

Cloud Imaging WG Conference Call Minutes

June 25, 2012

Meeting was called to order at approximately 3:00pm ET June 25, 2012.

Attendees

Nancy Chen (Oki Data)
Justin Hutchings (Microsoft)
Tim McCann (Konica Minolta)
Ira McDonald (High North/Samsung)
Glen Petrie (Epson)
Michael Sweet (Apple)
Paul Tykodi (TCS)
Larry Upthegrove (End-user)
Bill Wagner (TIC)
Rick Yardumian (Canon)
Peter Zehler (Xerox)

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-f2f-minutes-20120605.pdf>
 - b. Accepted as posted
3. Discussion
 - a. Q: Are user association/printer registration in scope?
 - A: Probably not because there is little standardization in CPPs
 - b. If we don't address user association and printer registration, then the scope is limited to the interfaces between CPM and CPS.
 - c. Discuss how the other interfaces/players exist within the model
 - Abstract model for CPP, Client, Cloud Print System Service, etc.
 - Much as was done for multifunction services, extend the model to support pull print for cloud and other fan-out configurations
 - Do not address bindings for authentication/association/registration
 - d. Cloud Print Service is the focus, specifically the new interfaces with the Cloud Print Manager. The Client interface is traditional SM Print service with additional authentication/association information at the protocol layer.
 - e. Define:
 - Registration of capabilities (but not creation/instantiation of Cloud Print Service) is in-scope operation, goes along with status/config updates
 - How to have CPS request something from CPM?
 - Implicit event notification registration - CPM must tell CPS about config/state changes for printer and job(s)
 - Initial state of Cloud Print Service defined by model
 - Event notification
 - How to handle (per binding, or part of the abstract model?)
 - Long-running get vs. poll vs. out-of-band notification
 - f. Model diagram:
 - Drop arrows for association and registration
 - Arrows for interfaces we are defining, lines without arrows for known interfaces that are not being defined

- Explain that association and registration are out-of-scope
- g. Q: Are we selling ourselves short by not tackling association/registration?
 - A: No, core protocol stuff is still needed, and cloud services still evolving rapidly
 - Standardization of core model gets us the 90% solution, with vendor-specific interfaces accounting for a small amount of code
 - We can always address association and registration for specific cloud technologies afterwards
- 4. Sequence Diagrams:
 - a. <ftp://ftp.pwg.org/pub/pwg/cloud/white/Cloud%20Print%20sequence%20drawingsupdate20120607.pdf>
 - b. Remove Printer Registration and Client Association - just discuss something happens to do it (and talk about CPS instantiation)
 - c. Print Process
 - Eliminate Cloud Print Provider and Cloud Print System Services
 - Request Print jobs returns list of jobs
 - Retrieve Job with job identifier returns print job ticket, which then does a Create-Job to Printer
 - Retrieve Document with job and document identifier returns document data, which then does a Send-Document to Printer
 - Unlink interim status from client request, add more interim status updates from printer (to show it is happening continuously)
 - Indicate some sort of continuous polling operation/event notification
 - optional arrow from CPS to CPM "event"
 - d. What about Canceled jobs?
 - Client canceled job -> CPM must poll/get event from CPS indicating the job has been canceled
 - Maybe CPM "get work" request can return list of jobs to cancel
 - Add separate sequence diagram:
 - Client Canceled Print Process
 - Printer Canceled Print Process
 - Maybe also add Aborted Print Process diagrams where processing fails in CPS, CPM, or Printer
 - e. Event notification from CPS to CPM
 - Do we require for things like XMPP?
 - Or just polling?
 - Or both

Next Steps / Open Actions

- Next conference call July 16, 2012 at 3pm ET
- Action: Bill to post updated Cloud Printing Requirements and Model Interim Draft (DONE)
- Action: Bill to update the current Mapping draft (DONE)
- Action: Larry to post the further Cloud Print Sequence diagrams reflecting information developed on the sequence spreadsheet (DONE)
- Action: Mike to provide updated use cases text for Cloud Print Model (PENDING)
- Action: Mike to provide updated design requirements for Cloud Print Model (PENDING)
- Action: Joe to update definition of visible/visibility to cover AAA (PENDING)
- Action: Ira to work with Justin on MSPS mapping (ONGOING - work started)
- Action: Mike to update PPD Mapping (ONGOING - pending table updates)