

# Internet Printing Protocol Workgroup Meeting Minutes August 11, 2015

Meeting was called to order at approximately 1:30pm PT August 11, 2015.

## Attendees

Russell Brudnicki (Kyocera Document Solutions)  
Adam Just (Samsung - call in)  
Paul Henerlau (Sharp)  
Smith Kennedy (HP - call in)  
Daniel Manchala (Xerox - call in)  
Ira McDonald (High North - call in)  
Joe Murdock (Sharp)  
Ole Skov (MPI Tech)  
Brian Smithson (Ricoh)  
Alan Sukert (Xerox - call in)  
Mike Sweet (Apple - call in)  
Paul Tykodi (TCS - call in)  
William Wagner (TIC)  
Rick Yardumian (Canon)

## Agenda Items

1. IP Policy and Minute Taker
  - IP policy accepted, Mike taking minutes
2. Slides:
  - <http://ftp.pwg.org/pub/pwg/ipp/slides/ipp-wg-agenda-august-15.pdf>
  - IPP/1.1:
    - Don't use NEED NOT, use OPTIONALLY or other weasel words
    - Update Get-Jobs returned Job Attributes groups...
3. Review of IPP/2.0:
  - <http://ftp.pwg.org/pub/pwg/ipp/wd/wd-ipp20-20150730-rev.pdf>
  - Section 2.1:
    - DEPRECATED: List operation first.
  - Q: Add a SHOULD for IPP Everywhere?
    - A: No, just stick with IPP Everywhere stand alone since it depends on 2.0...
  - Add a note about Finishings 2.0 for IPP/2.0 (only for "finishings" Job Template attribute)
  - Action: Mike to post updated stable draft of IPP/2.0 and start PWG Last Call ending September 18
4. Review of IPP System Service
  - <http://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippsystem10-20150810-rev.pdf>
  - Section 2.2:

- Infrastructure System: PWG5109.CLOUD should be PWG51091.1
- Protocol Endpoint: "(c)" => "c)", drop second "or" before "b)"
- Add Printer
- Global: PWG5109.CLOUD -> PWG5109.1, also INFRA?
- Section 3.1:
  - Line 400: Update title for IPP/2.0
  - Add references to PWG 5100.18 (INFRA) and 5109.1 (CLOUD)
- Section 4.6:
  - Drop "now" ("IPP Resources are managed by the System...")
  - Make (a) (b) (c) a numbered list
  - Add forward reference to new operations
  - "IPP Resources do not have leases or expirations times as they do in [PWG5108.3]."
- Global: "new" probably doesn't need to be anywhere in this document.
- Section 5:
  - "This specification combines and flattens the PWG SM System and PWG System Control Service objects into the IPP System object, which is the target of all IPP system-level and resource-level operations. This is consistent with Print Service operations targeted at IPP Printer objects."
  - "This specification maps a subset of the PWG SM ..."
  - Drop "below".
  - 'configured-resources' needs double quotes, add forward reference to section
  - Add element names for XML elements/groups in parenthesis? Just make sure the relationship between XML and IPP is clear
  - Drop "subset", rewrite accordingly, maybe of the form "Figure N shows the PWG SM ... which is mapped to the IPP ..."
- Note: resource-id should be like job-id - monotonically increasing, ids not reused.
- Section 5.1:
  - "System Attribute Group" (singular)
- Section 5.2:
  - "System and Resource Operation Attributes"
  - Add "resource-id" operation attribute.
- Table 1:
  - "device-id" => "system-device-id"
  - "make-and-model" => "system-make-and-model"
  - "message-from-operator" => "system-message-from-operator"
  - "owner-xxx" => "system-owner-xxx", add "printer-owner-xxx" Printer Description attributes
- Table 2:
  - "current-time" => "system-current-time"
  - "serial-number" => "system-serial-number"
  - Add "system-up-time" (SM "UpTime")
- Table 3:
  - "Cancel-Subscriptions" => "Cancel-Subscription"

