

Cloud Imaging WG Face-to-Face Minutes

April 27, 2012

Meeting was called to order at approximately 9:00am local April 27, 2012.

Attendees

Danny Brennan (GTS)
Russell Brudnicki (Kyocera)
Nancy Chen (Oki Data)
Daniel Dressler (OpenPrinting - call-in)
Haisong Gu (Konica Minolta)
Justin Hutchings (Microsoft - call in)
Till Kamppeter (Canonical/OpenPrinting)
Shane Lin (Monotype)
Ira McDonald (High North/Samsung)
Peter Mikalac (Shinesoft)
Joe Murdock (Sharp)
Naruhiko Ogasawara (Independent)
Glen Petrie (Epson)
Michael Sweet (Apple)
Anil Thakkar (Thinstream)
Jerry Thrasher (Lexmark)
Randy Turner (Amalfi)
Paul Tykodi (TCS - call-in)
Larry Upthegrove (End-user)
Bill Wagner (TIC)
Jay Wang (Toshiba)
Tim Waugh (Red Hat - call-in)
David Williams (Ricoh)
Rick Yardumian (Canon)
Peter Zehler (Xerox)

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-April-2012.pdf>
3. Cloud Model and Requirements
 - a. <ftp://ftp.pwg.org/pub/pwg/cloud/wd/wd-cloudmodel10-20120412-ww.pdf>
 - b. Section 2.1
 - Update to current template
 - c. Section 2.2
 - Title: Printing and Cloud Terminology
 - Add introduction statement (source of terms, etc.)
 - Put in alphabetical order
 - Many terms have IPP-isms, try to use Semantic Model definitions where possible
 - Client
 - Device
 - Line 162 (Cloud Print Provider): Change "Cloud Printer Manager" to "Cloud Print Manager"

- Registration: "Process by which a Cloud Print Manager ..." (drop client, fix manager)
- Additional objects/terms to define:
 - Visible Device; A Cloud Print Service that can be directly accessed by a Client.
 - Visible/Visibility; Refers to the ability of a Client to communicate directly with a Cloud Print Service, for example a Client is able to query for supported attributes, submit imaging job creation requests, and so forth.
 - Provide example of IP-based network connectivity
- d. Section 3.1:
 - Title: Rationale for Cloud Print Model and Requirements
- e. Section 3.2:
 - Add subsection titled "Common Preconditions"
 - Use numbered list of common preconditions
- f. Section 3.2.x:
 - Switch to casual use case form (goals and preconditions in a lead-in paragraph)
 - Accessible->Visible
 - Action: Mike to provide updated use cases text for Cloud Print Model
 - Action: Joe to update definition of visible/visibility to cover AAA
- g. Section 3.3:
 - "The following are out-of-scope for the Cloud Print Model and Requirements:"
 - numbered list (drop OOS-N prefixes)
 - OOS-3: Add "(extensions to existing protocols are still in scope)"
 - Multifunction is out-of-scope but not precluding multifunction/designing with multifunction in mind
- h. Section 3.4:
 - Introduction text and list
 - Action: Mike to provide updated design requirements for Cloud Print Model
- i. Cloud Diagram
 - <ftp://ftp.pwg.org/pub/pwg/cloud/white/Cloud%20printing%20discussionv1.pdf>
 - First implementation: drop printer, add building/van/whatever outside cloud to indicate usage
 - Show two clients on left ("..." between them)
 - Show lines extending through firewall to Cloud Print Services (paired)
 - Use standard terminology:
 - User-client -> Client
 - Print manager -> Cloud Print Manager
 - Service Provider -> Client Print Provider
 - Add Cloud Print Service bubble(s) in cloud, link to Cloud Print Manager(s) on right
 - "Cloud Print Service(s)"
 - Add "..." between the printers (to indicate it can be more than 2 printers and clean up Cloud Print Manager/printer grouping)
 - Q: Do we add another example with federated clouds to expose the requirements for federation?
 - A: Yes, copy last example showing two clouds ("..." between them to indicate 2 or more)
 - Q: What about Multifunction?
 - A: Starting with Print, doing multifunction services next year
 - Expect multifunction spec to be deltas from print
 - (just like IPP)
- j. Section 4.1:
 - Add cloud diagrams (one per configuration), list as subsections with titles

