# Cloud Imaging Model and Internet Printing Protocol WG Minutes
# November 4, 2014

Meeting was called to order at approximately 11:00am ET November 4, 2014

## Attendees

Mike Green (Conexant)
G. Gupta (Oki Data)
Smith Kennedy (HP - call in)
Daniel Manchala (Xerox)
Ira McDonald (High North - call in)
Soma Meiyappan (Conexant)
Carl Mikkelsen (Conexant)
Joe Murdock (Sharp)
Ron Nevo (Samsung)
Aleksander Soltan (Conexant)
Alan Sukert (Xerox - call in)
Jon Super (Conexant)
Mike Sweet (Apple - call in)
Paul Tykodi (TCS - call in)
Bill Wagner (TIC)
Rick Yardumian (Canon)
Pete Zehler (PARC - A Xerox Company - call in)

## Agenda Items

1. IP Policy and Minute Taker
   a. Policy accepted with Mike taking the minutes
2. Slides
   a. http://ftp.pwg.org/pub/pwg/ipp/slides/ipp-wg-agenda-november-14.pdf
   b. Slide 27: Fix Gantt chart spec names/acronyms
3. Review Prototype Experience for Cloud Imaging Model and IPP Shared Infrastructure Extensions
   a. http://ftp.pwg.org/pub/pwg/cloud/wd/wd-cloudimagingmodel10-20141028.pdf
   b. http://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippsix10-20140226.pdf
   c. http://www.pwg.org/archives/ipp/2014/018294.html
   d. Resource proposal:
      - Q: Just data or metadata?
         - A: Just data, metadata is communicated by referencing in printer-icc-profiles, printer-icons, etc.
      - Possibly rename "printer-resource-xxx" to something else
      - Q: What about atomic updates?

- A: Probably not needed, but say the Infrastructure Printer should not move uploaded resource into place until upload is complete
                - Also use PUT headers to only update if the file does not exist or is older than the original being uploaded
            - Q: What about cleanup?
                - A: Infrastructure Printer can provide per-output-device directory so the directory can be wiped when the output device is no longer registered
            - Recommend using a per-output-device path to address all issues
            - "printer-resource-xxx" only reported to proxies
        e. Register-Ouput-Device Prooposal
            - Probably for System Control, deferring to afternoon
        f. Deregister-Output-Device Proposal
            - Add to next draft for Infrastructure Printer
            - Include some diagram or something on the state model (service is stopped until an update is done on the server)
            - Deferring discussion of System Control Stuff to afternoon
        g. Mike to post Stable draft before the 17th, in hopes of starting a WG Last Call immediately after
        h. Bill to update Cloud Model to include ServiceResourceDirectory/etc. elements for resource files
            - Possible tie-in to system-wide resource service?
            - Icons are the same for all services of a device
            - Profiles would be service-specific
            - Localization catalogs could be either service or system specific
            - Resources can be uploaded to any job service and the system control service
4. Review IPP Scan Service
    a. http://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippfinishings20-20141024-rev.pdf
    b. Title page: PWG Approved
    c. 2.3: Pull Scan definition: fix typo (CScan Client should be Scan Client)
    d. Ira to send list of other typos offline
    e. 4.1.1: "multiple units of physical media" instead of "stack of documents", "unit of physical media" instead of "sheet from a stack", etc.
    f. 4.1.2: [[ISO32000]] should be [ISO32000]
        - Check throughout
    g. 6.1: operational -> operation
        - Check throughout
    h. 6.1: operator and administrator are capitalized terms
        - Check throughout
    i. 6.1.1: document-data-wait
        - Check throughout for other wait-for-document-data references
    j. 6.1.2: Client MAY disconnect, Service MAY do so
    k. 8.1.6: Scan Documents (capitalized)
    l. 8.4.2: and MUST support the ...
    m. PWG Registrations: Copy boilerplate "this is how we convert IANA to

