

# **Workgroup for Imaging Management Solutions**

**Workgroup Session**

**Printer Working Group/WIMS  
Face-to-Face Meeting**

**June 10, 2010  
Webster, New York**

This meeting is being held in accord with the PWG Intellectual Properties Policy.

# WIMS Agenda



- 9:00 – 9:15 EDT      Startup and Introduction
  - Intellectual Property Statement
  - Identify Minute Taker
  - Introduce Participants
  - Acceptance of Previous Minutes  
(<ftp://ftp.pwg.org/pub/pwg/wims/minutes/wimslastphone.pdf>)
  - Consider Agenda
- 9:15 – 9:30      Status/Action Items Review
- 9:30 – 10:15    Imaging Power Management
- 10:15 – 10:40   MPSA Liaison Discussion      -
- 10:40 – 10:45   New Action Items & Wrap-up

# Status/Action Item Review

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- Additions to PrtInterpreterLangFamilyTC (Done)  
Submitted and incorporated (see detail)
- Review Print Service related MOFs, generate CRs, and submit to CIM (open: Rick L and Ira M)
- PWG BallotDevice ID "COMMAND SET" PWG spec (Done)  
10 Votes; 9 yes, 0 no, 1 Abstain – Document to be advanced to PWG Candidate Standard
- Power Management documents (Ira M - Ongoing)  
(see detail)
- MPSA Focus Group consideration of Imaging Power Issues

# Additions to IANA Printer MIB PrtInterpreterLangFamilyTC



- langJDF(68), CIP4 Job Definition Format - [http://www.cip4.org/documents/jdf\\_specifications/JDF1.4a.pdf](http://www.cip4.org/documents/jdf_specifications/JDF1.4a.pdf)
- langJMF(69), CIP4 Job Messaging Format -- [http://www.cip4.org/documents/jdf\\_specifications/JDF1.4a.pdf](http://www.cip4.org/documents/jdf_specifications/JDF1.4a.pdf)
- langPPML(70), PODI Personalized Print Markup Language -- <http://ppml.podi.org/ppml-docs/ppml-specifications.php>
- langXHTMLPrint(71) W3C XHTML-Print -- <http://www.w3.org/TR/xhtml-print/>
- langPDFis(72), PWG PDF Image-Streamable (PWG 5102.3) - <ftp://pwg.org/pub/pwg/candidates/cs-ifxpdfis10-20040315-5102.3.pdf>
- langPDF13(73), Adobe Portable Document Format v1.3 - <http://www.adobe.com/devnet/pdf/pdfs/PDFReference13.pdf>
- langPDF14(74), Adobe Portable Document Format v1.4 - <http://www.adobe.com/devnet/pdf/pdfs/PDFReference.pdf>
- langPDF15(75), Adobe Portable Document Format v1.5- [http://www.adobe.com/devnet/pdf/pdfs/PDFReference15\\_v5.pdf](http://www.adobe.com/devnet/pdf/pdfs/PDFReference15_v5.pdf)
- langPDF16(76), Adobe Portable Document Format v1.6 - <http://www.adobe.com/devnet/pdf/pdfs/PDFReference16.pdf>
- langPDF17(77), Adobe Portable Document Format v1.7 - [http://www.adobe.com/devnet/acrobat/pdfs/pdf\\_reference\\_1-7.pdf](http://www.adobe.com/devnet/acrobat/pdfs/pdf_reference_1-7.pdf)
- langPS2(78), Adobe PostScript Second Edition - <http://partners.adobe.com/public/developer/en/ps/psrefman.pdf>
- langPS3(79), Adobe PostScript Third Edition - <http://www.adobe.com/products/postscript/pdfs/PLRM.pdf>
- langPCL3(80), HP Printer Command Language 3 - No technical reference manual online
- langPCL3GUI(81), HP Printer Command Language 3 GUI - No technical reference manual online
- langPCL5e(82), HP Printer Command Language 5 Enhanced -  
<http://h20000.www2.hp.com/bc/docs/support/SupportManual/bpl13210/bpl13210.pdf>
- langPCL5c(83) HP Printer Command Language 5 Color -  
<http://h20000.www2.hp.com/bc/docs/support/SupportManual/bpl13212/bpl13212.pdf>

➤ Updated ASN.1 source for IANA Printer MIB at: <http://www.iana.org/assignments/ianaprinter-mib>

## ➤ Power Management Model

- Prototype draft – Awaiting prototype announcement of Power MIB
- Should consider input from MPSA Focus Group Discussion
- After resolution of prototype issues and WG last call, will become Stable Draft and put up for PWG Last Call
- <ftp://ftp.pwg.org/pub/pwg/wims/wd/wd-wimspower10-20100428.pdf>

