3D Printing BOF Meeting Minutes April 28, 2015

Meeting was called to order at approximately 10:30am PT April 28, 2015.

Attendees

Aveek Basu (Lexmark) Till Kamppeter (Canonical) Smith Kennedy (HP - call in) Jeremy Leber (Lexmark) Daniel Manchala (Xerox) Ira McDonald (High North) Matthew Morikawa (Kyocera) Joe Murdock (Sharp) Mike Sweet (Apple) Paul Tykodi (TCS - call in) William Wagner (TIC) Rick Yardumian (Canon - call in)

Agenda Items

- 1. IP Policy/Minutes
 - a. IP policy announced, Mike Sweet taking minutes
- 2. Slides:
 - a. http://ftp.pwg.org/pub/pwg/BOFs/3d-printing/3d-bof-april-2015.pdf
 - b. IDC analyst gave a talk at RSA concerning security concerns about cloudbased 3D printing solutions
 - c. Don't focus on G-code/S3G because it exposes too much
 - d. Multiple materials:
 - Support material
 - In-fill material
 - Model material(s)
 - e. Also multiple colors in the future
 - f. Supports aren't they device-specific?
 - Yes and no very difficult to determine when they are needed
 - Need to draw a fine line on exposing device/technology specific info
 - h. File formats:

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q.

- STL is a dead-end but widely implemented
- DAE is open and could be extended to support materials, but not directly supported by most 3D slicer software
- AMF is closed and being developed/extended by ISO
- i. Scoping:
 - Stick with "personal manufacturing" printers
 - plus Cloud solutions

- with high-level formats (no G-code)
- j. Continue 3D BOFs with longer time slots
- 1. White Paper IPP 3D Printing Extensions (Mike):
 - a. http://ftp.pwg.org/pub/pwg/BOFs/3d-printing/wd-apple-ipp3d-20150413rev.pdf
 - b. Will update and review on mailing list and in conference calls.

Next Steps / Open Actions

- Continue to discuss white paper on 3d-printing@pwg.org list and potential conference call.
- Reach out to 3D printer manufacturers
- Action: Mike and Paul to contact ASTM about opening AMF spec (ONGOING)