PWG registrations" boilerplate text
- n. Review Scan Service and Spooling Service definition
- o. References:
  - Change T81 to ITU-T81, double check all references (and for [[foo]])
  - Check link for W3CJFIF
- p. Mike to prepare final copy, send to Ira and Pete for final verification before publishing
5. Review IPP Finishings 2.0
   - a. http://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippscan10-20141030.pdf
   - b. IM1: RESOLVED, consensus is to not add Aqueous and Protective
   - c. MS10: RESOLVED, consensus is to change edge-stitch-xxx definition to "two or more staples"
   - d. SK3: RESOLVED, consensus is to add an informative reference to the Wikipedia article, make it clear that it may be useful but is non-normative
   - e. WW3: RESOLVED, consensus is to drop 'after-documents' and rename 'after-copies' to 'after-sets'
   - f. WW5: RESOLVED, consensus is to use updated wording for all
   - g. 3.2.x: copy -> Set
   - h. 3.4: item 3, change to "not parallel to a Finishing Reference Edge"
   - i. 3.5: item 6 add "and the PWG."
   - j. 4
     - 433: finishing processes are ...
     - 436: lowercase "finishing"
     - Line 444: "provided", not "provides"
     - Line 447: "finishing processes", not "finishing operations"
     - Global: "finishing operations" -> "finishing processes"
   - k. 5.1: broken reference to section 4
   - l. 5.1.4: Trim output after each Set for trim-after-copies
   - m. 5.2: Broken reference to section 4
   - n. Global: Job Creation (not job creation)
   - o. 5.2.13.4: 'after-sets' instead of 'after-copies', 'after-sheets' instead of 'after-pages'
   - p. 6.x: type1 keywords for some xxx-supported
   - q. Global: "sub-unit" and "subunit" should be "Subunit"
   - r. PWG Registrations: Copy boilerplate "this is how we convert IANA to PWG registrations" boilerplate text
   - s. Mike to post new stable draft for review at/before November 17 concall, to go to formal Vote
6. Review IPP System Control Service
   - a. http://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippsystem10-20141102-rev.pdf
   - b. Resource discussion:
     - Q: Pull in SM Resource service (5108.03) and do an IPP Binding?
       - A: Yes
     - Q: Merge Resource into System Control in SM 3.0?
       - A: Yes
     - Q: Do we need RetrieveResource?

- A: No, just a URI to the file if it is supposed to be externally accessible
- New operation names:
    - DeleteResource -> CancelResource
    - RetrieveResource -> gone
    - GetResourceServiceElements -> gone
    - GetResourceElements -> as-is
    - ListResources -> as-is
    - StoreResource -> CreateResource
    - ReplaceResource -> gone
    - SetResourceElements -> as-is
    - RenewResource -> is-as (admin/operator/owner)
    - All other admin operations -> gone
- IPP INFRA attributes:
    - printer-static-resource-xxx
        - PUT requests do an implicit CreateResource, mapping based on Content-Type/extension
        - All static resources

c. Address access control:
- System Control Service can be accessed by regular users
- "Query" operations OK
- "Set" operations require authentication/privileges

d. 1.1:
- Think about adding system control service responds to Get-Printer-Attributes by returning URIs pointing to the actual Print service
- Other backwards-compatibility to support IP address printer setup, etc.

e. 2.3:
- Spooling Service: An Imaging Service that stores all of a Job's document data so that it can be reprocessed as needed.
- Streaming Service: An Imaging Service that stores some of a Job's document data as it is processed, output, and/or delivered.
- Remove Resource Service

f. 3.1:
- Line 307: "Therefore, this ... specification defines:"
- Add Resource service

g. Stopped at the end of 3.5 (resume at section 4)

## Next Steps / Open Actions

- Next IPP conference call November 17 and December 8, 2014 at 3pm ET
- Next Cloud conference call December 1, 2014 at 3pm ET
- Review stable draft of IPP Infra on the 17th, in hopes of starting a WG Last Call immediately after
- Review stable draft of IPP Finishings 2.0 on the 17th to go to PWG Formal Vote
- Action: Mike to post updated registration process before November F2F

- Action: Ira to ask Rick and Rainer about JDF coating types: "Aqueous" and "Protective"
- Action: Ira to add comments to Printer MIB TC in 5107.3 for fax-modem-protocol-error and xxx-recoverable-storage-error - suffix dropped from IPP keyword with corresponding suffix (-error, -report, -warning) added depending on the printer state. (PENDING - for update with the 5107.3 errata)
- Action: Ira to submit Printer MIB registration for new xxx-missing PrtAlertCodeTC values in 5107.3 (PENDING - for update with the 5107.3 errata)