- k. Section 4.1.x:
 - Make sure all terminology is capitalized, move to 4.2
 - l. Section 4.1.1 Client:
 - "... responsible for supplying information ..."
 - m. Section 4.2:
 - Make it clear that a Cloud Print Manager can register multiple Cloud Print Services - N to 1 mapping
 - Target of registration/association is the Cloud Print Provider
 - Registration creates a Registration object with an associated Cloud Print Service in the Cloud Print Provider
 - Association creates an Association object in the Cloud Print Provider
 - n. Section 4.3 Cloud Print Operations
 - Title: "Cloud Print Transactions"
 - Describe authorization, registration, etc. of Clients and Cloud Print Managers with the Cloud Print Provider, the creation of Cloud Print Services when Cloud Print Managers register, etc.
 - Essentially defining the semantics of the model
 - o. Move figure 1 functional model diagram to section 4.3
 - Client registration -> association
 - Add Cloud Print Service in cloud
 - Printer -> Printer(s)
 - Use Cloud Diagram as source
 - Break up into multiple figures showing pairwise relationships
4. Cloud Print Spreadsheet
- a. ftp://ftp.pwg.org/pub/pwg/cloud/white/PWG_cloud_mobile%20%20print%20solutions_eval__4_24_2012.xls
 - b. Use existing implementations to describe general issues in the rationale/introduction of the model document
 - Lack of security (email)
 - Lack of status
 - Lack of capabilities/policy
 - Job tickets
 - Firewall compatibility
 - Vendor-specific
 - etc.
 - c. Action: Larry to write a one-paragraph introduction covering key points of why we are writing a Cloud Print Model and Requirements
5. Cloud Mapping
- a. <ftp://ftp.pwg.org/pub/pwg/cloud/wd/wd-cloudmap10-20120426-rev.pdf>
 - b. No objections to making this document standards-track (instead of best practice)
 - c. Line 9: Fix title (missing paren)
 - d. Action: Bill to supply initial section 3 rationale text for CLOUDMAP
 - e. Q: Should we add IPDS mapping?
 - A: Yes, but not for first version of mapping
 - f. Action: Paul to draft a mapping chapter for IPDS/AFP
 - g. Action: Ira to update Cloud charter to change title, make CLOUDMAP standards-track, and add a CLOUDMAP2 with IPDS/AFP and DTMF/CIM
 - h. Q: Should we provide mapping of job and service states?
 - A: Yes, add mapping of state model to each chapter where appropriate.
 - i. Q: Should we provide mapping for DTMF CIM?
 - A: Probably not, but add informative reference to CIM
 - j. Latest CIM release has all print classes finalized (no longer experimental)
 - k. Q: Do we change title?
 - A: Yes, "Mapping Related Standards to/from PWG PJT (CLOUDMAP)"

- I. Q: Do we move MSPS into CLOUDMAP2?
 - A: Let it float - if it is done in time, put it in the first version, otherwise it can be delayed to the second
 - Preference is to have MSPS in the first version since Google is using it

Next Steps / Open Actions

- Next conference call May 21, 2012 at 3pm ET
- Action: Mike to provide updated use cases text for Cloud Print Model
- Action: Mike to provide updated design requirements for Cloud Print Model
- Action: Joe to update definition of visible/visibility to cover AAA
- Action: Larry to write a one-paragraph introduction covering key points of why we are writing a Cloud Print Model and Requirements
- Action: Bill to supply initial section 3 rationale text for CLOUDMAP
- Action: Paul to draft a mapping chapter for IPDS/AFP
- Action: Ira to update Cloud charter to change title, make CLOUDMAP standards-track, and add a CLOUDMAP2 with IPDS/AFP and DMTF CIM
- Action: Continue work on Cloud Printing Requirements and Model (ONGOING)
- Action: All members to work with Larry to fill out Cloud Printing spreadsheet (ONGOING - updating with content from Epson and PrinterOn)
- Action: Continue Mapping of PWG Semantic Model elements into PPD, MSPS, and JDF formats (Best Practices Document)
 - Ira to work with Justin on MSPS mapping (PENDING)
 - Mike to prepare new draft of PPD Mapping whitepaper (ONGOING - pending table updates)
- Action: Mike to provide IPP slide on supply types and their printer-state-reasons (PENDING)
- Action: Ron or Bill to post a call for wider participation of driver developers for the XPS/MSPS stuff (ONGOING - who do contact?)