The Printer Working Group

Cloud Imaging Model Working Group Face-to-Face Meeting

May 13, 2014

Cupertino, California (hosted by Apple)

Agenda

When	What

10:15 – 10:30	**Introduction and Administrative**
	    Intellectual Property Policy Statement
	    Identify Minute Taker
	    Introduce Participants
	    Consider Agenda
	    Acceptance of Previous Minutes
	ftp://ftp.pwg.org/pub/pwg/cloud/minutes/cloud-concall-minutes-201404.pdf

10:30 – 12:00	**Review Cloud Imaging Requirements and Model** Operations, Transaction Sequences, Elements ftp://ftp.pwg.org/pub/pwg/cloud/wd/wd-cloudimagingmodel10-20140418.pdf
12:00 – 1:00	Lunch
1:00 – 1:45	Page-Turn Review of Cloud Imaging Requirements and Model from beginning
1:45 – 2:00	Next Steps

Officers and Contributors

- Chair: Ron Nevo (Samsung)
- Vice Chair: Bill Wagner (TIC)
- Secretary: Michael Sweet (Apple)
- Document Editors
  - Bill Wagner (TIC): Editor
  - Ron Nevo (Samsung): Editor

Introduction

- The intent of the Cloud Imaging Model Working Group is to develop a model for providing Imaging Services via a Cloud Imaging System in a way consistent with the PWG Semantic Model.

- The current PWG Cloud Imaging Model contends that the operations interface between a User Client and a Cloud Imaging Service is no different than that between a User Client and any networked Imaging Service, with the exception of asynchronous notification capability (if any).

- However, Cloud Imaging Services often must interface with out-of-cloud end devices (e.g., printers, scanners) to which direct access is blocked by a firewall. The PWG Model identifies a Local Imaging System Proxy intermediate agent and defines a new set of operations from Proxy to Cloud Service.

Recent Changes to Model Specification

- Added:
  - GetProxiedServices and GetProxiedServiceElements to Cloud Service Management operations
  - GetProxiedSystems and GetProxiedSystemElements to Cloud System Management operations
  - GetServiceNotifications to Cloud System Control Service as well as Imaging Service(s) in transaction diagrams

- Eliminated:
  - GetCloudTerminatedJobs request in favor of automatic return of this information in response to UpdateActiveJobs

- Clarified various descriptions

- Updated Sequence Diagrams

- Corrected elements listed in Operations Tables

- Added Elements list in appendix

- **Are Operations to include Service Type in Name?**

  (e.g., AcknowledgePrintJob, generalized to Acknowledge<service>Job).
  - Service UUID is included as element in all Proxy operations.
  - Semantic Model Schema includes Service Name in all operations.
  - MFD Model Specification (SM2) uses <service> term in all operation names.
  - How handled in SM3 yet to be determined.

- **How do we call Cloud Services versus proxied Services?**
  - Cloud Model currently considers that Local Imaging System Proxy communicates with "Cloud Service" (using defined proxy operations) and with "Local Service" (using undefined operations, but possibly standard SM-defined networked client-service operations).
  - Semantic Model appears to prefer "SourceService" (probably for Cloud Service) and Destination Service (for Local or Proxied Service).
  - But although the Cloud or Source Service may consistently be the immediate Source of a Job, it is neither the ultimate source of the Job nor necessarily the source of data, including document data.
  - The Local or Destination service may not be local to User or even to the Proxy, but it is not in the Cloud.

Review of Requirements and Model

- Draft at:
  - ftp://ftp.pwg.org/pub/pwg/cloud/wd/wd-cloudimagingmodel10-20140418.pdf

- Detailed Review Sequence
  - Elements in Table 2, Table 4, Table 5
  - Elements references – Table 6.

- Page Turn Review from beginning

Next Steps

- Resolve any identified issues in Model Specification.
- Update specification to Prototype State.
- Await IPP SIX prototype notice.
- Adjust Model Specification as necessary to reflect correction of issues in IPP SIX prototype.
- Submit to WG Last Call. Resolve Issues.
- Submit to PWG Last Call. Resolve Issues.
- Submit to PWG vote.
- SM3 WG Interface
  - Request that new Cloud-oriented Operations be added to SM 3 and existing operations adjusted to reflect Cloud Model versions.
  - Request Cloud Services to be Modeled?

Next Steps

- Other Cloud Imaging Model WG Projects
  - Is consideration of other Cloud-related standards activities appropriate to this WG?
    - TCG activities
      http://www.trustedcomputinggroup.org/resources/tms_use_cases__bring_your_own_device_byod
    - Google Cloud Print Documents, Job Ticket and Capabilities mappings
  - Other extant Cloud Imaging Approaches
  - Any other projects that the workgroup should consider?

Cloud Imaging WG Participation

- We welcome participation from all interested parties
- Cloud Imaging Working Group Web page
  - http://www.pwg.org/cloud/index.html
- Subscribe to the Cloud mailing list
  - https://www.pwg.org/mailman/listinfo/cloud
  - cloud@pwg.org
- Cloud Imaging WG holds bi-weekly phone conferences announced on the Cloud mailing list
  - Next conference call is June 9, 2014 at 3 pm EDT
  - Conferences on opposite weeks of IPP WG calls