



The Printer Working Group

Cloud Imaging WG Plenary Report

Aug 6th , 2013

Camas, WA (hosted by Sharp)



Introduction

- Cloud-based applications and solutions are increasingly common, and Cloud-based printing, scanning, and facsimile (collectively called "Cloud Imaging") are emerging in several different forms. Adopting standard protocols and schemas now will help interoperability, speed adoption, and address privacy and security issues involved in Cloud Imaging.
- A basic functional model including a Client, Cloud Print Provider, Cloud Print Manager, and Printer was developed at previous Cloud Printing BOF sessions. This model revealed several new requirements beyond the existing PWG Semantic Model including registration, enumeration/selection, use of late transforms to preserve fidelity, additional notification events, strict privacy and security policies, and reliable logging.
- The goal of the Cloud Imaging project is to develop a model for providing Imaging Services via a Cloud Imaging System in a way consistent with the PWG Semantic Model and adding to that model as necessary..



Introductions

- Initially defined projects included:
 - *Mapping of Imaging Service Capabilities and Job Ticket structures used in current Cloud Imaging Systems to and from the Service Description & Status elements and the Job Ticket elements in PWG Semantic Model.* When the mapping effort was extended beyond Microsoft Print Schema Specification and the Adobe Postscript Printer Description, it became apparent that this was no longer a Cloud specific activity and the project was transferred to the Semantic Model Working Group.
 - *Cloud Printing Requirements and Model*, defining the reference model, terminology, and requirements for Cloud Printing. The intent was to quickly provide a viable model for Cloud Printing, and to then extend this model to Cloud Imaging. However, the effort did not proceed quickly and, on consideration, there was not a simple extension to Imaging Services. This project was therefore abandoned in favor of concentrating on the Imaging Services Model.
 - *Cloud Imaging Requirements and Model*, defining the reference model, terminology, and requirements for Cloud Imaging, including all of the job-oriented services defined in the PWH Semantic Model 2. This is the current project of the Work Group.



Officers and Contributors

- Chair: Ron Nevo (Samsung)
- Vice Chair: Bill Wagner (TIC)
- Secretary: Michael Sweet (Apple)
- Document Contributors:
 - Peter Zehler (Xerox): PWG Job Ticket (basis for Cross Mapping documents)
 - Michael Sweet (Apple): PPD Cross Mapping; Requirements and Model
 - Ira McDonald (High North): JDF Cross Mapping
 - Justin Hutchings (Microsoft): MSPS Cross Mapping
 - Larry Upthegrove: Cloud Printing Requirements and Model
 - Bill Wagner (TIC): Editor
 - Ron Nevo (Samsung): Editor

Status - Cloud Imaging Requirements and Model Specification



- Initial Draft was posted in February, based upon the Printing Model draft
- Introduction, Terminology and Rationale sections
 - Have undergone multiple review and rewrite cycles
 - May still not represent working group consensus
 - Question as to whether Device/Service/Component registration is in-scope, and if it is, how it is to be modeled
 - Question, to be addressed in SM Group, whether Copy is best considered as a distinct Service or a function of the Print Service
- Model section
 - Agreement on overall model not yet reached
 - No Sequence Diagrams
 - Proposed Operations are defined, but set may not be complete
 - If Device/Service/Component registration is in-scope, lack of consensus on what is to be registered and how is it to be modeled.
- Schedule
 - Getting a specification into PWG Last Call in 2013 is unlikely



- Determine whether project is to continue
 - Project is not making progress, has lost its original contributors, and there are significant differences in concept among participants
 - IPP SIX, nominally addressing an IPP binding of Cloud Imaging, is proceeding ahead of the Model.
 - Since it is unlikely that there will be a binding other than IPP, is there justification to invest effort in an abstract model?
 - If there is, is it reasonable to structure the abstract model of multiple imaging services to reflect a printer centric implementation?
- Get consensus on use cases and requirements
- Get consensus on registration issues
- Generate sequence description and diagrams
- Complete description of operations
 - Need for more Client Side operations, elements and/or descriptions?



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 August 26, 2013 at 3 pm (ET)
 - Conferences on opposite weeks of IPP WG calls