The Printer Working Group

Cloud Imaging Model Workgroup Status

February 4, 2014

PWG F2F Plenary Meeting

Irvine, California

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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.

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

Recent Changes to Model Specification

- Although the Registration of a Local Imaging System with a Cloud Imaging System, making selected capabilities of the Imaging Services in the local system accessible through the Cloud System Services, is retained, the concept of registering the individual local Imaging Services has been dropped.

- The querying of the Cloud Imaging System Control Service by the Local Imaging System Proxy for System notifications is replaced by Service Notification queries to each of the Cloud Services corresponding to a proxied Local Service.

- Names of some Operations and Actors have been changed to better reflect their function.

- To allow recovery of Job Status after communication loss or local equipment reset, the operation by which the Proxy informs the Cloud Service of Jobs still active and their States, is supplemented by a new operation by which the Cloud Service informs the Proxy of Cancelled or Aborted Jobs.

Status of Requirements and Model

- Draft at:
  - ftp://ftp.pwg.org/pub/pwg/cloud/wd/wd-cloudimagingmodel10-20140128.pdf
- Schedule
  - Charter calls for PWG Last Call of Cloud Imaging Requirements and Model specification Q4 2013. This has not been met. However, a Prototype Draft is anticipated by Q2 2014
  - PWG Last Call requires previous notice of prototyping of the model binding by either the IPP or SM2 WG. Last Call milestone dependent upon binding efforts.
  - The WGs have attempted to co-ordinate the Model design and IPP SIX.
  - Although a Prototype working draft of IPP SIX was posted by Q4 2013, a prototype implementation has not yet been announced and the IPP SIX draft is not yet in Stable state.
  - However, it is anticipated that IPP SIX interoperability testing and specification Last Call will be completed by Q4 2014, and that the Cloud Imaging Requirements and Model Specification will also be in Last Call state by that time.
- Next Steps
  - The Cloud Imaging Model Workgroup Charter identifies no project beyond this Requirements and Model specification.

Cloud Imaging WG Participation

- We welcome participation from all interested parties
- Cloud Imaging Working Group Web page
  - http://www.pwg.org/cloud/index.html
- Cloud Imaging Working Group Wiki
  - http://pwg-wiki.wikispaces.com/Cloud+Imaging
- 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 Feb 17, 2014 at 3 pm (ET)
  - Conferences on opposite weeks of IPP WG calls