## ➤ Power Management MIB -Spec

- Prototype Draft – Awaiting prototype implementation and report (after Mid Year 2010)
- After resolution of prototype issues and WG last call, will become Stable Draft and put up for PWG Last Call
- <ftp://ftp.pwg.org/pub/pwg/wims/wd/wd-wimspowermib10-20100428.pdf>

## ➤ Power Management MIB – (ASN.1)

- <ftp://ftp.pwg.org/pub/pwg/wims/wd/wd-wimspowermib10-20100428.mib>

- As discussed at the last WIMS F2F, one of the immediate areas of interest to PWG are User input on Imaging Power Management. Ira and I participated in a MPSA focus group on 20 May, arraigned by MPSA's Jim Fitzpatrick.
- The objectives were for the group to consider the modeled scenarios:
  - Are these realistic use cases?
  - Are there other use cases that should be addressed?
  - Prioritize requirements!
- Participants were provided with a write-up introducing PWG, WIMS, and Imaging Power Management and a summary of the scenarios that were being considered, and a “script”.

<ftp://ftp.pwg.org/pub/pwg/wims/white/MPSA Power Management Info Request.pdf>

<ftp://ftp.pwg.org/pub/pwg/wims/white/MPSA PWG Focus PowerManage 100519.pdf>

# MPSA Focus Group Input

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1. Define power state in terms of % of full operation power consumption
2. Define power states in terms of time to come up to full operation
3. Need to be able to access status and configuration even in reduced power state
4. Providing good power consumption data vs older units.
5. Reporting/ gathering statistics on basis on components/services/subunits, not just MFD
6. Manage power via dashboard interface
7. Automatic policy setup on basis of use history



# MPSA Focus Group Follow-up

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- A. Standardized tools and information to show end users what they are actually using with their old devices vs. new devices
- B. Better, faster "Instant - On" fuser heaters so that erratic workflow can be managed more effectively
- C. Decrease warm-up time to allow end-user, to feel more confident reducing "Sleep Time" delay.
- D. Development of programmable Timed Power On Facilities
- E. Pull - Printing should be encouraged - and should really be a de-facto standard

F. Power consumption management -clients are now demanding to understand their current power usage, projected refresh power usage and - more importantly – continual assessment of power usage even down to a metered level.

G. Identify factors that impact power on print equipment and devices, and indicate impact.

(e.g.

Suppressing blank pages: .025% reduction avg.

Turn off banner pages: .05% reduction avg.

Duplex default: .0003% reduction avg.

Sleep Time: 30 minutes: 20% reduction avg.

Sleep Time: 15 minutes: 21% reduction avg.)

# Addressing Focus Group Comments

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- Additions to Model and other Imaging Power Management Documents?
- Recommendations to Manufacturers and Tool Providers?
- Follow-on contacts?
  - More Focus Groups?
  - Surveys?
  - Articles?
  - ?

# Focus Group Postmortem

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- Too much time presenting background.
- Format did not focus Focus Group
- Jim Fitzpatrick's post fact suggestion:
  - Scenario: #1:
    - Is this true life?
    - How would you change it?
    - How do you need power management to work?
      - Idea #1
      - Idea #2
      - Idea #3
  - Which is the best: Most Ideal, Most Reasonable
    - What are the special considerations
      - Consideration #1
      - Consideration #2
      - Consideration #3
  - Scenario: #2: (etc.)

# MPSA Liaison - Mechanisms

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- When new standards are being developed in a particular area, what would be the effective mechanisms for informing MPSA membership of the efforts and soliciting specific use case and priority information?
  - When is a Focus Group the best approach?
  - What is the most effective format for a Focus Group?
  - How much pre-meeting preparation is desirable, practical?
  - When are Surveys a better mechanism?
  - Are one or more articles giving background necessary?
  - Other ideas?
- Can the MPSA extract from their ongoing activities an identification of problem areas and new circumstances for which standardization documents would be helpful?

# MPSA Liaison

## Understanding the Needs

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- There are longer term questions for users that affect device management (as well as other aspects).
  - Security issues with Imaging Device Maintenance
  - Remote access issues
  - Actual demand for /understanding of SNMPV3
  - Phase-over to management by Web-Services rather than SNMP
  - IPv6/IPSec issues
- There are longer term questions for users that affect work in other PWG workgroups. With respect to NAC for example:
  - Need for Imaging Device Network Access Control compatibility?
  - Which NAC system?
  - When?
  - What attributes?
  - Is SCCM approach worthwhile for interim?
- Other Questions?

# Wrapup

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- Summary of Conclusions
- Schedule Estimates
- Action Items
  
- Next WIMS Conference Call:  
2 PM EDT 21 June 2010

Thanks for your participation!