Cloud Imaging Model WG Minutes
September 30, 2013

Meeting was called to order at approximately 3:00pm ET September 30, 2013.

Attendees

Daniel Manchala (Xerox)
Tim McCann (Konica Minolta)
Ira McDonald (High North)
Ron Nevo (Samsung)
Mike Sweet (Apple)
Paul Tykodi (TCS)
William Wagner (TIC)

Agenda Items

1. IP Policy and Minute Taker
   a. Policy accepted with Mike taking the minutes
2. Review previous minutes:
   a. ftp://ftp.pwg.org/pub/pwg/cloud/minutes/cloud-concall-minutes-20130826.pdf
   b. Approved as posted
3. Continue discussions of Cloud Imaging Services
   a. ftp://ftp.pwg.org/pub/pwg/cloud/wd/wd-cloudimagingmodel10-20130828.pdf
   b. Ron: PrinterOn declines to participate, still looking for Samsung full-time editor
   c. Section 4.1.2:
      - First paragraph: "prerequisite" instead of "premise"
      - Item 1c: reword to be consistent with 1a and 1b
      - Lines 615-618: Talk a little bit about a trusted relationship being a prerequisite between Client/Proxy and the Cloud Imaging System. Not too specific, but highlight the security requirements
         - Think about functional requirements for this, too.
   d. Section 4.1.2.1:
      - Item 2:
         - MakeAndModel (capital A)
         - DeviceUuid instead of DeviceId
         - Maybe other elements from System Control Service in SM?
      - Item 4:
         - What about Set Service Elements (for read-write elements) for device capabilities/configuration/defaults?
         - Update Service Elements does read-only (status) elements
      - What about notifications?

- Right now they aren't in SM
- Need to define notifications, or at least have a Get-Notifications equivalent
- Is there a concept of a lifetime for a registration?
    - No, not at present.
    - Might add that registrations may not be indefinite.
    - Do we need a separate Renew Registration operation?
        - Maybe not, just have Register Device act as renew if already registered?
e. Section 4.1.2.2:
    - Add note that devices may be de-registered automatically after some period of time.
f. Figure 3:
    - Instead of Reverse, call it "Proxy IS Interface"?
g. Figure 4:
    - Missing: Add another Cloud Imaging Service X with 2 Output Device/Proxy bubbles attached
h. Figure 5:
    - Add Set Service Elements for each service
i. Register System instead of Register System Elements?
j. Deregister System instead of Deregister System Elements?
k. Section 4.2.2:
    - Line 711: "looses" should be "loses"
    - Do we need a DeviceKeepAlive operation?
        - TCP has keep-alive
        - Maybe call it GetNotifications (for keep-alive?)
    - Title: "Communication Resynchronization"
l. Figure 6:
    - Add Set Service Elements for each service
    - DeviceKeepAlive -> GetNotifications
m. Figure 7:
    - DeviceKeepAlive -> GetNotifications
    - Also show GetNotifications from Client side (to get job/printer status updates)
n. Section 4.2.9:
    - How is it different than SM Transform Service? Do we need to call it out specially here?
    - Transforms may be done automatically on behalf of the Proxy by the Cloud Imaging Service
    - Drop this paragraph, but talk about it in section 4 (Cloud Imaging System may provide transform services but they use the standard interface, nothing new here)
o. Table 1:
    - AddHardcopyDocument -> AddDocumentImages with InputElements (per August 2013 SM F2F)
    - GetJob History, Validate Job Ticket, etc. -> remove excess spaces
    - IdentifyDevice -> IdentifyActions, RequestingUserName, Message

parameters
p. Section 4.3.1.1:
- Sync up with JPS3's Identify-Printer, also look at using DeviceName or DeviceUuid to identify a device
- If not specified, multiple devices would be identified
- Action: Mike to update IPPSIX to include device-name/uuid as a potential operation attribute for Identify-Printer
q. Section 4.3.2:
- Item d: mutual identification and authentication of Cloud Imaging System/Service and Proxy
- Item e, lines 23-26: clients might assign a particular output device if the proxy reports the supported output devices (middle ground: composite capabilities + selectable devices)
r. Table 2:
- DeviceKeepAlive -> GetNotifications
- Add AcknowledgeIdentifyDevice operation
- UpdateServiceaElements -> UpdateServiceElements
- RegisterSystemElements -> RegisterSystem
- DeRegisterSystemElements -> DeRegisterSystem
- Add SetServiceElements, SetSystemElements
s. Section 4.3.2.1:
- GetNotifications
- Need to look at event elements for jobs and identification
- Also look at long-running responses (multiple events can be returned)
- What about keep-alive/ping responses?
t. Section 4.3.2.7:
- Rename operation:
  - "PutDocumentData"
  - "ThrowDocumentData" (as the opposite of Fetch? :)
  - "UploadDocumentData" -> Use this one
  - "ProvideDocumentData"
u. Add SetDeviceServiceElements
v. Add SetDeviceSystemElements
w. Section 4.3.2.8:
- Rename to UpdateDeviceServiceElements
x. Section 4.3.2.9:
- Rename to RegisterSystem
y. UpdateDeviceSystemElements?
z. Important to have separate operations for what the proxy sets since the Cloud Imaging System can represent multiple Imaging Devices/Proxies
a. Stopped at 4.2.2.9

Next Steps / Open Actions

- Next (joint) IPP/Cloud conference call on October 14, 2013 at 3pm ET

- Prepare/review slides for October F2F
- Action: Mike to update IPPSIX to include device-name/uuid as a potential operation attribute for Identify-Printer
- Action: Ron to find a Samsung editor (PENDING)