

# **Workgroup for Imaging Management Solutions**

**Workgroup Session**

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

**February 9, 2010  
Scottsdale, Arizona**

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

# WIMS Agenda



- 3:00 – 3:10      Startup and Introduction
  - Intellectual Property Statement
  - Identify Minute Taker
  - Introduce Participants
  - Consider Agenda
- 3:10 – 3:15      Action Items Status
  - Change requests for corrections to CIM Print Classes.
  - Completion and change requests CIM Print Service Classes (later)
  - PPM Device Id Command Set
- 3:15 – 3:25      Consider adding more entries to  
PrtInterpreterLangFamilyTC
- 3:25 – 3:45      Device Id Command Set –Last Call
- 3:45 – 4:15      CIM Print Service Classes
- 4:15 – 4:45      Imaging Power Management
- 4:45 – 5:00      New Action Items & Wrap-up

# CIM Printer MOFs



- Rick is using new DMTF Change Request tool to address updated MOFs posted at:

<ftp://ftp.pwg.org/pub/pwg/wims/cim/mofinput/ira-20091130.zip>

which include

- CIM\_Printer.mof / pdf (editorial fixups and deprecations)
- CIM\_PrintChannel.mof / pdf (add new enums from IANA Printer MIB)
- CIM\_PrintInputTray.mof / pdf (delete duplicate property)
- CIM\_PrintInterpreter.mof / pdf (add new enums from IANA Printer MIB)

- CRs are

- [ftp://ftp.pwg.org/pub/pwg/wims/cim/CIM\\_Printer-07-final.html](ftp://ftp.pwg.org/pub/pwg/wims/cim/CIM_Printer-07-final.html)
- [ftp://ftp.pwg.org/pub/pwg/wims/cim/CIM\\_PrintChannel-01.html](ftp://ftp.pwg.org/pub/pwg/wims/cim/CIM_PrintChannel-01.html)
- [ftp://ftp.pwg.org/pub/pwg/wims/cim/CIM\\_PrintInputTray-01.html](ftp://ftp.pwg.org/pub/pwg/wims/cim/CIM_PrintInputTray-01.html)
- [ftp://ftp.pwg.org/pub/pwg/wims/cim/CIM\\_PrintInterpreter-00.html](ftp://ftp.pwg.org/pub/pwg/wims/cim/CIM_PrintInterpreter-00.html)

- Tool replaces an entire qualifier even if the change is only one character.
- changes in word-wrap inside Description clauses result in the tool replacing the entire description

# Updated Visio Diagrams

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- Visio-Printer\_16.pdf
- Visio-CIM\_Device.pdf
  
- Known Errors

# Add entries to PrtInterpreterLangFamilyTC

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- Should JDF, JMF and PPML be in PrtInterpreterLangFamilyTC?
  - JDF can be used along with other interpreters so is not necessarily stand-alone but, indeed, a device must add a JDF "interpreter" if it wants to consume JDF job tickets.
  
- Should additional entries be made to reflect revision levels of popular languages?
  - PS2, PS3, PCL3, PCL5e

# Command Set Format for IEEE 1284 Device ID

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- The current “stable” version is  
<ftp://ftp.pwg.org/pub/pwg/pmp/wd/wd-pmp1284cmdset10-20100125.pdf>
- This document is in PWG Last call, which is scheduled to end on 25 February.
- Assuming successful, timely completion of Last Call, Balloting for advancement to PWG Candidate Standard should be complete by the April 2010 meetings.
- The following Last Call comments have been identified to date:
  - Incorrect link on line 111 and alternate link preferred on line 116
  - Specification does not provide for distinguishing PDL “emulations” from base PDL
  - Specification does not provide for distinguishing different versions of PDL
  - ...
- Any additional Last Call comments to be made at this time?

