

# Cloud Imaging Model WG Minutes

## August 7, 2013

Meeting was called to order at approximately 1:30pm PT August 7, 2013.

### Attendees

Nancy Chen (call in)  
Gyaneshwar Gupta (Oki Tokyo)  
Justin Hutchings (Microsoft - call in)  
Daniel Manchala (Xerox)  
Matsutoshi MURATA (Oki Data)  
Joe Murdock (Sharp)  
Glen Petrie (Epson - call in)  
David Sponable (Xerox)  
Mike Sweet (Apple - call in)  
Paul Tykodi (TCS - call in)  
William Wagner (TIC)  
Rick Yardumian (Canon)

### Agenda Items

1. IP Policy and Minute Taker
  - a. Policy accepted with Mike taking the minutes
2. Slides
  - a. <ftp://ftp.pwg.org/pub/pwg/cloud/slides/Cloud-WG-Meeting-Aug-2013.pdf>
  - b. Q: Do we stop working on the abstract model and focus on IPPSIX?
    - A: No, other bindings (Web Services) important to membership
  - c. Q: Independent Copy Service?
    - A: For now, yes.
  - d. Q: What is registered?
    - A: Needs more discussion
  - e. Q: Does GetSystemElements provide access to elements directly under Services, etc.?
    - A: Needs discussion in SM
  - f. Q: Should Cloud Model operations follow Semantic Model or IPP?
    - A: Cloud operations will converge with IPP, and vice versa
  - g. Q: Multitude of Security issues are deferred to IDS, is this a problem?
    - Mike doesn't think so, define the general security requirements for cloud (already have the SM requirements), IDS can provide some details, bindings provide concrete implementation/details
  - h. Q: Who can be primary editor of Cloud Imaging Requirements and Model?
    - Ron will look for other Samsung editors
    - Maybe some SM contributors?
    - Action: Ron to find a Samsung editor or someone from PrinterOn

- i. Q: How to proceed?
  - Paul suggests cooperation with SM 3.0 efforts
  - Concerns about workload, delay
    - But do we need it out there fast, or get it right?
  - What about breaking things into smaller milestones?
    - Print, Registration, Scan, etc.
    - Concerns about not addressing issues for multifunction
    - But by working on specific issues (rather than big picture issues) we can solve some of the big picture issues in parallel
- j. Registration:
  - Q: Registering services or devices?
    - A: Registering services; devices just come along for the ride
    - This allows registering all services or a subset as desired
    - Always a subset of devices (no control) to support creation and processing of jobs through cloud
  - Update System Elements operation to obtain the Cloud Services corresponding to those services being registered by the Proxy
    - Equivalent of System Control Service's List Services operation?
    - Potentially returns multiple services corresponding to a single requested service
      - Have concerns about letting the proxy choose which Cloud services are used, could be an issue if proxy selects a different service each time
    - Does registering create new cloud imaging services?
      - Not necessarily, implementation-defined for cloud, which can support multiple proxied services for each cloud imaging service
    - What about unregistering?
      - send empty list of services?
    - Change name? Register System Elements?
      - Conveys activity for Proxy (registering) rather than passive (updating)
  - Q: What about ACLs?
    - A: Cloud-specific, out of scope but connected to authorization with Cloud Imaging Service
    - Proxy/local service may also apply ACLs (multiple layers)
    - Also things like release printing might incorporate hybrid layers (can a user release jobs here based on local policy, plus cloud policy as to whether release is supported)
  - Write up Register System Elements operation
  - Do sequence diagram for registration
  - Other operations?
    - Set Output Device Elements, Get Output Device Elements (from IPPSIX)
- k. What sequences?

- Registration
  - “Cold boot” of proxy (updating, resetting fetchable jobs, etc.) / Proxy Communication Failure
  - Print Attached Document
  - Scan
  - Maybe Copy (but no documents?)
    - Why for cloud? Because you need to authenticate or don't have a copy interface on the printer itself
    - Also a proxy for separate single-function scanners and printers
    - Q: Do we need to show this?
      - A: No, drop this and the use case
  - Transform
    - Make sure use case mentions external transform services registering with Cloud Imaging System to provide additional transforms for all services
    - Show input and output of document data
  - Drop:
    - FaxOut from Hardcopy (not all that different from Print Attached Document)
    - Print by Reference (...)
    - Paper Out Exception
    - Scanner Failure
    - Document Data Access Failure
  - Device Exception (like paper out)
  - Processing Exception (like document access failure)
  - Client Cancel
  - Downstream Abort or Cancel
  - Action: Mike to prepare sequence diagrams for Cloud
- l. What about Cloud Imaging System advertising availability for Proxy to connect and register?
- How does the owner to know where to point the proxy?
  - More of a binding question, IPP might support auto-registration via DNS-SD, others might provide hostname to a standard
- m. Q: Proxy owner and device owner the same?
- A: That's our assumption
- n. Operations:
- Get/SetDeviceElements operations? IdentifyPrinter/Device?
    - To be discussed in Semantic Model
  - AcknowledgeIdentifyPrinter/Device
    - Based on discussions about IdentifyPrinter/Device
  - Notification operations from IPP
    - Not in SM yet
    - IPPSIX uses Create-Printer-Subscriptions, Create-Job-Subscriptions, Get-Notifications, Cancel-Subscription, etc.
  - UpdateSystemElements -> RegisterSystemElements

### 3. Next steps

- a. Q: Do we continue?
  - A: Yes
- b. Q: Additional contributors?
  - A: Bill can continue to edit, need more people involved
- c. Q: Objectives?
  - A: Come up with some incremental milestones
  - For October meeting: finish definition of Registration
- d. Q: Schedule?
  - A: As quickly as we can do it right
  - Current solutions are still not mature, will (eventually) benefit from standardization
- e. Q: What about Google?
  - A: Slightly different from SM, would be useful to define an official mapping since many members already have to interface with GCP

## **Next Steps / Open Actions**

- Next Cloud conference call on August 26, 2013 at 3pm ET
- Finish definition of Registration
- Determine followup milestones
- Action: Mike to prepare sequence diagrams for Cloud
- Action: Ron to find a Samsung editor or someone from PrinterOn
- Action: Mike to send CopyInput ticket slides to Daniel for SM meeting in the morning (DONE)
- Action: Mike to confirm scope of trademark registrations and get the new logos registered (DONE)
- Action: Bill to update section 4 according to the diagram changes (ONGOING)
- Action: Bill and Larry to work together to post an updated Cloud Imaging Requirements and Model document based on this meeting comments.