub/pwg/ipp/slides/ipp-wg-20160222.pdf>
 - Status of PRC:
 - Open source implementation of PRC on Github
 - No significant differences between drafts and final ISO standard
 - Tolerances
 - PRC continues to extend to include all manufacturing information
 - 3MF can be extended to support it
 - Detecting PDF 3D content/versions
 - File format table of contents shows it
 - Conceptually have printers that support both 2D and 3D printing
 - PDF 2.0 capable viewers should support both U3D and PRC
 - PDF/E-1 guarantees U3D
 - PDF/E-2 require U3D, optional PRC? (checking)
 - Q: Could the PWG mandate support for both?
 - Adobe steered away from requiring both, saw it as too onerous
 - But we've historically had printers support more formats than clients

- For further discussion:
 - Option A: Mandate U3D and PRC for PDF/E-2
 - Option B: Add a pdf-features-supported attribute with 'u3d' and 'prc' values.
 - Extending existing "application/pdf" MIME media type probably not feasible, but we can define a 3D-specific MIME media type ("model/pdf")
 - Conversion from PRC to 3MF may be lossy since it doesn't support baselines (which need to be tessellated for 3MF)
 - Good enough for printing, not enough for round-trip conversions
 - Proposed Direction (3MF required, PDF recommended)
 - What about STL?
 - Not forward looking, too many issues (single material, "holes", etc.)
 - No strong objections, but concerns about adopting any format since there is no clear "winner" - lots of formats have come and gone.
 - Will document all of these discussions in the draft for further discussion in future meetings.
4. IPP 3D Printing Extensions
- <http://ftp.pwg.org/pub/pwg/ipp/wd/wd-ipp3d10-20160217-rev.pdf>
 - Did not get to this.

Next Steps / Open Actions

- Next IPP conference calls February 29, 2016 at 3pm ET and March 7, 2016 at 4pm ET (3D)
- Action: Mike to post updated RFC2911bis (DONE)
- Action: Mike will prepare a registration template for Canon media sizes and post to the IPP WG list (PENDING)
- Action: Mike to post registration templates for Job Password Repertoire (PENDING)
- Action: Mike to post registration template for trimming-type='draw-line' (PENDING)
- Action: Mike to post registration template for 'fold-engineering' (PENDING)
- Action: Mike to post registration template for orientation-requested in finishings-col (CLOSED, doing finishings 2.1 instead)
- Action: Mike to fix *-k-octets in IANA IPP registry - should be Status attributes (PENDING - do this with the Job Password Repertoire registrations)