# IEEE 1284 Device ID Comments Discussion

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- Bad link issue
  - Action/Resolution: correct
  
- Preferred direct link to PMP Mail List Info
  - Action/Resolution: Keep existing link



# IEEE 1284 Device ID

## Comments Discussion -2

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### ➤ Version issues

- Pro:
  - General intent of specification is to standardize method of Command Set identification to better allow automatic identification.
  - Since there typically there are significant differences in different versions, the inability to distinguish defeats the intent in many cases. The example was given of HP PCL 3 GUI, used in may lower end ink-jet printers, versus PCL 6 and PCL 5e typically present in laser printers.
  - The current, less standardized method has been used to identify versions, although perhaps not in a consistent way.

# IEEE 1284 Device ID

## Comments Discussion - 3

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### ➤ Version issue

- Con:
  - Vendors don't currently use the same version numbers to mean the same thing, and providing some standardized method of doing this is out-of-scope for this specification.
- Action/Resolution:
  - Register PDF + version names in IANA Printer MIB langTC

# IEEE 1284 Device ID

## Comments Discussion - 4

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### ➤ Emulation issue

- Pro:
  - Although a good emulation should be interchangeable with what it emulates, there may be a legal issue with reporting that an a proprietary PDL is supported when what is supported is, in fact, an emulation of that PDL.
- Con:
- Action/Resolution:
  - Try to get opinion on whether there is a legal issue.

# CIM Printer MOFs



- Print Service MOFs done previously, posted at:  
<ftp://ftp.pwg.org/pub/pwg/wims/cim/mofinput/ira-20090923.zip>
  - CIM\_PrintServiceCapabilities.mof / pdf
  - CIM\_PrintServiceSettings.mof / pdf
- And updated MOFs posted at  
<ftp://ftp.pwg.org/pub/pwg/wims/cim/mofinput/ira-20100203.zip>
  - [CIM\\_PrintJob.mof / pdf](#) - add new enums from IANA Printer MIB
  - [CIM\\_PrintService.mof / pdf](#) - add new enums from IANA Printer MIB

## Ira>>

- (1) Both classes have been compiled with Windows 'mofcomp
- (2) PDFs are color-highlighted output from Notepad++.
- (3) Both classes had major extensions in 23 September 2009

After WIMS WG review, including by Rick Landau, we need to generate the CIM Change Requests (CRs) for these updates.

- Still to be tweaked are PrintQueue, PrintSAP, and other small classes.
- Schedule?

- The current “prototype” version of the Power Management Model for Imaging Systems 1.0 Document is posted at:

<ftp://ftp.pwg.org/pub/pwg/wims/wd/wd-wimspower10-20100202.pdf>

- Items raised included:

- clarification of Operational vs Power states (although relationship between states has been defined as implementation dependent)
- stable states resulting from requests for transitory states
- reporting of transition states (e.g., startup between off-soft and on); assumed to be of no interest
- Defining “flea-power” (presumably some low power consumption level) and “mechanical unplug” (presumably no power consumption at all, although perhaps solid state switches could be used) further; not possible because existing implementations vary, although a “best practices” section could be generated

>>Run Through (Ira).

- Questions?

# Imaging Power Management MIB and MIB spec.

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- The MIB is a binding of the Power Management Model for Imaging Systems Document. An ASN.1 version is posted at <ftp://ftp.pwg.org/pub/pwg/wims/wd/wd-wimspowermib10-20100202.mib>

A MIB Spec is posted at:

<ftp://ftp.pwg.org/pub/pwg/wims/wd/wd-wimspowermib10-20100202.pdf>

>> Run through (Ira)

- Questions and comments?

# Revised Schedule for Power Management Documents

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## ➤ Power Management Model

- Stable draft – Concurrent with the Power MIB Stable Draft  
– for PWG Last Call

## ➤ Power Management MIB

- Initial draft – Current – ASN.1 only
- Complete text (MS Word) – Current
- Prototype Drafts – Current
- Stable Draft – after prototype implementation and report (?)

# Wrapup

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- Summary of Conclusions
- Schedule Estimates
- Action Items
  
- Next WIMS Conference Call:  
2 PM ET 22 February 2010

Thanks for your participation!