- "Renew-Subscriptions" => "Renew-Subscription"
- Add reference to ISO DPA for Create-Printer (Create-Service)
- Add note for Create-Printer (which provides the details of the ISO DPA connection)
- Register-Output-Device corresponds to Register-System in 5109.1 (with note to explain the difference)
- Section 5.6: "Resource Attribute Group"
- Section 5.7: Goes away (content in section 5.2)
- Table 4:
  - Make resource-xxx-version required? Yes, Printer MUST support, Client OPTIONALLY supplies
- Table 5:
  - resource-id: add note with forward reference to detailed definition
  - resource-job-id and resource-printer-uri: for job and printer-scoped resources: add note 4
  - resource-k-octets: reference 2911 + note 2
  - Get input from IDS WG on resource-hash/signature, perhaps as a single attribute called "resource-authenticator" or "resource-verification" with a corresponding -type or member attributes
    - Important for auditing from client, extra verification by service
- Sections 6.2, 6.10, etc.: Move existing operations to later section for existing operations with new semantics
- Section 6.11:
  - Drop "selected" from description
- Section 6.11.1
  - "The "system-uri" (uri) operation attribute (section ...) which is the target for the operation."
  - Combine requesting-user-name and requesting-user-uri (supply both ...)
  - Line 758: "printer-geo-location"
  - Drop "unknown" from printer-geo-location, make sure we talk about accuracy in the geo: URI
  - All: make sure colon at end, "which-printers" has one in the middle
  - "printer-service-type (type2 keyword)" should be "printer-service-types (1 setOf type2 keyword)"
  - configured-printers list to contain attributes from LDAP printer schema (41 attributes)?
    - Yes, good for mapping/mirroring to LDAP/DNS-SD/etc.
    - Use requested-attributes to limit list
  - "The Client OPTIONALLY and the System object MUST support this attribute"
  - Put references after attribute names
- Section 6.11.2:
  - Reword more simply for no printers returned, and for successful-ok return status for no printers.
    - Return successful-ok for correct requests that return 0 or more printers, other status codes as listed in section N...

- Drop NEED NOT paragraph
- Mike to provide rewrite of printer attributes group (mirrored from 2911 update)
- Section 6.12:
  - Add Set-Default-Printer operation (a la CUPS)
  - Update to use implementation-defined default if none is set by the administrator (typically the print service)
- Get-Resources and Get-Resource-Attributes modeled on 2911 Get-Jobs/Get-Job-Attributes
  - with requested-attributes keyword for which attributes to return, default is ID and state?
- Get-System-Attributes modeled on 2911 Get-Printer-Attributes
  - with requested-attributes keyword for which attributes to return, default is all
- Section 6.21:
  - Drop system attributes? Yes
  - Mike to supply text for this operation
  - Supply output-device-uuid and printer-service-types, response is like Get-Printers
- Section 7.1:
  - Drop "System" from title
  - Add "resource-id" under here
  - Any other filter attributes for Get-Resources
- Section 7.1.1:
  - Drop "unknown"
  - "printer-geo-location" (missing -geo)
  - Filters, reference section with Get-Printers operation (semantics in this document, not 5100.13)
- Section 7.1.2:
  - Filters, reference section with Get-Printers operation (semantics in this document, not 2911)
- Section 7.1.3:
  - Plural, 1setOf, filters
- Section 7.1.4:
  - Fix "which" wording
- Section 7.1.5:
  - Fix "which" wording.
- Section 7.2.x, 7.3.x: add "system-" prefix for specific attributes
- Section 7.4: Drop
- Section 7.5.4:
  - octetString(16), no infix periods
- Stopped at section 8.

## Next Steps / Open Actions

- Next conference calls August 31 and September 21, 2015 at 3pm ET

- Action: Mike to post updated stable draft of IPP/2.0 and start PWG Last Call ending September 18 (DONE)
- Action: Mike to submit IANA IPP Registry update with ssl3 deprecation and INFRA additions (DONE)
- Action: Mike to post updated WD template with new CONDITIONALLY REQUIRED definition (DONE)
- Action: Mike to update PWG and IPP Everywhere logos with ® on them (DONE)
- Action: Ira to post an issue on the PWG web site for PWG 5100.11's convoluted definition of 'guaranteed'. (PENDING)